

House & Garden

Condé Nast Publication

September, 1937, Section I

UNIVERSITY OF HAWAII

SEP 7 1937

Sept 7

Sept 7



DOUBLE NUMBER

on I: Fall Decorating

on II: Prize-Winning Houses

Price 35 Cents

FIVE ROOMS IN ONE!...

It can't be done? Yet here is photographic proof of how practical and attractive such a magic space-saver can be. It's a study for Junior, a den for Dad. To Mother it's the sewing room she's always needed. To Sis, who has just reached party age, it's the ideal place for trying on new dresses. Where is the fifth? Come and spend the night, and you'll find it a most friendly guest room. Then you'll fully appreciate how much of its charm comes from the Armstrong's Linoleum Floor. In fact, this newest Armstrong's Embossed effect, design No. 6280, suggested this many-purpose interior. It's so quiet and comfortable underfoot. So restful to look at. And so spick-and-span. "And so easy to keep that way," your hostess will tell you. Threads, paper snips, ashes brush up jiffy-quick. Even if ink spills, a damp cloth takes away all trace. Occasionally the surface is renewed with Armstrong's Linogloss Wax, which needs no polishing. These are but a few of the reasons why Armstrong's Linoleum Floors have grown so popular. The others you'll see at local stores... a parade of smart fashions that give no hint of their modest price.

MORE ROOM IDEAS

... in fact, a whole bookful ... will be sent you if you write for "Floors That Keep Homes in Fashion." Shows different types of interiors in full, natural color. Explains a simple method for planning correct color schemes. Send 10¢ to cover mailing (40¢ outside U.S.A.). Address your request to Armstrong Cork Products Company, Floor Division, 3709 Mulberry Street, Lancaster, Pennsylvania. (Makers of cork products since 1860)



IT'S A STUDY...



IT'S A DEN...



IT'S A SEWING ROOM...



IT'S A FITTING ROOM...



IT'S A GUEST ROOM



Complete specifications for this room will be sent to you free on your request.

ARMSTRONG'S LINOLEUM FLOORS

for every room  in the house

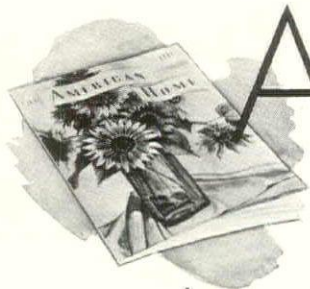
PLAIN • INLAID • EMBOSSED • MARBELLE • JASPÉ • RAYBELLE • MONOBELLE • PRINTED • QUAKER RUGS and LINOWALL



Now is the time to choose the Sterling Silver you have been promising yourself!

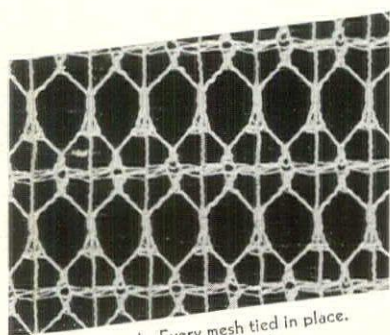
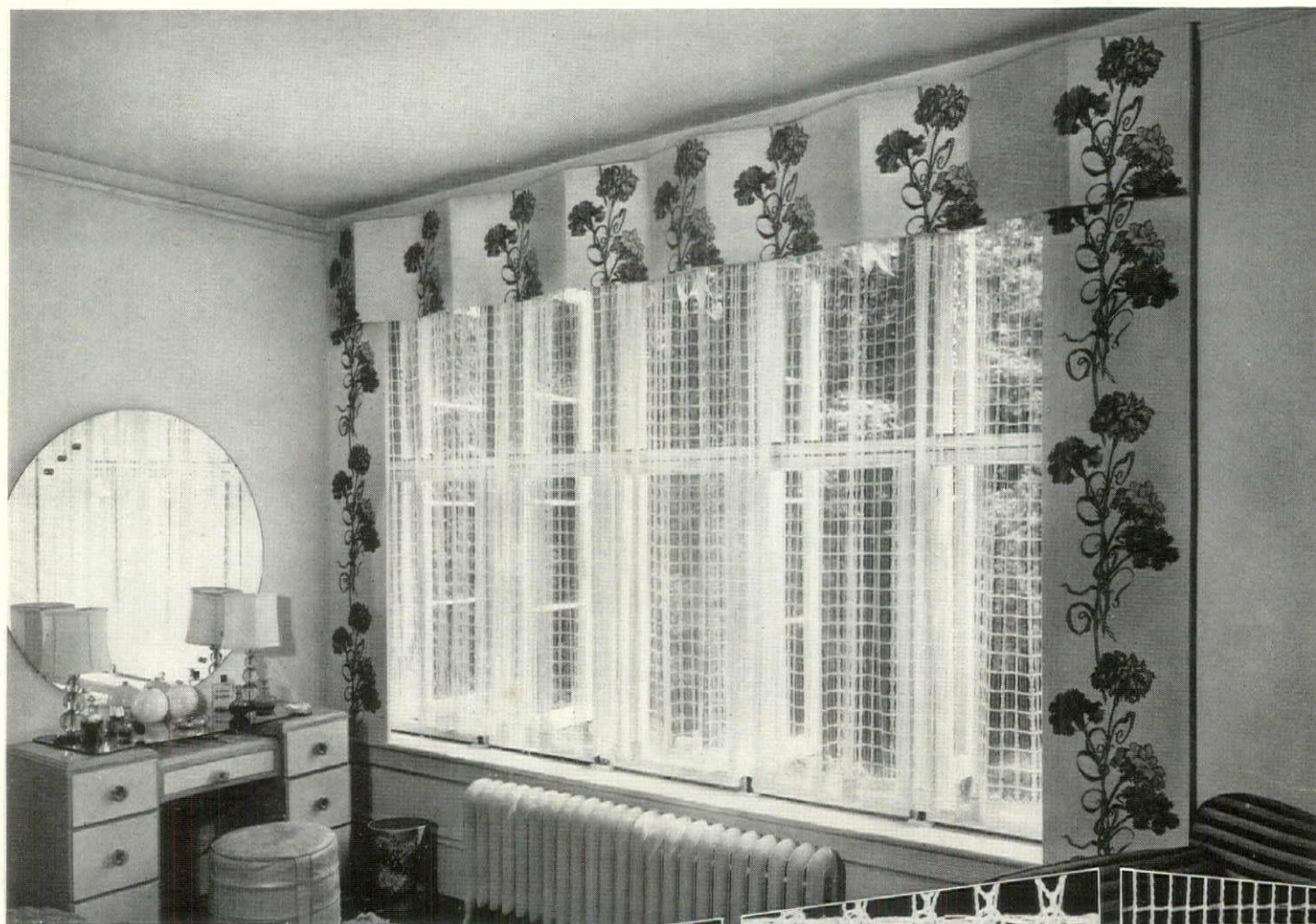
The variety of Wallace Sterling designs is greater than ever before. After all, the unique charm of Sterling Silver lies in the beauty of its lines . . . the individuality of its designing and the skill of its fashioning. Isn't it artistry and craftsmanship which will ever be inseparably a part of Sterling's creation? The patterns illustrated herein reflect just the right note of contemporary art in their dignified simplicity, or bring a subtle reminder of classic beauty in their decorative motifs. The prices are moderate. Write for illustrated price list. Wallace Silversmiths, Wallingford, Connecticut.

MEMBER OF THE STERLING SILVERSMITHS GUILD OF AMERICA

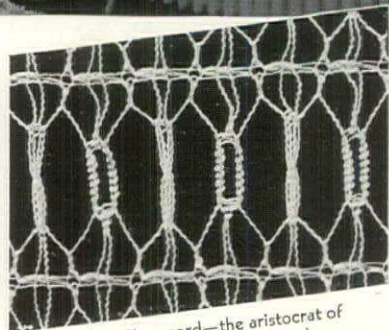


American Home

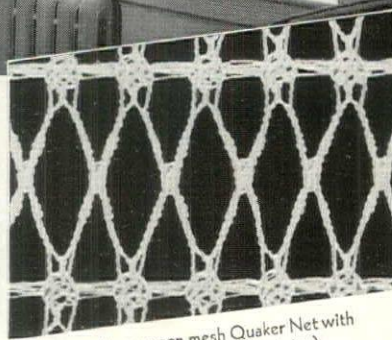
arranges a modern window
with **QUAKER NET CURTAINS**



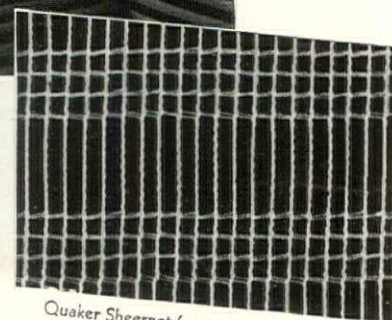
Cryscord—Every mesh tied in place.
(illus. actual size).



Quaker Sheercord—the aristocrat of
curtaining. (illus. actual size).



Cryscord—an open mesh Quaker Net with
a "difference". (illus. actual size).



Quaker Sheernet for window demanding
simplicity (illus. actual size).

**Invest One Dollar
in Quaker Stockings**

There is no better silk stocking than the Quaker Genuine Crepe. You will want to try it. So, if your favorite store does not carry Quaker send \$1.00 for a pair in the latest suntan shade. Specify your size, please. Quaker Hosiery Co., 330 Fifth Ave., N.Y.

SO SHEER and lovely that they *look* delicate, are the new Quaker curtains. Not a woven cloth but a delightful web of thread strongly tied in place, that continues to look like new after years of wear and many washings.

Look at the illustrations on this page. These are some of a myriad of meshes Quaker offers for choice of exactly the net to suit your room. Notice the variety presented! Large, heavy-thread net for the masculine room; dainty, fine-thread webs for feminine rooms; restrained meshes for formal rooms. And all, because of mesh construction, hang in graceful folds.

Insure the durable loveliness of your windows by selecting Quaker curtainings.

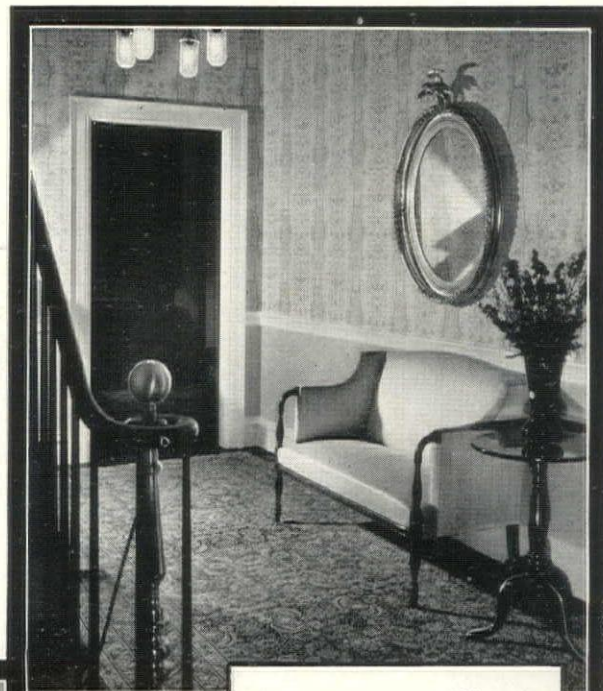
This Book Will Help You With Your Windows.

Window decorating problems found in typical homes—and their solutions. More than 50 photographs and pages of helpful information. Send 10 cents to Quaker Lace Company, Dept. C97, 330 Fifth Avenue, New York.

MACY'S "American Ancestor" MAHOGANY REMINDS YOU THAT YOUR FORBEARS WERE SOPHISTICATES ★ ★



The recent widespread vogue for the Georgian import, and for primitive American "farmstead" furniture has somewhat obscured the fact that many of our American great-greats were urbane folk who built glorious and gracious houses, developed a high, distinct civilization of rich and hospitable warmth... Now Macy's has re-created their era (1780-1860) in a brilliant and beautiful collection of more than 100 pieces, copied minutely from distinguished originals in fine mahogany... shows them in a fascinating new "house" in Macy's ninth floor... calls them (with merit) "American Ancestor" Mahogany... The pieces are designed to enrich the lives of substantial sophisticates, but they cost no king's ransom... *Please come soon...*



ABOVE—a graceful Sheraton sofa in the stair-hall of "Ancestor House."

AT THE LEFT—a corner of the drawing-room.

The staircase above is an original... lifted by its roots from an old "York State" house and brought to Macy's.



Bromley Lace Curtains

chosen for the "IDEAL HOUSE"
by the Editors of House & Garden



A distinctive window treatment with Bromley Lace Curtains, photographed in B. Altman & Co., Fifth Ave., New York



BEAUTIFULLY designed lace net curtains that afford you the opportunity to express long-cherished ideas of charm and individuality. The style and quality of Bromley curtains have received the endorsement of House and Garden's editors who selected them for use in the "Ideal House." Curtains to fit your exact purpose, adaptable to any decorative scheme, from periods to modern, can be found in the extensive Bromley line carried by leading department stores in your city.

BROMLEY MANUFACTURING COMPANY
New York • Philadelphia • Chicago

C U R T A I N S B Y . . **BROMLEY**

A trip through a LIGHT CONDITIONED Home



*Shows How "Light Conditioning"
Protects Eyesight... Adds Beauty*

Better Light for Better Living. Mr. and Mrs. Hamilton enjoy the new charm, beauty, and sight-saving lighting added to their living room by "Light Conditioning" it with I. E. S. Better Sight Lamps. Smooth, glareless lighting from these lamps not only flatters textures and colors in rugs and draperies... but guards eyes against the dangers of eyestrain, nervousness and fatigue so often caused by poor lighting.



Jane and Mother enjoy their sewing more... thanks to the new I. E. S. end table lamps. Smart and new, these lamps make each end of the davenport a safe place to do close seeing tasks or to thoroughly enjoy a good book. I. E. S. Better Sight Lamps are made in many models. The wide variety of styles offer the widest choice for those planning to decorate a new home or modernize the present home.

Ross Stewart (below) noted authority on interior decoration, says:

"There is no need to sacrifice lighting beauty in order to get scientific eyesight protection. Many of the new I. E. S. Better Sight Lamps I have seen are as much a product of the artist as they are of the seeing specialist. It is gratifying to see decorative art and science working so closely together."



Grandfather Lights Up the favorite pipe and an I. E. S. Better Sight Lamp for real "after dinner comfort." "Slippers for the eyes" is the way many of the older folk refer to the soft, abundant light they get from these beautiful lamps.

People everywhere now buy lamps only after seeing the I. E. S. Better Sight Lamp Tag on their prospective purchases and witnessing a "Seeing is Believing" demonstration. The tag shown below appears only on genuine I. E. S. Better Sight Lamps. It certifies that the lamp meets 54 specifications for sound construction, electrical safety, and sight-saving lighting.



I.E.S. Better Sight Lamps
TRADE MARK



I. E. S. BETTER SIGHT LAMP MAKERS,
2116 Keith Bldg., Cleveland, O.

9-H&G

Gentlemen:

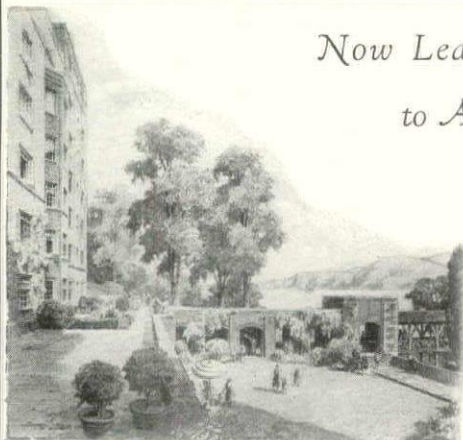
Send me your booklet "Light Condition Your Home."

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Address _____

City _____

State _____



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for Immediate
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HUDSON HOUSE

AT
Ardley-on-Hudson
NEW YORK

Westchester's most modern and exclusive fireproof residential building, in the secluded atmosphere of a country estate, with the convenience of a mid-Manhattan address. Begin a year-round vacation now in the comforts of its carefully planned suites with the inspiration of its superb location. Magnificent views of the Hudson—cross-ventilation—children's playgrounds—sports club across the road—in restricted Ardsley Park—stately old shade trees—a covered way from house to train—38 minutes to Grand Central. These and many other features make HUDSON HOUSE the most outstanding suburban residential opportunity of the year.

TWO TO SIX ROOMS, ONE TO THREE BATHS

Managing Agent

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No. 12 East 52nd Street • New York • Telephone—PLaza 3-0270



UNDER THE ROOF



Although not exactly under the roofs of Manhattan, Hudson house, a mere 38 minutes from Grand Central, is accessible enough for Manhattanites to consider. Located on a hill at Ardsley-on-Hudson on the site of the old Ardsley club house, this new building has all the aspects of a veritable castle on the Hudson. From its many terrace and casement windows is a direct view of the river at a 3½ mile point. Windows which do not look out on the river face an outlook of superb trees, a garden terrace, a brook and pools, all part of an extensive landscaping system.

Just behind the house and up the hill is the new Ardsley country club, replete with tennis courts, both grass and clay, a fine golf course, pool and

indoor sport facilities. Special club memberships are available for tenants.

Hudson House itself is a 7-story building with apartments of 3 to 6 rooms with from 1 to 3 baths, and 12 penthouses. The latter include wide terraces with superb views of the country round about. In every living room you will find a wood burning fireplace and a large casement window already equipped with Venetian blinds and screens. Some of the living rooms measure as much as 16 by 25 feet. Directly off many of these are enclosed heated porches which afford added scenic outlook in a thoroughly comfortable manner. Due to the fact that Hudson house is not built around a courtyard; but manoeuvred so that apartments are only two rooms deep, there is cross ventilation in the smallest of available layouts, and some of the larger arrangements have three exposures. In one particular apartment, for instance, a living room with a river view leads direct-



Suites of two to seven rooms as exquisitely conceived as in a private residence. All the rooms are outside rooms, with private serving pantry and silent refrigeration the standard conveniences of each apartment. Complete Savoy-Plaza service. Long- or short-term leases.

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Are you looking for a house?

If you're looking for the perfect house—in the perfect location—let House & Garden help you. We can recommend to you as dependable any of the brokers listed in our Real Estate Directory. They may have the very property you want. If the locality you're interested in isn't listed, write direct to our Real Estate Information Service. We know the best brokers in every part of the country, and we'll be glad to put you in touch with one who will give you excellent cooperation, at no cost to you.

HOUSE & GARDEN'S
INFORMATION SERVICE

420 Lexington Ave., N. Y. C.

OF MANHATTAN

ly to the dining room which overlooks lovely planting in the rear of the building.

Kitchens in the larger apartments are roomy and light, and scientifically planned with modern paraphernalia. Two-room layouts have adequate kitchenettes. Incinerator and dumb waiter service is always included. As to the bathrooms, each bath has a built-in clothes hamper, just to give you a detailed idea of things.

Incidental and general aspects of this modern garden of Eden are a fully equipped laundry in the basement, maid and valet service, playrooms in the basement for both grown-ups and children, as well as an additional playground for children outdoors. Extra guest rooms are available; elevators are self-service of the newest type. Somewhat below the formal garden which graces the front of the building, and which has its own special apartments and flagstone terraces leading to it, is

a specially built garage built to hold 150 cars (made possible because of the hillside location). On the main floor the dining room comfortably seats 75 people, and has the generally beautiful view afforded to the apartments. And, oh yes, there is a penthouse terrace for general use.

One of the trump cards of the Hudson House management is the direct route to the station at the riverside via elevator and covered tunnel. Rain cannot hamper you, and the passage is fleet. The city is practically at your doorstep. 45 trains from New York and 28 into the city make transportation mere child's play. In case you don't know the exact location of Ardsley, it is situated half way between Irvington and Dobbs Ferry, and it can be reached by auto through various new



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We have just completed an additional number of our famous re-created "Suites of Beauty". No two are alike, each is an exclusive and individual home, combining spaciousness with luxurious new appointments, skillfully blended by world famous decorators. Two to six rooms, some with terrace and butlers pantry.

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Year-after-year guests attest to the comfort of New Weston residence, its convenient location, its atmosphere, its appointments, its justly famed cuisine. Moderate rentals include hotel service.



Immediate or Fall Occupancy;
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Exquisite architectural details distinguish every Towers apartment



Among the many period masterpieces in The Towers is such a home as you yourself would build. We have simply used our money instead of yours to build it. And by giving you the choice of many periods, you are free to consult your own tastes and are not dependent on ours. No sense of limitation in selecting your home and no responsibility for its care . . . that, in brief, tells the story of life in The Towers. Apartments by the day, month or year. 50th Street, just off Park Avenue, New York.

UNDER THE ROOFS OF MANHATTAN

(CONTINUED FROM PAGE 7)

and beautiful parkways. And even if you are not contemplating a riverside apartment, it's well worth a sightseeing tour—but don't say we didn't warn you. William B. May Co.



Number 315 East 68th Street is one of the most popular apartment houses in the city. And no wonder.

Miss Edith E. Keating, the resident manager, is just one of the people who does everything in her power to make the house one large comfortable well-run home. In the matter of service for instance, maids and valets are available, of course. All workmen have their own special showers and dressing rooms, the basement is beautifully kept and equipped with a carpenter shop and a handyman's office where you can take your lamps to be re-wired, radio fixed, or skis stored. The house manufactures its own electricity, hence is able to withstand many lighting emergencies. Needless to say there is a laundry containing all sorts of heaters and dryers and such things. Connected with the house phone are two chain groceries, a first class bakery, butcher and drug store—for convenience.

Now, as to your living quarters themselves: they range from one to nine rooms, although the one- to four-room arrangement is the most popular. There are five penthouses, too. Wood burning fireplaces are included in all apartments, and there is a bath to every bedroom. Smaller layouts are especially noteworthy. Kitchens are surprisingly roomy and light, and each is equipped with a ventilating fan beside the window. Three-room suites include dinettes with the kitchens, and extra washing tubs with the sink. Closets are spacious and numerous, sometimes 3 to a bedroom, besides the guest closet. One-room plans have dressing rooms with the bath—rather unusual for a small city apartment.

As you step out of the elevator on each floor you are greeted with walls covered in a cheery paper, a small enough but pleasant note. Atop the building is a roof nicely planted with gay and colorful petunias and such all through the Summer. Here they have just inaugurated a new porter who

keeps watch over the children, dusts your chairs and runs your errands. He is already a great success. These small attentions, plus a nicely regulated house, are perhaps the main reason for such outstanding and well-deserved popularity.

J. H. Taylor Management Corp., General Realty & Utilities Corp.



On the boundary line between uptown and mid-section apartments is the Mayfair House, neatly situated at 65th Street and

Park Avenue. In keeping with its convenient location is the house itself, a sort of semi-apartment, semi-hotel. Rooms are obtainable furnished or unfurnished. Smaller non-housekeeping apartments have only the usual pantry arrangements, while on the 4th floor housekeeping layouts have real kitchens and larger rooms, and these rooms are in general unfurnished.

Frankly, most of the apartments run from 2 to 4 rooms, and are of the hotel variety. But they have all been recently redecorated by a special decorator who has given them a definitely homelike and non-hotel atmosphere. Even in the mere 2-room arrangements the bedrooms are of a nice size, and the living rooms more than comfortable. In the 3-room apartments you can make a little library or sitting room of the extra bedroom, should you desire. Many of the apartments have wood burning fireplaces. If you are especially fortunate, you may be able to get something situated on the northeast side—here is an especially good view of Park Avenue both across and uptown. In summertime the trees are well worth seeing.

Of course, one of the main advantages of the hotel part of this arrangement is the fine dining room on the main floor, and the bar on Park Avenue. The latter, aside from being nicely decorated in a Chinese fashion, is air-cooled; and a grand luncheon place for Summer visitors. All in all, if you don't want to feel way out of range of the business and entertaining sections of the city, yet wish to steer clear of too much rush and friction, the Mayfair is your happy medium.

Edward H. Crandall, Managing Director.



315 EAST 68th STREET

"Built Around a Garden"

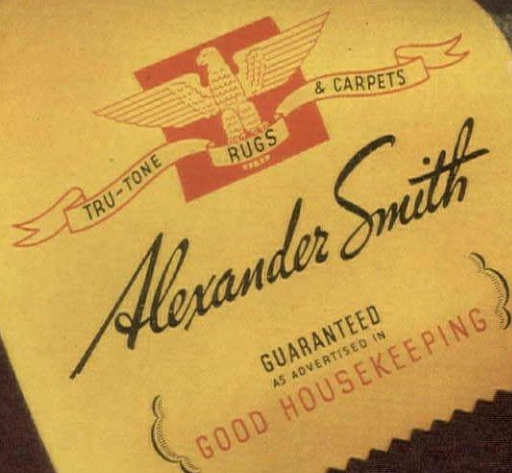
A charming roof garden . . . wood-burning fireplaces . . . sunny, well-planned rooms . . . plentiful closet room and all modern conveniences make this new building a favorite in the fashionable East Sixties.

1 - 2 - 3 - 4
ROOMS

A General Realty Building

J. H. TAYLOR MANAGEMENT
Corporation
31 Union Square ALgonquin 4-4210

NEW *Alexander Smith* TRU-TONE CARPETS



"Nearly Right" Won't Do in *Carpet Colors*

If you are the least bit particular about color, a safe rule in buying broadloom carpet is to go to a good store and ask to see Alexander Smith Broadlooms. These are TRU-TONE colors, with just that subtle difference in shade that style authenticity demands. Look for the gold label with the Good Housekeeping Guaranty. For free Tru-Tone Carpet Book, write Alexander Smith Division, W. & J. Sloane Wholesale, 287 Fifth Avenue, New York, N. Y.



The Group of the Century...

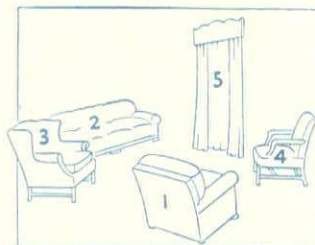
AND THEY'RE ALL SANVALE FABRICS...

This room, a livable combination of contemporary and period pieces, utilizes *Sanvale Fabrics* exclusively ...to ensure its complete harmony of color, texture and design!

There is strong kinship between the 300-odd *Sanvale* weaves. All have the same high qualities of beauty of design and color, durability and satisfaction in use. Selecting for your needs in *Sanvale* is a pleasant

task, not a hopeless scramble to match swatches!

Ranging from sheer casement cloths to staunch upholsteries, running through printed or embroidered draperies and bedspreads...these *Sanvale* weaves are truly the decorator's delight to work with. And yours...if you do your own choosing! Why not write to *L. C. Chase & Co.*, for more information, and the name of a nearby firm that handles them?



ROOM BY L. BAMBERGER & CO.
Newark, N. J. Upholstered pieces from Jamestown-Royal Furniture Co., Jamestown, N. Y.

1 & 2. Sofa and chair of *Glow-spin*, a textured *Sanvale* Upholstery.

3 & 5. Wing chair and window drapery in *Riviera*, a *Sanvale* print. Sea-green, printed in wine, beige and leaf-green. *Sanvale* casement, cameo-beige, slightly opaque.

4. Occasional chair of *Sanvale Wedgmore*, cameo-beige, embroidered in two tones of brown crewel.

Sanvale Fabrics  *by Goodall*

(KNOWN BY DECORATORS FOR YEARS AS GOODALL FABRICS)

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Millions of dollars are being spent for education. Are American parents and taxpayers getting what they pay for? Are your children getting the husks of learning or wholesome character-building education? Have the schools become the prey of spoils politics? These are among the vital questions being answered by The Christian Science Monitor this fall in a striking series of articles based on firsthand investigations.

SAVING OUR SCHOOLS

52 Articles - Oct. 4 - Dec. 3

The series covers four broad phases:

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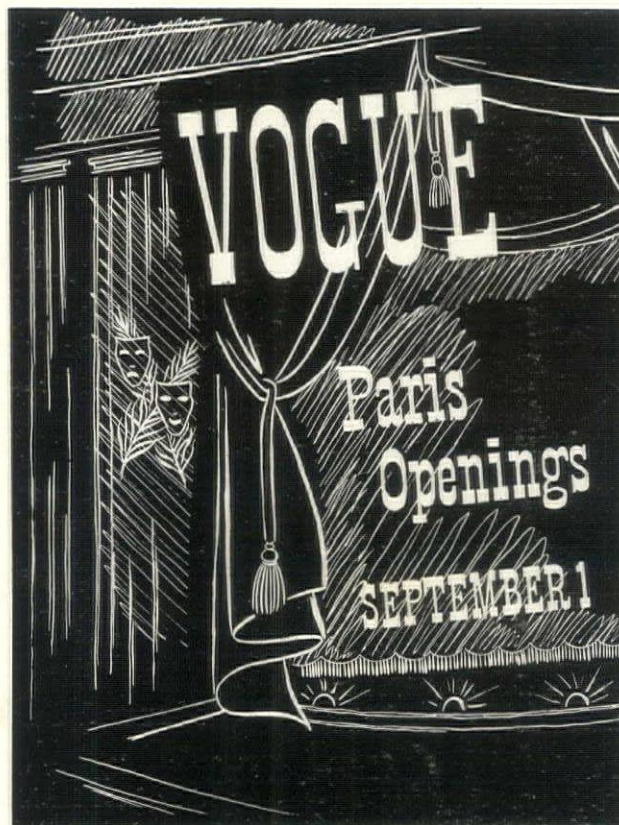
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The Curtain's Going Up On...

FASHIONS OF 1938

That thrilling drama—The New Mode—is about to begin. It's in two acts . . . Vogue's Paris Fashions issues, out September 1st and 15th. These two numbers of Vogue will be as glamorous and colorful and exciting as the Paris Openings themselves . . . and they'll be far more valuable as a guide for Autumn shoppers.

With Vogue as your mentor, you'll see the models that are slated for a fashion future . . . learn the important lines and colors and fabrics . . . and preview a portfolio of Vogue-chosen clothes which you'll find in local shops immediately.

In short, you'll steal such a march on the Autumn fashions as only Vogue's swift and brilliant reporting can secure. If you are not a subscriber, reserve your copies of these two Vogue issues with your favorite news-dealer now.

VOGUE has 2 PARIS FASHIONS issues
September 1st • September 15th

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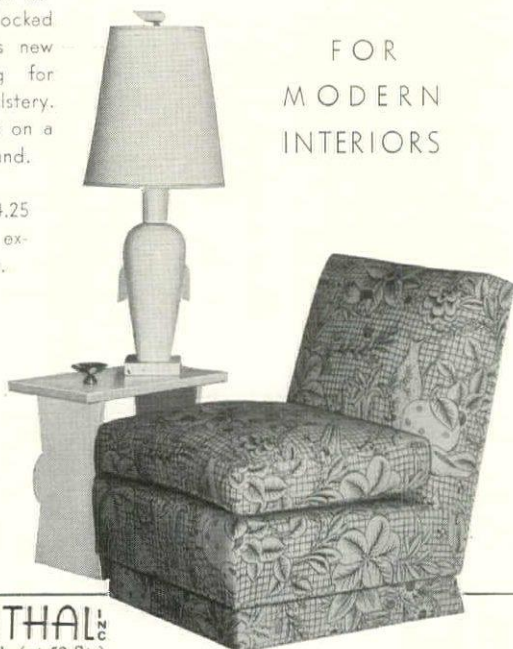
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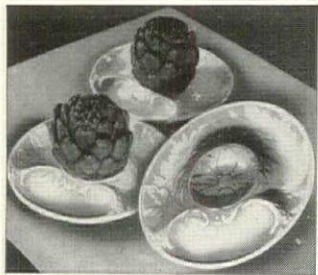
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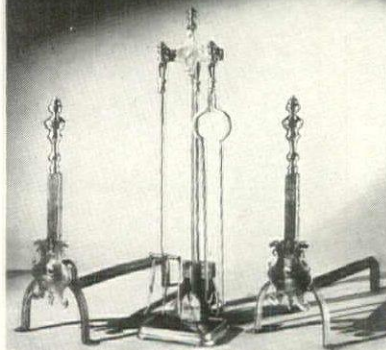
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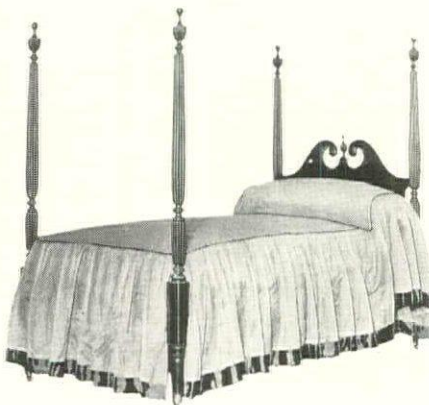
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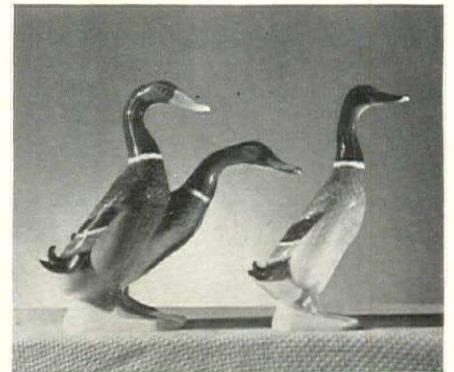
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THE best ace in your card deck is a good table cover. This one, for instance, of suede cloth, decorated solely with your monogram, is durable and easy to clean. Has elastic straps. Cloth and contrasting piping in any of the two following: black, chamois, brown, green, red, blue. \$3.85. Comes from Sara Hadley, 11 East 54th Street, New York



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ENOUGH to inspire a complete new bathroom decorative scheme are these new bath towels. Colored in a lovely shade of light blue, the towels have a newly designed monogram in a deep cerise. Bath towels are \$35.00 the dozen, hand towels \$17.50 dozen, and wash cloths cost \$6.75 a dozen. McGibbon & Co., 49 East 57th Street, New York



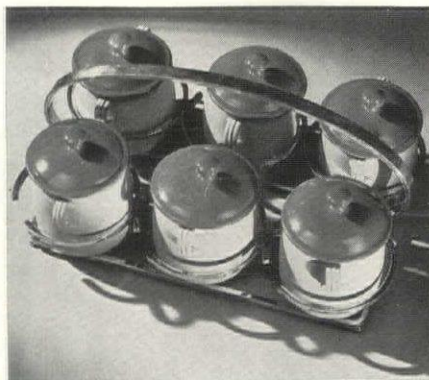
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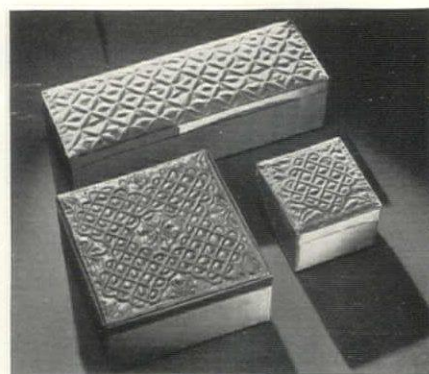
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For the benefit of Sunday night buffet addicts is this onion soup or baked bean rack. Besides the natural colored earthen pots, you can also get different jugs for cocottes. Pots as shown for 6 are \$23.75 the set. For eight, \$29.50. The rack is silver plated. From Hammacher Schlemmer, 145 East 57th Street, New York



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THERE are at least three good points about this relish dish: firstly, it's attractively made of porcelain and brightly colored in cheerful greens and berry red on white. Secondly, it is a perfect receptacle for sliced tomatoes, cucumbers, aspic, canapes, etc. Lastly, it costs but \$7.50. Silver server \$13.00. Georg Jensen, 667 Fifth Avenue, N. Y.

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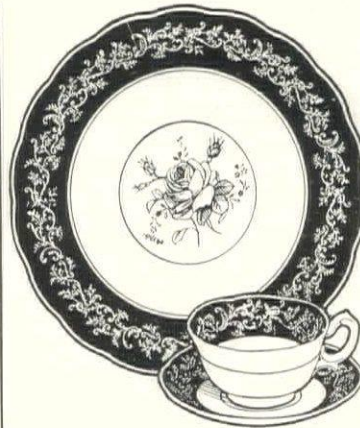
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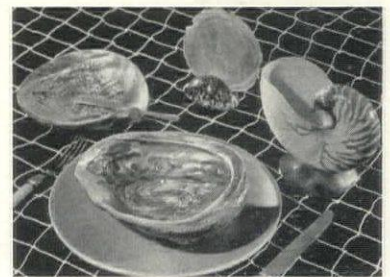
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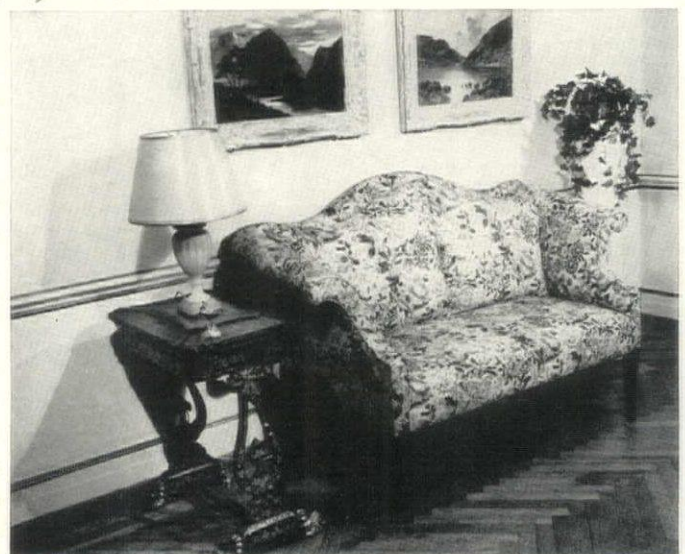


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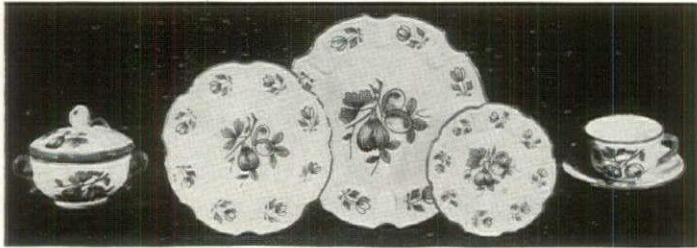
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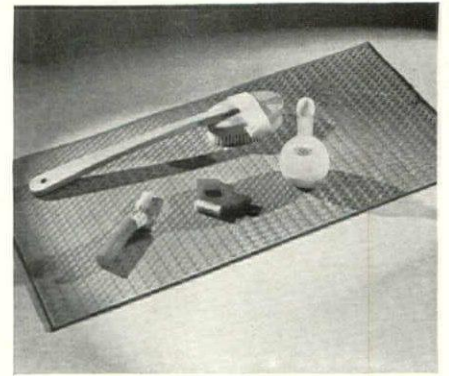
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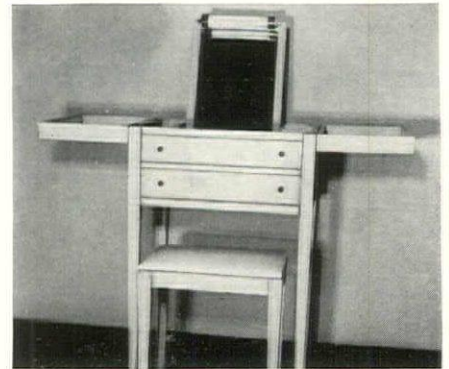
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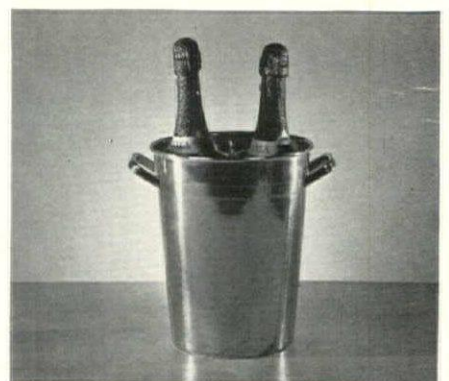
If you like to turn the tables—you may change this useful dressing table into a compact little occasional table by folding in the sides and mirror. When open, it discloses a center compartment filled with all sorts of useful cubby holes. In any color, and costs, including the bench, \$35.00. From Hale Bedding, 420 Madison Avenue, New York



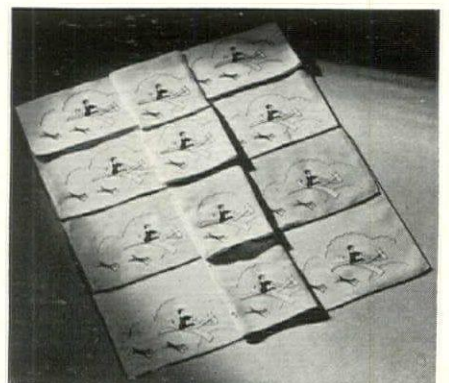
A COUNTRY seat, informal style. The maple frame of this Hitchcock chair is painted black, and decorated with a colorful hand-painted fruit design. Copied from an original found in the valley of Virginia. Rush seat, \$24.75. Matching side chair \$20.25 F.O.B. Virginia Arts and Crafts, 207 East Franklin Street, Richmond, Virginia



THE more the merrier, especially in the case of champagne and wines. So here is a double wine cooler which holds two quart bottles, taking care of each very satisfactorily. It stands 10 inches high by 8½ wide, and is silver plated. Priced at \$16.50. May be obtained from Abercrombie & Fitch, at Madison Avenue and 45th Street, New York



STEPPING gaily into the picture these cocktail napkins are the last word in colorful cocktail accessories. The rider, dogs and scenery come in vivid colors on grounds of green, blue, ecru, white or gold, and cost \$8.75 the dozen. They are made of linen. You can have a boy or a girl hobby horse rider. Leron, Inc., 745 Fifth Avenue, New York





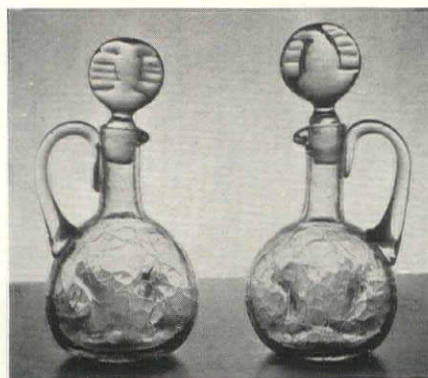
A LUSTRE after dinner coffee set that will certainly enliven your table. This lovely earthenware set of pink has deeper pink and maroon and lustre to carry out a pattern, a reproduction of the old school-house design. Set includes 6 cups and saucers, creamer, sugar bowl and coffee pot for \$12.00. F. Pavel & Co., 19 West 24th Street, New York



NOTHING like a touch of antiquity to enliven your present day nooks and crannies. For instance, a little wooden glass or pot holder copied from an antique cruet stand. Holds 4 small glasses for flowers, or 4 plant pots of about a 3-inch height. Charming as a table centerpiece. \$6.50, from Alice Marks, 8 East 52nd Street, New York



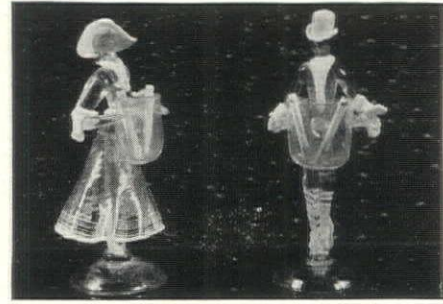
TABLE talk is worth while when it includes this lovely piece. Fashioned of satinwood and mahogany, it is exquisitely made and inlaid in American Sheraton style. 25 inches high with a top 16 inches across. Priced at \$26.00, from the Danersk Craftsmen at Stamford, Connecticut. An excellent and generally useful wedding gift



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If you like inspiration with your liquid refreshments, try this Mexican example. Onto the individual tin tray fits the tin cup, into which goes a glass liner (not shown). The lacquered gourd bug on the opposite end may be affixed to hors-d'œuvres. Bugs vary in specie. \$2.00 complete per tray. The Old Mexico Shop, Santa Fe, N.M.



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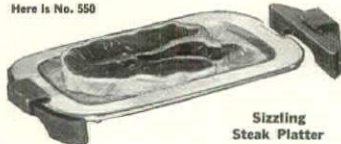


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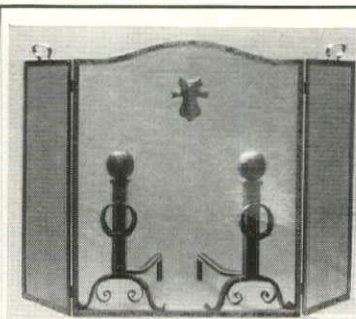


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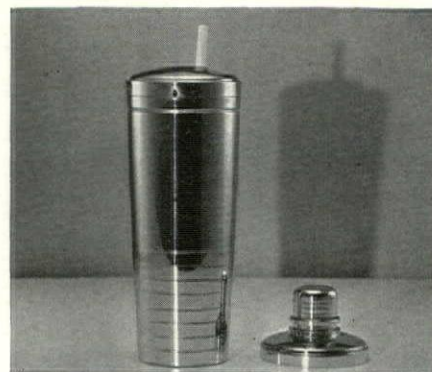
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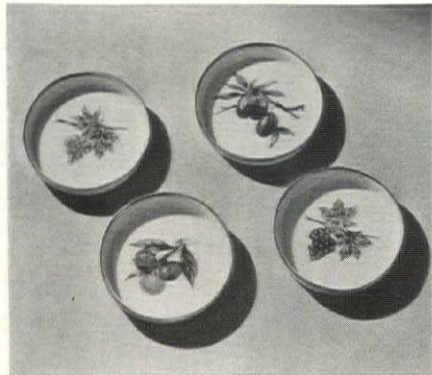
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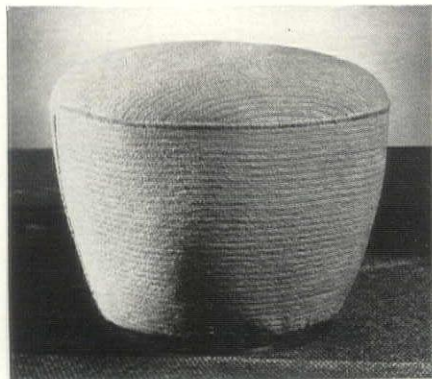
AROUND



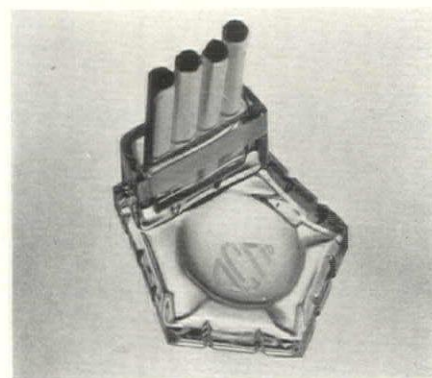
WHAT'S sauce for the goose is apt to be exceptionally good when served in this "saucy boat." It's very good for dressings too. This set of sterling silver with a handle of dark mahogany comes in two pieces, the sauce boat and a separate plate underneath it. Complete, \$14.50. Lambert Bros., Lexington Avenue at 60th Street, New York



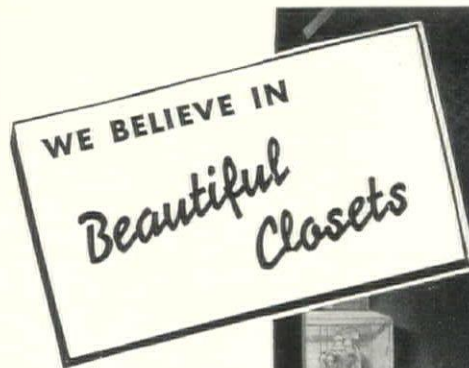
FRUITS of the utmost research. These are ashtrays to please the most fastidious, ashtrays to make excellent bridge prizes or incidental gifts, to use in your living room or prize guest room. Hand-painted on French porcelain, green grapes, dark grapes, cherries or plums cost \$2.50 apiece at Alfred Orlik, Inc., 395 Madison Avenue, New York



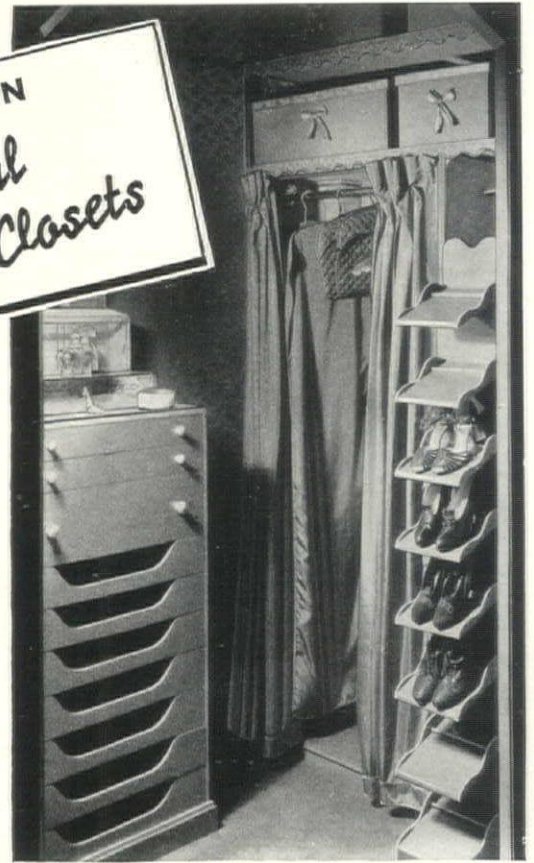
THE versatile ottoman: In the living room have it covered in chenille (\$27.50 as shown); for the bedroom upholster it in a gay chintz; or use it in the bath covered in towelling. Hair and cotton inner filling over springs and a walnut or lacquer finish base. \$22.50 in muslin. Ronner Modern Furniture, 10 East 38th Street, New York



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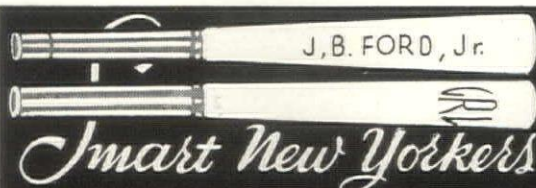
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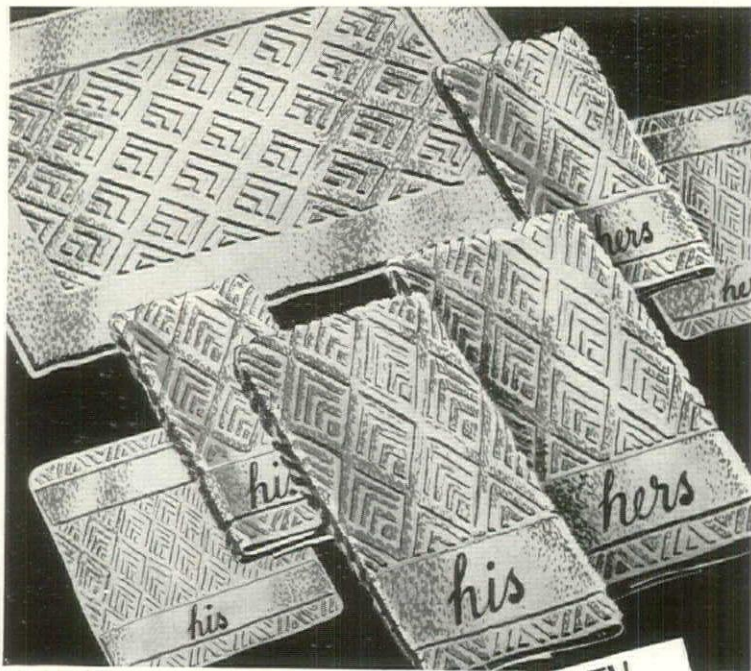
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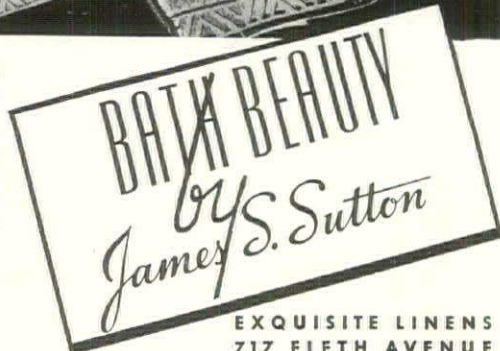


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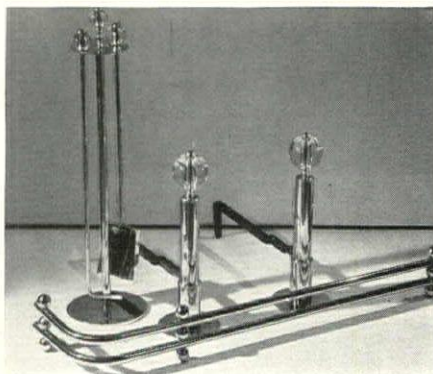


SHOPPING

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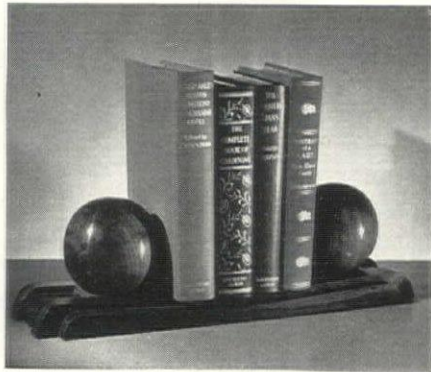
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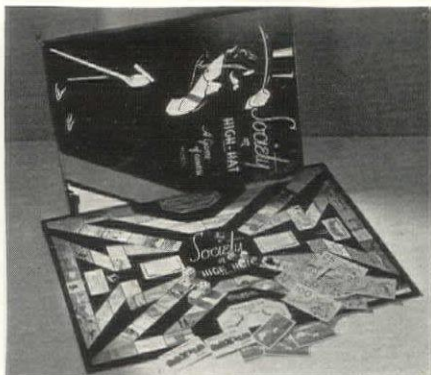
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DEFINITELY on the ball is this modern bookend. Two solid walnut balls control a sliding feature that enables one to ten books to stand rigidly straight. They adjust automatically to different quantities of books. Size overall, 16½ inches x 5 inches. Especially good on a man's desk. Priced at \$7.50 and it comes from Pusey Gifts, 14 East 56th St., N. Y.



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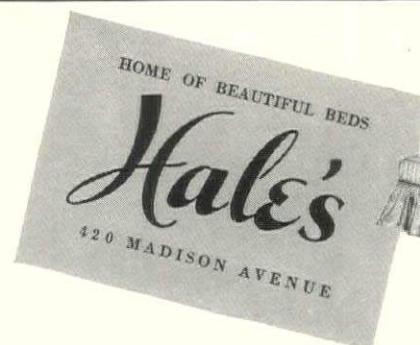
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THE GREAT PYRENEES

Were I asked to name the ideal all-round dog for a country place, I would unhesitatingly nominate the Great Pyrenees. I well realize that one cannot make such a sweeping generalization and have it effective without sound reasons as a background. So let us consider first what Man really expects and asks of his ideal canine companion.

The first requirement, it seems to me, should be a trustworthy and honest disposition. This feature is paramount in the Pyrenees. Never have I met a cross one, even in old age when so many breeds become "grumpy." The second point would be a lovable and kind character, and in this, too, the Pyrenees excels. His intense devotion includes the entire family and home and he will guard it carefully and devoutly with a seriousness that characterizes the breed in work and play. The Great Pyrenees loves children and will tolerate anything from them, entering into the play whole-heartedly and striving always to please by mere romping or by pulling a sled, or swimming, or riding.

Thirdly, mankind wants a dog of keen and almost super intelligence, both from the standpoint of training and intuition. Here again the Great Pyrenees is a master. Whether or not his years of intimate association with mankind on the lonely slopes of the Pyrenees Mountains have endowed the breed with its almost uncanny understanding of man and his ways, it is certainly true that this grand breed seems to anticipate and dote on its master's every whim and wish and fits into the scheme admirably.

The Great Pyrenees is at once tractable and yet possesses a mind of his own which gives him a strength of character and individuality missing in those breeds which seem incapable of thinking for themselves and of getting out and doing things and having experiences on their own! He is naturally clean and easily trained in the house.

Fourthly, Man wants his companion to be both beauti-



THE Great Pyrenees is known for his intense devotion to children. He will play whole-heartedly with them. Here is the seven-months-old puppy, Côte de Neige Roland with one of the young Butchers

MART



A quick review of the characteristics of a giant dog which, comparatively new in this country, is destined for great popularity

ful to look at and an ornament for his home, admired by his friends and yet impressive enough to command respect from the would-be intruder. The Great Pyrenees is claimed by many to be the most beautiful dog in the world. His size and poise stand him in good stead when it comes to commanding respect, and his deep bark, when uttered for a purpose, leaves no doubt of his warning that all is not well about his home.

The Great Pyrenees is a philosopher at heart and a hero worshipper without being a "musher". He is a lithe, active fellow, remarkably so for his size. In this respect he surpasses his other long-haired relations. He is naturally clean in his habits, and easily kept in condition and tidy in appearance because of the coarse texture of his coat. He is placid and quiet in the house. He is an affectionate great fellow and, above all, is a perfectly natural and unspoiled ancient pure-bred breed exhibiting no artificiality and requiring none to make him fit for his place in the dog régime. He is hardy in the coldest climates, and while self-reliant and capable of caring for himself, is never so happy as when living in the closest intimacy with his master and his master's family.

To understand the personality of the Great Pyrenees, one must glance back through the ages and see the effect produced by environment and occupation. A mountain-dwelling breed of the Mastiff race originating in Asia Minor in the centuries before Christ, the Great Pyrenees migrated into Europe, probably in two sections. The first, coming by sea with the Phoenician traders to Spain, settled high up on the Spanish side of the Pyrenees; the second, crossing Europe with the Aryan hordes, came into the French Pyrenees and in these adjoining areas re-united with the first.

Being a race indigenous to a mountainous country, we find those traits which one would expect with such a background—a ruggedness enhanced by a double weather-resistant coat; a steadfastness of purpose and seriousness bred from constant use and reliability as the all important guardian of valua-



THE Great Pyrenees make grand companions. Among other things, they are tractable and easily adapt themselves to whatever their surroundings may be. Here is Mrs. Frank Butcher with five of her dogs

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DOG MART

(Continued from page 21)

ble flocks from the attacks of predatory animals and thieves; a dreamy, peaceful nature, the heritage of those who live in solitude in high places, resulting in that far-away look in the eyes so elusively called "The Pyrenean expression," and so characteristic of the breed. We find, too, a majesty of bearing becoming to the respected, beloved and important adjunct of every shepherd; and a depth of devotion possible only to those who must live intimately alone with another.

Physically, the breed is characterized by the presence of double dewclaws on the hind legs and a toeing out of the back feet due to the nature of their task of roaming up and down steep mountain slopes. The head is wedge-shaped and resembles that of the dogs' ancient foe, the bear, with firm eyelids and lips. The neck ruff is lion-like; the outer coat long and extremely heavy in winter. The shuffling, pacing gait is again characteristic of the breed and was developed to make faster going easier over the long expanses which had to be covered in a day's reconnoitering. The eye is dark and kindly, slanting slightly in Oriental fashion with an engaging oblique line made by the meeting of the hair of the lower and upper face at the eye. The color is chiefly white with badger markings allowed on the head and lightly in spots



WITHIN the past few years the Great Pyrenees has become increasing-
ly popular with the dog show fancy. In this photograph Mrs. Francis
V. Crane is shown with a group of new importations and winners

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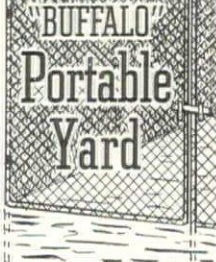
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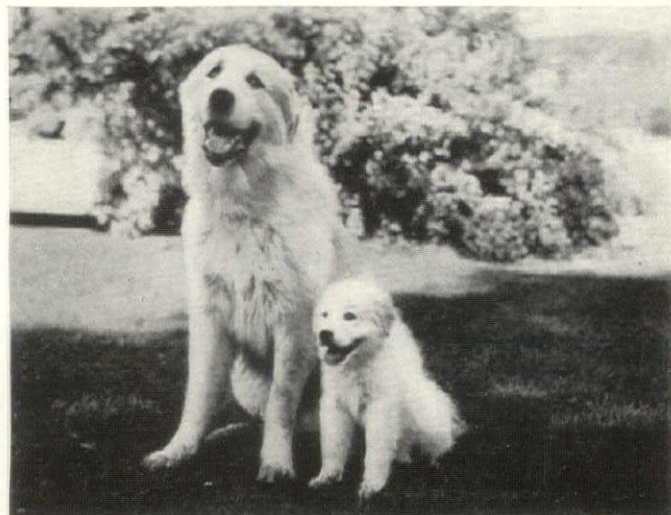
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EVEN in puppyhood, the Great Pyrenees feels perfectly at home with sheep, for behind him are centuries spent as a shepherd's dog in the mountainous regions of the Pyrenees. Mrs. Byrdie A. Faye

on the body. The height for the adult male should reach 30"-32" at the shoulder and his weight range from 120 to 140 pounds. The females are somewhat smaller.

Fortunately for the Pyrenees, his beauty and charm of character so endeared him to the royalty and nobility of France that we find him becoming the court dog at the time of Louis XVI and the accepted guardian of many of the famous châteaux in the years to follow. This association with the aristocracy imbued the breed with a wider understanding of



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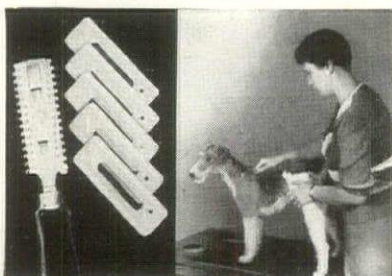
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GLOVER'S

DOG MART

(Continued from page 23)

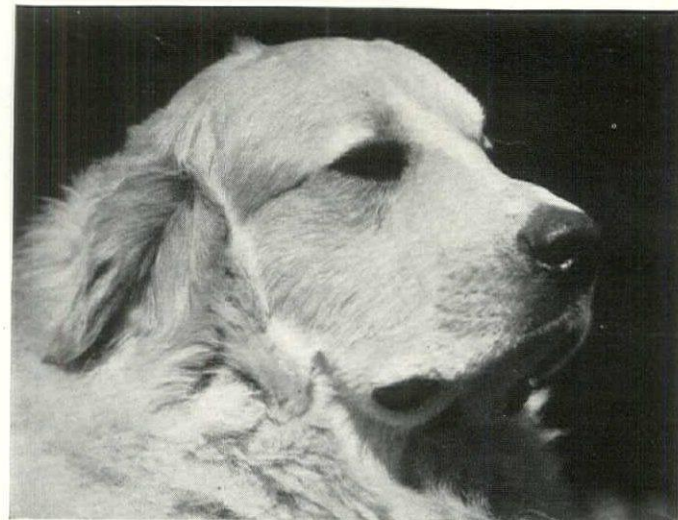
mankind and has left its mark in a very aristocratic bearing and perfect gentlemanliness.

But the breed was destined to play a rôle of helpfulness for his fellow canines as well as humans, and so we find him becoming one of the ancestors of the Newfoundland dog after he had been taken to Newfoundland by the Basque fisherfolk in the 17th Century.

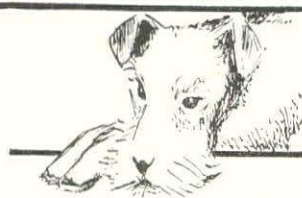
No story of the great dog of the Mountains would be complete without a word, at least, about the puppyhood stage, for it is in this stage that many of us first make our acquaintance with these dogs. As puppies, the Great Pyrenees are irresistible balls of white fluff, accented by beady dark eyes that combine mischief with understanding trust, benignity with adoration. They are all legs and knuckles and out of balance, as are all big breeds, during a certain stage in their development, but withal lovable clowns and adorable in every sense of the word.

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MARY W. CRANE



FLORIAN Van Buskara of Basquaerie typifies the ideal Pyrenean expression and has the kind of eye so much desired in the perfect Pyrenees. Photograph by courtesy of Mrs. Francis V. Crane



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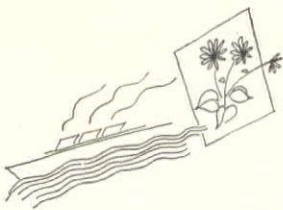
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ELBOW PILLOWS... the new V-shaped pillows (you snuggle your shoulder into the V, and sleep soundly and healthfully!) lists ten points of luxurious comfort, and mentions models in different materials. **ELBOW PILLOW PRODUCTS CO.**, DEPT. G-9, 745 FIFTH AVENUE, N. Y. C.

HOW TO GET YOUR BEAUTY SLEEP, by Sylvia of Hollywood, gives ten beauty-sleep hints, and pointers on how to make your bed "the most comfortable place on earth." **WAMSUTTA MILLS CORP.**, DEPT. G-9, NEW BEDFORD, MASS.

THE REASONS WHY of the Million Dollar Sleep makes you intimately acquainted with that often mysterious entity—the interior of a mattress. It shows the construction of a Slumbernest mattress, in lucid pictures—and answers all your questions about quality and comfort. **AMERICAN AUTO FELT CORP.**, DEPT. G-9, GRAND RAPIDS, MICH.

HOW TO SELECT A GAS RANGE lists the advantages of gas cooking—the points to look for, for better roasting, baking, broiling—and some facts about the new Glenwood range with dual-thrift burner and re-circulating oven heat. **GLENWOOD RANGE CO.**, DEPT. B, TAUNTON, MASS.

MELLO-CHIME offers a "perfectly toned musical chime to announce your guests"—replacing your harsh buzzer or bell, on your present doorbell current. It blithely suggests a double harmony for your front door, a baritone note for dinner service, and a tenor note at the rear door. At very reasonable prices. **MELLO-CHIME & SIGNAL CO.**, DEPT. G-9, 220 W. 42ND ST., N. Y. C.

Travel

CRUISES TO CHILE outlines 39-day all-expense tours that visit Panama, Colombia, Ecuador, Peru and Havana, en route. You'll want this folder for its details and illustrations—its complete cost information. **GRACE LINE**, DEPT. G-9, 628 FIFTH AVE., N. Y. C.

SOUTH AMERICA BECKONS describes a perfect 18-day vacation—"adventure de luxe"—with scenes ashore and aboardship. It gives sailing dates and rates of passage, notes on some South American tours, and general travel information. **MUNSON STEAMSHIP LINES**, DEPT. G-9, 67 WALL ST., N. Y. C.

SOUTH AMERICA gives you glimpses of the colorful East coast of our neighbor continent—its gay cosmopolitan centers—glamorous ports—vivid contrasts. And to these it adds scenes aboard the four fine Prince ships that ply between New York and the South American coast. **FURNES PRINCE LINE**, DEPT. G-9, 34 WHITEHALL ST., N. Y. C.

VISIT JAPAN pictures the sports and theatres of Japan—its sights and scenery. It posts you on coming attractions—the proper clothes to wear—the currency of the country—its travel facilities. It includes specimen tours, with costs. **JAPAN TOURIST BUREAU**, DEPT. G-9, 551 FIFTH AVE., N. Y. C.

TRAVEL IN SOUTH AFRICA offers the infinitely varied fascination of trips to cosmopolitan cities, native Zululand kraals and the scenic wonders of Victoria Falls. This booklet outlines 26 different South African Tours, gives their cost, and a story of the places to see. **SOUTH AFRICAN RAILWAYS & HARBOURS**, DEPT. G-9, 250 PARK AVENUE, NEW YORK CITY.

THE AMERICAN TRAVELER IN EUROPE suggests itineraries, estimates costs, and shows how to save much time for pleasure by making reservations for steamship bookings, airway tickets and such details in advance. **AMERICAN EXPRESS CO.**, DEPT. G-9, 65 BROADWAY, NEW YORK CITY.

Gardening

SCHLING'S BULBS gives first place to Red Emperor, "king of all the Tulips". It includes a very complete listing of Tulips of all types—both new and familiar varieties—and the Narcissi, Hyacinths, Lilies and bulbs of all sorts for fall planting. **MAX SCHLING SEEDSMEN, INC.**, DEPT. G-9, 618 MADISON AVE., N. Y. C.

THE FOUR SEASONS is a booklet published quarterly to provide authentic, timely planting information, and to help—with articles and fine illustrations—in planning and maintaining a lovely home landscape. **TOWSON NURSERIES, INC.**, DEPT. G-9, TOWSON, MD.

Dogs and Pets

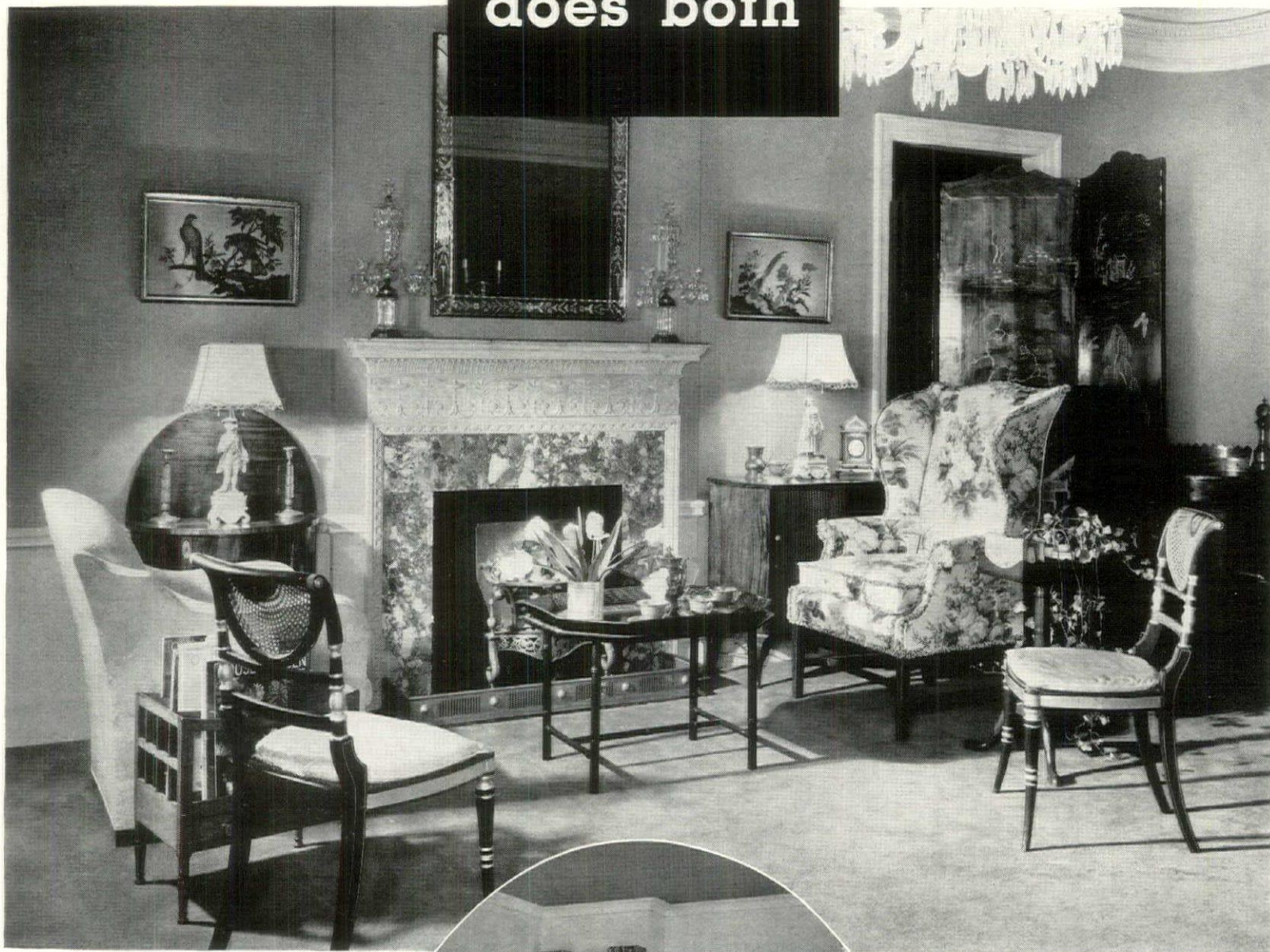
ENGLISH SUPER SADDLERY is a very complete 80 page catalog of the fine imported equipment for which English craftsmen are famous. It also lists racing goods, stable supplies, medicines—even books for horsemen. Booklet No. 114, **THE "LITTLE JOE" WIESEN-FELD CO.**, DEPT. G-9, 112 W. NORTH AVE., BALTIMORE, MD.

DOGS, Cats and Foxes. Their Treatment and Care. With its abundance of helpful information, this booklet includes a quickly-used reference chart for diseases of dogs and cats and for their treatment. **DR. L. D. LEGEAR MEDICINE CO.**, DEPT. G-9, ST. LOUIS, MO.

MODERN DOG FEEDING and Puppy Care is a compact little guide-book of do's and don'ts that will help even a beginner with a very first puppy to train and care for it ably. It includes a list of Miller's dog foods. **BATTLE CREEK DOG FOOD CO.**, DEPT. G-9, BATTLE CREEK, MICHIGAN.

(Continued on page 84)

Sloane does both



LIVING ROOM with collectors' pieces. (Above) Sloane decorators are now ready to help you with new Fall decorating ideas . . . and in the Four Centuries Shop there are many new "finds" to add to your collection. Among them are the antiques illustrated. Pair of decorated side chairs, \$145 each. Canterbury, \$95. Sheraton card table, \$150. Lacquer tray on modern base, \$140. Wing chair in chintz, \$350. Venetian mirror, \$550. Crystal lustres, pair, \$375. *Third Floor*



BUDGET ROOM with reproductions. You will find a new series of charming "small-cost" rooms in the Budget Shop. Sloane made the furniture and planned the decoration for those who want quality and good taste in full measure. Mahogany pieces illustrated: Side chair, \$37.50. Sofa table, \$87.50. Easy chair, in muslin, \$69.50. Secretary, \$165. Plant stands, each, \$22.50. Hepplewhite shield-back chairs, in muslin, \$39.50 each. Coffee table, \$32.50. *Second Floor*

September

HOUSE & GARDEN

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Cover design by David Payne

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AND IN OCTOBER - A DOUBLE NUMBER

• Another exciting Double Number of HOUSE & GARDEN appears next month. Highlights of the first section are: Previews of new fabrics, new wallpapers, new decorative schemes in full color; plans for the 1938 Ideal House; what's new in furniture; how to place pianos properly; trees for Autumn planting; and an authoritative article on small houses.

The second section is devoted to a manual for the bride, and will contain the latest information on the decoration of houses and apartments here and abroad. In this comprehensive survey you will also find the tops in furnishings and home equipment, heart-warming gift suggestions, gleaming linen and shining silver—in short, everything from practical gadgets to fascinating luxuries. The October Double Number will be invaluable to all who enjoy the finer things in living.

VOLUME LXXII, NUMBER THREE. TITLE HOUSE & GARDEN REGISTERED IN U. S. PATENT OFFICE, PUBLISHED MONTHLY BY THE CONDÉ NAST PUBLICATIONS, INC., GREENWICH, CONN. CONDÉ NAST, PRESIDENT; FRANCIS L. WURZBURG, VICE-PRESIDENT; W. E. BECKERLE, TREASURER; M. E. MOORE, SECRETARY; FRANK F. SOULE, BUSINESS MANAGER. EXECUTIVE AND PUBLISHING OFFICES, GREENWICH, CONN. EDITORIAL OFFICE, GRAYBAR BLDG., LEXINGTON AT 43RD, NEW YORK, N. Y. EUROPEAN OFFICES, 1 NEW BOND STREET, LONDON, W. 1; 65 AVENUE DES CHAMPS-ÉLYSÉES, PARIS. PRINTED IN THE U. S. A. BY THE CONDÉ NAST PRESS. SUBSCRIPTIONS, \$3.00 A YEAR IN THE UNITED STATES, CANADA, PORTO RICO, HAWAII AND THE PHILIPPINES; \$4.50 IN ALL OTHER FOREIGN COUNTRIES. SINGLE COPIES COST 35 CENTS

Richardson Wright, Editor - Robert Stell Lemmon, Managing Editor
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Patterns

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Please send me free information on Towle Sterling, especially on _____ patterns.
I enclose 10 cents for copy of "How to Plan Your Wedding."

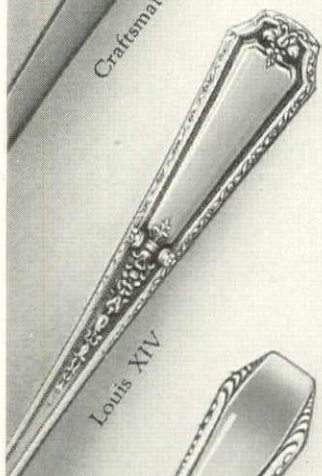
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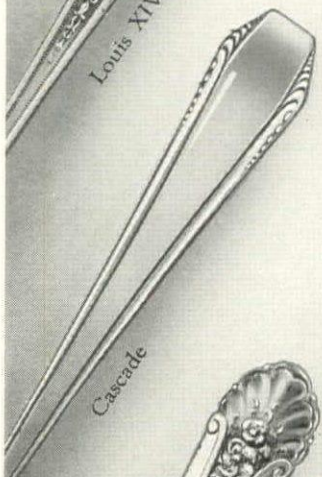
Candlelight



Craftsman



Louis XIV



Cascade



Royal Windsor

THE BULLETIN BOARD



READY FOR SCHOOL. Brooding mothers who are now fluttering over their offspring and rushing hectically to equip young gentlemen for boarding school may sigh for the good old days when they learn what a lad took to a New England boarding school in 1737. Apart from the fact that he must be able to read and write well, he had further to be equipped with bed, mattress, blankets, one pair of sheets, six towels, six napkins, one silver spoon value 10 shillings, a fork and a pewter porringer. But why only one pair of sheets? What did the boy sleep between every other week?

CAPE COD GARDENER. At West Chatham (accent on the last syllable, please) we fell in with what appeared to be a seafaring man. At least he wore a captain's cap and was addressed politely as is due one who has been master of a vessel. He was gardening. He referred to perennials as "hearty" plants, which is much more colorful than "hardy", and in declaiming over an especially fine bed of Canterbury Bells he remarked, "Ain't they excitable!" He also told us that he has good luck with English "Ivory". It was after an hour or so of talk on flowers that he confessed he'd rather be a gardener, if he had his life to live over again, than a ship's captain.

CIDER. Pretty soon cider will be icumen in and those who love this tippable can be happy again. Besides making one feel truly rural when he drinks it, cider should make him feel Early American. It is one of our oldest drinks. Every farm in the northern colonies had its cider mill. Cider was commonly drunk three times a day at table, and it was drawn and put on the table by the youngest member of the family or the one who rose latest in the morning. It was also carried to the fields for the laborers, who demanded their cider, saying that water disagreed with them.



SECTARIAN GRAVEYARD. Until quite recently the heel of Cape Cod could boast the most sectarian graveyard in New England. It was divided into sections by alleys of tall trees and each section was plainly marked: "Congregational", "Methodist", "Episcopalian", and so on. Presumably it was bad taste for Episcopalian to stray into the Methodist fold, and vice versa. Then along came big broad-minded people who thought these distinctions were too intolerant, and the signs came down. They were probably the same people who allowed the Cape to become littered with signboards and hot-dog stands. Now St. Peter won't be able to know a Congregationalist from a Baptist.

COVERS. Our first cover this month was painted by David Payne. It is the reception room in the office of Frank Moffat, New York decorator. The focal point is provided by an original Adam mantel in white and green marble, topped by a plaster drapery hung on a gold bar. Two pictures, one a Chinese painting on glass and the other an Empire portrait, hang beside the mantel, and on it are pyramids in spirals of blue glass.

The second cover is a prophecy of things to come. William I. Hamby, who designed it, took the elevations of the four prize-winning houses of House & Garden's Architectural Competition and from them sketched four little perspectives, giving you a bird's-eye view of the actual houses shown inside.

PSALMS AND ORCHIDS. Our wreath this month is laid to the memory of James Bateman, Esq., of Kuypersley Hall, Cheshire, ardent lover of Orchids. We honor him not only because he wrote learnedly on the Orchids of Mexico and Guatemala, a work to which Cruikshank contributed numerous sketches, or because he was honored as one of the great gentlemen botanists of his time (1811-1897), but because he was exposed (and it took) to the lure of Orchids at an early age. While a gentleman-commoner at Magdalen College, Oxford, he was required to write out half the book of Psalms because he had absented himself beyond the prescribed period. He had been detained at a local nursery in the purchase of an Orchid. How much of the Psalms he retained we do not know, but history does record that this particular plant was the beginning of the fine collection of Orchids formed by him at Kuypersley Hall.



ROSA MUTABILIS. Looking over some old notes made in Geneva years back, we find the record of a conversation with Henri Correvon, the granddaddy of alpine gardening, who told us of a wonderful Turkish Rose. In the morning it is yellow, at noon pink, and by nightfall red. He called it *Rosa mutabilis*, and said it was found on Isola Bella on Lago Maggiore in Italy. Does any one know about that Rose?

AUTHORS IN SUMMER. June Platt, who writes those tempting recipes, has been cooking and studying at the Cordon Bleu in Paris this Summer and we expect her back soon in House & Garden with more notions to make the mouth water. . . . Mrs. Wilder has been plant hunting in the Pine Barrens of lower New Jersey. From this district, it will be remembered, those magnificent Whitesbog Blueberries originally hailed. . . . Quite a number of the architects who contributed houses to our pages have been down to Williamsburg and fallen under the spell of the red brick used there so commendably. We wouldn't be surprised if we were in for a revival of red brick.



DEFINITION. Lest you should go through life without learning it, we hasten to inform you that the word "landscape" was borrowed from the Dutch and meant the appearance of the land when represented in a picture. It didn't take gardeners very long to make pictures out of their land. So a landscape architect is, in the truest sense of the word, an artist who paints pictures with living trees, shrubs and flowers.

STERN JUDGES. In the judging of its Architectural Competition (see the second section for the prize-winners and runners-up), House & Garden was especially fortunate to gain the assistance of a perfectionist jury: Harrie T. Lindeberg of New York, David Adler of Chicago (what more brilliant designers of houses are practising today?), Allmon Fordyce, who has set on the right path the feet of many a student at Yale School of Architecture, and Edgar Williams, who acted as referee and advisor and at no time was required to separate the combatants.

After all, it is a tough job to judge 185 entries in an architectural competition. Little wonder that the work took two full days. Twice were the jurymen solemnly marched to lunch, and not until the end of the second did any of them even so much as hint that he needed a mint julep.

House & Garden is deeply indebted to these gentlemen for their services and also appreciates the engulfing flood of entries.



The dramatic tower of the United States pavilion on the left bank of the Seine sweeps skyward from its massive base

By Richardson Wright

THE PARIS INTERNATIONAL EXPOSITION



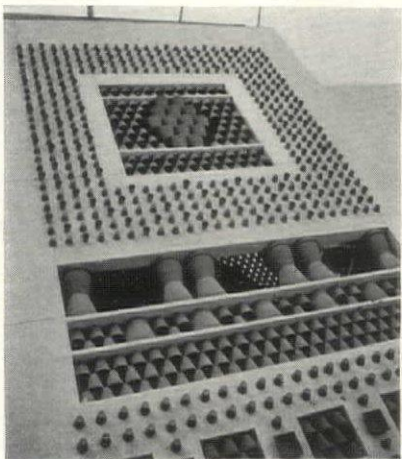
Janniot bas relief—Museum of Modern Art



St. Gobain pavilion, entirely of glass



Red geraniums in the Roumanian pavilion



Pavillon de la Céramique—yes, flower pots

THE buildings of the Paris International Exposition now emerging from scaffolds on the banks of the Seine, in the Trocadéro and in the Champs de Mars, while designed to show arts and techniques of modern living, offer only a few ideas applicable to American home architecture of the future. Furniture suggestions are equally limited. However, the gardens spread around the palaces and pavilions do constructively indicate a change in taste.

In architecture, reflecting as it does the mood of society, the tendency today is definitely nationalistic. With the United States now concentrating its interest on early American and Georgian houses, the extreme modernism of exposition architecture or even the authentic houses of the French provinces and colonies cannot be expected to furnish inspiration except in rare instances. The richer exterior colors are applicable to Florida and California building but the fantastic forms are scarcely suitable to Middle West or North Atlantic environments.

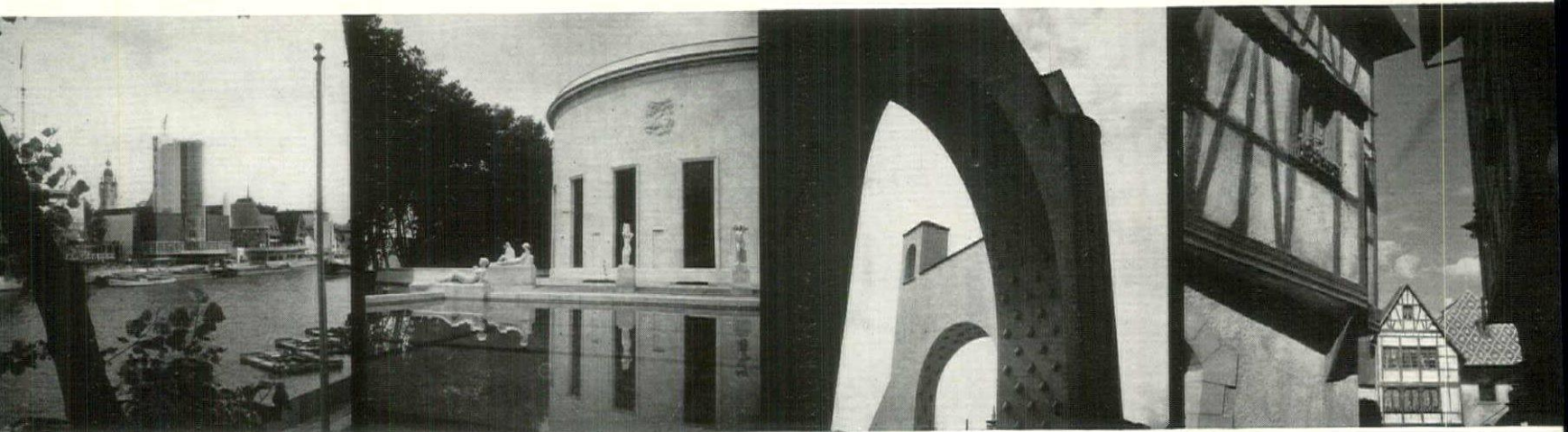
There are great quantities of structural glass, both opaque and clear, entire buildings being constructed of it. Whole walls of photomurals, which are hardly news any longer, offer a contrast to glass or plain plaster walls. Unless one is an unquestioning modernist one looks in vain for grace in exterior design and hungers for less bold or barren interior backgrounds.

There is little indication that this exposition will have any pronounced influence on furnishings since it is not devoted solely to decorative arts as was the exposition of a decade ago. However, as I cable this, the Palais des Artistes Décorateurs, where furniture will be shown, has not been completed.

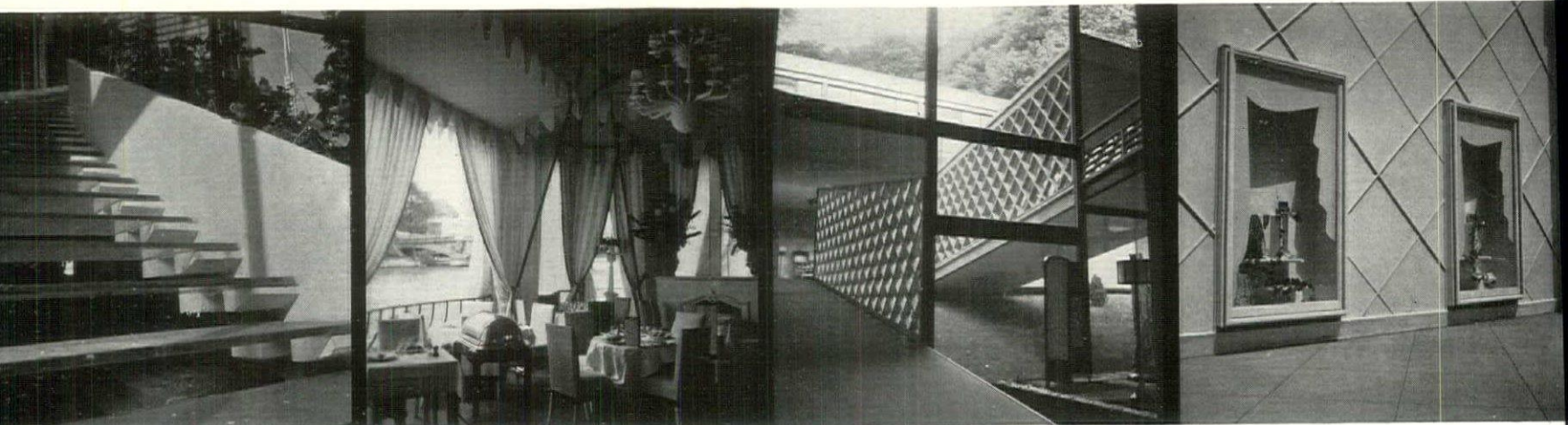
Modern French furniture design seems to have exhausted its possibilities and its good features have already been incorporated into American productions. There is an evident revival of appreciation of possibilities in wood. The Germans are displaying some excellent marquetry and Poland presents native modern rooms with raw wood walls and furniture. Japan, confused in its attempt to go modern, offers an Oriental crossbreed of 1924 German patterns embellished with 1900 French floral motifs.

In short, architecture and decoration seem to me to furnish few future tendencies and desirable trends for practical application except in mechanics for the home in which the United States leads the world.

New garden ideas are refreshing in this Looking-Glass world of glass bricks and photomurals. Modern buildings require formal geometric garden environments. Old style herbaceous borders and informal plantings offer too violent a contrast. (Continued on page 72)



The United States pavilion across the Seine Classic yet modern—Museum of Modern Art Shell-studded entrance arch—Quai de Passy In the Parc d'Attraction, Alsatian village



Steps of thick glass—St. Gobain pavilion Interior of Argentine restaurant "Pampa" Ramps replace stairs—Japanese pavilion Magasins du Louvre pavilion display windows



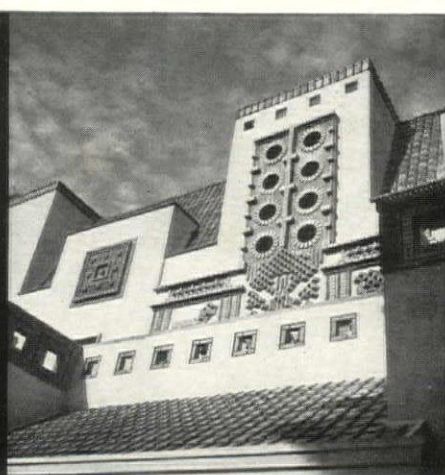
Fountain in court of the Italian pavilion The gardens of the Roumanian pavilion Red geraniums, red pots—Roumanian pavilion The British pavilion gardens on the Seine



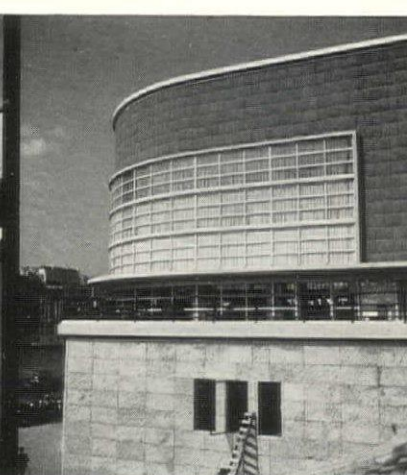
Czecho-Slovakia's opaque glass pavilion



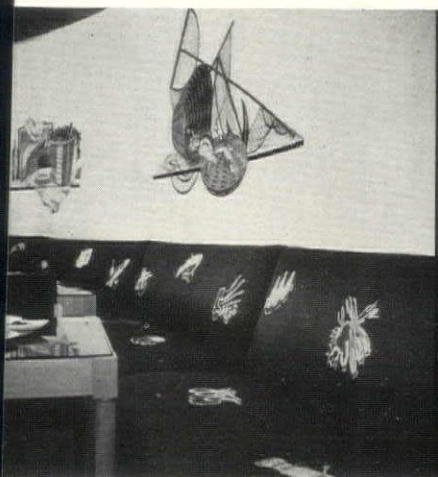
Copper-framed gate—Convegues sculpture



Bricks and tiles—Pavillon de la Céramique



Ship-shape end of the Belgian pavilion



The British pavilion restaurant, the Buttery



Glass and white-and-gold metal furniture



The bar of the Pampa—décor by Bérard



Polish pavilion passage with modern roof



Miniature rock garden—Norwegian pavilion



Flowers and fountains—Italian pavilion



The winter garden in the Belgian pavilion



Hortensias and shrubs—the Sèvres pavilion

CAMERA NOTES OF THE PARIS EXPOSITION



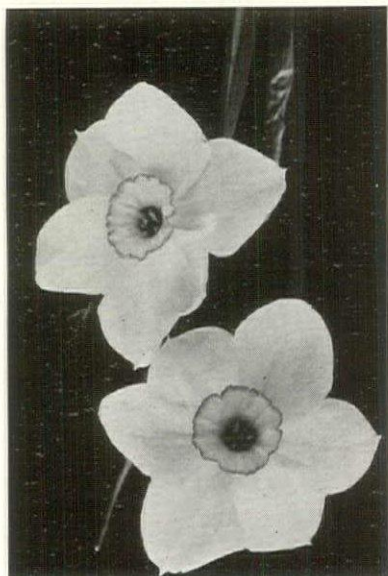
VERA A. BENNETT

UPPER TWO, NISSA; MIDDLE THREE, GRACIOUS; LOWER THREE, GOOD MORNING

White Daffodils

By Florence Edna Foote

MYSTIC, A SHORT-CROWNED LEEDSII



MEN are generally supposed to be partial to strong basic colors—perhaps red being their first love, then the bright, striking shades of blue and yellow. Such colors naturally associate themselves with qualities of strength and manly vigor!

But, let that gentleman be a man of nice taste and let him be a lover of Daffodils who gardens with his own hands and, sooner or later, he will leave the reds and yellows and fall under the magical spell of the lovely white Daffodils. And that is quite natural, too, for white has the strongness of all colors combined—the strength of the diamond, of the clouds in the heavens, of light itself.

Men produced the marvellous white Daffodils which we have to-day, and it was not an easy thing to do. More than fifty years of thoughtful, careful work and patient waiting went into the development of these present-day varieties which have tall stiff stems and large flowers of glistening, lasting substance.

Most of the wild Daffodils die out under cultivation; crossing or

hybridizing is the only way their lovely essence can be preserved. The hybridizer had to begin with the wild species of *Narcissus* which grew untamed in mountainous Spain, Portugal and the Mediterranean countries. These wild forms had short-stemmed, thin-petalled blossoms, weak in flower but strong in vigorous constitution. They are lovely in the woods and hillsides where they make a solid mass of color as they sweep up the sides of the mountains and down into the green valleys! Have you seen them like this in Switzerland?

The Poeticus varieties of the Mediterranean countries had longer stems and thicker white petals, with very short cups and a bit of greenish-yellow or a red ribbon about the edge of the cup. The hybridizer began with crossing these wild pale yellow and white Daffodils with pollen from the Poeticus varieties and the resulting seedlings gave intermediate forms with shorter cups which are today called *Incomparabilis*, *Barrii* (after Peter Barr) and *Leedsii* (after Edward Leeds). *Leedsii* is a name given only to white forms of *Incomparabilis* with primrose or white cups. Since their first public appearance in 1913, the pinkish, buff and chamois-colored cups have been included in this *Leedsii* group.

Many of the Giant or large-flowered *Leedsii* have such long crowns that it is very difficult to distinguish them from the Trumpet Daffodils. But, if a petal is folded up against the long crown or cup and the cup is not as long as the petal, then it is a *Leedsii*; but if the trumpet is as long or longer than the petal, then it is called a Trumpet Daffodil.

Among these long-crowned *Leedsii* we have such lovely flowers as *Mitylene*, *Gracious*, *Tenedos* and *Marmora*, all tested and acclimatized in this country. Nothing could be lovelier than a vase of *Mitylene* or *Marmora*. *Gracious* has every good quality, for gardens or show table. *Suda* is a rich creamy primrose in my own garden and a grand variety. In England and Ireland, where they have more moisture, *Suda* has a very delicate pink crown, but most seasons it shows no pink in my garden. *Riva* and *Tunis* are grand flowers, each (Continued on page 87)

NARCISSUS MOSCHATUS



MITYLENE, A PRIMROSE-CREAM



EASTER MORN, A LEEDSII WITH PINK-TONED CUP



SHORT-CROWNED LEEDSII, SILVER SALVER



TRENDS IN ROSES

By Dr. J. H. Nicolas

FLORIBUNDA is a Latin word which means abundance of flowers. It is the descriptive name of a new class of Roses—the Roses of the future.

The Rose is preeminently a garden flower, and this new group brings it more closely to the perennial status in garden decoration, permanence, continuity of bloom and ease of culture. It is a group, not a strain, because the varieties included in it are derived from various arctic sources. Arctic is a new word in Rose parlance, more specific than the much-abused "hardy".

The group is especially bred for mass or border planting and general garden ornamentation. The habit of growth is similar to Hybrid Teas, medium height. Because of their arctic characteristics, Floribunda Roses are more permanent and bloom continuously in numerous clusters. The flowers are fairly large, from single to very double, and include the entire range of colors known in Roses. A distinctive feature is the long-lasting quality of the blooms in all weather, even the hottest sun which wilts Hybrid Teas so quickly. They are very useful as cut flowers for house decoration where they make handsome bouquets and center pieces of long duration, sparkling under electric lights.

These Roses produce their best effect in the garden when planted closely, 14" or 15" apart, in large groups or masses of one color. Used thus, they will virtually blanket the ground and the foliage and stems will be almost hidden by the blooms.

Floribunda Roses are not altogether new. Hybridizers have been developing them for several years past but they were formerly included among the Hybrid Teas and Hybrid Polyanthas. Some are reminiscent of the Hybrid Tea for the finish of their blooms but are different because of hardiness and floribundity. The name Hybrid Polyantha is misapplied because none of them are typical of the "baby Rambler".

It is only now that they have been segregated under a special classification. Previous introductions now included in that class are:

Anne Poulsen, scarlet crimson; Carillon, coral flame; Else Poulsen, pink; Fluffy Ruffles, pink; Gruss an Aachen, light pink; Hermosa, pink; Hofgartner Kalb, pink; Improved Lafayette, red; Kluis Scarlet, red; Lafayette, deep pink; Mrs. R. M. Finch, flesh pink; Permanent Wave, two tone cerise and pink; Pink Gruss an Aachen, pink; Rochester, pearl and yellow; Sunshine, orange.

Breeding in the Floribunda group is now the main line of endeavor of Rose hybridists throughout the world. The percentage of introductions of Floribunda varieties will be larger each year. Large gardens, public or private, where permanence and cost of maintenance are of great importance, may be planted entirely with Floribunda Roses. The effect would be spectacular as well as more continuous than with regular Hybrid Teas.

The new introductions for the season 1937-'38 total up to twenty-five varieties selected from the output of six countries. They are unusually superior and cover the entire range of Rose colors, no two alike. Of these, eight are of the Floribunda class:

Baby Chateau (Germany). Deep maroon, blooms medium size and very double. Plant of spreading habit.

Golden Main (Germany). Solid dandelion yellow, large and full. Plants rather tall growing, suitable for low hedge. I saw a round bed of Golden Main bordered with Carillon (coral flame) in the center of a garden where it was a spectacular "accent".

Pedralbes (Spain). The loveliest white of the group. Clusters of long pointed yellow buds opening into large semi-double fluffy blooms glistening white and perfumed.

Pink Charm (Germany). Flowers double, about 2½" across, luminous shell pink.

Ronsard (France). The petals are light yellow outside and scarlet inside. When the bud begins to unfurl and the petals curl back, the scarlet and the yellow make a great contrast. The open flower is medium large and double. orange scarlet changing to deep (Continued on page 94)



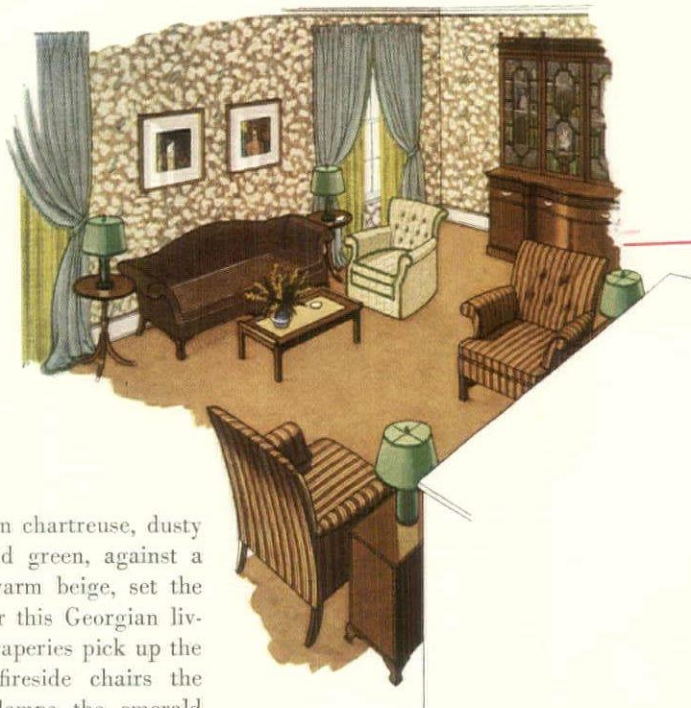


DAVID PAYNE

When Spring comes to Russell A. Pettengill's garden in the heart of mid-town New York it brings a breath of the real country. A ribbon of yellow Tulips around the central lawn, the white and pink of Dogwoods, the pastels of Azaleas—these are wholly pleasing against the soft tones of the dwelling and the little garden house. A demonstration of what good planning, thorough soil preparation and care can accomplish even in a great city.

GARDEN IN TOWN

Fall Coloring

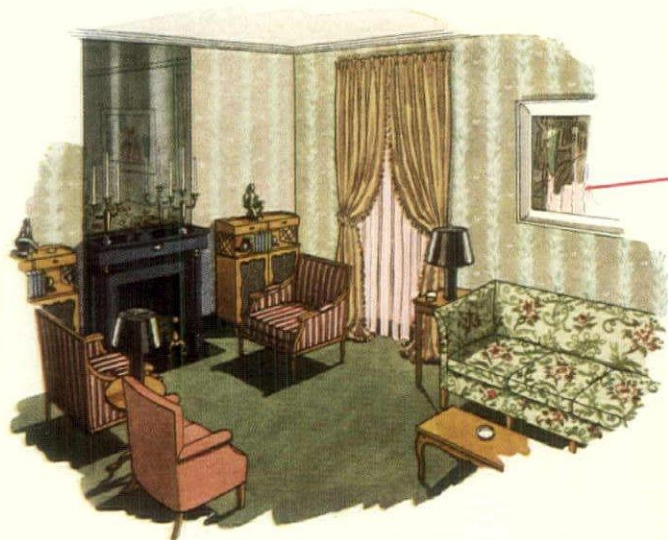


Song birds in chartreuse, dusty blue, emerald green, against a ground of warm beige, set the color key for this Georgian living room. Draperies pick up the pale blue, fireside chairs the chartreuse, lamps the emerald

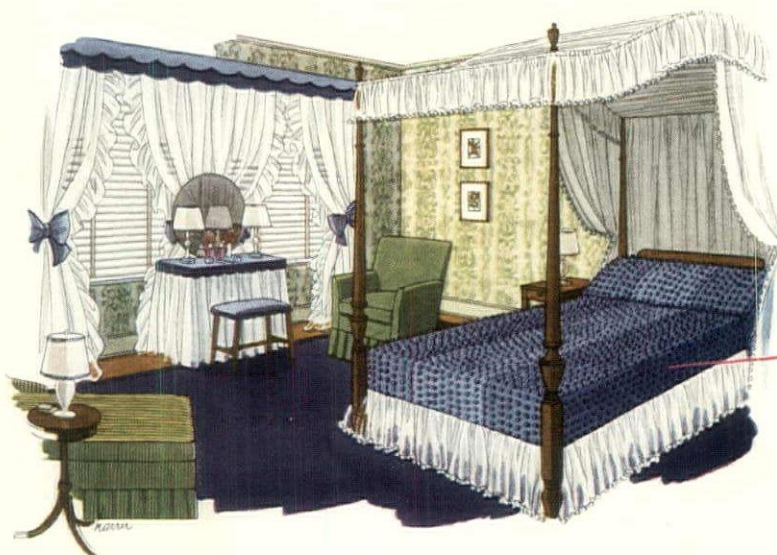
Four fresh schemes that show the many color possibilities in the Fall decorating picture



Contrast of color against dead white. Deep blue walls in a Georgian dining room, spiced with Baroque in the pure white plaster of cornice and mirror. Draperies are pale blue and the rug is clear aquamarine



For the small house, a French Provincial living room in amber walnut. The pinky-beige of the wallpaper is echoed in the sofa, gayly flowered in deep pinks; in the rose linen armchair; in twin armchairs, striped with burgundy



Maple bedroom, contemporary in its use of color. The jade green and blue of the wallpaper are repeated in bedspread, chaise longue and chair. Windows, bed and dressing table are draped with the same white net



FOR FURTHER INFORMATION SEE PAGE 70



ANTON BRUEHL PHOTO • CONDÉ NAST ENGRAVING

TABLE SETTING BY BELLO, INC.

SET FOR SIMPLICITY

Platinum gray and eggplant, with accents of white and crystal, against a background blue as September's skies

SET a special table for special people! Given four delightful conversationalists, and superb food exquisitely cooked, the setting opposite is the final touch to lift a simple luncheon into the top flight of esthetic enjoyment.

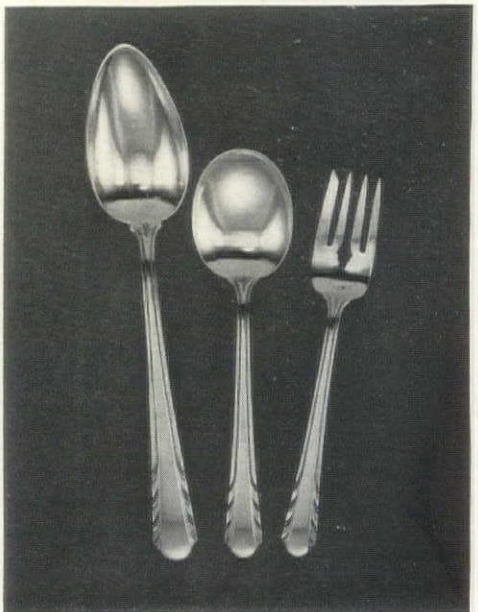
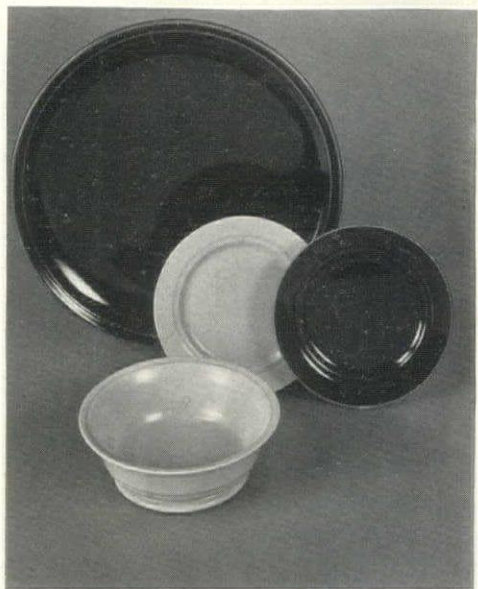
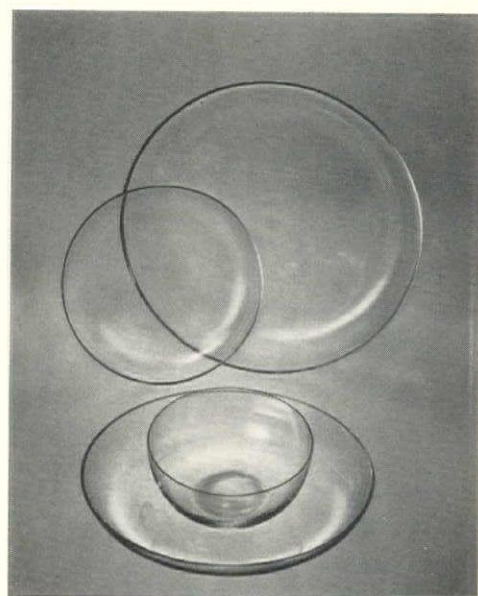
Modern painters teach us that what is left out of a picture is just as important as what is put in. Here, then, the colors are limited to three or four, the china and glassware is noted for its texture and form rather than for its ornament, and the whole effect sings with audacious simplicity.

The dominant color is in the blue cloth and napkins. Called "Bernina", they have a fine damask-like criss-cross pattern, and may be seen at Mosse, Inc. The dark green leaves and spotted blossoms of *Lilium auratum* complement the graceful fish centerpiece and candlesticks, in white plaster. These and the cut crystal ash-trays and salt-and-pepper holders come from Carole Stupell. The mahogany chairs, with green leather seats, are shown by courtesy of Bello, Inc.

The glassware is Orrefors' "Baltic" pattern. Clean in line as a rolling sea-wave, its graceful curves are equally satisfying to eye and hand. Shown on the table are goblets for water and two wines. At top on this page are a bread-and-butter plate, a salad plate and, in foreground, a finger bowl on a dessert plate. All from Black, Starr & Frost-Gorham.

The china is Franciscan pottery called "Montecito", from Hammacher Schlemmer. Here is a new decorative note—two contrasting colors, eggplant and platinum gray, in the same pattern. Bouillon cups and service plates are shown on the table. On this page, center, are four more items: serving platter, two small plates and vegetable dish.

The silver is Alvin's sterling pattern "Maytime", from John Wanamaker, Inc. The delicate beaded and fluted ornament against a polished plain surface bespeaks the fine craftsmanship of the modern silversmiths. In addition to the luncheon service on the table, three other pieces are shown at right: serving spoon, soup spoon and salad fork.



ANDERSEN

Double Tulips

THE double-flowering Tulip is seemingly as Victorian in period as our great-grandmother's crinolines; in fact, the opulent spread and dignity of these flowers is strongly reminiscent of those prim if coquettish garments, worn in the days when ladies were ladies but were not above attracting the male eye by an ingenious (or ingenuous) flirt of their billowing skirts.

Today the double-flowering Tulip is not in fashion. One has to hunt about a good deal before one is able to make even a modest collection of them. There are early flowering kinds and late flowering kinds, and while Sir Daniel Hall in his comprehensive work *The Tulip* gives a short list of "earlyies", he has but one comment to make about the May-flowering doubles: "Better dead." Well, everyone to his own way of thinking, and now that I have got together a collection of doubles I know that I like them and I can think of a good many reasons why. [In an earlier article I devoted a good deal of space to a description of the early doubles, and lovely they are, so in the present article the "better deads", the May-flowering doubles, will be given their mete of appreciation.]

It is incomprehensible to me, as I look at my rows and groups of double Tulips, that they should never have been very popular. Sir Daniel Hall says a double Tulip was recorded in 1665. In Parkinson's *Paradissus*, though there are many illustrations of Tulips, none are double-flowered. And in that quaint little leather-bound book, *The Dutch Gardener or the Compleat Florist*, written by Henry van Oosten, the Leyden Gardener, who devotes a considerable portion of his small tome to an impassioned defense of the Tulip, he merely remarks in a passing way that "There are some which you may call double, because

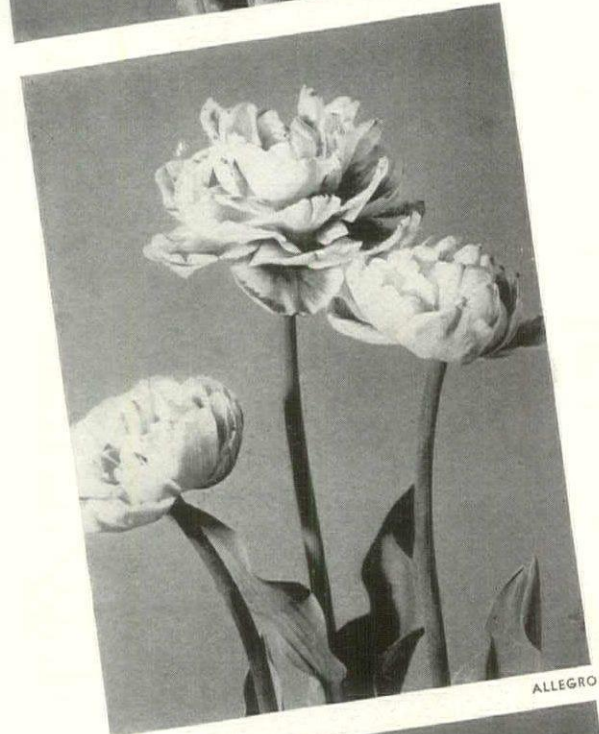
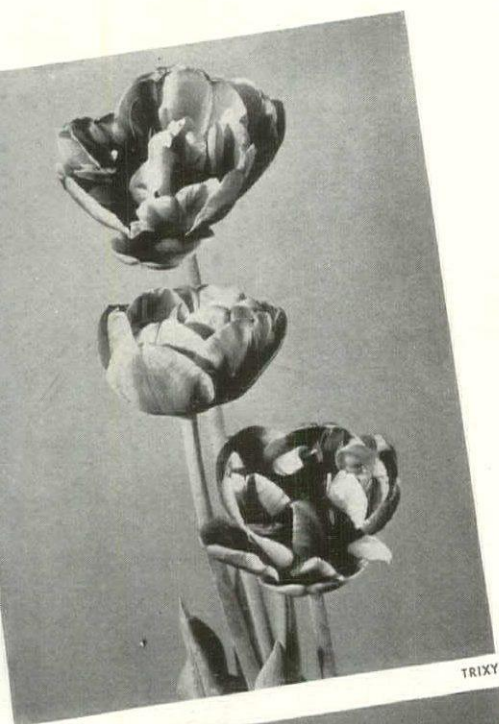
they have twenty or more leaves."

This book was written in the Dutch language in 1703. Nicholson in *The Dictionary of Gardening* gives a list of double-flowering Tulips which he calls early, but these are not all of the definitely early type. In fact, the May-flowering double Tulip is neither distinctly early nor late; it bridges the gap between the two very nicely. The old red and yellow Tournsol is a late early.

And now, though we cannot say they have become fashionable, it is only fair to say that the modern double has been as greatly improved as have its single sisters. It does not have the faults of the earlier varieties. The old-fashioned kind had a weak stem and a heavy head. It bowed before every blast and trailed its furbelows in the mud. Thus it was no use at all for bedding, nor yet good for picking. Unless one grew them along grass borders where the clean grass protected them from being soiled, there was no use in growing them at all.

The modern double is something altogether different. It has a stout stem, stout enough to resist the most tormenting gales, so that its bright, many-petaled flower looks straight at the sky and never nods.

They last longer in bloom than the single varieties, and despite the wrecking storms of last Spring, my double Tulips remained in good shape for several weeks. They also last longer as cut flowers, and for this purpose they are ideally patterned. A few in a jar make a splendid show and, if combined with Apple-blossoms, *Rhododendron carolinianum*, *Exochorda*, Lilacs, Bleeding-hearts, *Anchusa myosotidiflora*, or any flowers of the season—with an eye, of course, for harmonious color combination—some lovely associations may be made, of much more substance and splendor than with the single kinds. (Continued on page 85)





NYHOLM

THAT elegance has definitely returned to decoration is apparent in the George Angus Garrett house, Washington, D. C., shown above and on the following two pages. Decorated by Diane Tate and Marian Hall, these interiors are outstanding for their antique English furniture, striking wall treatments and fresh color effects. Above, in the living room, the decorative background is wall paper in a tan and green bamboo design broken at intervals by Chinese floral panels in shades of white on a green ground. Sofa is covered in green damask

Old English

**Three pages of Eighteenth Century rooms
from a distinguished house in Washington**

Many Shades of Blue



NYHOLM

ON THESE pages are the hall, drawing room and dining room in the Washington home of Mr. and Mrs. George Angus Garrett. All are decorated in different shades of blue. Above: the hall, with white walls, sapphire blue and white striped curtains and blue and white chair coverings

LEFT: the coloring of the living room was taken from the delicate blues and oyster whites of the Aubusson rug. Walls are pale blue, curtains white taffeta. Soft blue velvet covers the sofa; chairs are in white damask. The other furniture is mainly 18th Century English mahogany



ABOVE and right is the dining room in the Garrett house. Walls are deep Wedgwood blue, with woodwork and ornament painted white. This color makes a magnificent background for the old English furniture, crystal and china. Curtains, white damask

NOTE: The dining room, hall and drawing room open into each other and the contrast between the Wedgwood dining room and pale blue drawing room, separated by the dark blue and white hall, is an interesting study in the use of blue in decoration. Diane Tate and Marian Hall were the decorators



A KITCHEN GARDEN



PEAS · TOMATOES
WATERCRESS
GOOSEBERRIES
HERBS · ROSES
GRAPES · PEARS
PLUMS · APPLES
LETTUCE

In a dooryard garden such as this you can raise delectable specialties of many kinds with ease and convenience. By Mary Louise Coleman



RDENETTE

FOR THE Bridge Wife, the Business Woman, or the Hausfrau who desires all the luxuries of a generous vegetable garden in a condensed form, easily accessible to the kitchen door, here is an idea. May we present such a godsend carefully planned and skilfully executed on a plot of ground twenty by thirty feet, to give solace to the eye, zest to the pot, and especially ease to the joints?

Compact, complete and colorful, it is a restful spot, as efficient as the shiny kitchen which it serves. It is so small that in looking out over it through the kitchen window one gives a sigh of relief in thinking that there is only so much space to be kept in order, though the weeds wax fat in the long rows of Carrots for canning planted out beyond the wall. The cool green of the boundary border, the variety of shades of green of the herbs, the brilliance of ripening fruit in the sunlight and the gaiety of a few flowers extend the walls of the kitchen to tremendous proportions. It makes the kettle fairly sing in anticipation of spicy odors in cooking, the china and linen gleam with delight at the harmony of colors, the result of planting with intent for their especial benefit.

The focal point in the garden is the raised planting bed which extends the full width of the garden on the back boundary line. This tiny vegetable and herb bed, four feet wide and twenty feet long, is raised to the convenient height of a greenhouse bench, adjusted to the worker's height, like all good modern sinks and tubs, giving reason for no bending and little stretching. It is a solid bed, to retain the moisture, in reality two walls approximately 33" high, filled in with good soil. On the back wall there might be a fence of non-breakable glass, to permit the early morning "growing" sun to penetrate to the base of the plants.

Though one can bend and stoop with benefit and ease early in the morning over the long vegetable rows, that same exercise can be eliminated with comfort in the hour before dinner. It gives a feeling of great luxury to hesitate on the way from the hoed row to the

pot with an apronful of Peas to be shelled or Beans to be unstrung, to sit on a bench among fragrant Thyme, to leave the sand of the Spinach at the well instead of in the kitchen sink, to stop in the cool of the afternoon instead of spending that twenty minutes within four walls of a steaming kitchen (yes, kitchens do get warm on a summer's day in spite of the fact that some salesmen say superior cooking utensils of this day and age do not emit steam wastefully).

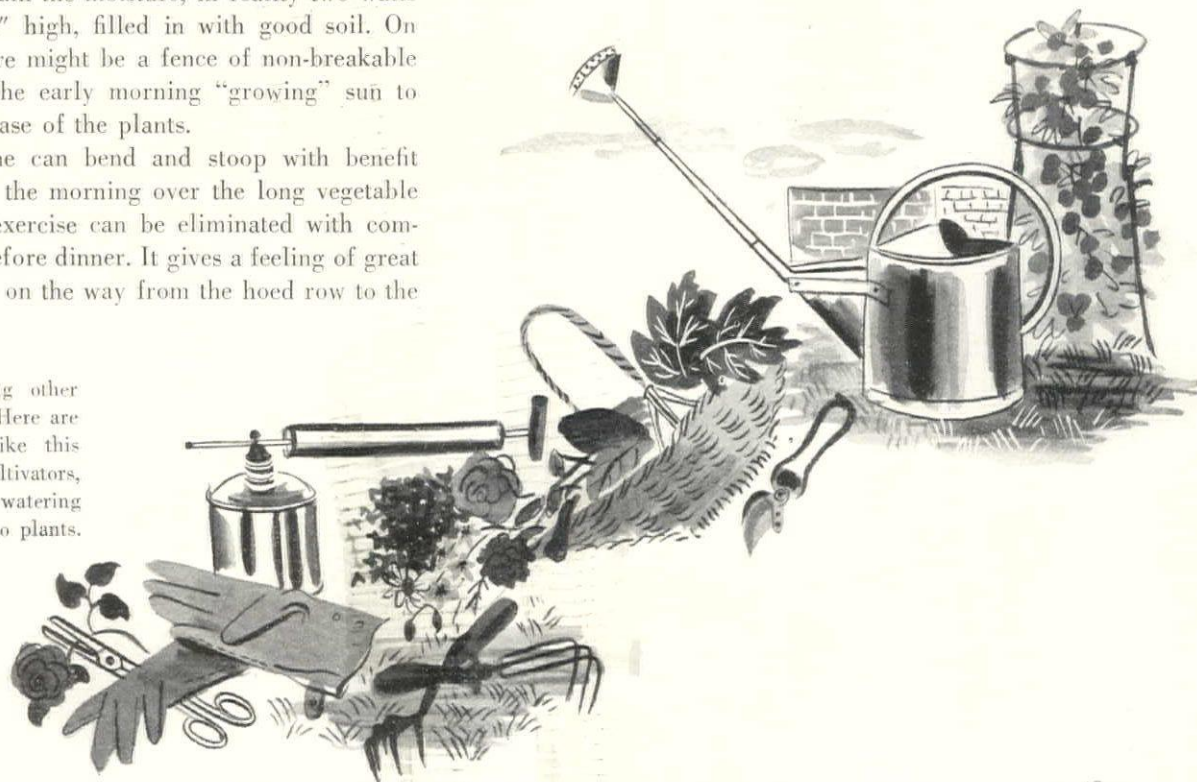
The flagstone paving is smoothly laid except in the proximity of the well where a few Mints grow in small patches between the stones, generously sprinkled as this fragrant herb should always be. Watercress, too, can be persuaded to grow in a sunken tub, if the water is renewed frequently.

The medieval stone-supported seats, made like those in the old English garden prints, support one dwarf Apple tree and one Plum tree, and they are planted with scented Myrtle, Camomile and Thyme. The table, long and narrow on top, is generous enough in proportion to hold incoming and outgoing baskets, assorted vegetables awaiting preparation, seed flats and heaps of cut flowers for arrangement in their vases. Underneath its top, which has an overhang wide enough to keep the knees from knocking and number nine shoes from being scuffed, is a commodious waterproof compartment for scissors, tools, gloves, oil of citronella, comfortable folding chairs and the inevitable broom and dust pan, green handles both, for esthetic reasons as well as for garden identification.

Time and energy are precious in those few minutes before dinner when the cream sauce would burn if one had to go far for those last minute somethings—and, safer, too, when one calls to the nearest guest to run into the garden and pick a few Chives, for the guest may not know the Chives from the precious Asphodels or the Iris seedlings. There is only sufficient material in this little garden to supply last minute wants, when the new Potatoes cry for their Parsley, the cream cheese yearns for its Chives, and the spring lamb fairly bleats for its mint.

(Continued on page 93)

A good gardener possesses, among other things, the right tools and gadgets. Here are the ones a kitchen gardenette like this should have: scissors, gloves, cultivators, sprayer, basket, pruning shears, watering can and a metal support for Tomato plants.



Series of Flower Prints

EDITOR'S NOTE:—In this issue we add four to the series of flower prints which, in the last year and a half, have become so popular an editorial feature of House & Garden. Indeed, so frequent have been our readers' requests for duplicate prints, or for prints especially printed for framing, that we have decided to reproduce the entire series in portfolio form, available October first. This series of twenty-five covers the Golden Age of the horticultural print, from the colored engravings of the mid-Seventeenth Century, to the lithographs of the mid-Nineteenth. Each interprets in miniature the decorative qualities of the period in which it was created, from Monnoyer's Baroque curves to the Victorian of Jerrard's "Serpent Vase". Few can resist their charm, as subjects for framing or as treasures for the library portfolio.

HOLLYHOCKS. Plate No. 17. Page 49. Little is known about John Edwards, 18th Century English flower artist. The dates of his birth and death are uncertain. We do know that he was a member of the Society of Artists in London and that he took part in all their exhibitions during the years 1763 to 1812. During this same period he exhibited at the Royal Academy. Prints by him, which are extremely rare, are noteworthy for their fine drawing and brilliant coloring. The print of Hollyhocks is dated 1788, and is from a work called "*A Collection of Flowers Drawn After Nature*". In 1770 he illustrated *The British Herbal*, a folio of 100 plates of exotic and British flowers.

CAROLINA PIGEON. Plate No. 18. Page 50. World famous for his masterly drawings of American birds, John James Audubon should also be remembered for his accurate and beautiful rendering of the shrubs, flowers and trees that serve as their habitat.

Born in Haiti in 1785, Audubon spent his childhood in France and later migrated to Pennsylvania. His greatest work, *Birds of America*, was published in England between 1826 and 1838, and it is from this book that the print shown here was taken. Turtle doves are shown against a flowering bush of *Stewartia malacodendron*, a lovely citizen of the deep woodlands from Virginia south to Florida.

FLOWERS FROM BULBS. Plate No. 19. Page 51. To most collectors of prints, Paul Louis Oudart is known as a painter of birds and other natural history subjects. Probably his best known work is *La Galerie des Oiseaux du Cabinet d'Histoire Naturelle du Jardin du Roi*, published in two volumes at Paris, 1820-26. To this he contributed 324 colored and 33 black-and-white lithographs. The text was by Viellat.

Born in Paris in 1796, in 1825 Oudart published the only work that is known to bear his name: *Cours d'Histoire Naturelle, contenant les principales espèces du règne animal, classées méthodiquement*, Paris, 1825.

SUMMER FLOWERS. Plate No. 20. Page 52. The artist of this flower print remains anonymous. We can, however, place it and the group from which it was chosen at the end of the 18th Century by noting the fact that the paper is water marked "J. Whatman, 1793 and 1794". The general style and approach of the prints would seem to bear out this date. They are typical of 18th Century English flower painting in coloring, composition and execution, which are all fine in quality. Still another indication that this group was painted by the same artist is the presence of exquisite butterflies in each one.





Carolina Parakeet, or Turtle Dove? Male 1. F. Z.
COLUMBA CAROLINENSIS.
Plant. Stenaria. Malacodendron.

Engraved, Printed & Coloured by D. Havell & Co. London.



- 1 *Magnolier acuminé.*
- 2 *Gaïra changeante*
- 3 *Glaïeul trompette.*
- 4 *Amoryllis igeantse.*
- 5 *Blakea a trois nervures.*

P. Oudart.



GLASS

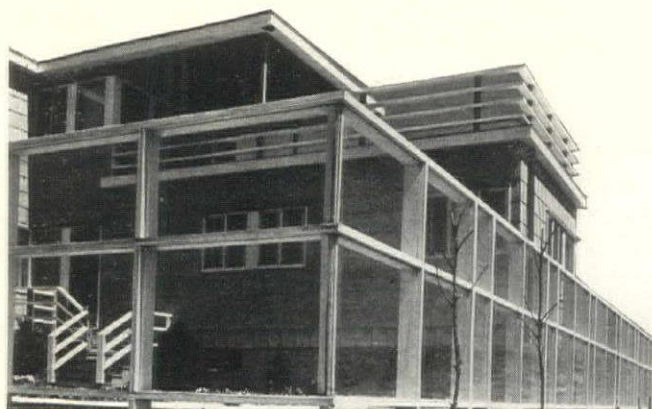
The structural and decorative uses of a brilliant and beautiful modern material

WITHOUT glass, in any form, a home would be a dull affair, indeed; not a fit place in which to live. Obviously. We want the light which glass admits, a view of what goes on outside the house, the bright reflections in our mirrors. Glass is the essential material in a building, the one we can't do without; but in saying this, we may make the mistake of taking this unique substance too much for granted, using it too tritely, exploring too little the qualities which have made it so important, with the result that our home, while not dull, is perhaps less lovely than it might easily be made to be.

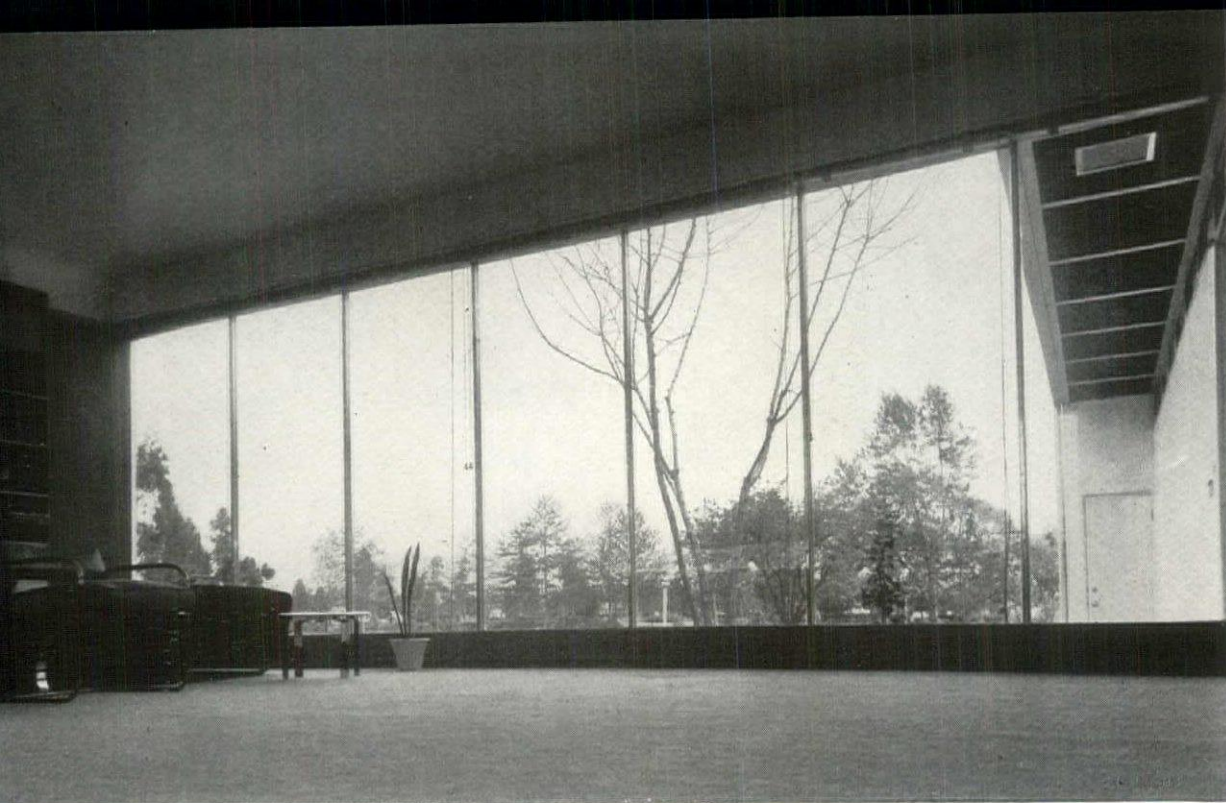
Glass, as used in architecture, has many forms and serves many functions. If we would use it to best advantage, we must know at least as much about it as we know about the glassware used in our dining rooms and kitchens. A close analogy exists. On sight, we recognize the crystal brilliance of lead-bearing glass when we see it in the form of a goblet. We know, without instruction, the valuable economy of the slightly duller glass of common use. And we know, perhaps by experience, that neither should be put in the oven, but that a special glass exists which can stand the strain of severe temperature changes. Similarly, in architectural glass, the various types and forms are specifically adapted to certain requirements, each having its own applications and limitations, many of them suggesting interesting opportunities concerning which the home owner, or prospective builder, should inform himself.

This article, therefore, is essentially a review of the types and forms of glass adapted to residential architecture, showing how each may be used and suggesting what such use will do for the home. For convenience, each will be considered in turn, according to its use—that is, window glass, structural glass, mirrors, decorative glass, and so forth.

Windows are of special interest and importance, today, in that they are being used with greater freedom, their application in design being more widely developed than ever before. The emphasis on sunlight, and on that close relationship to the out-of-doors which well designed windows afford, has influenced the modern style profoundly: and even in traditional design, we find increasing use of large glass areas, picture windows framing a lovely view, windows dramatically placed as dominant fac-



A sturdy glass screen shields the terrace of this seaside house, designed by William Lescaze and George Daub. Courtesy of Pittsburgh Glass Institute



LEFT: this dramatic wall of glass, in a modern house by Richard J. Neutra, won Honorable Mention in the nation-wide competition held by the Pittsburgh Glass Institute. Venetian blinds control the light

BELOW: an undesirable view mars an attractive room, so the designer cleverly makes a virtue of necessity and, through a panel of structural glass, admits the light, but not the scenery. From the Pittsburgh competition

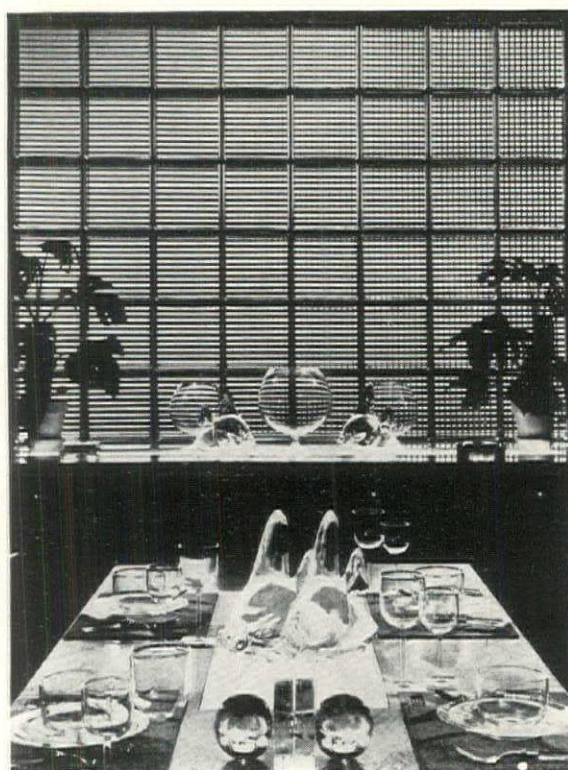
tors in the decorative scheme of rooms. More and larger windows.

Flat glass, used for windows, is of two types, plate and drawn. Plate glass is what we use when we want maximum clarity and maximum freedom from distortion. Drawn glass, the common "window glass", in its highest qualities has only a limited distortion and, being more economical than plate, is more generally used in homes. The maximum practical size of window glass is rather more limited than is plate, maximum size for the former being about 56" by 76", in the double strength quality, whereas plate, as we know from shop windows, is practically unlimited in size for any residential application.

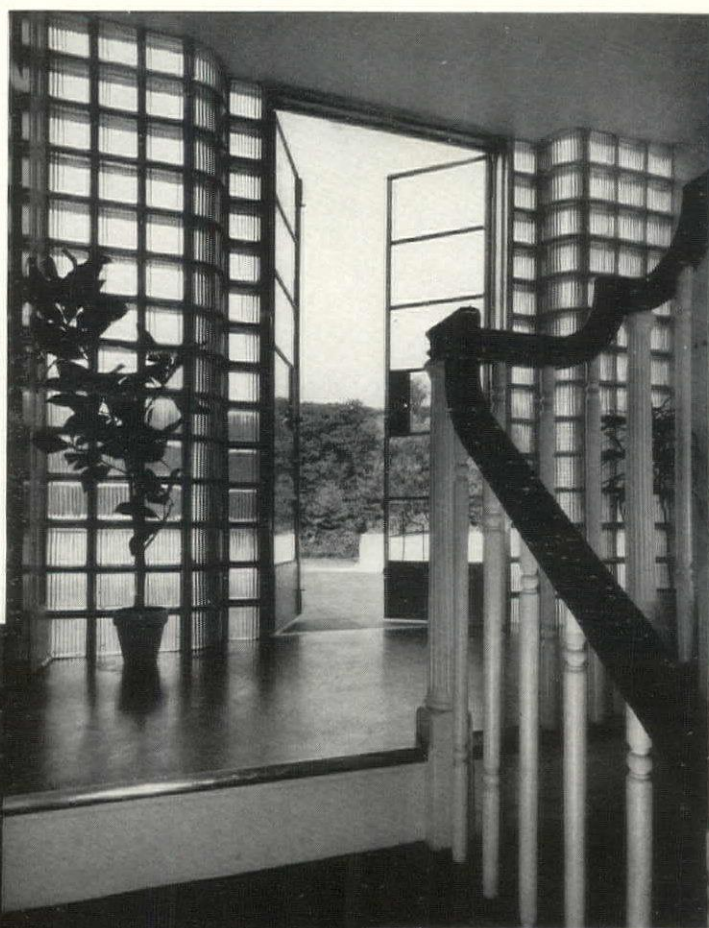
A word about that comparative newcomer, ultra-violet glass, may save our sunbathing readers from possible disappointment. Much confusion has existed over the therapeutic value of this glass which is designed to pass the health-giving rays of the sun, barred by ordinary glass. Owing to the fact that the designation ultra-violet transmitting glass has been applied to sub-standard types which soon lose all efficiency, the American Medical Association has set certain performance standards for ultra-violet glass, and the purchaser should require from the manufacturer certification that his product will meet these standards. This glass is available in any of the standard window glass sizes.

The illustration on page 53 shows flat glass used as a wind screen around the terrace of a sea shore cottage, and on page 55 we see it used in still other new ways; which seems to indicate that we have at last embarked on a really thorough investigation of the possibilities, practical as well as aesthetic, of this type of glass. We shall see that this same enthusiastic spirit obtains in the way in which leading architects and designers are using the other forms of glass which we shall discuss.

The term structural glass is applied to all types of glass brick as (Continued on page 83)



A PRIZE WINNER IN THE PITTSBURGH
GLASS INSTITUTE COMPETITION—
AND OUR IDEAL HOUSE STAIR HALL



ABOVE: in House & Garden's 1937 Ideal House, structural glass brick frames the terrace doors, a delightful and decorative treatment of the walls, providing an abundance of softly diffused light

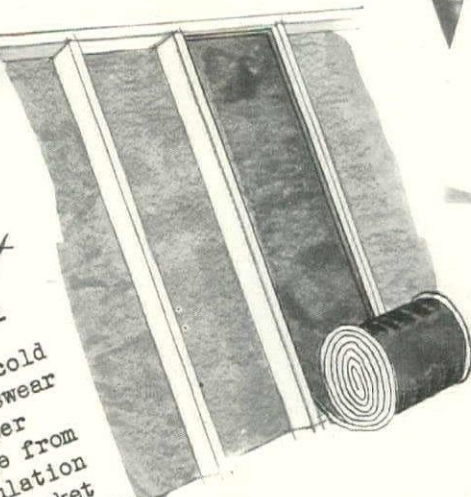
LEFT: a First Prize winner in the Pittsburgh Glass Institute Competition, Harwell Harris, makes brilliant use of sliding panels of both clear and frosted glass, effectively adapted from Japanese design

HERE'S HOW!

Your house can be made more safe, convenient and comfortable at a cost much less than you might expect

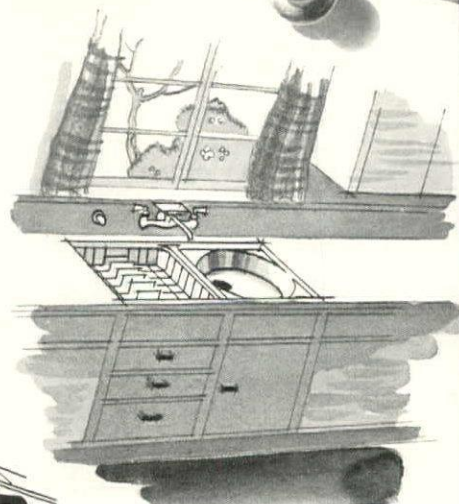
Insulating Blanket

4¢ per sq. foot for the material $\frac{1}{2}$ inch thick.
For exterior walls so cold and drafty you would swear the wind made wallpaper and furnishings bulge from their moorings, insulation is the thing. The blanket type now has two thicknesses of asphalt paper, and flanged edges for easy nailing



Hot Air Register

About \$1.25 to \$2.15 for 12" by 4" size, painted.
Don't be a preying mantis when the children poke a treasure down the baseboard register. Instead thank your stars for a new type which admits air only, and regulates that by a spring-operated damper



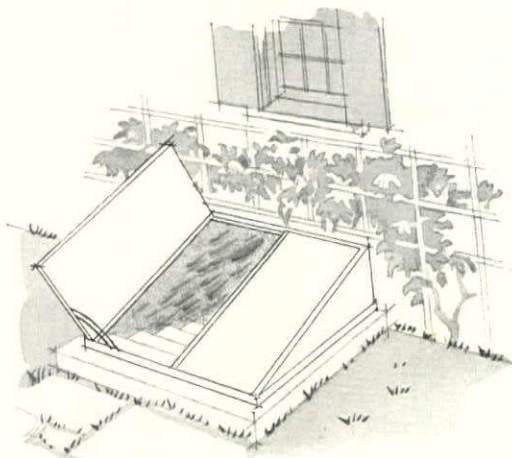
Dishpan Sink

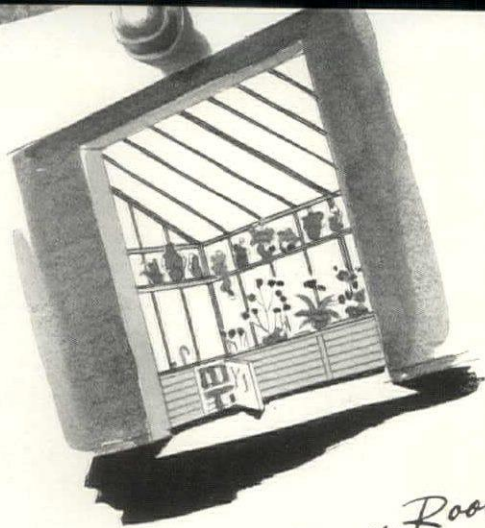
About \$40 for sink-top without installation.
The old dishpan search is eliminated by this new dishpan sink. In the oval compartment dishes are washed, in the other they are sprayed, drained and left to dry



Basement Entrance

About \$25 for size 4' by 3½' without installation.
If you have a recreation room in your basement is it a fire-trap? Only one exit to stairs which could catch on fire? This steel hatchway is the perfect solution

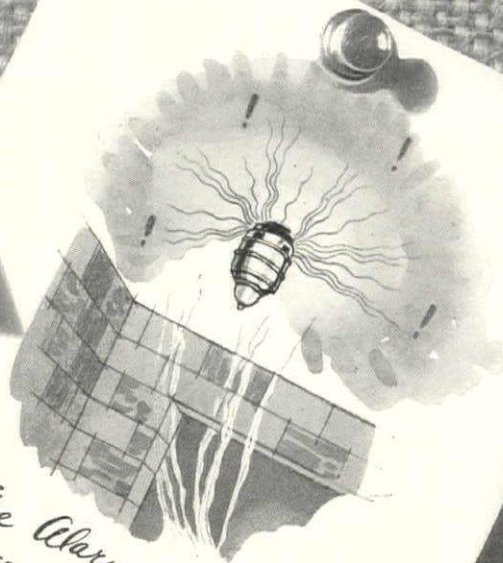




Flower Room

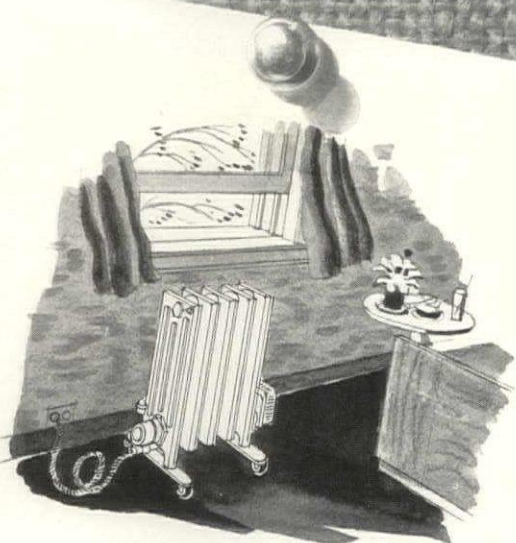


About \$400 for a lean-to greenhouse 9' by 7½'. Growing and arranging flowers isn't much sport in cramped and makeshift quarters, but a flower room will double the enjoyment of the adjacent room, and triple the horticultural results of your efforts.



Fire Alarm

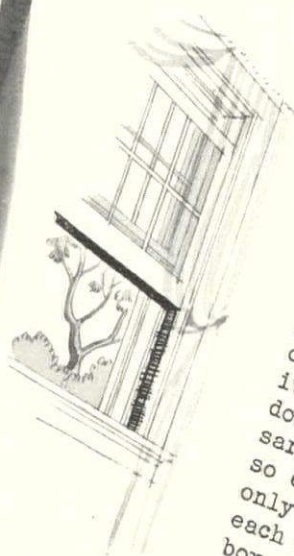
Each \$12.50 complete; screws in any light socket. It's all very light socket. It's a proverbial log, well to sleep like the unsuspecting log, but you don't want a sudden increase of 15° and raucous sounds from this alarm wake any one



Movable Radiator

\$40 for 10½ sq. ft. of radiation, with 750 watt A. C. heating element.

For that bedroom in which even the bed shivers though the window be closed, for the sick room, or for any emergency, just roll in this radiator-on-casters (filled with anti-freeze water) and plug in



Weatherstrip



About \$1.50 for windows and \$4.50 for doors - labor not included. It's an old idea - to keep water out - but this weatherstrip makes it easy to accomplish. For the double-hung type it isn't necessary to remove the parting strip, so each window takes about an hour only to install. The strips for each window come in a separate box - five different sizes in all

MADONNA LILIES Grown to Perfection

OF ALL the various kinds of hardy Lilies, probably the most popular in gardens of the better type is the fragrant, pure white, large-flowered species known as Madonna Lily (*Lilium candidum*). Whether alone or in combination with well selected flowers of other kinds, this Lily provides a display of stately blossoms in late June which no other plant can quite supply. Small wonder that it has become almost a watchword wherever bulbs for the hardy border come under discussion.

As with all Lilies, perfect results can come only when the bulbs themselves are of first-class quality, and when they are properly located and cared for. It is to provide the essential information on these two fundamentals that the following article is written.

There are two forms of Madonna Lily. One has star-like petals which are not much recurved; in the case of the other the petals are stoutly ribbed and strongly recurved. This latter type is the one most commonly used for forcing in the greenhouse for early bloom. The best *Lilium candidum* bulbs are grown in northern France, where climatic and other conditions appear to be ideal for their finest development. Many thousands of these are exported to the United States every year and, together with those from the southern part of France, form our main supply. The northern bulbs, of course, are the ones to secure for best results.



IN THE LONG ISLAND GARDEN OF

J. P. MORGAN. BY JAMES KELLY

Madonnas, unlike so many Lilies, do well in the sun. An ideal place for them is in front of shrubs, but far enough away so that the roots of the latter will not rob the Lilies of their proper share of moisture and nourishment. In such places the Madonnas will receive a free circulation of light and air but the full force of the hot mid-day sun will not be able to reach them.

In the New York region the time to plant *Lilium candidum* is about the middle of September. When the cold weather begins, they should be covered over with salt hay as protection for the Winter. Very often the foliage is broken from the weight of this mulch when covered by snow, so that care should be exercised when placing the hay. Be sure that it is evenly distributed and tossed up enough so that it tends to form a sort of tent-like covering rather than a flat layer.

During the last few years, instead of planting in September in the usual way, I have potted the bulbs separately in six-inch pots and placed them in a frame with no cover until severe weather arrived. From then on, whenever moderate weather provided an opportunity, the sashes were removed and put on again in the evening. By the end of March the sashes can be removed entirely. About the middle of April I set the plants in the places where they are to grow. The Lilies shown in the accompanying illustrations were produced by this method and attest to its success.

I find that *Lilium candidum* and *Delphinium belladonna* make an excellent combination. I also use the Lilies as a background in the Tulip garden. They flower later than Tulips, but their use in this way gives one a longer continuation of flowers in the bulb garden than would otherwise be possible. These are only two of the many combinations in which Madonnas can be used to advantage in the garden border. It will pay anyone to give real thought to other possibilities along these lines.

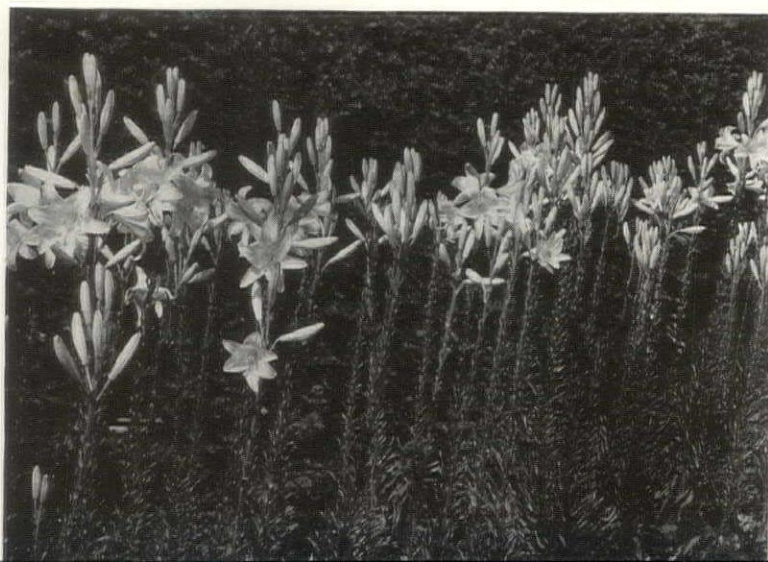
During hot weather Madonna Lilies must be kept supplied with an adequate amount of moisture. This generally means artificial watering which, when it becomes necessary, should be thoroughly done so that the soil is wet to a good depth. As with most kinds of plants, merely sprinkling the surface does very little real good. I find that it is also a good plan to mulch well with peat moss, as this material holds the moisture and keeps the foliage from getting burned and dried up. In case of prolonged drought it is advisable to remove the peat moss temporarily, while watering, so the moisture can get down into the soil.



J. P. MORGAN'S MADONNA LILIES



HAROLD HALIDAY COSTAIN



THE photographs on these pages not only demonstrate the superb results of correct Madonna Lily culture. They also show the enhancement of beauty which comes from providing a massed green background, such as sheared Privet, for the snowy whiteness of the blossoms. Notice also that the Lilies are in full sun, though sheltered from wind. The author of the accompanying article on Madonna culture is Mr. Morgan's gardener.

A collection of line drawings of various household items and tools. At the top left is a window blind with a decorative top. Below it is a large wooden barrel. To the right of the barrel is a small bicycle. Below the bicycle is a two-door cabinet. In front of the cabinet is a small pot. To the right of the pot is a large bucket. To the right of the bucket is a suitcase. Below the suitcase is a small shoe. To the right of the shoe is a small table. Below the table is a broom. To the right of the broom is a mop. Below the mop is a vacuum. To the right of the vacuum is a fan. Below the fan is a small table.

OPENING a house at the beginning of a new season can be as grim as opening Pandora's box, from which, you will remember, escaped all manner of human ills, delusive hope alone remaining. Or it can be an orderly procedure with recurring rewards for your efforts which keep hope far from delusive. It merely means marshalling your forces and planning your campaign with the four definite stages in mind—unpacking, storage, polishing and refurbishing.

1. Keep your family away during the process.

2. Check and provide necessary supplies. A good vacuum cleaner and carpet sweeper. Wet and dry mops, floor waxer and polisher. Special brushes (for lamp shades and Venetian blinds) as well as the common varieties. Soaps, cleansers, waxes and polishes. Shelf and drawer paper, labels, twine and wrapping paper. First-aid supplies. And cloths of every kind.

3. Air the entire house and remember that the close, musty air of a closed house will disappear more quickly if the rooms and closets are sprayed with one of the new chemical deodorizers that leave no odor.

Taking a decent degree of packing for granted, the unpacking will be at least bearable if you—

suitcase and package carried into this room and unpacked there. A guest room, sewing room or even an upstairs hall makes a good unpacking room. This one room method saves running all over the house to locate missing parts and mates and makes it possible to keep all the excelsior, coathangers and trunk trays together behind closed doors.

2. Use large trays or clothes baskets for sorting and carrying things to the different rooms and parts of the house.

3. Separate articles as they are unpacked for active use and storage. Keep the storage group together right on the spot and save the trouble of later collecting them from each and every closet in the house.

4. Use the same room for unpacking the Winter draperies, rugs, heavy coats and other household goods which were packed away. Don't cart each thing into the room where it will be used and then unpack it leaving separate piles of moth flakes, twine and paper.

STORAGE

THE great temptation to consider things properly stored when they have really just been dumped in the attic can be overcome by considering how many good and cherished possessions have been lost or damaged this way. Anything that is worth keeping is worth wrapping carefully and labeling; it marks the difference between putting away and throwing away. The prolonged usefulness of properly stored belongings is as desirable as the smug satisfaction gained from being a good householder.

A Storage Plan is the solution to the problem of knowing what is stored and where, and it's much simpler in the long run than the hit-and-miss method.

A small card index file was never put to better use than for listing articles in storage.

With a simple alphabetical order and a separate card for each article, an index file has just enough system to make the Plan work without red tape and fancy business.

A survey of the closet situation with an eye to what types of things are to be stored, and where and when they will be used, is the next step in the Storage Plan.

One closet given over to roller skates, tricycles, wagons, golf clubs and tennis racquets in the Winter can be used for sleds, skis, ice skates and toboggans in the Summer.

A special closet for fishing and hunting clothes should be planned with a rack and shelves for fishing tackle, guns and supplies, and a lock on the door to ensure safe keeping.

It is always the big unwieldy outdoor things that upset the best storage plans, but they can

be well cared for even though they will not lie in neat piles with labels on them.

1. Door and window screens are best stored, after they have been brushed and wiped clean, in racks or flat on the floor in some out of the way corner of the attic or dry basement.

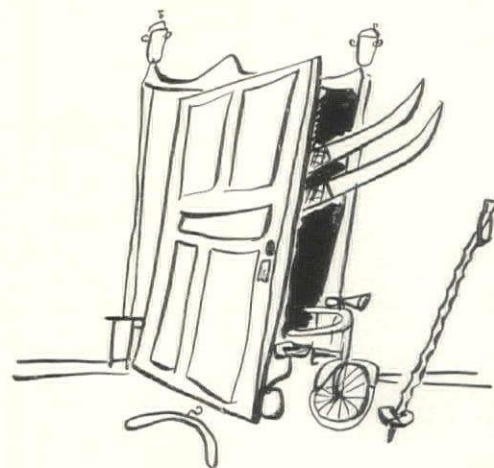
2. Your handsome Summer furniture should be carefully cleaned before storing and the metal pieces should be rubbed with an oily cloth to prevent rusting. Sometimes Summer furniture can be used in a basement game room so that it leads a double life and presents no storage problem.

3. Outdoor games should be cleaned and mended, if necessary, then boxed, labelled and stored in a dry place.

4. The garden tools will be ready for business in the Spring if they are cleaned up, oiled and stored together now. An inventory taken as they are stored will be valuable in planning what is needed next year.

The family luggage needs an annual inspection and should be mended, cleaned with saddle soap or oiled before it is stored away. Oiling leather tends to darken it so that light pieces should be rubbed with white vaseline or lemon oil.

Slip covers and Summer curtains should be either dry-cleaned or washed and left rough-dry and packed away in boxes. Pack curtains and covers for the same room together and label the boxes. Summer glassware, linen and china should also be packed away clean and in order and the boxes labelled. This forethought will bring you great satisfaction when unpacking next Spring.



POLISHING

"To keep one's house well swept and shining" is still a first requirement, but the modern ways of doing it are not those handed down in the old housewives' copy-books. Not only are modern houses easier to clean but there are cleansers, polishers and gadgets especially made for every dirty job in the house. A full set of modern cleaning equipment at this time is worth more than rubies and fine gold, and far more practical.

Since there seems to be no stopping the practical minds that are constantly at work on cleaners and such, it is difficult to keep up-to-date on improvements. The easiest way to get the best tools for your cleaning is to ask a good housewares department what they recommend. It may be that your grandmother's favorite is still tops for certain jobs but by asking you will learn new ways which save labor and do a better job than any amount of old-fashioned scrubbing.

Here, too, a little forethought is worth the effort. A simple list of the different types of cleaning to be done will simplify shopping for the whole job at one time. Arrange to have all supplies delivered as soon as the house is open so there will be no time wasted.

TO CLEAN:

Walls—paint, paper, wood panelling, tile.

Floors—hard wood, linoleum, tile.

Leather, books, rugs, carpets.

TO POLISH:

Silver, brass, pewter, mirrors, windows.

A few homely old methods still hold their own with the marvels of science and should be brought to mind.

1. In cleaning mirrors and pictures be careful to keep moisture away from the frames and backing.

2. Don't try to clean windows when the sun is shining on them.

3. To remove alcohol spots from wood, rub with cigarette ashes and a damp cloth, then polish.

(Continued on page 73)



INTRODUCING CONDITIONED LIGHTING

• Gaiety or romance—action or relaxation—joy or meditation. These are yours at the flick of a switch. For conditioned lighting, the newest development in modern living, can create for you the mood of the moment. The following article sums up papers read at the recent lighting conference in New York, and incorporates the research by Stanley R. McCandless, professor of lighting at Yale, and consultant at Rockefeller Center

THE sun sparkles—you whistle; the sky threatens—you fall silent. The hour is late—the party is gay; all lights go out except the candles—the guests are hushed. The train speeds you through sunlit fields—inwardly you sing; suddenly the tunnel—a hundred worries spring to life. Everyday occurrences. So in your own home. After dark your mood can be controlled by illumination.

There was a time when your words would have fallen on deaf ears if you said to a friend, "Your heating system isn't all that it should be. In the winter you need humidity for the sake of your health, and the distribution of heat should be even." But the last few years have changed that. Probably the same will hold true of lighting. We may be forgiven for feeling perfectly complacent with our artificial lighting for the simple reason that no one has called our attention to its shortcomings.

The first step toward better lighting is an open mind to examine the findings of the experts. The second is to realize that eye comfort is important, not only for children in school rooms, but for ourselves in our homes.

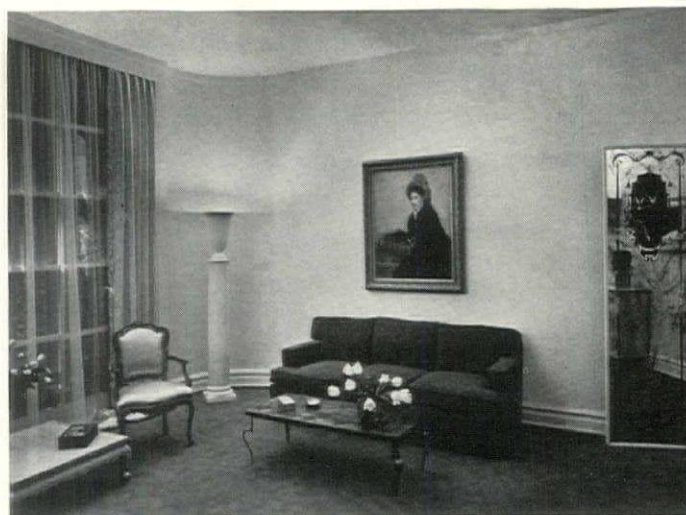
In every house there is almost sure to be one room where the lighting is practically ideal. Ironically enough that room is the kitchen. This is because there is apt to be a ceiling light of the type which sends out some of its rays through a diffusing glass bowl, while the balance is reflected downward from the ceiling. This supplies general illumination. In addition there is apt to be tubular or lumiline lighting on the under side of the upper tier of cupboards. This provides additional illumination where it is needed. But there is no glare from these sources because of the general lighting of the room.

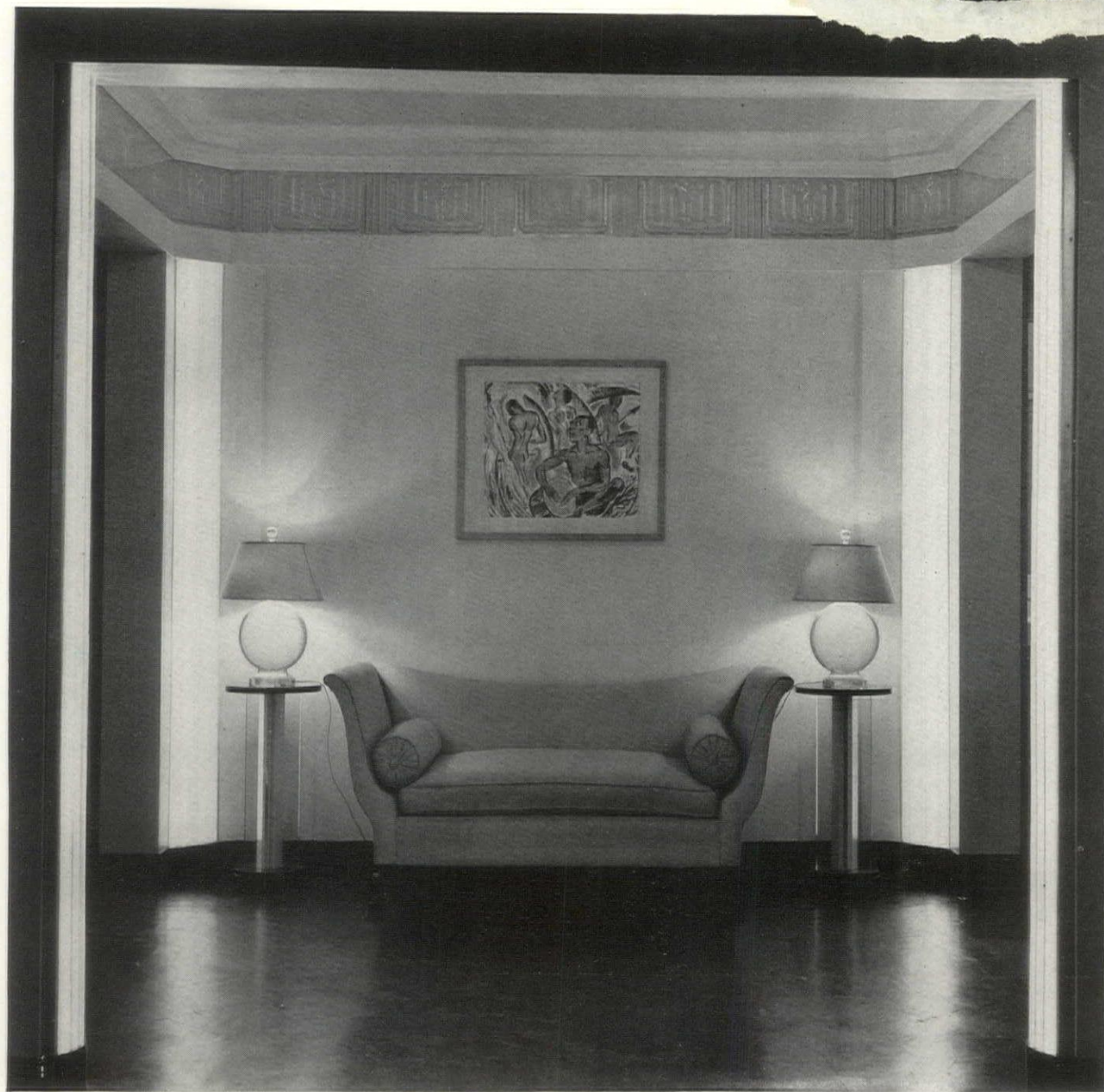
This is not to intimate that moving the kitchen lighting fixtures to the other rooms of the house will provide the perfect solution throughout. But it does indicate the formula generally acceptable according to the tenets of advisable lighting: reveal things according to their importance (generally by directional, localized lighting) and provide enough general illumination so that there is a sense of luminosity. What should always be avoided is high contrast, such as is produced by highly translucent lamp shades. If you glance up quickly from this page to a glaring light you will agree that both visibility and comfort are reduced by any light which is too bright.

In your interests the lighting designer studies the domestic problem according to three subdivisions: atmosphere, composition and comfort. All three are important to you after dark. Taking advantage of expert findings involves no extra cost if you are building a new house, nor is it as expensive as you might think if you want to light-condition an existing house.

Here are some observations enumerated by Mr. McCandless relative to the atmosphere of a room as affected by artificial light: (1) pure emotional appeal is influenced by the general amount of light; (2) warm colors are cheerful and exciting while cool ones are restful and formal; (3) flat lighting is sedative (a balance between great and slight contrast is pleasant, while sharp contrasts are exciting and restless); (4) slow and subtle changes in lighting are attractive while sharp ones are distracting and unpleasant. The common fault of excessive concentration of light often produces a greater contrast than anything which occurs in nature except that of brilliant sun or its reflection on water. When you see trees against a bright sky the contrast value may be only about 8 or 10 to 1. Yet in a room with exposed lamps the contrast may exceed 3,000 to 1.

Another important consideration of the lighting designer is that of composition. Up to now you may have thought of any room as being composed of walls, floor, ceiling and the furnishings. Actually what you see in looking at any combination of these is a pattern made possible and made variable because of light. Too often there is no particular thought given to this most important and useful factor. To illustrate: you select wall or furniture materials by daylight; you choose the ceiling color and texture with certain harmonies in mind. But in each case you view the material or color as though day- (Continued on page 74)





LEFT: The living room designed by James Pendleton shown at the bottom of these two pages has softly diffused lighting and no sharp, contrasting shadows. The general illumination is furnished by light from three urns, while orchid lights in the hollow pedestals add color and warmth. At left note effect of sunlight coming from behind curtains. Thomas S. Kelly was lighting consultant for this room.

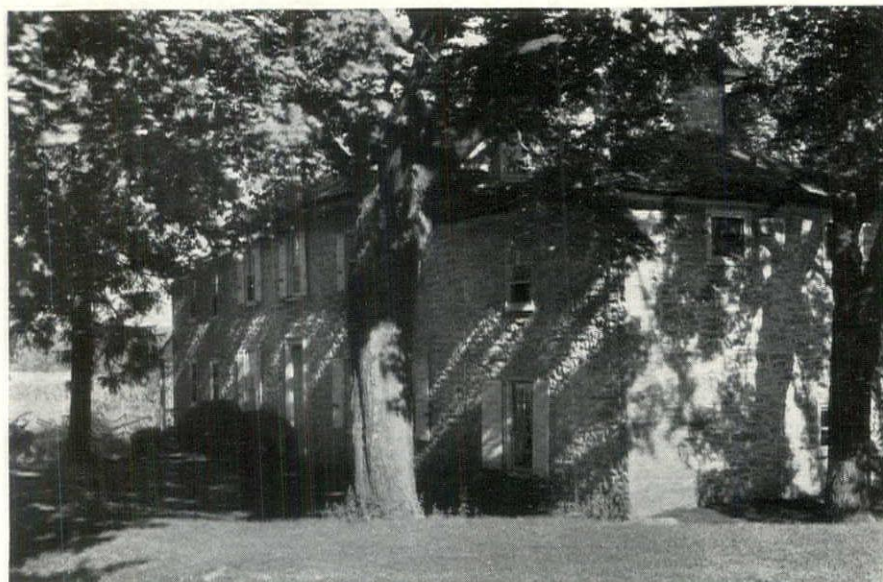
18TH Century Pennsylvania was a land of fertile farmland and flourishing families. To the Quakers who tilled its soil, one more child would mean another hand on a plow, another hoe in the ripening corn and another switch to herd the cows home at sunset. And Quaker homes grew with their families.

LEFT. Here is a house which never stopped growing. In the late 18th Century it comprised a center nucleus of one large room—kitchen, dining room and living room at once—and a small sleeping loft overhead. In about 1830 a wing was added. And when its present owners, Mr. and Mrs. William G. Thayer, Jr., bought it they carried on the tradition by building a third section in the same style.



R. W. TEBBS

RIGHT. The front façade of the Thayer residence. This view clearly explains the growth of the house. The center mass was the original 18th Century portion. The 1830 addition was made to the right of this, and the latest wing was added to the left. The result is a balanced structure with the fine, clean lines of Quaker simplicity, and a harmony due to the use throughout of native Bucks County stone.

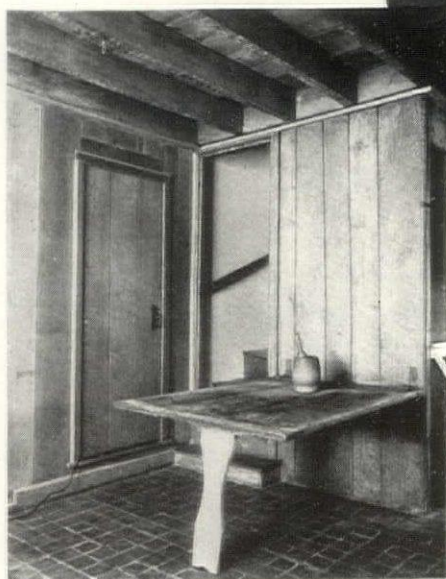




LEFT. Mrs. Thayer's bedroom. The house is furnished with Pennsylvania antiques, some of which were originally in the house, some collected from other old houses in the district. This huge four-poster bed is an original piece: it is uncertain whether it was made here or brought from Holland. The underside of its wooden top is covered with painted panels, and the shelf on the headboard held medicines.



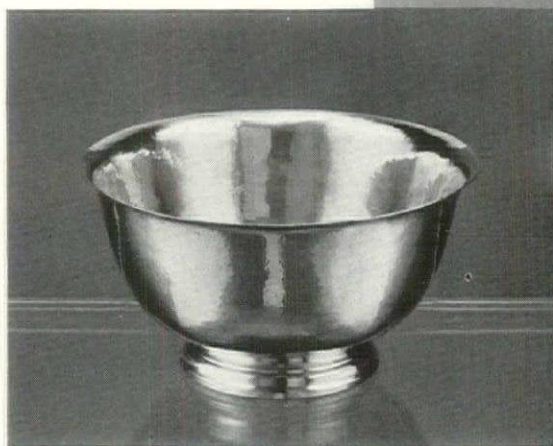
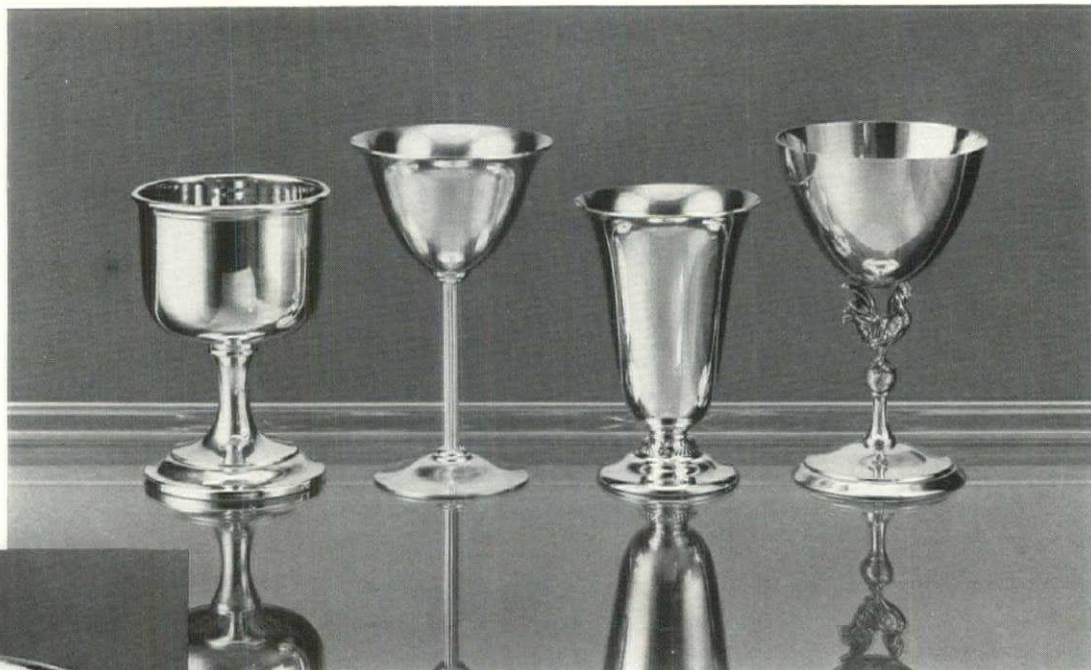
BELOW. The entrance hall, which was originally part of the kitchen. When the latest wing was added it became a small entrance hall, with the door at the left leading into the living room. The table is a typical Quaker design—when not in use it hooks up to the wall.



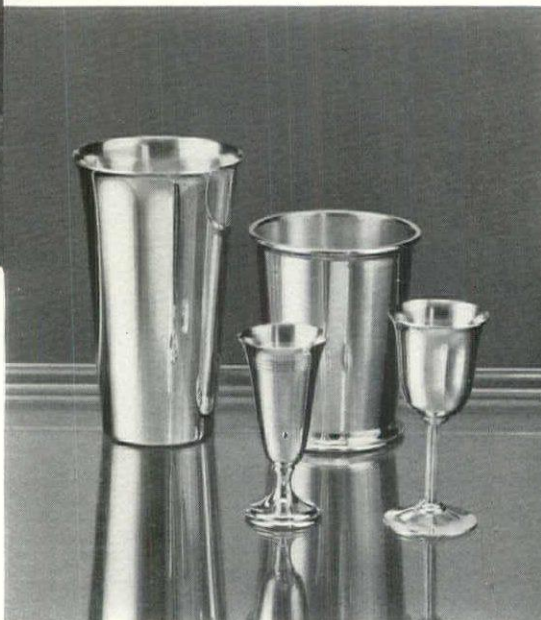
ABOVE. The dining room was the 1830 parlor. The wide floorboards, polished and worn by long use, would be the envy of many a modern house, and the woodwork is as forthright in design as the famous Quaker virtue. The murals were painted by William MacDonald. Over the fireplace is the Thayer house as it looked in 1830. On the long wall is a scene in New Hope at the same time, and in the corner one of Bucks County's charming covered bridges.

RIGHT: Stimulating as the drinks they will hold are these sterling silver cocktail cups. Left to right, they are from: The Watson Co.; International Silver Co.; Sterling Division; The Gorham Co.; Reed & Barton

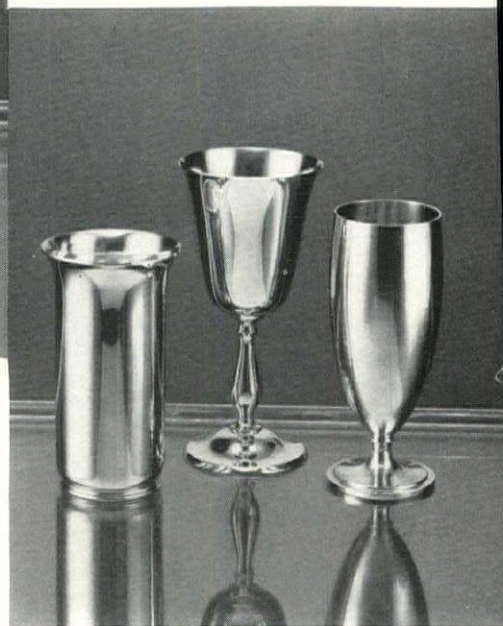
BELOW: A punch bowl of textured sterling that flaunts its double beauty of fine design and interesting surface. International Silver Co., Sterling Division



RIGHT: The old Southern tradition of drinking from silver cups adds a touch of elegance to a pleasant pastime, and the charm of silver brings its own esthetic pleasure to a frosty julep or a fine liqueur. The sterling julep cup on the left is from The Gorham Co.; International Silver Co. offers the stockier one on the right. Sterling liqueur cups: left, from The Gorham Co.; right, from International Silver Co., Sterling Division



BELOW: An exquisite simplicity of line distinguishes three sterling silver water goblets, any of which will bring elegance to your table. Left to right, from Reed & Barton; The Gorham Co.; The Watson Co.



Silver for Beverages

THE trousseau of the Southern bride is seldom complete without its quota of sterling silver for beverages. Charmed by the tradition of drinking from silver, we have gathered together this splendid assortment of silver containers so you may really see how lovely they are. Some of them take their design inspiration from classic shapes and motifs; others have a decidedly modern look because of their lack of embellishment and fine, straightforward form. Sterling silver goblets contribute a rich and festive note to entertaining, whether they are used at the table or for convivial moments before or after dinner. They are distinguished accessions to the family heirlooms and, like all good silver, they will give pleasure and service through endless years to come.

New Conquest of Peru

Minus breastplate and buckler the modern conquistador covers a continent

FRANCISCO PIZARRO, drunk with stories of gold, inveigled a band of Spaniards to follow him across the seas to Peru where on November sixteenth, 1532, he began the annihilation of the Incas with a prayer book in one hand and a spear in the other. Today the conquest of this famous land is accomplished minus breastplate and buckler. We need be armed only with an abundance of sun oil against the rays of a sub-equatorial sun. And we go down the coast on a comfortable liner—no cockleshell of wood and canvas.

The first objective is Lima, via the dusty seaport of Callao. Lima, the pinnacled "City of the Kings", was built by Pizarro around the Plaza de Armas, where we find there is still much for us to conquer. Here, better than in any other city of the continent, the undoubted glories of Colonial Spain have withstood the papier-mâché transformations of the Twentieth Century. The portly cathedral mothering its many altars, and the University of San Marcos, the greybeard of schools in this hemisphere, throw an old world glow over the square. In sharp contrast is the Confiterie Marron, where we can enjoy the movies (in sound, in English) during the cocktail hour, or the terraces of La Cabaña on the brow of a quiet lagoon. And for the night we go to the Bolivar—a title for the local hostelry as prevalent as is the Grand Hotel in Europe—which commands a view of the implacable Andes, rivalling that of any vista in the Swiss Alps.

No railroads run north and south across the craggy spurs of the mountains. The tourist, after Lima, embarks from Callao and sails further down the coast to Mollendo. For up in the mountains beyond Mollendo and Arequipa, lies Cuzco, city of emperors, whose first stones were laid by the mysterious Chimus, a race more ancient, more noble, even, than the Incas.

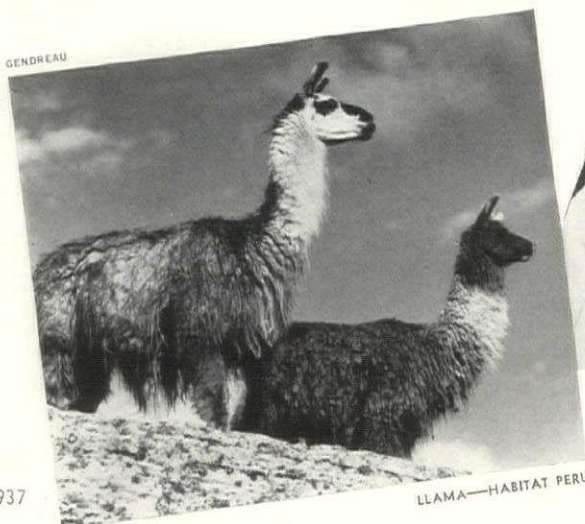
Perhaps, on the way up from Mollendo, you will

lunch in Arequipa at the famous inn of Mrs. Bates, which is the rendezvous for South American Bohemians. But aside from the meal at "Tia Bates," Arequipa is merely a whistle station between the seacoast and Cuzco.

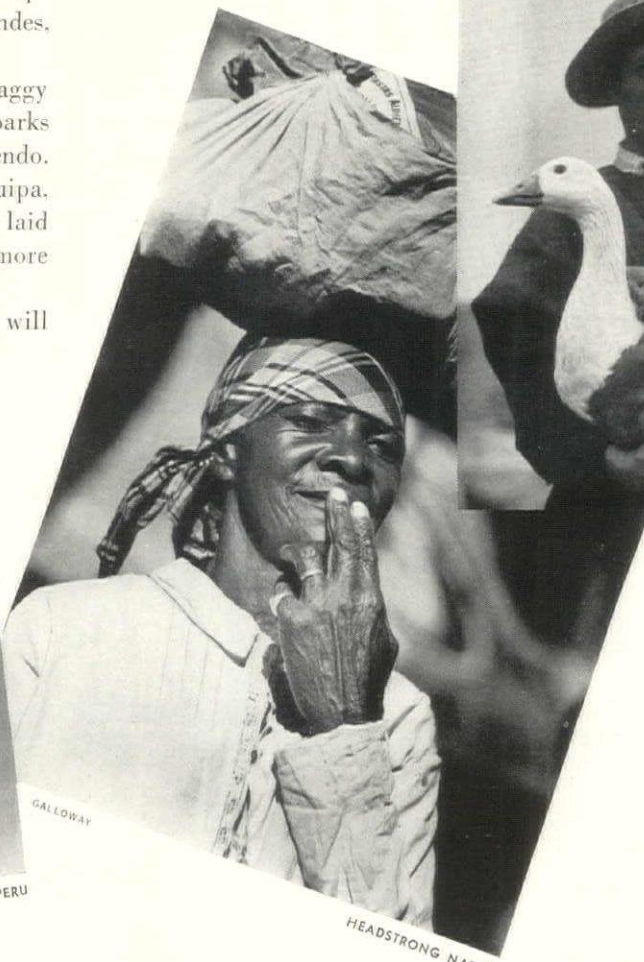
Cuzco is built upon ruins where once the twelve million "Children of the Sun" had their capital. Some of the houses now topped by stucco, grilles and balconies of the Spanish régime clearly show the ancient foundations of the Inca times. The wonder work of ancient construction is the Sacsahuaman Fortress built of giant blocks of flint that have held together, without mortar, through ages of erosion. Where the huge stones came from, how they got there, is an archeological mystery. Although Cuzco was an important city in Spanish Colonial days, the population of today is largely Indian. Not the stalwart specimen that faced Pizarro, but a bare-footed, poverty-stricken peasant, forever listless from chewing coca leaf.

We have more than Peru to conquer, and so we journey on to Chile, land of snow-topped peaks and beaches that combines at once the splendor of St. Moritz and the seaside charm of Monte Carlo. Valparaiso is the port of call, but to literally get in the swim we must go to one of the near-by spas, say Papudo, Zapallar, or the now famed Viña del Mar. Here are (Continued on page 33)

GENDREAU



LLAMA—HABITAT PERU



GALLOWAY

HEADSTRONG NATIVE

AUTHENTICATED NEWS



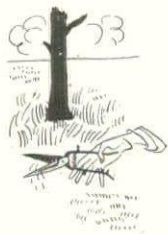
GEESE FOR PETS

The Gardener's Calendar



FLOWERS which are being cut for the house will last better if their stems are immediately placed in water, thus preventing air entering at the cuts and forming a barrier to water absorption. . . . Many perennials self-sow freely and with some, such as Phlox and Columbine, the resultant seedlings are generally inferior. Therefore, remove all seed before it is ripe.

New Rose and Peony beds may be prepared now so they will have time to settle before planting time. . . . September is the ideal time for planting Muscari, Crocuses and the smaller Daffodils. . . . And speaking of hardy bulbs, better get your order in at once, as shortages are likely to develop, due to heavy buying and a somewhat curtailed foreign supply.



TREES on the lawn should have the grass close to their trunks clipped by hand, since a mower is apt to knock against and injure their bark. . . . If the weather is very dry, abundant watering of especially fine foliage trees will help to prolong the life of their leaves. . . . Though ornamental tree spraying is practically over for the season, it is well to keep an eye out for the depredations of occasional late insect broods.

Deciduous tree planting should be postponed if possible until the leaves fall, but small specimens can be moved now if special care is taken to water them abundantly. . . . Trees of doubtful hardiness that normally grow in wet or at least damp locations frequently will withstand an otherwise fatally severe Winter if they have been moved to soil conditions which are more dry and well drained.



SHRUBS such as Boxwood and Privet, which are sheared as formal hedges or in topiary forms, can now receive their final trimming for the year. . . . Good, reasonably rich soil is as important for the proper growth of shrubs as for any other kinds of plants. The results of providing it will be well worth any trouble and expense which its preparation may entail.

One of the showiest of the Fall fruiting shrubs is *Euonymus atropurpurea*, the Burning Bush. Its pink and scarlet fruits are an unusual color note in October and November. Sometimes it takes on the habit of a small tree and may grow 18' or 20' high. . . . Fall pruning of shrubs should generally be limited to the removal of old, injured or unproductive wood.



GENERAL garden crops which are to be stored for Fall and Winter use, such as Apples, late Pears and root vegetables, should be examined to be sure they are sound and will not spread decay. . . . The prevalence of ants this season suggests the reminder that carbon disulphide is one of the best exterminators for those kinds which establish large colonies underground. . . . Outdoor plants of various kinds, which are to be brought indoors for Winter use, should be transferred now to the pots or other containers in which they are to be kept.

Winter feeding stations for the birds may well be put in place now so that some of their future patrons can become used to the sight of them. Actual feeding, of course, need not start for another couple of months.

"**L**OOKED at in pra'tical figgers, as ye might say, Joel Chandler's farm up on the side of Old North is 'bout fifteen acres o' high pastures and nigh two hundred o' fust-class hardwood an' Hemlock. But to Joel an' some o' the rest of us old squ'r'ls hereabouts it's a good deal more'n that, specially when September weather comes. Ye see, it's thisaway:

"The Chandler house kind o' sets back under three whoppin' big Sugar Maples, their leaves all red an' pink an' green mixed in together. Uphill a ways there's a long outcrop o' gray granite with scarlet streamers o' Virginia Creeper acrost it, somethin' like ribbons. To the west the land drops down an' down, pasture an' wood-lot an' medder, to Birchy Holler Brook an' Taylor's Millpond. T'other side o' the Valley, through the Gap, Cedar Mounting sets like a rifle sight lined in the notch o' the hills. Twenty mile away she is, as the crow flies—twenty mile o' clean country air an' sunlight an' the fresh, warm breeze of early Fall.

"Kind o' simple an' quiet-like? Yep—an' that's whut does a heap o' good, sometimes. I've an idee thet if more folks could set under Joel Chandler's Maples an' watch the hills an' the valley an' the haze away on the horizon the world wouldn't be near so crazy as she seems to be today."

—OLD DOC LEMMON



Youngsters



"HAPPY BIRTHDAY to you"—and *in* the youngsters troop with their parcels—and their appetites. "For", say they, "what's a party without good things to eat?" And they're right... So now to the table, and—bring on the soup! For there's a dish hungry children always take to with a vim. Ice cream and cake and party things of course—but also give them one simple hot sustaining soup. Mothers everywhere know how eagerly youngsters go for that good Campbell's Chicken-Noodle, with its golden egg noodles and tender pieces of chicken in a delicious broth... Or if it's Campbell's Vegetable Soup, they take just as eagerly to its delicious vegetables and tempting beef stock.

—or Oldsters

AND TO GIVE a zest to grown-up appetites, what is more effective than a tempting soup with downright good eating in every delicious spoonful? Sets a dinner off to a good start—and on the way to a fine finish. For example, there's Campbell's Pea Soup—a smooth purée of sweet, nutritious peas, blended to perfection with fine table-butter... Or Campbell's Consommé—a consommé that will do you credit, and of which you will be proud... And these are but two of twenty-one delicious kinds in all. How many have you tried?

Campbell's
SOUPS



A NEW LUXURY FOR WOMEN WHO BELIEVE IN COMFORT...

Super-Soft **ZEPHYR BLANKETS**



Like to breakfast in bed? Then you're the one we had in mind when we created Zephyr, a luxurious super-soft blanket by North Star that does far more than cover you up. It *spruces* you up... and your bedroom too! Zephyr offers you a choice of 12 charming colors, and

white. It is tailored to tuck you comfortably in a single or twin bed. And it doesn't cost as much as you'll guess when you see and feel it.

Other fine North Star Blankets, starting with baby sizes, are being featured by all good department stores. See them!

SLEEP SERENELY UNDER
NORTH★STAR
Blankets

FOR OUR READERS' INFORMATION

THE items shown on the editorial pages of this issue of the magazine are sponsored by the following firms:

Fall Coloring, Pages 38 and 39

1. Georgian Living Room

Furniture: Georgian mahogany.

Wallpaper (3 walls): Spring Song, washable—Imperial Paper & Color Corp.: Wolf Bros.

Carpet: beige Pebbletex broadloom—Firth Carpet Co.: B. Altman & Co.

Draperies: powder blue from F. Schumacher & Co.: Bello, Inc.

Matching fringe from Consolidated Trimming Corp.: R. H. Macy & Co.

Glass Curtains: chartreuse taffeta Lamballe from Johnson & Faulkner: McMillen, Inc.

Overstuffed Chair: covering of ivory silk diamond design from H. B. Lehman-Connor Co.: Bello, Inc.

Green fringe from E. L. Mansure & Co.: Bloomingdale Bros.

Sofa: covering of brown textured check from H. B. Lehman-Connor Co.: white welting: Bello, Inc.

Fireside Chairs: covering of chartreuse and brown candy stripe from Peter Schneider Sons: Thedlow Decorators.

White woodwork and ceiling; fireside wall white paneling.

2. French Provincial Living Room

Furniture: amber walnut.

Wallpaper: Rice Field—Imperial Paper & Color Corp.: Wolf Bros.

Carpet: jade green—Bigelow-Sanford Carpet Co.: R. H. Macy & Co.

Draperies: strié silk taffeta from Schwarzenbach, Huber Co.: Kirtland & Wolff, Inc.

Fringe of gold, beige and eggshell from Consolidated Trimming Corp.: Bloomingdale Bros.

Glass Curtains: DuBarry silver bar silk gauze from Peter Schneider Sons: Thedlow Decorators.

Chair and Sofa: covering of printed linen from Glendale Linen Co.: Lord & Taylor.

Armchair: covering of pink crash with boxed fringe of red from Consolidated Trimming Corp.: B. Altman & Co.

Chairs: covering of burgundy, chartreuse & gray from Cohn, Hall Marx Co.: B. Altman & Co.

Woodwork, fawn; ceiling, paler fawn. Doors, black, picked out in fawn and white; baseboard, marbleized black; mantel, black marble.

3. Georgian Dining Room

Furniture: Georgian mahogany.

Wallpaper: dark blue Whimsey from Richard E. Thibaut, Inc.

Carpet: aquamarine—Alexander Smith & Sons: W. & J. Sloane.

Draperies: pale blue Aciel silk damask from F. Schumacher & Co.: Bello, Inc.

Glass Curtains: satin stripe Ninon in ivory from Celanese Corp. of America: Lord & Taylor.

Fringe from E. L. Mansure & Co.: Wanamaker's.

Chair Seats: covering of striped fabric from Orinoka Mills: Lord & Taylor.

Woodwork, dado and doors, oyster white. Ceiling: pale jade green with plaster cornice.

4. Maple Bedroom

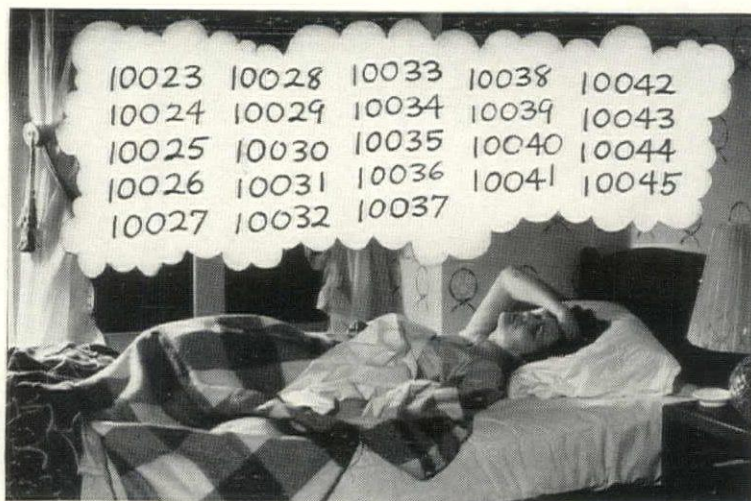
Furniture: maple.

Wallpaper: print from Thos. Strahan & Co.

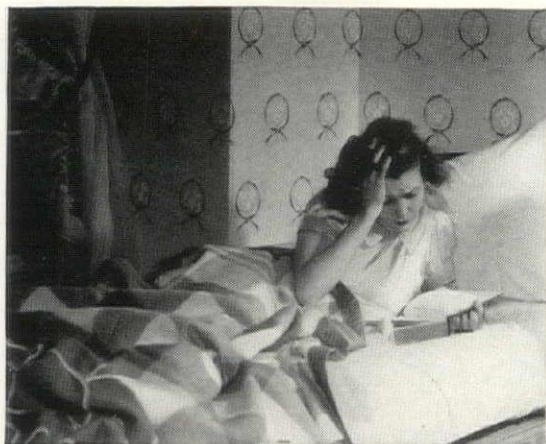
(Continued on page 72)

Do You wake up Purring -or Growling?

A BEDTIME STORY BY SIMMONS



● Picture of a woman after she has gone to bed on a badly constructed mattress. She can't seem to relax. She's trying to count herself to sleep.



● After half an hour of tossing and turning, she's still wide-awake and trying the book technique. Eventually she'll drop off to sleep from sheer exhaustion.



● The next morning! She feels worse than when she went to bed. There's a tired spot at the base of her spine and another between her shoulders. Her head aches.



● Complete lack of emotional control—spilled breakfast food is a major offense after 8 hours of disturbed, broken sleep.



THEN SHE CHANGED HER MATTRESS

● Now she wakes up happy as a lark—it's just as easy to feel *this way*—after a night of deep, refreshing sleep on a Beautyrest.

Poor sleep robs your nerves and muscles of calcium—you become irritable, less efficient

IF you were kept awake long enough, science says, you would lose all control over your muscles and your emotions, would finally die.

The reason is that, during bodily activity, calcium is transferred from your nerves and muscles to the blood stream. And only during sleep is it restored to the nerve and muscle tissues.

If your sleep is broken and disturbed, if you are continually waking up tired and cross, check your sleeping equipment at once—it is probably faulty.

You need for complete calcium recovery of the nerves and muscles each night *sleep*—full, deep.

Simmons Beautyrest Mattress is scientifically constructed to **LET YOU SLEEP**. Its 837 separate coils instantly adjust themselves to your body at every point of contact. You float off easily, quickly, to deep, calm slumber on its 837 "floating-action" coil springs.

See how it feels to wake up "ready to go" with nerves and muscles fully rested. Let Beautyrest do this for you. The cost is only 2¼¢ a day! Ask about it at any leading furniture or department store. Simmons Co., Merchandise Mart, Chicago, Ill.



SIMMONS *Beautyrest*

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IMPERIAL Washable WALLPAPERS

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Behave!

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Defeat the gloom of winter by brightening your rooms with fresh and charming wallpaper. Redecorate now with one of the enchanting patterns from Imperial. Through constant laboratory research Imperial has made wallpaper which is actually *guaranteed* washable and fast to light. Yet, Imperial papers retain the soft, deep tones of true water colors so essential in fine wallpaper. Ask your paperhanger or decorator to show you Imperial Washable Wallpapers. They are priced to suit you. Be sure to look in sample books for the silver label that always identifies genuine Imperial.

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GIVE THIS INFORMATION FOR EVERY ROOM:

Type of Room.....	
Size (Dimensions).....	
Exposure.....	
Type of Furniture.....	
Color Scheme Preferred.....	

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☐ Please also send me your book, "The Romance of Modern Decoration," for which I enclose 10¢.

Your name.....

Street..... City and State.....

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FOR OUR READERS' INFORMATION

(CONTINUED FROM PAGE 70)

Carpet: blue Softred with self-fringe from Mallinson Importing Co.; B. Altman & Co.

Curtains: ivory net from Bartmann & Bixer; Lord & Taylor. Light blue crash valance with tie backs bound in darker blue from Consolidated Trimming Corp.; B. Altman & Co.

Canopy on Bed: draped in ivory net from Bartmann & Bixer; Lord & Taylor. Fringe of white cotton balls from E. L. Mansure & Co.; Bloomingdale Bros.

Dressing Table: ivory net from Bartmann & Bixer; Lord & Taylor. Valance of blue crash from Consolidated Trimming Corp.; B. Altman & Co.

Dressing Table Chair: covering of blue crash from Consolidated Trimming Corp.; B. Altman & Co.

Bedspread: shaded blue candlewick from Bates Fabrics; James McCreery & Co.

Chaise-longue: covering of green stripe from Howard & Schaffer; Westport Antique Shop.

Armchair: covering of green crinkle satin from F. Schumacher & Co.; Bello, Inc.

Woodwork: ivory.

Furniture shown by courtesy of Kaplan Furniture Co.; Robert W. Irwin Co.; Charak Furniture Company; Mueller Furniture Company; Heywood-Wakefield Co.; and Geo. Borgfeldt Corp.

PARIS INTERNATIONAL EXPOSITION

(CONTINUED FROM PAGE 31)

But the French have never entirely relinquished Victorian colorful bedding in parks and now this fondness, slightly changed, appears in small Exposition gardens. Some of them are Rose gardens in solid blocks of red, yellow and blends separated by strips of orange Lantana, all bordered by low hedge purple *Verbena venusta*. Small shallow pools, edged with red bricks, have a flooring of decorative mosaic panels. Some small gardens are checkerboards of red and white Begonias and blue Plumbago. Paris, which never does anything by three-quarters, has gone Begonia mad and they, with Dusty Miller for gray contrast, furnish most plant material in patterned gardens. Three of these lie side by side, each with a pool at the end terminating in decorative bas-reliefs. These gardens are patterned in wide strips of white Begonias, gray Dusty Miller and Plumbago, or Begonias, Plumbago and grass.

The choicest garden in the Exposition is a small formalized Alpine meadow. Backed by a planted wall faced down by dwarf evergreens, prostrate Cotoneasters and ferns is the flat area where Alpines grow in irregular naturalistic drifts.

THE TOPIARY ART

The French, of course, surpass the world in espalier fruits and pleached shade trees. The former are beautifully displayed in all types, designs and heights. Apples and Pears are espaliered in high walls and fantastic chairs, vases, umbrellas, even turrets. These can well be copied to give American gardens an amusing touch as well as choicer fruit. The horticultural exhibits tend to collections and Japanese Maples and groups of odd

form evergreens indicate an increase in collectors' gardens, while Cactus displays and the wide interest in them promise a maintained popularity of succulents and decorative house plant forms.

By way of decoration there are garden gates of green iron with simple chromium decorations, as well as much plain wood, oiled and varnished. The gardens of formal design are all embellished with statuary, some of rough stone, some polished, others gilded. The gilded statuary is especially effective as a focal point before massed, clipped evergreens.

Throughout, the general garden tendency is for formal color display, with no more riots of heterogeneous hues.

FOR EASIER LIVING

So much for the arts of living. But the theme of the Exposition is "Art et Technique"—technique concentrating mainly on household mechanisms though it might include such devices as the use of ramps in houses instead of stairs. It is clear, however, that the essential technique of modern living is the concentration on space and equipment for outdoor sports and games, since all Europe seems sports mad and sun hungry. Glass walls and wide flat roofs, terraces and verandahs prove the desire for sun and for bringing outdoors indoors. This is particularly interesting to observe here, for while the tendency of the architecture, both of houses and gardens, is geometric and formal, the tendency of living is free and informal. If the Exposition proves anything it is that the more abundant life is to be achieved by more time for play, created by easier and more convenient household building and equipment.

END OF SUMMER

(CONTINUED FROM PAGE 61)



CLEANING AIDS. Back row, left to right: vacuum cleaners from Westinghouse, Hoover, General Electric. Center row, left to right: Lincolnwood radiator duster, Squeeze-Ezy mop, Bissell carpet sweeper, O'Cedar mop, Bates rubber broom mop, Lincolnwood floor duster. The front group includes: Kellogg brushes, Lincolnwood Venetian blind duster, Johnson's wax, Old English wax, Bon Ami, Lux soap flakes, Wright's Silver Polish, Baker's Old World furniture polish, Charak furniture polish, O'Cedar polish.

4. The soft mellow appearance of old pewter can best be renewed by rubbing it with steel wool #00 and oiling after it has been washed and dried.

5. Sunshine is still in a class by itself as the great cleaner and purifier. Feather pillows, blankets and draperies react as you would to a day in the sun.

REFURBISHING

Probably the most tempting job in the refurbishing line is doing up the closets. The practical value of having well equipped clothes space is obvious but it's their decorative possibilities that make closets more than bins.

1. Zippers and snaps on the fanciest closet fittings make them easy to clean and wonderfully practical.

2. Transparent boxes of all sorts, sizes and shapes are perfect for storing hats, gloves, shoes and handkerchiefs. Being able to find that brown hat at a glance can only be matched by the real protection of these boxes.

3. Garment bags, varying in size, are now well designed in many new materials, with the groping and tugging that was needed to remove clothes from the early models eliminated.

There are hat stands, shoe bags, lingerie cases and special hangers designed to keep your clothes in the most practical manner.

With the clothes and linen closets bedecked, some attention should be given to the utility closets of the house.

1. The increased storage space which well planned shelves and racks will provide justifies a conference with the local carpenter.

2. The grim necessity of keeping woolens safe from moths makes tar paper bags, and moth-proof cabinets with roll-up fronts, a good investment.

3. A special paint which gives off the odor of cedar can be used to finish the interior of these closets.

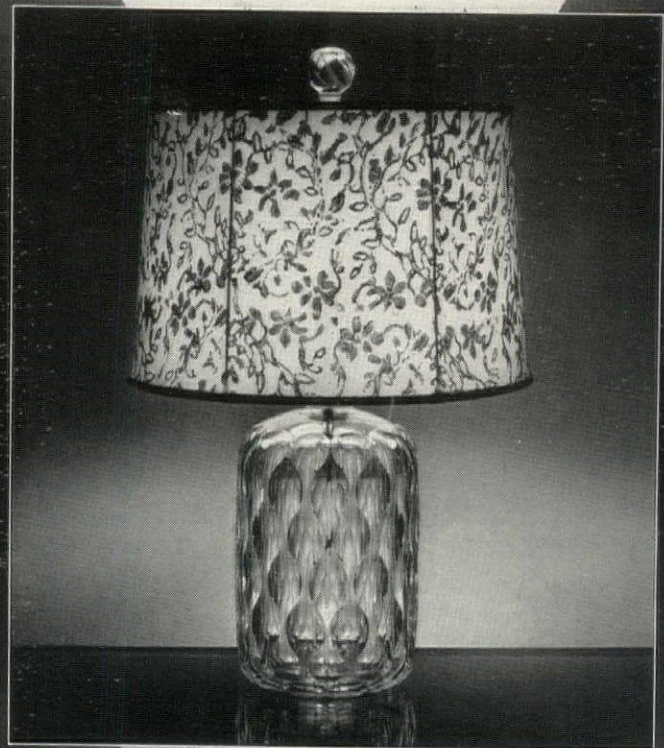
The satisfaction of rubbing, polishing and bringing out the glow of fine woods and old furniture makes this refurbishing a pleasant task. A new sheen and depth can be given to the finish of many pieces and unsuspected color and texture developed in others by careful polishing. There are new polishes especially made to be truly worthy of a fine wood as well as the old familiar lemon oil for bringing out the best in the grain. The upholstery and old fabrics used in fine furniture can also be cleaned and renewed by careful use of the excellent upholstery refurbishers that are now sold.

For safety as well as increased wearing qualities, special cushions should be fitted under rugs and carpets. Small rugs can be skid-proof if fastened with special anchoring devices.

A careful check of linen hampers, towel rods, lamp cords, door and window locks, Venetian blinds and other miscellaneous equipment should be included as you survey your house before opening it for a new season.

ORREFORS

UNRIVALLED MODERN GLASS



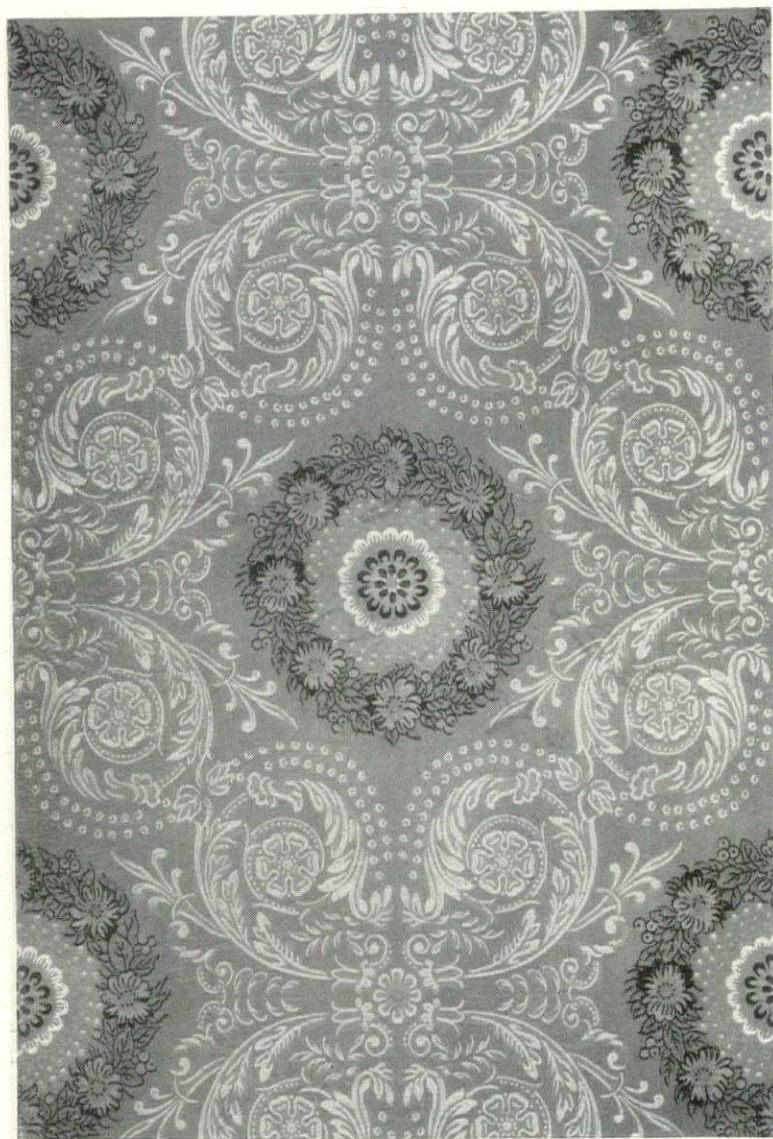
RICH ACCLAIM AT THE PARIS EXPOSITION!

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This fine "Whistler" paper, #7427, painstakingly reproduced by Strahan, is a representative example of technical mastery in the manufacture of the finest wallpapers. In every Strahan paper exceptional quality of color and material, as well as authenticity of design, is accepted tradition.

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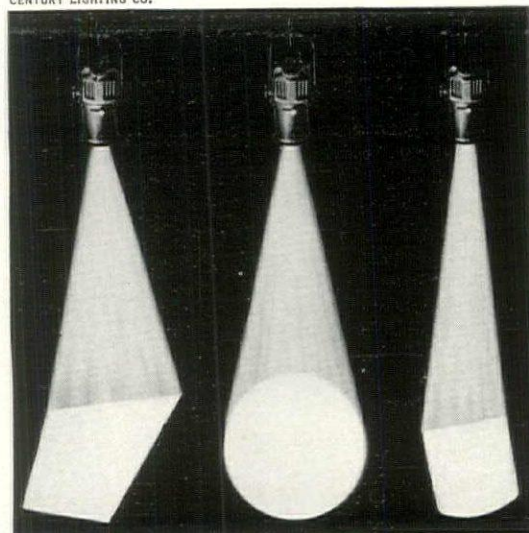
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DOMESTICATED spot lights can focus light of any desired shape on wall decorations or paintings, or on special pieces or groups of furniture. They offer a new solution for lighting the dining room table and the grand piano

INTRODUCING CONDITIONED LIGHTING

(CONTINUED FROM PAGE 62)

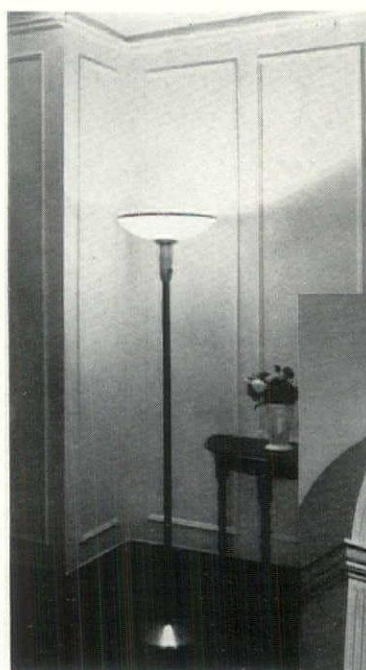
light were to fall directly upon it. Granted that you have made allowances (which few persons ever do) for subdued light changing the daytime effect you desire, what provisions do you make for artificial lighting? If the room suits you by natural light, with the light coming in directly from the windows and *not* depending upon reflecting from ceiling or walls, what can be done to make it effective at night?

If you are in doubt as to the importance which is due the composition of lighting, pause to consider when the rooms of a house are used by more than one or two people. Very few living rooms are used in the daytime except on weekends, holidays and a few special occasions. Yet the entire family is prone to use such a room almost every evening of the year. In most households the dining room is the scene of a hasty gulp or two at breakfast

time, luncheon finds a lonely board, but in the evening at dinner time under artificial light the family has its daily reunion under relatively leisurely circumstances. A bedroom is scarcely noticed during the morning rush, but when a switch is snapped on at night the occupant has time to enjoy the room.

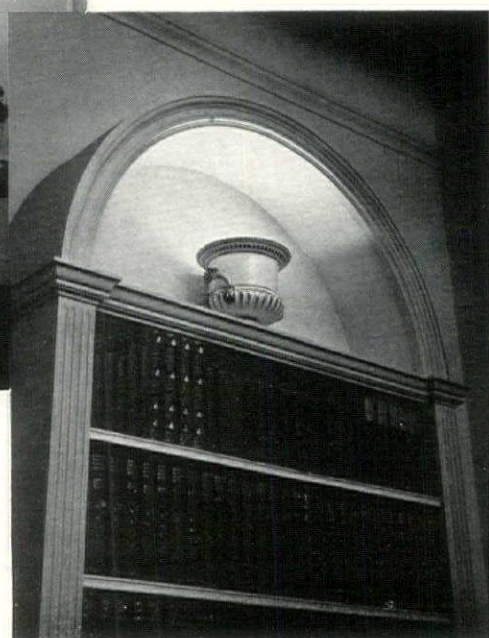
The first step, then, is to plan not for daylight alone, but for the effect under artificial light as well. In this connection regard the ceiling with special consideration. In the daytime the natural light coming in illuminates the furnishings and walls first so that the ceiling could be white, yellow or blue without any great difference in the lighting results. But artificial indirect light would strike the ceiling first as the chief reflecting surface. Therefore not only the ceiling color but

(Continued on page 75)



LEFT: This new Daray floor lamp from Lightolier, with its ivory-colored glass bowl, furnishes both direct and indirect light

BELOW: The decorative urn in this stairhall niche provides even light distribution with no glare on the staircase. Thomas S. Kelley was lighting consultant



INTRODUCING CONDITIONED LIGHTING

(CONTINUED FROM PAGE 74)

the texture as well is important because a smooth, mat surface will be a better reflector than a rough one.

There are some fundamental observations made by lighting experts on the effect of colored light, using daylight as the standard for white light. One is that the color of any pigment is true only under white light. In other words, the slight yellow cast of the light from the standard bulbs should be taken into account. Realize, too, that the color of any light will seem to be brighter when it falls on a surface having the same color, and duller when falling on a complementary color. To illustrate: amber light illuminating a blue wall will change the color to a poor gray.

The lighting expert has long known how to aid the theatrical producer in selecting certain objects or areas for either emphasis or suppression. The same can be done for any room. A room can be treated with artificial light in much the same way as a painter treats a canvas, except that in a room there should be no sudden, sharp contrasts, for these emanate only from brilliant light sources. As pointed out before, the latter cause eye discomfort. Then, too, in studying a room the type of lighting should be chosen which is sympathetic to the purpose of the room. For example, it is obvious that the glitter of a crystal chandelier is appropriate to formal rooms because it is consistent with the brilliance of evening gowns and jewels, rather than for the room which is used as a quiet, restful retreat.

The third consideration—comfort—is perhaps the most important of all lighting considerations. The first essential is that there be adequate illumination for the particular purpose. You can borrow or buy a little light meter which will give you some idea in readings of "foot-candles" as to the sufficiency of your present lighting. For stairways, halls and general circulation there should be two foot-candles; in rooms used for conversation, dining and restful activities at least 5; and, for reading and precise work, twenty to fifty. Each room should have a certain elastic range because elderly persons require more light than the middle aged, while for persons of the same age those with eyes having small refractive errors need far more light.

HOW TO DO IT

"It's all very well to talk of 'conditioned lighting', and explain why it should be recognized as a vital part of a home which is to be livable and comfortable in the true sense. But how can it be achieved? My dining room has a central fixture, as has the hall. All additional illumination in all other rooms comes from wall brackets or lamps. If we decide to rejuvenate our present house, or if we decide to build a new one, what additional units are there with which we can work?" These questions will be asked and answered countless times in the next ten years.

The lighting units of a house may be divided into those useful, and those secondary or decorative. The first group includes hanging fixtures, wall brackets, I. E. S. and portable lamps, such as there are in every home. In

selecting these the chief points to remember are: ceiling lights should send the light down at such an angle that it will not shine in anyone's eyes; wall brackets should emanate light both up and down, and the fixture when lighted should appear no brighter than the wall; portable lamps should direct some light upward but still more downward, but shades should not be opaque. Indirect lighting should be used to the exclusion of direct lighting only where no reading or precise work will be done, such as halls.

DECORATIVE LIGHTING

Secondary or decorative lighting has recently flowered into fresh and elastic forms. The chief types are cove lighting—continuous panels near the ceiling; panel lighting—separate panels in various horizontal or vertical positions; and spot lighting—concentrated light, as the name indicates.

Cove lighting, which designates a series of bulbs placed in a reflecting trough, throws an even distribution of light over the ceiling. In all cove lighting it is important to have reflectors or the individual bulbs will make uneven, glaring spots. Sometimes structural or translucent glass so covers the reflector that some light may be deflected or diffused downward. This type of lighting can be invaluable where murals, scenic wallpaper, or library shelves are to be illuminated.

Panel lighting presents a broad source of low luminosity, being glass panels on about the same surface as the wall or ceiling where they are located. The glass in front of the bulbs can be frosted, highly decorated or carved. The possibilities are legion, and offer one of the greatest fields for development. Under this classification should be listed the elongated panels which can effectively be used above a door or window, particularly above an exterior door. There should also be included the glass "ceiling" in a corner cupboard in a dining room, or in a cabinet with bibelots or books. Panel lighting could also be located in the top surface of a cabinet to illuminate an *objet d'art*. Glass bricks offer new opportunities, such as in screening continuous radiation and using some illumination behind the bricks, as Donald Deskey has done for a Chicago penthouse bar.

Spot lighting has long been used on the stage, and for the last few years for the purpose of lighting pictures. The so-called "picture spot light" designates an objective lens like that used for showing lantern slides, and permits the light to be limited to an absolute edge of a picture, a dining room table or a bridge table, etc. Another form of spot lighting employs lens units which direct the light into the useful zone, and has the advantage of having soft edges of light. The spot light unit can be had for about \$25, and should be enclosed in a metal cubical box about 12" on a side. This can be built into a room by being recessed in the ceiling or even the wall. The light can be controlled so as to be of any desired intensity and, what is more, of any desired shape (square, oval, etc.). The spot light directed to

(Continued on page 76)

"You're absolutely right, George"



George Burns and Gracie Allen, two of radio's most popular stars, N. B. C.—Red network. Monday evenings.

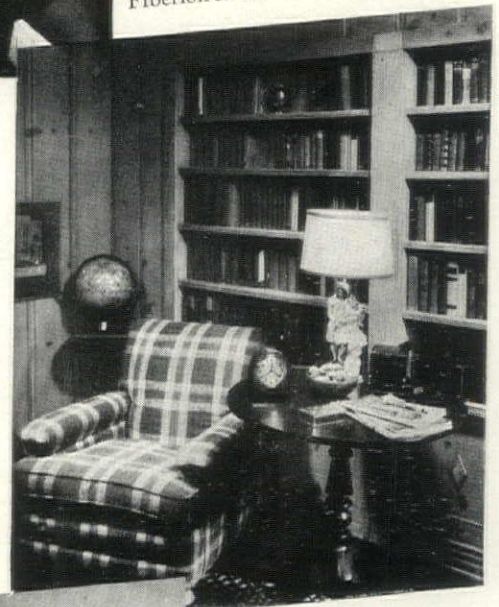
... says Gracie Allen, as she applauds her husband's selection of G-E Clocks



No wonder Gracie Allen feels proud. Her new home is one of the loveliest in Beverly Hills. In its beautiful living room, you'll find this distinctive new G-E Clock with fluted Fiberlon case. "The Basque." \$4.95



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Let this new G-E Alarm wake you in the morning. Mahogany with gold band and dial. "The Sophist" \$9.95

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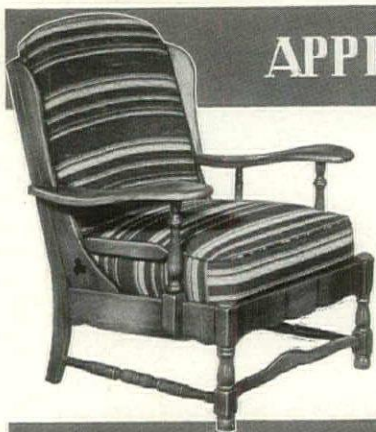


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FINE FURNITURE SINCE 1826
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INTRODUCING CONDITIONED LIGHTING

(CONTINUED FROM PAGE 75)

a crystal chandelier can make it sparkle much more brilliantly than if it were itself lighted.

In a new house none of these lighting units is in the least difficult to install. Even in the existing house the problem is not as involved as you might imagine, for electricians are ingenious mechanics, capable of "snaking" or pushing electric cables and wires between walls, along ceilings between joists, or dropping them down

from the attic. The installation of switches will probably necessitate the redecoration of the walls after patching here and there has been done.

Modern life is so intensively lived that whatever will make rooms cheerful and restful and comfortable at the end of the day will be well worth the cost. Certain it is that conditioned lighting will pay dividends in better eyesight, reason enough for giving the subject unconditional consideration.

WINTER PROTECTION OF EVERGREENS

AMONG falling leaves and foliage, brilliantly colored before their departure, the evergreens stand out like the proverbial hope eternal, and we enjoy their assurance that they will be with us throughout the Winter season. It is no more than fair that we consider the struggle which they have to remain green all year round, and help them.

The Winter is to plants not only a season of cold temperature; it is also one of physiological drought, as no moisture can be taken from the frozen earth. Deciduous plants suffer less from this condition for their branches are bare of leaves and they spend the Winter, more or less, in a dormant state. The evergreens retain practically the same foliage surface through all the seasons. During the Winter, when most of the moisture they receive comes from above ground, it is that same lovely foliage which constantly evaporates a lowered moisture supply within the plant's system. After a dry Summer season such as we sometimes have in many parts of the country, the usual Winter drought will take its toll.

A thorough watering before cold weather sets in will help immensely. Just a sprinkling with the hose will do no good; the soil around the roots must be soaked thoroughly and deeply. For this purpose it is wise to form a basin of the soil around the plant, at least as large as its outline. This should be filled with water several times, so that the under layers of the soil will be thoroughly moistened and can handle the question of water supply when the upper layers have retired to a hard, frozen state. After the watering, a mulching with some porous material, salt hay, peat moss or dry leaves, will prevent the frost from penetrating too deeply into the earth. These measures are especially important with evergreens planted recently.

Strong winds, which increase the evaporation, are another Winter hardship of the evergreens. Many of them, like Hemlocks, otherwise perfectly hardy, will suffer in an exposed windy place and take on a sickly, yellowish or even brown color. A sheltering fence or a windbreak planting on the side of prevailing winds will give protection.

Paradoxically, Winter sunshine is of no help to evergreens—on the contrary, many of them will burn badly if exposed to strong sunlight in cold weather. For Boxwoods, and many of our evergreen Azaleas, a shading arrangement is essential in our northern climate. For the most sensitive ones—Boxwood, for instance—a structure built of sturdy wooden frames, over which burlap is stretched, provides the most efficient and least unsightly

shade cover. Were it not for the sentimental attachment with which Boxwood is regarded as a reminder of Colonial plantation gardens, one would be tempted to say, "Replace it with a hardier plant, more suited to our climate, such as the Japanese Yews (*Taxus cuspidata* and *T. cuspidata nana*), or Japanese Boxwood (*Buxus japonica*). The latter, while not so compact in growth as our southern Box, is a sturdy substitute. If we are to be frank with ourselves, it must be admitted that the Colonial Boxwood, entirely covered for the whole Winter, is not truly an evergreen, and in new plantings it is worth considering whether it is really essential to the effect of the design.

For less sensitive evergreens, including most Rhododendrons, Azaleas and many conifers which discolor under Winter sunshine, a shade frame built of wooden laths, spaced their own width apart, will give a partial and moving shade, and at the same time not hide them completely. For larger trees, use 1" x 3" boards. Generally, this shade need be erected only on the east and south sides—the east side being most important, as morning sunshine on frozen plant tissues, after a cold night, often has a most devastating effect. The shade should remain until all danger of heavy frost has passed.

The soft cover of snow on evergreen boughs is a beautiful picture for us but a tremendous burden for these trees and shrubs. If they are of a spreading type, like many Junipers, the weight of the snow blanket will sometimes break the branches apart and disfigure the plants permanently. It is always advisable to brush off heavy snow with a broom, but the damage may then already be done and it is worth considering prevention of that damage. Under branches spreading horizontally near the ground, like those of Pfitzer's Juniper, inconspicuous, short but strong crutches can be placed which will help to carry the burden. Upright boughs branching off at a pointed angle from each other, such as most Thujas and Biotas have, can be tied together, best with a strip of burlap near the fork which is the point of greatest strain. If these measures are taken, a light snowfall, which so greatly enhances the appearance of evergreens, can be endured without harm.

Drought, winds, sunburn and snow are the companions of Winter against which we have to protect our evergreens. If we do our share, we will be well repaid in the Spring by the fresher appearance and undisturbed growth of these faithful friends.

SVEN LINDE



★ Here Milford draperies in eggshell damask, and textured Coptic coverings, harmonize with an ultra-smart Baroque pattern. Just one of the many examples of this ingenious, new-type ensemble planning.

An inspired new idea in smart contemporary

Now at last you can get unit-planned rugs, draperies, and upholstery fabrics

Here is an entirely new development in interior decoration—a new trend of major importance. ★ First of all, Townhouse Rugs, decorator-designed, in the contemporary manner! You will admire their fresh beauty, their eminently livable qualities. Patterns of smart originality, ideal for both modern and traditional rooms, have been worked out in needlepoint, blondes, delicate pastels, wood tones, and charming self-color effects—a brilliant assortment. ★ Loomed by master craftsmen from the very choicest, silky-soft wools, Townhouse Rugs are deep-piled, luxuriously cushioning. Yet they are priced at only \$149.50 for the 9 x 12 sizes, with others proportionate. ★ Then harmonizing with Townhouse Rugs, created especially to accent their designs, colors—are Fieldcrest Decorative Fabrics, of wide, representative range. Some of them pick up the design of the rugs, while all are of completely blended tonality. Some, like Coptic

FAULTLESSLY
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CARRARA *The modern structural glass*

A study in bathroom beauty is this Carrara room in the home of Mr. and Mrs. Frank H. Stephens, Pittsburgh, Pa. The Ivory Carrara walls and ceiling, the Black and Jade Carrara trim combine to create a lovely setting for the fixtures. Note the smart plate glass shower doors, and the convenient shelves placed in a Jade Carrara wall recess.

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PLATE GLASS COMPANY

HOUSE & GARDEN'S BOOKSHELF

A ROSE ODYSSEY. By J. H. Nicolas, N.Sc.D. Garden City, N. Y.: Doubleday, Doran & Company, Inc.

As Dr. Nicolas explains in his preface, this is not a book on Roses, but a story of his own visitings over a period of twenty years in the several sections of Europe where Rose-growing is practised as a fine art; and where the successful hybridizer and introducer of new varieties has been recognized as a citizen of national importance in his own country, and honored with decorations and medals.

Dr. Nicolas begins the tale of his wanderings—the Odyssey—in France, the country of his birth and ancestral ties. Thence, with a brief side trip to Switzerland, he takes his readers to Italy; and then, in succession, to Spain, England, Ireland, Holland, Belgium, Germany and Denmark—with occasional loops back into France.

While he tells a running story of many things historical and happenings by the way his purpose has evidently been the scientific uncovering of secrets in the growing of Roses, so that new varieties, or improvement in older ones might be the reward of Rose growers in the United States—more particularly the establishment of the Jackson & Perkins Company of Newark, N. Y., with which he is connected.

The scientific results of his tours, centering upon the notable successes made by experimenters abroad, are gathered into a few brief chapters toward the close of the book. The chief conclusion reached (largely through suspicion, it would appear) was that the soil in which the Roses were grown, and the fertilizers used to enrich it—and which thus became, for scientific purposes, a part of the soil—had a very powerful influence on the qualities of the bloom put forth by the Rose bush under experiment. Dr. Nicolas, however, does not hesitate to record facts which seem to shake his accepted theories, if not to completely upset them. Apparently, it does not occur to these firm believers in soil and fertilizer chemicals that when they put these substances next to the roots of a Rose-bush, it does not necessarily follow that the "patient" partakes thereof. In all that we know as to plant growth, nothing is plainer than that a plant has the capacity of choice as to what it will accept by its root system, and what it will reject, and what disposition it will make of some substances it admits—in some cases simply to obtain the water in which the chemical was dissolved, so far as one may judge, when he finds the chemical packed away in neutralized storage cells after the life of the plant is ended.

Much more valuable are the accounts of the methods used in hybridizing, in the selecting of parents; and Dr. Nicolas quotes from a letter from the eminent French hybridizer of Roses, Pernet-Ducher, a declaration that his choices in such circumstances were made not for "reasons" but were the result of "inspiration." Other citations are made, notably those from the writings of Mendel. The closing forty pages of the book's text is a rich cache of priceless record and inspired surmise as to just what happens, and why, in the cultivation of Roses.

AN ARTIST'S HERBAL. By Louise Mansfield. New York: The Macmillan Company.

In selecting a title for her book of exquisite drawings in black-and-white of some two-score varieties of garden herbs in bloom, Miss Mansfield hands her would-be readers an awakening jog. Up to this present, the term "Herbal" has been definitely attached to a distinct collection of plants which form a part of the kitchen garden. Besides occasional medicinal uses, these "herbs" have contributed bitters, flavorings, and fragrances to salads, soups and stews, and other like inventions having to do with platters, pots and kettles, and the pleasures of feasting emanating therefrom.

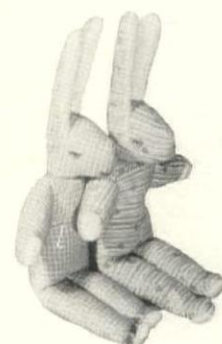
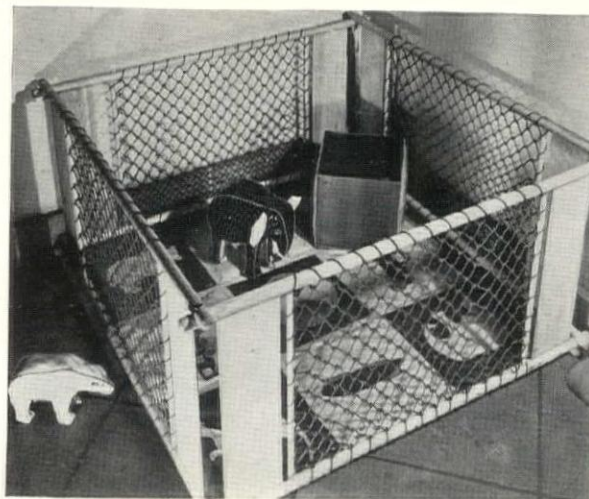
The author-artist jars us out of these deeply-rutted commonplaces by her insistence, through the excellences of her work, that garden herbs are not only odors and palate-titivating accessories of the diet—appealing especially to the sense of smell and taste. In delicate tracery of form and graceful gesture of growth they hold forth a quite different invitation to a keenly developed sense of sight, and the cultured appreciation of beauty in general—wholly apart from even the echo of a wistful appetite. In this view, the separation of this group of the herbs from the great plant multitude as subjects for her skillful pencil has no rigid *raison d'être*. Manifestly, any other group might have been portrayed with equally delightful results.

There is, however, in this age in which the decorative is the controlling art impulse, a scarcely hidden intimation to the alert designer in these herbal drawings, of their peculiar adaptability to the ornamentation of the dado, or at the base of panels in the dining hall—and Miss Mansfield is to be credited with the inspiration to such use, hidden until she held those drawings up to view.

HILL'S BOOK OF EVERGREENS. By L. L. Kumlien. Dundee, Ill.: D. Hill Nursery Company.

Upon turning the early pages of this sumptuous volume, the reader is greeted by the portrait of Mr. Hill, and is reminded that the work is to a large extent a memorial to that eminent arboriculturist, who, for nearly sixty years, gave his time and energies to collecting and multiplying such varieties of the cone-bearing evergreens as he found suitable to the climate and conditions in the United States. It is evident that the author of this book had the immense nurseries of the D. Hill Company as the foundation for his studious text—to the great advantage of the reader, who thus is introduced to a very large number of rare evergreens accumulated by Mr. Hill as a part of his personal treasures, and not mentioned in any other publication in the English language. So it happens that in the 100-odd pages devoted to the description of the nine great families of evergreens now existing throughout the world, nearly five hundred varieties are dealt with, one-fourth of which number were never before included in any similar com-

(Continued on page 80)



These toys and furnishings for a modern nursery won the praise of many of the 250,000 buyers and business executives from 72 countries, who attended this year's Spring Trade Fairs in Leipzig.

Whether the interests be toys (581 firms feature toys, games, etc.), furniture, lamps, arts and crafts—or any of a thousand and one other lines—executives and buyers for department and specialized stores find a visit to the Leipzig Trade Fairs particularly valuable. Here, in less than one week's time, they see and examine the very latest offerings—in their particular line—from the entire merchandise world. Many of the 6,000 exhibitors from 25 countries (in the General Merchandise Fairs) use the occasion of these Fairs to first introduce their latest items... new numbers, new styles, new materials... all six months before they spread to the rest of the world.

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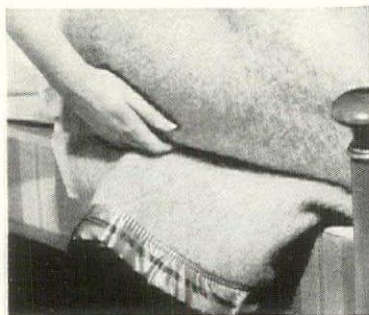
[Tips from the pages of the New Kenwood Blanket Book]



LIVE NEW WOOL is essential to warmth. For simple tests that indicate whether a blanket is made of live new wool, see page 2 of the Kenwood Blanket Book.



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HOUSE & GARDEN'S BOOKSHELF

(CONTINUED FROM PAGE 79)

pilation. An equal number of varieties not grown in the United States, also gain a place among the known and recognized cone-bearers.

Much the larger part of the book is distributed into over forty chapters of the varied information which one must have to succeed in growing the conifers from the seeds onward—so divided and arranged as to be promptly available in any circumstances.

A further charm in this inestimable

book is the profusion of plates showing the various families in color.

The book closes with a list of the fifty most important works on evergreens which have been published in the English language, some of them extremely rare remainders from limited editions—a record of moment to librarians entirely apart from the subject matter; and a fully adequate index to the prodigious amount and variety of information in the preceding pages.

NOTES ON DAFFODILS

OUT of a collection of about 200 varieties of Daffodils growing in my garden this Spring, I have selected the following that appealed especially to me. They are planted in various locations—under the lee of protecting walls, broadcast beneath old Apple trees, in open sunny stretches and mingled democratically with other flowers in the borders.

Orange Beacon—excellent for massed effects in not too windy a place.

Eskimo—to prevent the sulphur of its trumpet bleaching, plant this in shade.

Stella Pratt—belongs to the top flight of Daffies for the robustness of its orange cup, crinkled all the way down and the color laid on heavily, and for its sulphur perianth.

Mrs. Barclay—most refined and dainty, with the tinge of orange on its cup.

March Sunshine—this should be massed in quantity for a really striking effect.

Twink—while some precious Daffodil fanciers turn their noses up at doubles, I still proclaim my devotion to this tousle-headed hoyden.

Endor—a good, sound yellow trumpet.

Olympia—with its long tubular frilled trumpet I would class among the "tops".

Nobility—still has qualities and is all its name implies when well grown.

Muriel Evans—a yellow trumpet in which the trumpet seems out of scale with the perianth.

Croesus—I admire for its mingling of orange and yellow.

Dawson City—has good scale. I like it immensely for the substance and disposition of its perianth segments.

Dorine—the orange of its cup is penetrating even at a distance.

Copper Bowl—this, too, is a top-flight Daffy. I like the openness of its cup.

Fortune—which has given so many good seedlings, is still noble in itself, not alone for its color but also for its well-balanced scale.

Red Cross—another "tops", with scale perfect and delightful blending of color from orange to sulphur.

Cecily—one of the good whites.

Winsome—another good white.

Louis Capet—I admire for its daintiness.

Daisy Schaeffer—this is among the tops in my selection.

White Sentinel—one of the noble Narcissus, a white aristocrat.

Beersheba—belongs to the same class.

Lord Antrim—a pleasing, clear yellow trumpet.

Concordia—good substance and dependable.

Apotheosis—also a yellow trumpet, but it is more tubular than *Concordia* and the perianth is more loosely arranged. Both have good scale.

Brightling—this is excellent for massing under trees.

Grandese—good yellow trumpet.

Mrs. Percy Neal—a first-class bicolor. I like its deep sulphur trumpet.

President Carnot—in this case I admire the pale yellow trumpet.

Helios—a favorite for balance, for its deep yellow cup and paler perianth.

Suda—for its touch of pink around the rim of its pale yellow trumpet.

Gracious—a leader in its class.

Butter Bowl—among the tops in refined yellow trumpets.

Carlton—larger and frillier than *Butter Bowl*.

Mount Royal—another very satisfying yellow trumpet.

Ada Finch—has great refinement in the open-faced sulphur trumpet and snow-white perianth.

Bernardino—although a long time in the list can still be classed among the aristocrats without which no collection can be complete.

Moonshine—a lovely little thing that hangs its head. Almost pure white.

Her Grace—an old favorite and still dependable.

Mrs. Backhouse—is among the superb Daffies that all should afford.

Jephtha—I like the long sulphur trumpet and the yellowish white perianth streaked yellow on the back.

Jungfrau—a narrower tubular trumpet clear in color contrasting with its white perianth.

Trevithian—a collector's Daffy and dainty and graceful.

Alfred Hartley—carries a noble trumpet.

Riva—here the trumpet shades from a deep cream to a white that blends in with the white of the perianth. The trumpet, too, is ruffle-edged.

Clava—memorable for the immaculate whiteness of its perianth and the deep butter-yellow cup.

Mrs. Henry Rea—its cup is as close to scarlet as one could wish.

In addition to these I would put among the top ranks the following: *Bodilly*, *Mrs. John Bodger*, *Love Nest*, *Mrs. Backhouse*, *Yellow Poppy*, *Agra*, *Jersey Cream*, *Surfrere*, *Sherman*, *Klondyke*, *Etterick*, *Therapia*, *Loud Speaker*, *Scarlet Lancer*, *Orange Glow*, and *Imperator*. And *Imperator* deserves a sentence all to itself. In my garden under the protection of a low wall facing northeast, it lasted in good condition for over two weeks.

—RICHARDSON WRIGHT

TROPICAL GARDENS



GOTTSCHE

Ferns, Palms, Palmettoes and a host of other native plants furnish the gardener in the Tropics with a wealth of material. As a rule, it is better to use these indigenous plants than to introduce species from the North. Care must be taken not to over-plant, for tropical growth is luxuriant, as here in the Peter H. B. Frelinghuysen garden at Palm Beach, Florida

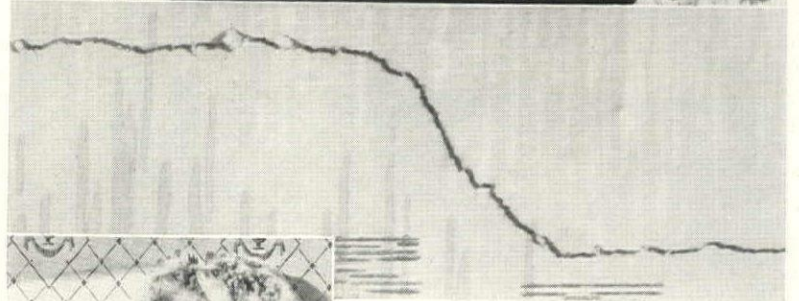
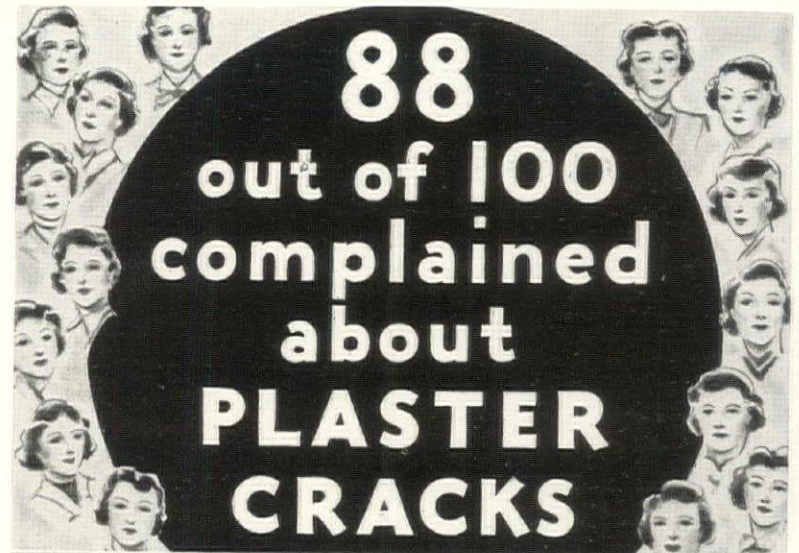
JESSIE TARBOX BEALS



Around the pool in another Florida garden a strikingly tropical effect is provided by tall, close-standing groups of Bamboo, their feathery foliage echoed by that of the clumps of Papyrus growing in the water. Besides this tree type of Bamboo, there are other species some of them almost vinelike in character



In very many instances the natural existing growth of the jungle can be utilized for the larger effects of an informal plan. Here is a case in point, where all the trees were already in existence and only rigorous thinning out and draining of the land were necessary to open the way for the long Clivia-bordered walk



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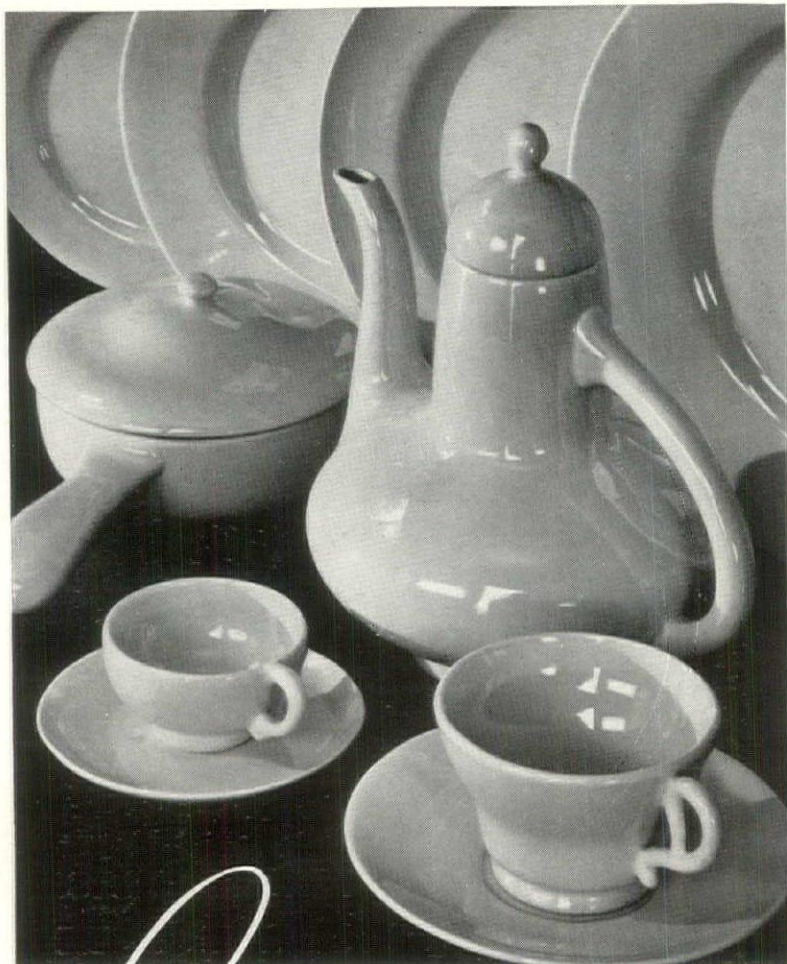
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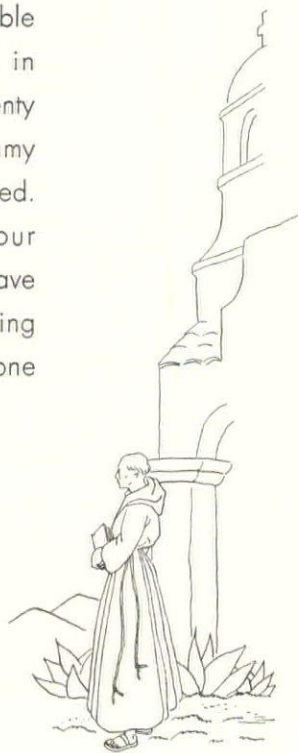
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CARPETS ON WALLS



CLEAR the floor for some real rug news. Latest developments in this field show a room with walls covered in carpeting—of a lighter, softer, and more flexible quality than is used on the floor. This covering, which captures all the luxury and charm of fabric walls of the past, affords the decorator limitless opportunities for new ideas in color contrasts and arrangements.

Highly practical, these woven walls can be cleaned easily with a vacuum cleaner. Then too, they serve as an insulator against heat and cold. Most advantageous of all are the carpet's laboratory-tested sound facilities. Since

these covered walls absorb noise, they are especially suitable for clubs, theatres, libraries, restaurants, etc., where noise is ever a disturbing factor.

In the attractive room above, Midnight blue carpet covers the floor. The walls are hung with lateral strips, from floor to ceiling, of Delphinium blue carpet, divided by horizontal moldings of painted white. This room is part of Modern House, on display at the New York showrooms of Mohawk Carpet Mills. The entire exhibit, sponsored by Lurelle Guild, is bound to start leading rug manufacturers on the road to developing new and greater uses for their looms.

COMMENTS OF A PLANTSMAN

THE last year or two, while attending various flower shows, I have noticed here and there small collections of Clivias. As always, they made a pleasant impression on me.

This feeling may be due to the fact that I am so well acquainted with the virtues of these fine old-fashioned South African plants. Aside from Cactus I don't know of anything that will withstand the abuse and neglect that they will. The fact of the matter is, I have had three of them in my house and for two years now I have noticed that all three plants are quite badly infested with woolly aphids. But they just can't do a thing to my Clivias.

We pay very little attention to these Clivias. A north, south, or eastern window doesn't seem to make any difference. When we go away for two or three days they just aren't watered and are never any the worse for it. In the Summer, when we close the house and go East, we merely plunge the pots in the garden in a shady place and leave them there until we come back. What little moisture they get is whatever rain happens to fall at that time.

As a pot plant for a house or a cool greenhouse or a conservatory I do not think the Clivia has an equal. The handsome, strap-like leaves are always rich and green and pleasant to look upon. An occasional sponging off with a little lukewarm water, say once a month, keeps the foliage in perfect condition; and, when late in the Winter the sturdy flower spikes rise above the foliage with big heads of orange blossoms, I believe there are few house plants that are as handsome.

Clivia minuata is the common species, but in the last few years several

new hybrids have appeared. Scarlet Gem and F. E. Arnold are two of these, and just recently in England a variety by the name of Fay, with clear yellow flowers, has received much attention.

The requirements of Clivias are exceedingly simple. An ordinary good fibrous loam with a little sand for drainage is all that is required. They are like so many of the Cape plants—the more you neglect them and the less you repot them the more freely they seem to bloom. When they become overcrowded they should be moved into larger containers. Shake all the old earth out of the plant and repot, and the change-over and the shaking out of all the earth from the roots do not in any way affect them.

If you want to get the most out of them, they should of course be kept growing vigorously during the Summer. This is best done out in the garden in shade. In late Fall before frost, bring them inside and keep fairly dry so they will "rest". Assuming that you bring your plants into the house during the middle of October, refrain from watering heavily until the middle of December. After that, increase the amount of water and within about six or eight weeks the flowers will begin to appear.

It is too bad that this plant has been neglected so long. Our overheated houses and apartments and, in many instances, too dry an atmosphere, raise havoc with house plants. Clivias, however, I know from experience, will not only live but thrive under such conditions. Another point worth mentioning is that their graceful lines and foliage blend exceptionally well with present modern decoration.

—J. J. GRULLEMANS

GLASS

(CONTINUED FROM PAGE 54)



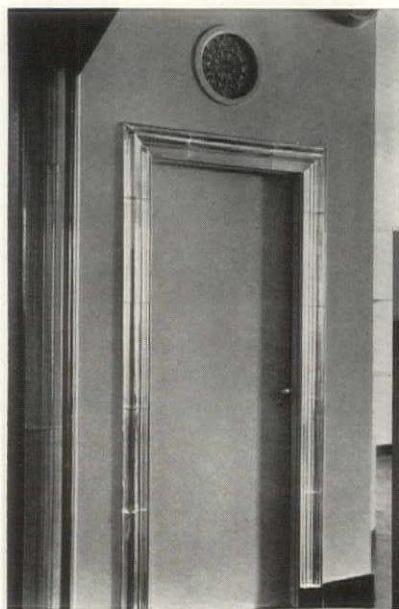
THIS roof terrace, designed by Donald Deskey, and a prize winner in the Pittsburgh Glass competition, combines window glass with both hollow and solid glass brick

well as to the heavy, opaque panels of flat glass used as wall surfacing material in kitchens, bathrooms, and elsewhere. Structural glass brick may be solid or hollow. Solid types are used almost exclusively for decoration, in the manner of tile; hollow types are much more generally used, owing to their comparative lightness and to their insulating properties. (It should be noted, however, that these insulating properties are not effective against solar radiation—the heat of the direct rays of the sun.) The increasing popularity of hollow glass brick has encouraged manufacturers to develop a variety of sizes and patterns to suit every requirement; all types are laid in mortar, like brick, and all types support their own weight when used in wall construction. Glass brick has many practical and decorative applications, owing to its translucent brilliance and lovely pattern. The fact that one cannot see through this brick

adapts it to many applications where a transparent glass would not be so successful—for example, when an unattractive view threatens to spoil the effectiveness of a charming room. The same undulations in the glass which obscure vision also serve to deflect the rays of light in all directions so that light entering through a panel of glass brick is diffused over a broader area than would be the case with an ordinary window.

The other main type of structural glass—that used for surfacing the walls of bathrooms, etc.—is almost too well known to need much comment here. Being impervious to moisture and easily kept clean, it is an ideal wall material where these qualities are important. It is, of course, available in a range of colors so wide that the demands of any decorative scheme can easily be met, and is supplied in conveniently sized panels which are readily

(Continued on page 84)

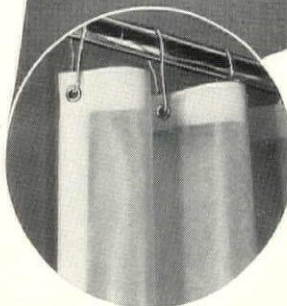


LEFT: beautifully framed in clear, molded glass, this door is mounted by a glass grille of the type used for ventilating or for illumination. Courtesy of Corning-Steuben



RIGHT: a large glass mirror used to increase the apparent size of a small bedroom. Glass is the smart note in much modern decoration. Courtesy Pittsburgh Glass Institute

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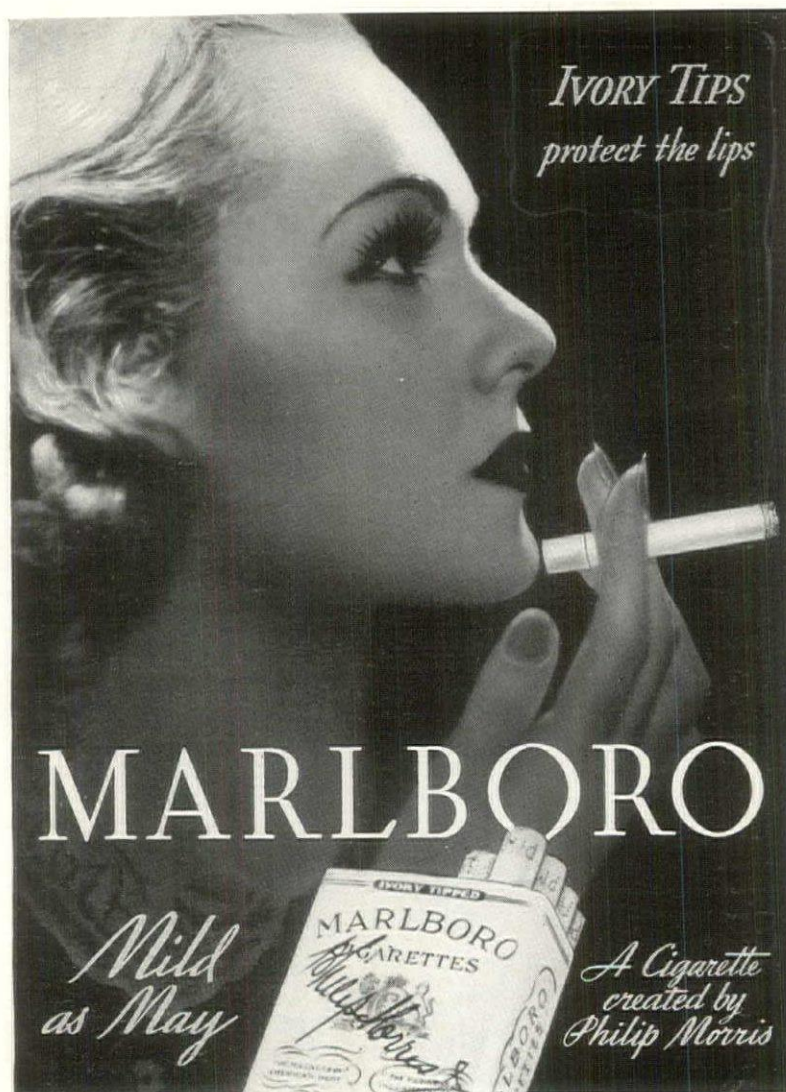
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GLASS

(CONTINUED FROM PAGE 83)

attached to the substructure of the walls. It has the durability of tile, plus the brilliance, color and flawless surface which is found only in glass.

Mirrors are, perhaps, the most fascinating of the many forms which glass may take, so it is scarcely strange to find leading designers and decorators everywhere using mirrors in a hundred different ways. Large mirrors are often used in small rooms, to increase the apparent size of the room. A mirror will do wonders for a dark wall, giving it interest and life at the same time that it brightens it. And now, of course, we have mirrors of colored glass in such shades as gun metal, light or dark blue, flesh, light chrome and amber. These are finding interesting applications in interior designs where they meet special decorative requirements.

Mirrors are sometimes decorated by painting or by etching. Designs to be painted on mirrors are applied to the back surface of the glass, which is afterwards silvered in the usual manner. Designs to be etched in glass are executed either by the use of an abrasive, like sand, which cuts the pattern to the desired depth, or by the use of acid, which serves the same purpose. The etching process is also used in applying decorative patterns to structural glass wall panels, and to decorative glass lighting units, etc.

Decorative glass is a comparative newcomer to the architectural field; but it promises to become an important item in the decoration of the home. At

present, this new type finds application in pilasters, friezes, caps, grilles, lighting fixtures, moldings, balusters and railings. These uses, varied as they are, bring home to us the fact that glass, in its molten form, is a plastic medium which may readily be molded into an infinite variety of shapes and patterns which, in turn, may then be variously illuminated to produce any effect, from scintillating brilliance to a subdued lustre of exactly the required tone. Some manufacturers have available stock patterns which are carefully designed and well adapted to average applications. Special designs can be made to order, the comparative expense of this procedure being due to the necessity for making a special mold. If enough pieces are required to be cast from this mold, the cost per unit decreases proportionately.

Decorative glass and lighting are a natural combination and one which will require a separate article in order to treat fairly the interesting possibilities involved. The fact that glass is transparent or translucent, transmits, diffuses, deflects, or reflects light-glow and sparkles like a jewel, or ripples with a liquid brilliance—these qualities set glass apart as the natural accomplice of light in architecture and decoration. And every outstanding new home or new interior gives evidence that our architects and decorators find more applications for glass, in all its forms, than for any other single material used in these fields.

BOOKLETS FOR THE ASKING

(CONTINUED FROM PAGE 25)

FENCE MATERIALS for Bird and Animal Enclosures is a complete catalog, with all prices, of wire and steel fencing of many different types for many different purposes—from Porto-pens for puppies to big installations. BUSSEY PEN PRODUCTS CO., DEPT. G-9, 1500 SO. WESTERN AVE., CHICAGO, ILL.

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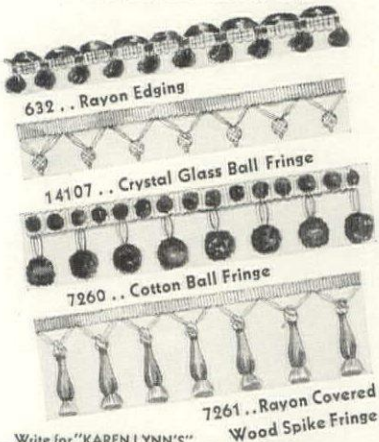
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DOUBLE TULIPS

(CONTINUED FROM PAGE 42)

Double Tulips may be planted in clumps about the beds and borders and, incidentally, they remain in good condition, if the soil is good in the first place, for many years without lifting. Mt. Tacoma, a semi-double white variety sent me long ago by Mr. John Scheepers, has been in place for eight years. It grows near a Pear tree with which it flowers, and about it have come without my agency a misty collection of Siberian Anchasas, *A. myosotidiflora*. The flowers are not quite as large as they were at first, but this is a picture I look forward to from year to year. The modern double Tulip, being stout of stem, also makes a fine bedder, and though it is not quite so tall as some of the Darwins and Cottages, it creates a very rich effect.

You may be among those who do not like double flowers; I like single ones better myself, but in the garden it does not do to be too hard and fast. An open mind lets in many a pleasant surprise. Among them, I believe, for many persons, would be the double Tulips, either May-flowering or early.

Here is my list. They started with a grand burst on the first day of May, and a month later some of them were still flowering. For those who like to know their colors exactly I have matched the petals as nearly as I could to the dead hues in Ridgway's *Color Standards and Nomenclature*. But what little square of color on a bit of paper can give any real idea of the sheen, the luster, the velvet-softness, the liveliness of a flower, much less of that changing, scintillating flower we call a Tulip?

THE EARLIEST ONE

Mount Tacoma flowered late in April. When first planted this was an immense Tulip, white with a faint yellow suffusion at the base of the petals. It is shallow, flattening out when the sun falls on it and having something the appearance of a semi-double Peony. The sky-blue flowers of *Anchusa myosotidiflora* are perfect with it, whether cut or in the garden. Its height is about twenty-two inches.

On May first the following six were in bloom:

Allegro, an immense flower carried on a tall, strong stem. In the color chart it comes nearest to "Pomegranate Purple", but this gives no idea of the liveliness and lusciousness of its hue.

The edges of the petals feather into white and, in the mass and when wide open, the white edges of the petals are very conspicuous. Because of its upstanding habit, it makes splendid beds, which would be nice before a white house.

Ros van Saron, a less fully double flower, smaller and flatter than the foregoing. It also is a bicolor flower with white edges, but I can find no color in the chart that approximates the lovely hue of the body of the petals unless I call it light "Pompeian Red" feathering into "Jasper Red". The anthers are very dark and show when the flower is wide open. It has no scent, and is handsome in a white pottery jar.

NEAR FLOWERING ALMONDS

Negus, a medium-sized flower and semi-double, which has the texture of velvet and a hue that more or less corresponds to "Bordeaux". It is a richly glowing flower with the base of the petals white feathering into a blue zone. It has black anthers, no scent—and is a lovely sort to place near groups of pink Flowering Almond bushes.

Snow Ball, as its name indicates, a white Tulip, further earning its nomenclature by being round and very double. The anthers are white and in the center of each petal is a faint greenish or yellowish feather which only serves to accentuate the purity of the flower. It is a fine kind to cut and goes especially well with the single golden Jew's Mallow.

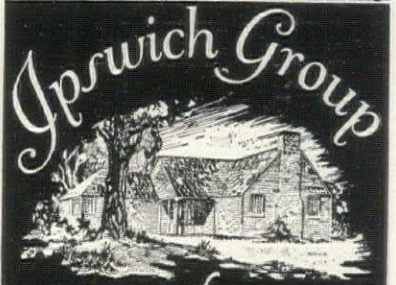
Coxa, a closely doubled flower but shallow. The petals are short, and it is one of those strangely blended flowers in which Tulips deal so largely—"Nepal Red" with tones of scarlet and orange, rich and glowing. At the base of the petals is a yellow splotch containing a green one. Beds of it on a sunny terrace are magnificent but, though described as fragrant, it is not agreeable to my nose.

Uncle Tom, an immense flower that opens out widely showing its yellow, olive-feathered petal bases. The body of this magnificent flower is "Morocco Red" and the petals have an especially fine polish. I have some early blue Siberian Irises that are perfect with it.

Then, on May fourth, flowered the following:

Ottawa, not an immense flower but
(Continued on page 86)

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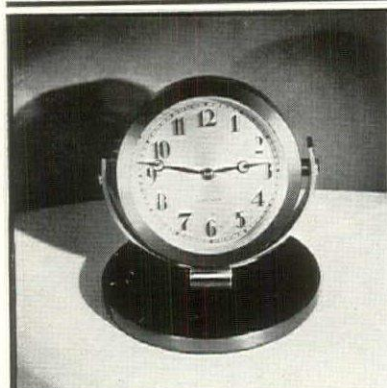
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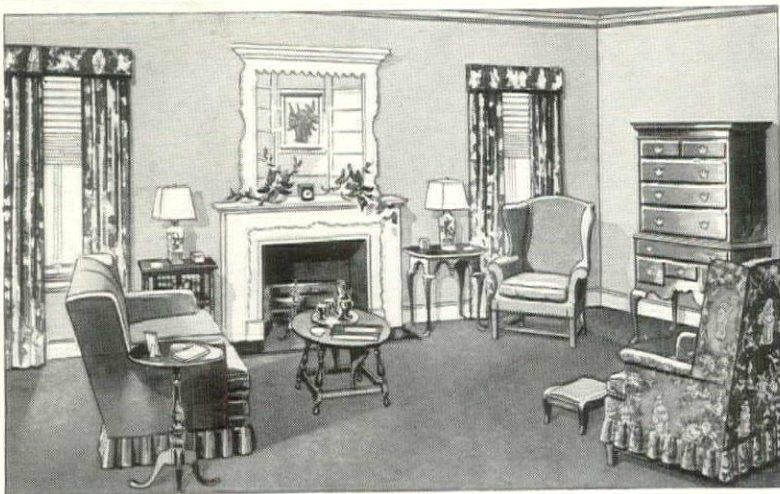
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DOUBLE TULIPS

(CONTINUED FROM PAGE 85)

large enough, on stems about twelve inches high, a neat flower of a good pure yellow tone, "Wax Yellow", some of the outer petals feathered emerald, the anthers black. It is nice in front of white Spiraeas with a foreground of *Phlox subulata* G. F. Wilson. It has a pleasant Rose-like scent.

Pavo, a smallish, well-formed flower in a tone somewhere between "Tyrian Pink" and "Rose Pink"; base of petals white, anthers primrose, no scent. Beds of it over bright pink English Daisies would be enchanting. A very long-lasting kind.

Epicure, which is nearest to "Peach Red" but has brownish shadowings and a greenish yellow blotch at the base of the petals. It has a lovely subdued tone and a flat finish and grows on a tall, strong stem, though the flower is shallow and not over-doubled.

On May sixth there opened:

Lord Derby, a symmetrical flower of medium size, its color "Spinal Red" feathering into a narrow white edge, with a lovely lustrous quality.

Hermer, a plant of rather dwarf stature and a smallish flower, but nicely shaped. The petals are "Rosaline Purple" with a very narrow white edge, the outer petals having some green marks, the base white with blue halo. Leaves distinctly gray.

Trixy, an open, shallow flower, bright "Pomegranate Red", fading at the edges of the petals to pale pink.

Livingstone, a remarkably effective variety, rather small but bearing several blooms like miniature Peonies on each stem. The color is somewhere be-

tween "Spectrum Red" and "Rose Red" and the outer petals of some of the flowers are lightly feathered with sable. I think, of all the double-flowered Tulips I have grown, it is my favorite. Try it with a foreground of the pretty pale pink new *Phlox subulata* Appleblossom.

Another, Cherry Blossom, has immense flowers on graceful stems. The color is "Eugenia Red" feathering into pale yellow and on to cream; the base of the petals is yellow and there is a creamy stripe down the center. The fragrance of the flowers scents a whole room. Try it with a foreground of *Alyssum saxatile citrinum*.

Mount Everest began to bloom on May tenth and lasted nearly the whole month in good condition. It is a light pure pink in color with no hint of salmon, but having indefinite pale streaks on the well-rounded petals. It is a large, wide, flat flower and fragrant, and the outer petals are marked with emerald. It is lovely with Appleblossoms, and with Anchusa or Forget-me-nots crowding about it. The shape of the flower is something like that of the old Cabbage Rose.

Pensee Rose is almost too large for beauty. It is "Spinal Red" in color, the base of the petals with a violet and white zone. It is so heavy that it bends its stout stem. A bold mass near a pink Dogwood tree is effective.

Many of these are worth trying and some of them are certain to bring pleasure with them, even if they are only planted in rows in the vegetable garden for cutting.

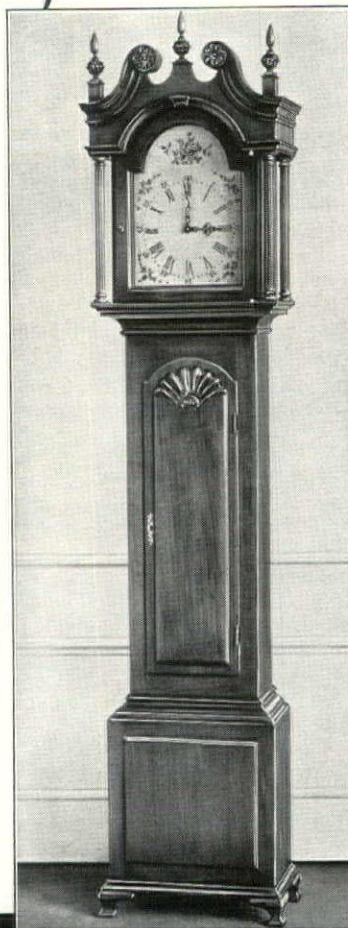
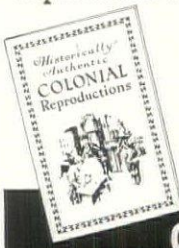
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WHITE DAFFODILS

(CONTINUED FROM PAGE 35)

having a delicate tint of soft pink shading down from the edge of the cup. I saw Tunis growing especially well in the Berkeley, California garden of Prof. Sydney Mitchell. Riva seems to be a grand doer in every locality. The huge white Tenedos grows so lustily that it needs a very slim diet. These varieties are all so strong and vigorous, with tall stiff stems and flowers of perfect form, splendid substance and fine clean coloring, that they are equally good for garden or show table.

The short-crowned Leedsii have such exquisite varieties as the green-eyed, pure white, stately Cushendall and Samaria, both expensive and rare. Silver Salver is very lovely and not so costly. Mystic, fresh in color like an Apple blossom, is fortunately such a rapid increaser that it has become quite cheap. Addio, a dainty little flower with a flat primrose crown, is the very last flower to bloom in my Michigan garden and extends the Daffodil season from the middle of March when the tiny species Narcissi begin to bloom until the very last day of May.

It is interesting to note that if a hybridizer wishes to produce a trumpet Daffodil, he must use only trumpets as parents, since a trumpet variety crossed with a trumpet always gives trumpets and never any of the intermediate forms with shorter crowns.

One of the whitest of the species which went into the originating of better white Daffodils was a rare little species called *moschatus*, found high up on the Spanish side only of the Pyrenees mountains. This species has a most unusual form with petals drooping closely over the long, wide crown. It took generations of selective breeding to overcome this floppy perianth until today we have several varieties with the petals standing at a perfect right angle to the crown and of thick, waxy, glistening texture of lasting substance.

The older variety, Mrs. Krelage, opens cream but turns a nice white. Eskimo and White Emperor are fine white Daffodils, reasonably priced. Kantara, Nevis, Moray and the wonderfully pure white outstanding Beersheba are varieties of the highest quality and medium in price.

Another species which gave an even whiter heritage to its offspring was the tiny *Narcissus triandrus calathinus*, with its goblet-like cup. These triandrus hybrids are very beautiful and many of them give the effect of small white Orchids grouped along a stem.

These white Daffodils are of such good constitution and refinement of form and graceful beauty that they make splendid adornment for the garden. I firmly believe they are among the finest if not the very finest flowers for exhibition purposes.

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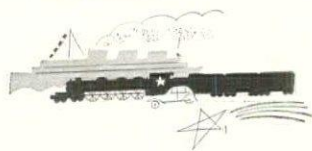
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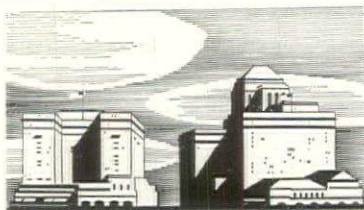
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(CONTINUED FROM PAGE 67)

havens for modern children of the Sun who dote on broad beaches and fine swimming. We may stop at a pension along the waterfront, but once we don our swimming suit, we live on the beach.

The real excitement belongs to Viña del Mar itself. Here we find the flair of excitement, the note of smartness, that is typically Chilean. The hotel is the incongruously named O'Higgins, and the place to go is the Casino, where, in addition to lavish gambling paraphernalia, to out-Broadway Broadway, are great murals by a New York decorator, and three bands playing at one time. Here we will meet the aristocracy of the West Coast—beautiful women who know London and the Continent, men who know Ascot and Auteuil, and who still prefer the course of the Valparaiso Sporting Club at Viña. And if we meet some of these hospitable Chileans, socially, it is likely that we will receive an invitation to their lofty homes, perched on cliffs overlooking the Pacific.

A day's trip from Santiago takes us to the Chilean lake district. We stop at Osorno, surrounded by quiet, scattered towns, and the lofty snow-covered peaks, Calbuco and Puntagudo. The accommodations are simple but the food is good and the breath-taking scenery makes up for the lack of excitement. And so beautiful is the chain of lakes that stretches far across into the Argentine that it's a ten-to-one shot we'll send back to Santiago for our heavy luggage and push on by lake steamer and rail to Buenos Aires.

Travellers liken the west coast of South America to the west coast of our own country. Chile reminds them of California minus Hollywood, and Peru is like old Mexico. But Buenos Aires on the east coast is like no one

place. It is New York, Paris, Barcelona, rolled in one. It is rich, gay, active, supremely social minded, and because the Argentines themselves are enthusiastic travellers, they extend a hearty welcome to a stranger with the proper clothes and a passable letter of introduction.

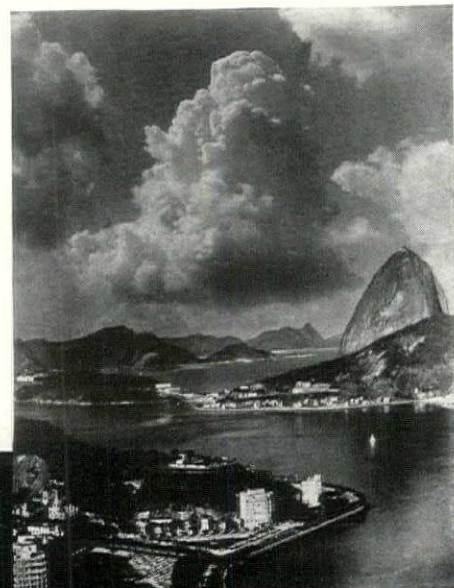
Although the Buenos Aires opera house is much pink plush, its audiences enjoy many of the world's outstanding artists during the July season when the Metropolitan and La Scala are shut down. If you ever wondered, walking in Paris through the Place Vendôme, where they sell the fabulous parures of rubies and emeralds in the jewellers' windows, here is your answer. They will appear at the Jockey Club Ball at Buenos Aires against the dark and lovely throats of the Argentine señoras and señoritas.

The food in Buenos Aires is superlative. Dinner is six or seven courses; luncheon four or five. There is not much drinking, and in conservative Argentine homes, the lady who takes Scotch and soda may be frowned upon. Whisky is for the men, fruit punch for the ladies. Cocktail parties are the rage, but they begin at seven, with dinner served at nine. High tea at five, therefore, becomes a real necessity.

The Argentine's wealth comes out of the soil, and the great families stay close to it. In the winter season—June and July below the Equator—they open their great houses in Buenos Aires. In midsummer—January and February—they pitch their bathing tents at Mar del Plata. The favorite pastime is raising horses. Make no mistake—it's an art, not a hobby. And their stables house some of the finest mounts in either hemisphere. Hence their true homes are the great ranches, of which

(Continued on page 90)

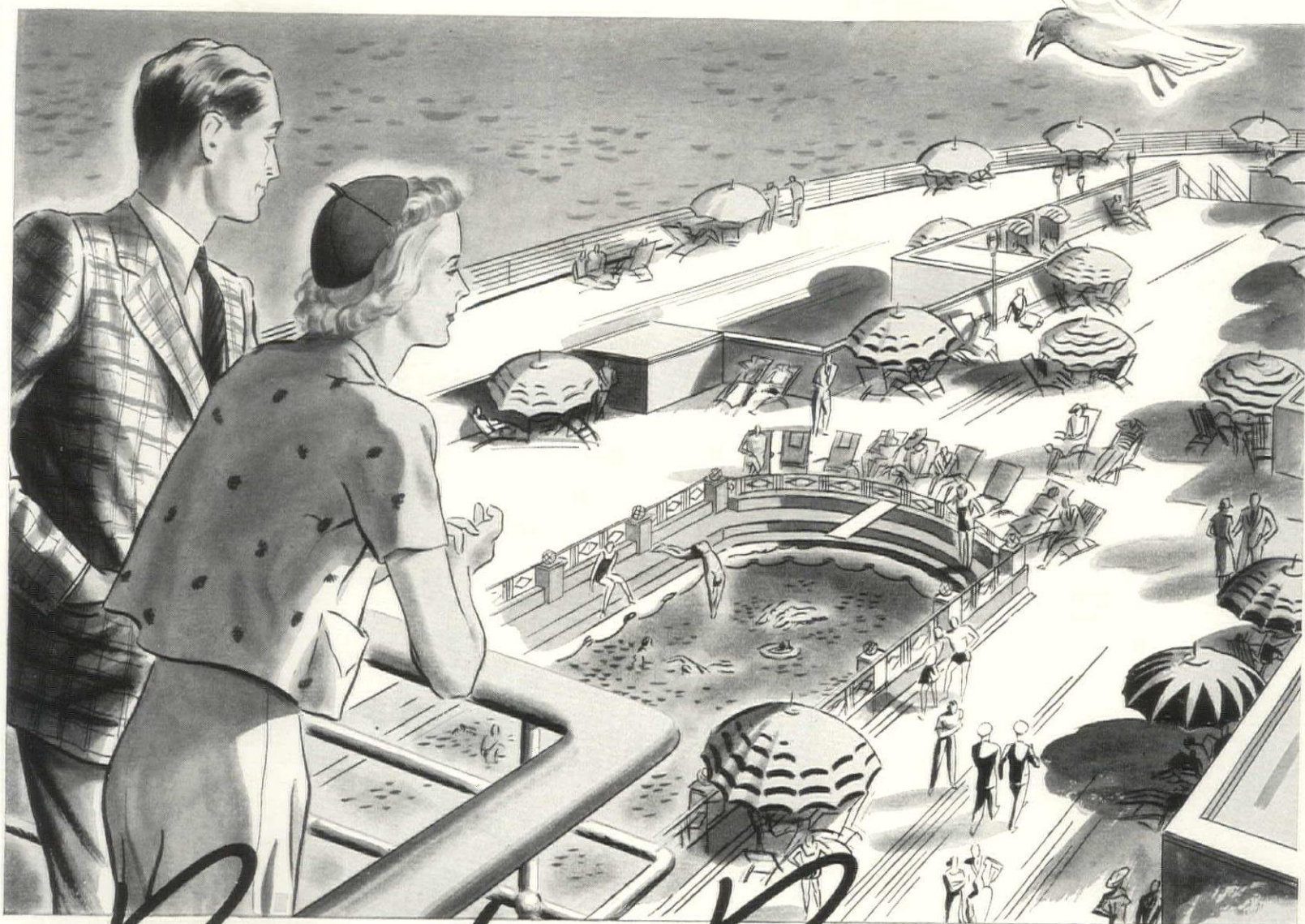
Rio—by day and by night. The white dot above the city is the floodlighted statue atop Corcovada.



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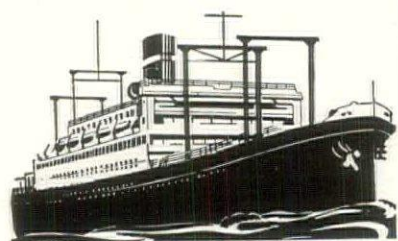
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(CONTINUED FROM PAGE 88)

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Paraguay, torn by recent wars, and the neat and compact Republic of Uruguay have their own attractions to detain the traveller, and then, to the north, is Brazil, luscious and enchanting. The tempo of life is less strenuous than in the Argentine, for here the antecedents are Portuguese, rather than Spanish. After the machine gun rattle of Argentine Spanish, a conversation of Brazilians, speaking their national Portuguese, is like the low hum of bees on a summer day.

The harbor at Rio, for all the superlatives you have heard about it, and all the pictures you have seen of it, will still come to you as an unreal dream. No harbor could be so blue, no town so white and green, no soaring mountains rise so sheerly from the sea.

The climate of Rio is remarkably mild, and almost changeless, but it is not good manners to say how warm the weather is in June. That is their winter, and they observe the season jealously since they don't want to be known as a tropical country. A woman will endear herself to them forever if she wears furs in July.

The road to Petropolis, the summer resort of Rio, and summer headquarters for the government, twists and squirms up the edge of cliffs behind the city. Poinsettias flame against white plaster

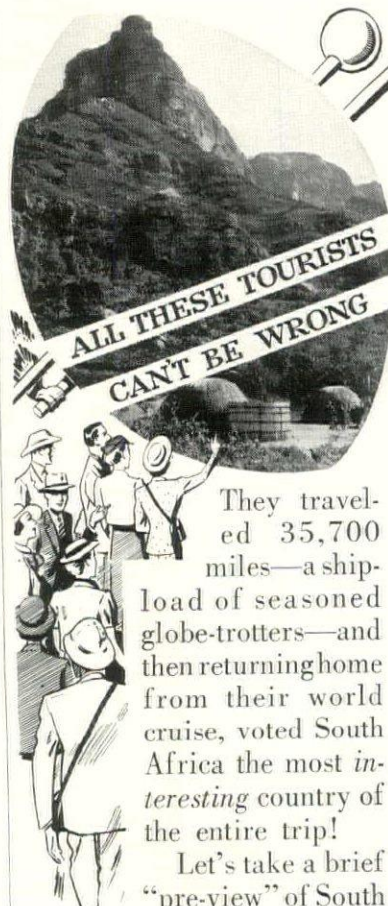
walls, and you wonder how such exotic flowers ever came to be a symbol of snowy northern Christmases. You may also drive up to Corcovada, a summit behind the city, where there is a massive statue of Christ, arms outstretched. At night it is floodlighted and stands out stark and white in the darkness like a mighty cross. On the way up you will see orchids growing in the forest trees. They are so plentiful that the hotels use them for centerpieces on the tables, but if you see a lady come into the Casino wearing a shoulder-load of carnations you may raise your eyebrows a little.

Sao Paulo, the big commercial city of Brazil, is high on the inland plateau. It bustles with commercial activity and civic pride for the "Paulistas" are the go-getters of Brazil.

Down on the coast lies Santos, greatest coffee port in the world. The edge of the city is always heavy with an aroma like after-dinner coffee. A group of men, arguing in the street in front of a four-story building, will prove to be a coffee brokerage. Bags of coffee are slid onto waiting ships on an endless belt conveyer, while crates of Fords and Chevrolets are swung off.

But even here, for all the commercial achievement, life moves at a slower pace. No one will resent it if you call off golf and tennis, to sprawl on a beach while the world's whitest sand slips through your fingers, and you dream of new worlds to conquer.

—ROBERT W. CARRICK



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GARDEN MART



BULBS AND OTHERS

With September comes the actual start of the fall planting season, although the real peak of activity will hardly be reached before October. Narcissi and most of the smaller bulbs are better planted in September, and so too with the seedling perennials which are large enough to be set in their permanent places. Planted now and mulched after the first hard freeze, they are not likely to be harmed by the cold weather.

Generally speaking, people do not pay enough attention to the soil in which their hardy bulbs are set; these plants, like other types, need nourishment. Bone meal is probably the safest fertilizer to use for all kinds of bulbs, and is one of the best in the majority of soils.

WATCH THE SEEDS

In the flower garden, September means the removal of all seed pods from the plants that are not intended to self-sow; otherwise you are likely to have a bad clutter on your hands next spring. Where new plants are needed, the best plan is to buy them direct from reliable growers, such as those who advertise their specialties on this page.

HARDY PLANTS

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You, too, can have a lawn that stays fresh and green all summer, that is free from brown spots and requires a minimum of attention—if you build your lawn on a sound soil foundation now.

September is the best month for building new lawns and renovating old ones. The nights are cool, the precipitation of dew is heaviest, and the grass has an opportunity to become firmly rooted before it must fight crab grass and weeds next spring.

The best way to insure lasting beauty in a lawn is to condition the soil thoroughly with well-moistened Emblem-Protected Peat Moss, before any seed is planted. This promotes a deep-rooted turf by providing a reservoir for moisture and plant food in the root area where it is needed most; it also saves on watering next summer.

Our new bulletin on "Lawns" tells how you can easily build a lovely lawn that will live for years to come. Send for your copy today. It's free. Just address Dept. HG-9, Peat Import Corporation, Educational, Advertising and Research Div., 155 John Street, New York, N. Y.

EMBLEM-PROTECTED
PEAT MOSS

PLANT NOW
Beautiful
MADONNA LILIES
(*Lilium Candidum*)
10 bulbs for \$1.50
SELECT FIRST SIZE



The loveliest of the white lilies, especially effective growing with delphiniums.
\$12.00 per 100
Bulb Catalog on request

Stump & Walter Co.

132 to 138 Church St. Dept. H, New York

Brand's PEONIES NEW CATALOG NOW READY

Beautiful new fall catalog now ready. . . . Featuring Brand's Prize Winning Internationally Famous PEONIES . . . Also Brand's Own Root FRENCH LILACS from the World's Largest Stock . . . Choice IRIS of standard and up-to-date varieties . . . Hardy Horticultural Novelties, etc. . . Brand's Peony (Mrs. A. M. Brand) won "Best Flower in the Show" at the 1937 Minnesota Peony Show.

BRAND PEONY FARMS, Inc.

133 East Division St. Faribault, Minn.

A KITCHEN GARDENETTE

(CONTINUED FROM PAGE 47)

With a weather eye to upkeep, the planting plan has been worked out to the nth degree, and no commercial florist ever took greater count of the yield per square foot of space. Two Grape vines, one Caco and one Niagara, are sufficient, for in the main garden there were always so many Grapes one never had time to bag any. One Peach tree and two Pear trees are espaliered against the north wall—a method one always wanted to try, but in the orchard the thought of it seemed to stretch to an indeterminate fruition. Here are visions of large, perfect fruit grown to be picked when some distinguished guest arrives, or perhaps to be saved for the visit of a rival gardener to whom one can say with pardonable and ill-concealed triumph, "Yes, I grew this".

On one medieval seat of Thyme is a dwarf Apple tree, on the other a Plum tree, and if the urge for experimenting with grafting is persistent enough, a variety of Apples and Pears can be grafted on the Apple tree and Peaches can be grafted on the Plum. Four vines of Gourds will give a plentiful supply of effectively striped fruit which is so decorative on the table when carefully dried and polished; besides, their blossoms are beautiful and greatly appreciated by the bees.

Two Gooseberry bushes will supply the winter roast beef with spiced Gooseberries. Six Tomato plants carefully selected will yield enough fruit for many a gay and colorful salad. A few plants of well selected herbs will

add zest to any roast, sauce or cool drink. And last but not least, a few sets of Garlic, for Garlic is always that item on the market list too small to remember but too subtle to do without in the salad dressing or in a jar of ripe olives.

Successive plantings of Lettuce, Chicory and Romaine, carefully grown in a cool spot where the spray of Bordeaux is neither permitted nor necessary, will add last minute crispness to many summer dishes, including the ever-delightful green salad.

Flowers can be had for the table from two Polyantha Rose bushes, Gloria Mundi, and from the edging of white Clove Pinks; and there are always enough Centaureas on hand when the crucial moment arises for a bachelor's boutonniere. Over the kitchen door and window, if the situation permits, might grow Climbing Rose, Honeysuckle and Clematis, giving fragrance the season through to compensate for the odor of cooking Cabbage when one has forgotten to put in that heel of bread, or to soothe the conscience for letting the cookies burn.

There is always sufficient space to tuck in a few extra pet plants or a second crop of Radishes. Summer is bountiful enough in this little garden, and its fruit may grace the Thanksgiving table by packing a few Grapes in saw-dust, wrapping some prize Pears in tissue paper, and sealing the ends of the most beautiful Rose buds with wax to be kept perfect in an airtight container.

Fall Flowering

PLANT THIS FALL



CROCUS

BLOOM THIS FALL

In just four weeks—in the latitude of New York—this fall flowering CROCUS ZONATUS will burst into showers of light lavender blossoms to prolong summer's beauty through October and November, and again next year. First size bulbs only, 12—60c, 100—\$4.00, 1,000—\$36.00.

Schling's Bulbs

Max Schling does not compete with inferior quality.

RED EMPEROR TULIP

Max Schling's own specialty

This new giant of all tulips is a real rarity—only a small number of bulbs were released by our Holland grower. There will be enough for a limited number of gardens, where these flaming crimson blooms will rise majestically above the heads of every other tulip. Orders filled as received. 85c each, \$9 a dozen, \$70 a hundred.

Max Schling Seedsmen, Inc.
Madison Ave. at 59th St.
New York City



Horsford's **MADONNA LILIES**
For June Garden Beauty

Ready in late August for Fall planting—loveliest of lilies, snow-white, stately, fragrant, bloom profusely, live for years in open, sunny spaces. Large, solid. North-of-France bulbs 25c each, \$2.50 doz., \$18 per 100.

REGAL DELPHINIUM

(Hardy Larkspur). Mostly large double blooms, pink to deep blue, long spikes, compact growth, one of the finest strains, 25c each, \$2 doz.

Send for Autumn Supplement

Featuring collections of Peonies, Iris, Lilies, Oriental Poppies, Perennials. Mailed Free.

F. H. HORSFORD

Route 10
CHARLOTTE, VERMONT

Madonna
LILY
of
FRANCE



Plant Now

3 for 75¢ 12 for \$2.50

The best Madonnas are grown in the North of France. There's where Wayside's come from. It's one of the loveliest of all the white lilies. Known and loved literally throughout the world. Its delightful fragrance and chaste lovely white flowers have made it a universal symbol of purity. Plant in a sunny spot in groups of three. Combined with pale blue Delphiniums they are a picture. Mingled in your Hardy border they are effective points of gleaming white contrast.

New Bulb Catalog

Send for new Bulb Catalog containing the largest assortment of Tulips, Hyacinths, Narcissi and Lilies offered in this country. Also a choice collection of Iris, Peonies, Poppies and Hardy Plants for Autumn planting. Many illustrated in colors. No matter what bulbs or plants you get from Wayside, all are top size.

Wayside Gardens

Imported Dutch Bulbs

30 Mentor Ave., Mentor, Ohio



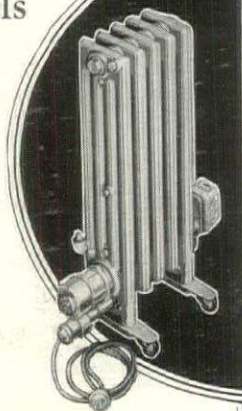
Your Trees are just so much "Green Gold"

Any realtor will tell you that a fine old tree can add hundreds of dollars to the value of a piece of property. Shouldn't it be worth just as much to you? Take steps now to protect your investment in "Green Gold." Have the Bartlett Representative check up on the need for Bracing and Cabling, Cavity Work, Root Treatment, Feeding and Spraying. No obligation—and no cost to you to find out what attention your trees need, now or later. Bartlett Service is available in every community from Maine to the Carolinas. For literature and full information, write:

The F. A. BARTLETT TREE EXPERT CO.
Laboratories and Main Office
STAMFORD, CONN.

BARTLETT
TREE EXPERTS

Handy Heat on Wheels



FOR those cool days, and damp ones too, in early Fall, when for an hour or so you want heat, this portable steam electric radiator is just the thing. Ideal for bathrooms, especially for baby-bathing time. Just plug the cord in and in a jiffy heat is yours. Comes filled with right amount of water ready for immediate use. Is thermostat controlled. Also has automatic current shut-off, insuring economy and safety. Being on casters can be easily moved from one room to another. It is a regular little high efficiency steam plant. Made in 4 sizes. Send for special printed folder giving full particulars.

Burnham Boiler
CORPORATION
Irvington, N. Y.

Fall Planting

YOUR PLANTING needs in finest grown, high grade ROSES (new and popularly known varieties) Old Fashioned Roses, Evergreens, Azaleas, Rhododendrons and other nursery plants described in our New Fall Catalogue, ready about September first.

**BOBBINK
AND ATKINS**
Nurserymen

Rutherford, 23, New Jersey

Copy on request. Send fifty cents if west of Mississippi.

TRENDS IN ROSES

(CONTINUED FROM PAGE 36)

coral. A very striking variety. Its Rugosa blood insures arcticness.

Smiles (America). A lovely variety deserving the name, for "it smiles at you". Flowers in great masses all the time, semi-single but of long duration, salmon pink.

Snowbank (America). The buds are coppery, opening with a blush and turning white, staying for a long time and giving the illusion of a perpetual snow drift. A very persistent bloomer.

White Aachen (America). A sport of the original Floribunda, Gruss an Aachen. Buds are yellowish opening to semi-large, full, pure white blooms.

The method of culture of Floribunda Roses is simple. No pruning is necessary, although it is advisable to reestablish the symmetry of the beds in the spring by cutting back all the plants to the same height. This height may be regulated by the effect desired, either low, medium or high. Foliage is as near immunity from diseases as hybridizers have ever been able to produce, but a casual spray, especially during a wet period, would help maintain a beautiful foliage.

As a planting of Floribunda Roses is destined to be permanent, the beds should be carefully prepared to afford proper root conditions for a number of years. Deep trenching would be advisable with a layer of six inches of rich cattle manure (not rotted) at the bottom and filled with a good garden soil of chalky clay type which will "love" and stick to the roots.

Looking ahead along another branch of the great Rose family, we find that the Hybrid Tea still remains supreme for cut Roses. Among the novelties from all sources scheduled for introduction in '37-'38, nine have arrested popular attention and have been declared the "Hybrid Teas of the year":

Alice Harding (France). The perfected Souvenir de Claudius Pernet. Color is rich sunflower yellow, uniform and without shading, on which the sun has but little effect. An exhilarating perfume adds to the blossom's beauty. Excellent cut flower but also an ornamental garden variety because of its steady production. This Rose was dedicated to Mrs. Edward Harding of New Jersey by the French National Horticultural Society as a gesture of appreciation for Mrs. Harding's interest in French hybridizers of all flowers. The

Society opened a contest and the winning Rose is a product of Ch. Mallerin, the great French hybridizer.

Jean Cote (France). An unstained, unmixed product of the original Pernet-Ducher strain developed by Pernet's successor, Jean Gaujard. An opulent Rose, large and full to the center but of gracefully imbricated form. Clear orange apricot assuming toward the end an overcast of light carmine. Not a fading but an interesting mutation of tint.

Rome Glory (Italy). A red Dame Edith Helen but of larger size and opening well in all weather. Heavy ovoid bud, crimson, evolving in a large very double bloom of superb form. The color graduates to a slighter tint, toward the center. Very perfumed, long stems for cutting. Extraordinarily robust and hardy plant. Was officially selected to memorialize the third millennium of the founding of Rome by Romulus and Remus who, abandoned, says the legend, had been fed and protected by a she-wolf.

Fayence (Holland). Large bloom of classic form, pink and salmon with an orange tint, fairly scented; good plant of branching habit.

La Parisienne (France). A very graceful and elegant Rose dedicated to the Parisian womanhood. Semi-double, the color is a subdued flame with a dash of orange. Makes beautiful vases when cut in buds.

McGredy's Pink (Ireland). One of the best productions of the great Irish hybridizers. Very large bloom, luminous pink of various intensities giving an impression of variegation.

McGredy's Pride (Ireland). To produce such a Rose would indeed make any hybridizer proud! Mammoth blooms with petals standing erect, forming a rounded top. Apricot turning to aurora.

Rex Anderson (Ireland). The finest white Hybrid Tea Rose originated abroad for many years. A big bud, cream colored, opens in perfect large white blooms, several together on strong stems.

R. M. S. Queen Mary (Holland). Named for the ship, not the queen. Primarily a cutting Rose becoming popular in greenhouses but equally good outdoors. Blooms of the type of Briarcliff with more salmon and a dash of orange. The bud is exquisitely formed.

SAVE GARDEN "RUBBISH"

It is Invaluable as a Fertilizer

MIX IT WITH ADCO and change it into rich organic manure. The work can be done in a heap on top of the ground or in a pit as illustrated. It is easy—anybody can do it.



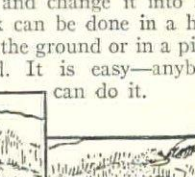
1. Dig a pit 2 feet deep, banking the dug-out soil around it.



2. Spread a 6-inch layer of rubbish.



3. Wet the layer of rubbish thoroughly.



4. Sprinkle ADCO on the layer. Repeat 2, 3, and 4 until all rubbish is used.

Garden wastes are rich in plant food if treated by the world-famous patented ADCO method. Why not start today? Get ADCO from your seedsman or direct from us. Ask us for your copy of "Artificial Manure and How to Make it"—FREE.

ADCO WORKS, Carlisle, Pa.

Makers also of the new ADCO WEED-KILLER for LAWNS, which eradicates weeds while stimulating the grass. 25 lbs. (2500 sq. ft.) F.O.B. \$3.75.

WHEN SHE'S A GRANDMOTHER
This Garden WILL
STILL BE *Beautiful!*



**WORLD FAMOUS Auglaize
LIFETIME PEONIES**

Fine peonies live and bloom 100 years, and even longer. For a few cents a year you can have the matchless beauty of Auglaize peonies in your garden . . . for life. Now any garden can have "the world's most perfect flowers." Order Lifetime roots today.

Special GROUP OFFER

Minnie Shaylor, white . . . reg. price \$2.00
Martha Bulloch, rose pink . . . reg. price \$1.50
Wm. F. Turner, dark crimson . . . reg. price \$1.00
Jeanne, old rose . . . reg. price \$1.50

ALL FOUR • ONLY \$3.95

WRITE for free Catalog and
other money saving collections.

Auglaize Gardens

BOX 17 VAN WERT, OHIO

In 2
days



**MOLES
VANISH**

No traps, no messy disposal job. Quick, clean, easy method used by estates, parks, golf clubs. Punch holes in ridges. Fill with NOMOLE, chemically-treated mole food. They devour it, die. Large 28-ounce can, \$2.00 express prepaid. GUARANTEE: money back if not satisfied. Ground Maintenance Manual free on request—no obligation.

THE C. B. DOLGE CO.

53 Wilton Road Westport, Connecticut

50 GUARANTEED TO BLOOM TULIPS \$1

50 Strong field-grown tulip bulbs GUARANTEED - TO - BLOOM next spring for only \$1.00, postpaid. Assorted leading name varieties including red, rose, orchid, yellow, variegated colors. Send dollar today.

NAUGHTON FARMS, Box No. T10, Waxahachie, Texas

Burpee's
REGAL
Lilies

Immense, fragrant, pure white blooms shaded lilac-pink, in July. Beautiful, hardy, easy to grow. 3 to 5 ft. Grown on Burpee's Fordhook Farms. SPECIAL, former 25c-size Bulbs, postpaid: 3 for 25c; 7 for 50c; 15 for \$1; 100 for \$6.50. Guaranteed to bloom. Other Specials: 25 Giant Darwin Tulips \$1 all colors mixed 32 Trumpet Daffodils mixed \$1 All you want at these low prices. Order today! Full Bulb Book free—Tulips Hyacinths, Daffodils, etc. W. Atlee Burpee Co., 143 Burpee Bldg., Philadelphia

See page 9 of Section II
for the national directory
of real estate brokers

I can "Tune-in" any temperature on my new Gas Range



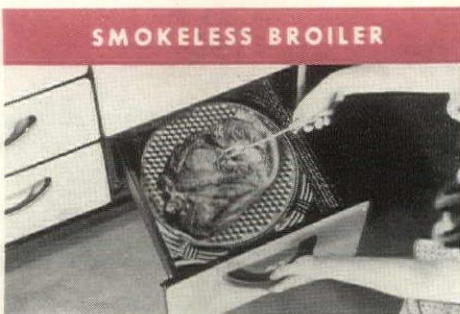
AUTOMATIC HEAT CONTROL

• **THE MODERN GAS OVEN** is a miracle of convenience. Oven heat control takes the guesswork out of baking. You can get exact temperature up to 550°—and new ovens preheat twice as fast as your old range. Many new gas ranges have clock control which turns your oven on and off for you. Oven walls are insulated—so your kitchen is cooler. This new insulation makes economical gas cookery thriftier than ever.



FLEXIBLE TOP HEAT, TOO

• **ONLY WITH GAS** can you get *instant intense* heat. Top burners on the modern gas range light automatically. Marvelous new simmer burners enable you to do "waterless cooking"—which saves vegetable flavor and vitamins. Pots stay bright when you cook with the clean blue gas flame. New aluminum top burners are easier to clean. In fact, the whole range can be cleaned as easily as a china plate.



SMOKELESS BROILER

• **THE NEW SPEED BROILER** cuts broiling time practically in half and seals in more flavor. There's no smoke to soil walls and curtains—new perforated grills drain off fats and keep them away from flame. The broiler in the modern gas range slides out in a convenient drawer. In appearance the new gas ranges are unsurpassed. Let one dress up *your* kitchen and make cooking pleasanter and more economical.



See the beautiful new gas ranges at the showroom of your Gas Company or appliance dealer. You'll find them surprisingly low in cost. Look for this Seal of Approval of the Testing Laboratories of the American Gas Association when you buy gas equipment. Appliances bearing this Seal comply with national requirements for safety, durability and efficiency.

FREE! Send for booklet, "Planning the World's Easiest-to-Keep House," by CONSTANCE HOLLAND; a valuable guide for saving time, money and effort in your own home. Write American Gas Association, 420 Lexington Ave., New York.

Name _____

Street _____

City and State _____

HG 34

GAS IS YOUR QUICK, CLEAN, ECONOMICAL SERVANT

Oct 12, '37

Nov 6 '37

MIRRORED GLASS IN

Color

ADDS TO A SPARKLING SERVICE



Interior by Paul MacAlister, Inc., A. I. D.

Colorful plate glass finds many practical and decorative uses in today's home. The crisp sparkling beauty that is obtained with mirrored plate glass in color is here smartly illustrated. The table top of blue mirrored plate is framed with satin-finish stainless steel; the whole supported on an oblong pedestal base of the same material. In the modern home, mirrors are used to emphasize and enlarge wall areas

—as a trim or facing material around doors, windows and fireplaces and in many other applications which add crisp new interest to home decoration. Colored plate glass is available in three shades of blue, a peach and a green. Your interior designer or local Libbey-Owens-Ford glass distributor will gladly cooperate with helpful suggestions. Libbey-Owens-Ford Glass Company, Toledo, Ohio.



LIBBEY · OWENS · FORD

Quality Glass

HOUSE & GARDEN

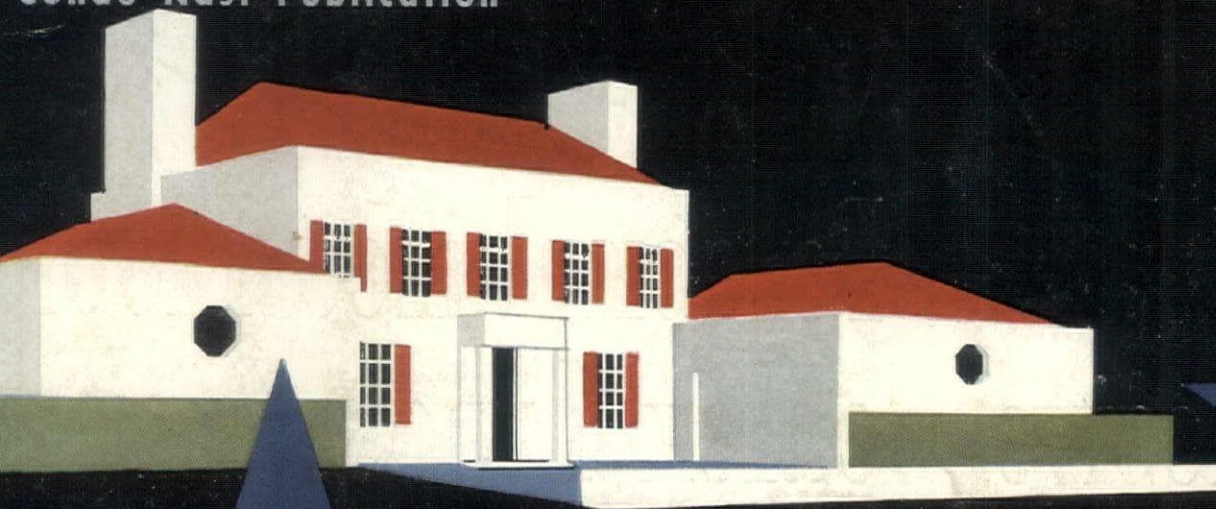
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WINNERS IN
HOUSE & GARDEN
ARCHITECTS
UNIVERSITY OF HAWAII COMPETITION

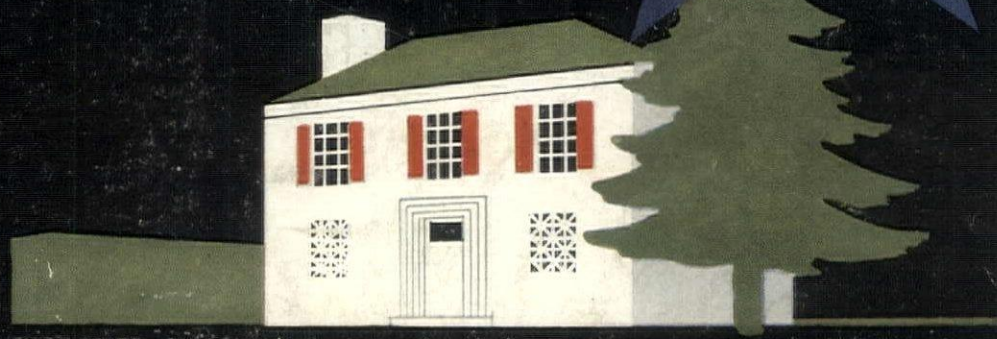
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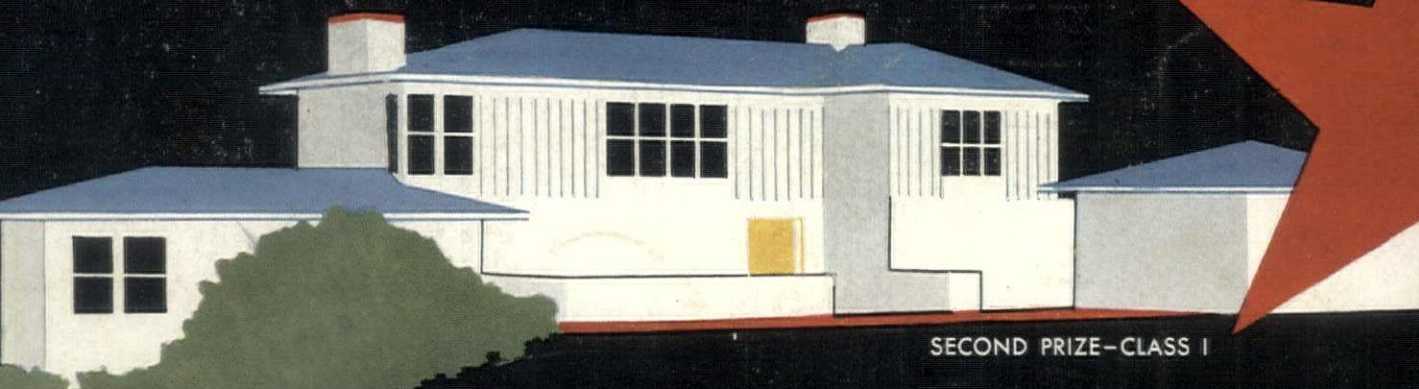
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FIRST PRIZE-CLASS I (7-10 Rooms)



FIRST PRIZE-CLASS II (6 Rooms and under)



SECOND PRIZE-CLASS I





SEALEX INSETS—here are some of the new, ready-cut motifs with which you may design individual linoleum floors. Ready-cut, they are provided at prices within the reach of everyone.

The modern Floor is a **Personal-ized Floor** of **Adhesive Sealex** Linoleum

TRADEMARK REGISTERED

SOMETHING new under the sun!... Personal-ized Floors of modern Sealex Linoleum built to your own design at very little extra cost!

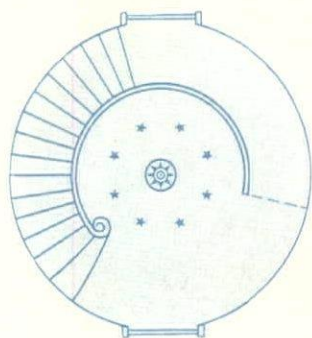
Truly an inspiration! The makers of Adhesive Sealex Linoleum said, "We'll cut individual designs from our linoleums. We'll call them Sealex Insets and they'll be *color-correlated* with all our Sealex patterns. Being ready-cut, they'll be inexpensive."

Now these decorative Sealex Insets are ready for you. Ready to be set in an Adhesive Sealex Linoleum floor in your own "personal-ized" design!

The low price will surprise you. For Adhesive Sealex is the patented* linoleum which effects savings of as much as 20%—because it has *adhesive on the back, applied at the factory.*

See your nearest Sealex dealer about the new "Personal-ized Floors!"

*Patent No. 1,970,503



FLOOR PLAN: See how this Personal-ized Floor design cleverly accentuates the shape of the hall. 8 Ivory Sealex Stars circle the Sealex "Compass and Wheel" Inset in the center of the Adhesive Sealex floor. The pattern is "Nite," No. A7388. (Like all Sealex Linoleums, the surface is smooth, stain-proof and very easy to clean.)

To help you create your own Personal-ized Floors, we have prepared a profusely illustrated new book—"Match Your Rooms to Your Personality." Send 10c to Congoleum-Nairn Inc., Box HC 1, Kearny, New Jersey.



Design your own **Personal-ized Floor** with **Adhesive Sealex** Linoleum

THE SINK THAT SAVES YOUR DISHES



— BECAUSE IT'S EQUIPPED WITH THAT NEW  DISHWASHER



— AND BECAUSE IT'S MADE OF RESILIENT MONEL

THERE are two reasons why this lovely Monel sink is kind to your china . . . and gentle to your glassware:

First because there's a General Electric dishwasher tucked away in that sink—just to the left of the bowl. You'll find it a fast-worker . . . and a careful one. It doesn't encourage your glasses to develop rough edges. It helps prevent those ugly little nicks from appearing on your best set of china.

The second reason why this sink saves your dishes is that Monel is resilient. It acts as a shock absorber. In a recent test, six plates were dropped upon a Monel sink from a height of six inches. Nothing happened. Not a sign of a chip. Not a trace of a crack.

Yet the same drop onto an ordinary sink made all six plates candidates for the ash can.

In every other respect, Monel is a model metal.

It thrives on rough treatment. Hard service merely makes it more lovely and lustrous. When Monel enters your kitchen, it's "in for life".

And through the years its one purpose will be to make your days easier. These smooth surfaces are a pleasure to clean. Substances which tend to make stains cannot penetrate Monel. Consequently, stains are never permanent. They are easily and quickly removed with common household cleansers.

For full information about Monel sinks and Whitehead steel cabinets, write to Whitehead Metal Products Co. of New York, Inc., 304 Hudson Street, New York, N. Y. For information on Monel address The International Nickel Company, Inc., 73 Wall Street, New York, N. Y.

Monel inherits from Nickel its finest qualities—strength, beauty and ability to withstand rust and corrosion. When you specify metals, remember that the addition of Nickel brings toughness, strength, beauty and extra years of service to steels, irons and non-ferrous alloys.

The range in the illustration above is the new GE Imperial "60" Range with Monel top, made by the General Electric Company. The Monel sink (also illustrated below with all doors open) is equipped with the new GE dishwasher and with the GE Garbage Disposall. Monel "Smartline" table comes from Mutschler Bros. Co., Nappanee, Ind. Steel wall and base cabinets and Monel sink are made by Whitehead Metal Products Co. of New York, Inc. Whitehead also makes rust proof Monel tanks for hot water and automatic gas water heaters.



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NICKEL

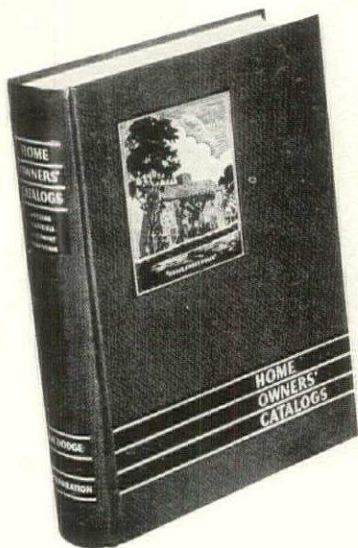
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COPPER

= **MONEL**

I want to thank you for your courtesy in sending Home Owners' Catalogs. It assisted me greatly with my home building plans—

Thousands of Prospective Home Owners Have Received This Valuable Book



QUOTATIONS

From Letters Received From Home Owners

"When you build your home, you need ideas — practical ones — and you certainly get them if you leaf the pages of your beautiful and informative Catalog."

"I wish to thank you for sending this fine book to me. I want you to know that it arrived just at the right time to help me select the right materials for my new home."

"It is the most interesting book of its kind that I have ever seen and much credit is due those who prepared it."

"Your book was of great value to us all. As a result we have a most satisfactory small house, well and substantially built, with beauty and many unique features."

"I want you to know how much I appreciated the beautiful catalog sent me last week. This has certainly been a great help and inspiration in choosing different articles for our new home."

THOUSANDS of gratified home owners have described Home Owners' Catalogs in glowing terms — and praised it as an invaluable aid in selecting and buying products for their new homes. Quotations from a few of their enthusiastic letters are printed below.

Home Owners' Catalogs brings a wealth of valuable information relating to home building — in one handsome and completely indexed volume. It describes in interesting manner, and with many color illustrations, hundreds of building materials, equipment and furnishings made by well known manufacturers.

If you are planning to build — or modernize — a home for your own occupancy, within 12 months, in the 37 states east of the Rocky Mountains, and spend \$4,000 or more for construction (exclusive of land) you are entitled to receive a *free* copy of Home Owners' Catalogs. There are no "strings" to this offer, as thousands of owners who have received the book will confirm. Home Owners' Catalogs is sent by mail, postage prepaid, but **EVERY APPLICATION WILL BE VERIFIED BY A DODGE REPRESENTATIVE**. Distribution is limited exclusively to those who meet the above requirements.

Accompany your application with a personal letter giving (1) description of your proposed home, (2) when you will build, (3) location, (4) expected cost, and (5) architect, if selected.

HOME OWNERS' Catalogs

Published by

F. W. Dodge Corporation, 119 West 40th Street, New York, N. Y.

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American Lumber & Treating Co.
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Western Pine Association

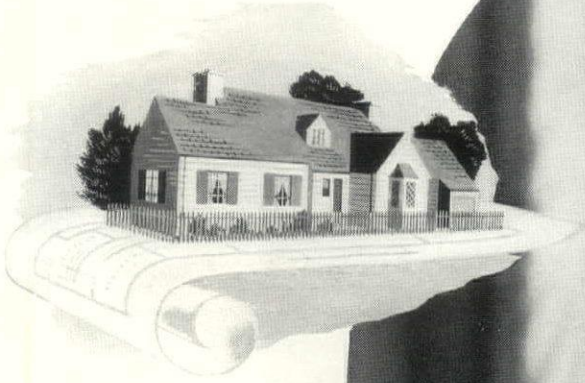
APPLICATION

RESTRICTIONS — Home Owners' Catalogs will be sent only to owners who plan to build homes for their own occupancy within 12 months, east of the Rocky Mountains, costing \$4,000 or more for construction, exclusive of land. Every application must be accompanied by a personal letter giving (1) description of proposed home, (2) when you will build, (3) location, (4) expected cost, and (5) name and address of architect, if selected.

F. W. DODGE CORPORATION, 119 West 40th Street, New York, N. Y.

I hereby apply for a copy of Home Owners' Catalogs. My letter is attached.

Name..... Street.....
City..... State..... Telephone.....



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YOUR HOUSE is more than something to look at . . . you are going to live in it. It is, first of all, a roof over your head; a shelter from cold and storm; a refuge of comfort and of security for many years to come.

A house fails in this, its first function, if the roof leaks, if plaster falls, if pipes clog with rust, if drafts, cold and dampness creep in around doors and windows. These troubles need never happen. It costs little to prevent them . . . it can cost a lot to cure them. The time to think about the vulnerable spots is when you build, buy or remodel. Give thought now to the inevitable results of rust so you can forget them the rest of your life.

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HG 1

Here's why Better Air RADIATOR

**BETTER AIR CONDITIONING NEEDS THE WARM FLOORS
THAT RADIATORS GIVE!**



**Sun-like Radiant Heat from new-style radiators warms
living levels—increases P. C.***



Hot air goes up . . . cold air stays down . . . but **RADIANT HEAT** from the latest, scientific, concealed radiators of the American Radiator Company just "sticks around"!

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*PERSONAL COMFORT



To locate nearest American Radiator dealer look in your classified telephone directory under "Air Conditioning Contractors" or "Heating Contractors."

LISTEN IN! American Radiator Fireside Recital . . . every Sunday 7:30 P.M. E.D.S.T. WEA-FNBC Network.

**BETTER AIR CONDITIONING NEEDS AN AIR CIRCULATION
DUCT SYSTEM INDEPENDENT OF THE HEATING SYSTEM!**



**A houseful of guests—smoke-filled rooms—P. C.* often
calls for circulating air from ducts—but without heat!**



When you have a houseful of guests and want circulating air without heat . . . that's when you need an air-duct system and a radiator heating system capable of independent operation.

Ordinary air-conditioning provides air circulation only when the thermostat calls for heat . . . but the New American Radiator Conditioning System gives you a constant supply if, as and when you want it, even when no heat is required.

These newer systems—with ducts for air circulation and radiators for heating—give you the complete flexibility of independent operation which spells comfort, satisfaction and economy under all conditions.

New AMERICAN RADIATOR

BRING IN FRESH AIR. ADD HUMIDITY. CLEAN THE AIR. CIRCULATE THE AIR. GIVE
SUN-LIKE RADIANT HEAT. WARM EVERY ROOM EVENLY. SUPPLY YEAR-ROUND
DOMESTIC HOT WATER.

Conditioning begins with **HEATING**

**BETTER AIR CONDITIONING NEEDS RADIATORS
TO INSURE UNIFORM WARMTH IN EVERY ROOM!**



**For radiant living — morning, noon and night —
your P. C.* requires uniform heat in every room.**



To ensure warmth in every room of the skyscrapers of America, architects and engineers specify American Radiator Heating . . . and to ensure warmth in your own home, simply specify the world-famous . . .

AMERICAN & IDEAL
RADIATORS & BOILERS

They begin below \$100 for very small homes . . . or for more you can install the New Model "A" System, which is the last word in scientific heating . . . Or, you can have the magic of the new warm water systems, with copper pipe and new thermostats that maintain uniform temperatures and constant RADIANT HEAT.

**BETTER AIR CONDITIONING NEEDS A RADIATOR SYSTEM TO
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**Over the years fuel and hot water cost more
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Year after year you save Service Dollars with American Radiator Heating, because the domestic hot water supply is part of the system . . . year after year you save Fuel Dollars because of the scientifically designed, water-backed boiler surfaces that get more heat out of less fuel . . . and year after year you save Repair and Replacement Dollars because your Ideal Boiler is made of time-tested, corrosion-resistant cast iron!

NO CASH REQUIRED. PAYMENTS TO PLEASE!

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EASILY INSTALLED WITHOUT WEAKENING FRAMEWORK OF TWO-STORY HOUSES.
SUMMER COOLING WHEN DESIRED. ARCO AIR-CONDITIONING CAN BE ADDED TO
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DIVISION OF AMERICAN RADIATOR & STANDARD SANITARY CORPORATION

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Send me your free booklet about Better Air-Conditioning

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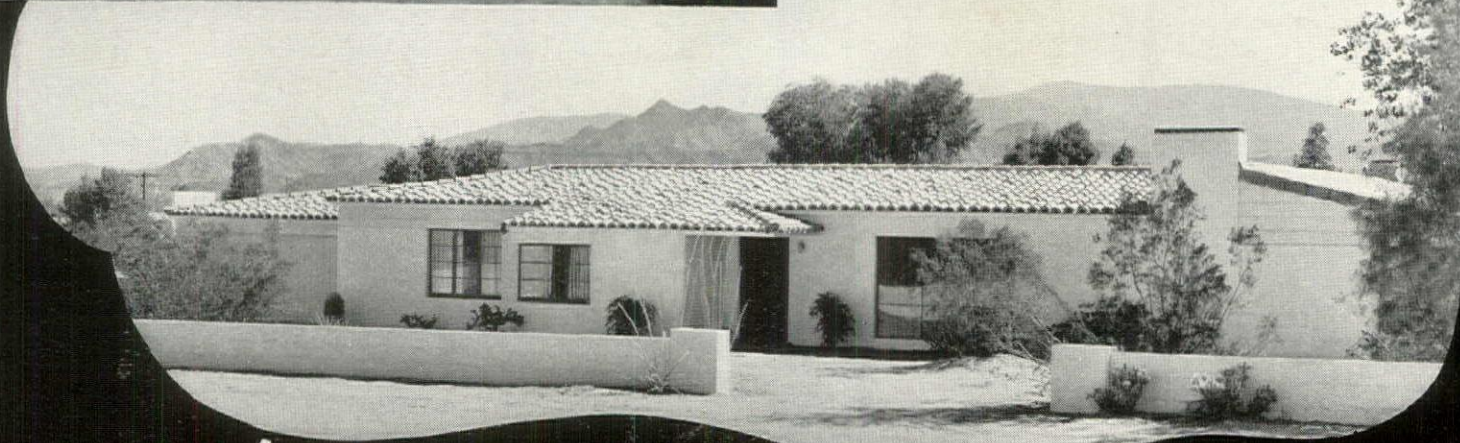
City or Town _____ State _____ JG 9

Your home, like these, can be as *up-to-the-minute in construction* as the 1938 cars



Fireproof concrete home at Atherton, near San Francisco. Designed by Mark Daniels, Architect.

The residence of Thomas Slaven, Palm Springs, California—one of many concrete homes at this favorite resort of motion picture stars. Designed and built by Van Evera Bailey, Architect, Portland, Oregon.



Build beautifully with enduring, firesafe, economical CONCRETE

CHANGE! Progress! That's the order of the day in home planning—new designs, new equipment, new furnishings. Yet the *most important* progress has come in none of these, but in *construction*, the factor that above all others determines how much satisfaction your home will give through the years.

The modern way to build is with concrete. Concrete's fire-safety protects your family, your priceless personal belongings. With ordinary insulation a concrete home keeps warm as toast in winter, cool in summer. Your investment is secure against termites, storms, decay. And what fun to keep house in a rigidly-built home where the baseboards never pull away, where sagging floors, misfit doors and jammed windows are but a memory!

The astonishing thing is, concrete's advantages can be had at slight additional first cost. The few dollars added to your monthly payments are more than repaid by savings in the form of much lower upkeep, slower depreciation

and high resale value. Before you plan to build, investigate concrete. Let us send you a booklet of design ideas.

How To Get a Concrete Home

... *Get the right builder.* Ask a local concrete products manufacturer or a concrete contractor to name builders, realtors and architects experienced in concrete. Tell them that you want concrete floors (any floor covering you wish), concrete walls and a firesafe roof.

... *Buy your home as you would buy a new car—on a basis of advanced construction and sound value as well as appearance—and your home will be concrete, the fastest-growing accepted type of home construction.*

PORTLAND CEMENT ASSOCIATION

Department 9-20, 33 West Grand Avenue, Chicago, Illinois

A national organization to improve and extend the uses of concrete through scientific research and engineering field work.



*Brings May-day
Comfort Indoors!*

Carrier Air Conditioning



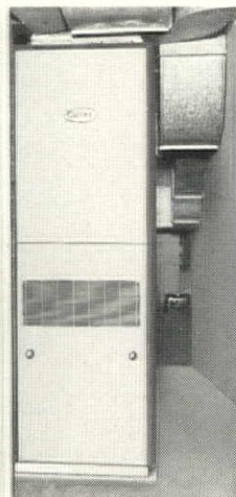
● Remember those glorious days in May? When the air was so fresh, so balmy, so invigorating? Today you can bring this comfort *indoors*—all year 'round—with Carrier Automatic Heating and Air Conditioning! It's *true* air conditioning—the system used in palatial homes both here and abroad.

In winter, your Carrier System does more than *heat*—it *cleans* the air, removes dust and harmful impurities. It *circulates* the air, makes your home uniformly comfortable. And it *humidifies* the air—ends that uncomfortable, unhealthful dryness forever. With Carrier cooling, the same equipment provides Summer air conditioning—dehumidification, and circulation of cooled, clean air.

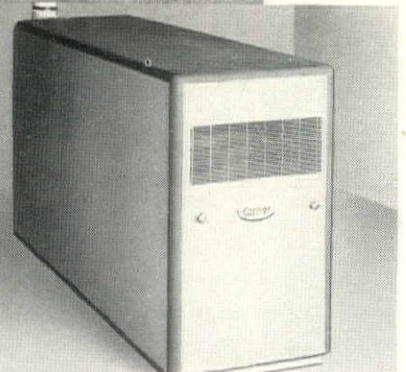
With all its features, the new Carrier Home equipment is so compact that it requires only small space—so adaptable that it can be installed quickly in old homes or new—so flexible that frequently much of your present heating equipment can be re-used. And its dependability is assured by the organization that has devoted 35 years *exclusively* to air conditioning—that has air conditioned such famous structures as Radio City, the U. S. Capitol and the "Queen Mary."

Call your Carrier representative today!

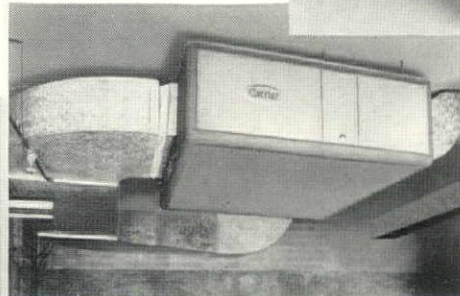
● In the Harry Allsman home, Tyler, Texas, (above) one Carrier Home Unit provides complete winter air conditioning—heating, humidification, circulation and air purity. Note small space.



● Using oil or gas, the Carrier Automatic Furnace (right) is available in two sizes—to meet the requirements of large or small homes. Finished in two-tone baked crackle enamel.



● This suspended unit (left) can be used with *any* automatic heating to provide humidification, circulation and cleaning of air.



CARRIER CORPORATION, Desk 441
850 Frelinghuysen Avenue, Newark, New Jersey

Please send, without obligating me in any way, complete information on ☐ Carrier Winter Air Conditioning; ☐ Carrier Home Furnace (gas or oil); ☐ Carrier Oil Burner.

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Street _____
City _____
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If you're planning to build—or to add new beauty or convenience to your present home—these booklets will help you to plan and buy expertly. Just write for those you want—to the addresses given here. They're free unless otherwise stated.

Homes and Equipment

THE WORLD'S EASIEST-TO-KEEP HOUSE, by Constance Holland, tells the story of the modern, drudgeless home every woman dreams of. It's packed with helpful information on the selection of your range, refrigerator, house and water heating units. AMERICAN GAS ASSN., DEPT. G-9, 420 LEXINGTON AVE., N. Y. C.

HODGSON HOUSES AND CAMPS is the catalog of a manufacturer who has been producing prefabricated homes since the "gay 90's". It shows photographs, floor plans, prices—includes indoor and outdoor camp equipment—garages, kennels and playhouses. E. F. HODGSON CO., DEPT. G-9, 1108 COMMONWEALTH AVE., BOSTON, MASS.

HOMES OF STEEL introduces you to modern homes—fireproof, insulated, permanent—that can be ordered by number from a catalog. It gives ample proof of their charm and flexibility by showing many floor plans and photographs. STEEL BUILDINGS, INC., DEPT. G-9, MIDDLETOWN, OHIO.

THE NEW AMERICAN HOME diagrams a house that's planned from the inside out—with perfect electrical and conditioning systems for the vital comforts of modern living. There are floor plans you can cut out and fit together, to plan your own new home. GENERAL ELECTRIC HOME BUREAU, DEPT. G-9, 570 LEXINGTON AVE., N. Y. C.

POWER PUMPS and water systems to supply economical running water to suburban or country homes, big estates or country cottages are described in detail in the Myers catalog, which gives the story of price and performance. THE F. E. MYERS & BRO. CO., DEPT. G-9, ASHLAND, O.

BURN-ALL INCINERATOR answers questions about this competent equipment for reducing garbage, swiftly and smokelessly, to a mere ash that you can scatter as fertilizer in your garden. It's a portable incinerator that can function outdoors anywhere, in any season. BURN-ALL INCINERATOR CORP., DEPT. G-9, 55 WEST 42ND ST., N. Y. C.

WHY PEOPLE LIKE Concrete Homes is a collection of fine photographs that leave no doubt in your mind about the beauty, permanence and livable comfort of the new-type home of concrete. It shows houses in every part of the country, with floor plans, and pointers on quality and construction. PORTLAND CEMENT ASSN., DEPT. 9-20, 33 W. GRAND AVE., CHICAGO, ILL.

THE CHARM of a Well-Lighted Home gives practical pointers on planning your lighting for beauty, health and comfort. It discusses the lighting problems of each room, and shows many charming fixtures of different decorative types, for both indoors and out. LIGHTOLIER CO., DEPT. G-9, 11 E. 36TH ST., N. Y. C.

Home Elevators

A MOTION PICTURE in 7 Scenes unfolds the story of the Sedgwick electric Stair-Traveler that unfolds from its neat position against the wall, rides up smoothly upward at a gentle touch, and stops automatically at the top, freeing the invalid from the tyranny of steps! SEDGWICK MACHINE WORKS, DEPT. G-9, 150 W. 15TH ST., N. Y. C.

THE DOOR TO A NEW LIFE offers a "lift" to invalids and older folk. It's an illustrated story of the Shepard Homelift, easily installed in any home, operating automatically and safely on any lighting circuit. SHEPARD ELEVATOR CO., DEPT. G-9, 2429 COLERAIN AVE., CINCINNATI, OHIO.

PERSONAL SERVICE ELEVATORS take up little space and may be fitted into almost any house, old or new. Sketches and miniature floor plans show good locations for these elevators. OTIS ELEVATOR COMPANY, DEPT. G-9, 264 11TH AVE., N. Y. C.

THE HOME ELEVATOR PROBLEM is solved by the "Elevette" that's located in a stairwell, closet or corner. Or by the "Inclinor" that rides you smoothly up the stairway—and folds neatly against the wall when not in use! INCLINATOR CO. OF AMERICA, DEPT. G-9, 1414 VERNON ST., HARRISBURG, PA.

Heating and Air-Conditioning

BEAUTY IN HEATER ENCLOSURES takes up the problem of combining beauty with efficiency in the visible portion of a heating system. It shows handsome grilles in period styles, and modern convectors to hide behind them. MODINE MFG. CO., DEPT. G-9, 1300 17TH ST., RACINE, WIS.

THE PIERCE presents an oil burning boiler that uses a 5-way heat travel system to get "more heat from the same amount of oil". A glimpse of the interior shows the important features of this modern, completely automatic boiler. PIERCE BUTLER RADIATOR CORP., DEPT. G-9, 701 NICHOLS AVE., SYRACUSE, N. Y.

YOUR GUIDE to Dependable Low-Cost Heating, Hot Water and Air Conditioning is a simple discussion of the problems involved, and an explanation of the efficient performance of Fitzgibbons boilers for oil, gas or automatic stoker. FITZGIBBONS BOILER CO., INC., DEPT. G-9, 101 PARK AVE., N. Y. C.

NO. 7 IDEAL BOILER ushers in a new-type boiler engineered by the famous American Radiator laboratories—giving all the facts about its economy and efficiency, whether used with oil, gas, stoker, or handfired coal. AMERICAN RADIATOR CO., DEPT. G-9, 40 W. 40TH ST., N. Y. C.

BURNHAM HOME HEATING HELPS assists you in deciding which type of heating system is best suited to your needs. It expresses an impartial view of the various types of heating systems and the burning of various types of fuel. BURNHAM BOILER CORP., DEPT. G-9, IRVINGTON, N. Y.

GAR WOOD AIR-CONDITIONING GUIDE is an introduction into the theory, science and practice of air-conditioning installation and operation. It teems with facts, figures, charts and explanatory sketches! GAR WOOD INDUSTRIES, INC., AIR CONDITIONING DIV., DEPT. G-9, 7934 RIOPELLE ST., DETROIT, MICHIGAN.

WHY LIVE IN AN OVEN? asks Sturtevant, in a booklet about the Atticvane fan, a ventilator that draws off attic heat and floods the house with fresh, outdoor air, for cool comfort and refreshing sleep. B. S. STURTEVANT CO., DEPT. G-9, HYDE PARK, MASS.

CHRYSLER'S AIRTEMP automatic home heating and air conditioning systems tell how Airtemp provides home heating and winter air conditioning "at the cost of heat alone". This booklet diagrams the installation, shows how it works and what it does for your home. AIRTEMP, INC. (Subsidiary of Chrysler Corp.), DEPT. G-9, DAYTON, OHIO.

MOUNTAIN FRESH, Ocean Bathed Climate at Home is merely a way of saying that you can condition the air—cool, heat, clean and circulate it as you please. This booklet describes the Sunbeam Air Conditioning Unit. FOX FURNACE CO., DEPT. G-9, ELYRIA, OHIO.

HEATILATOR tells of a new type fireplace on the principle of the warm air furnace—to circulate heat throughout the room, instead of toasting your face while your back freezes. It is a form around which any sort of fireplace can be built! HEATILATOR CO., DEPT. G-9, 692 E. BRIGHTON AVE., SYRACUSE, N. Y.

HOFFMAN CONTROLLED HEAT with Air Conditioning makes thoroughly clear such questions as what air conditioning is, what types you can choose for your home, and just how the effective Hoffman system works. HOFFMAN SPECIALTY CO., INC., DEPT. G-9, WATERBURY, CONN.

REXOIL AIR CONDITIONER goes simply but thoroughly into the efficiency and workings of this competent equipment—showing, with the help of drawings and photographs, how it heats, cools, humidifies and cleanses the air of your home. REIF-REXOIL, INC., DEPT. G-9, BUFFALO, N. Y.

AUTOMATIC HEATING and Air Conditioning for Everyone covers products made by General Motors—the Delco Year 'Round Conditioners, the Boiler Units, Automatic Furnaces, Water Heaters, Room Coolers and other equipment—with important pointers on their performance. DELCO-FRIGIDAIRE CONDITIONING DIV., GENERAL MOTORS SALES CORP., DEPT. G-9, DAYTON, OHIO.

RAYDIANT RADIATORS goes into detail about a new type of concealed radiator that supplies both convection heat and radiant heat—gives more heat near your feet—holds the heat longer—and can be used in mixed installations in which some rooms use conventional radiators. WEIL-MCLAIN CO., DEPT. G-9, 641 W. LAKE ST., CHICAGO, ILL.

WE TURN ON THE HEAT explains what happens inside the automatic thermostat that controls your heating system. It makes very clear the difference in performance between a conventional thermostat, and the much more efficient heat-accelerating Minneapolis-Honeywell type. MINNEAPOLIS-HONEYWELL REGULATOR CO., DEPT. G-9, 2790 4TH AVE. S., MINNEAPOLIS, MINN.

CLOSE THE DOOR. Here's an easy-to-understand explanation of the Silent Glow Oil Burner, with its Air-Seal that "closes the door" against chill when the automatic controls say "Heat off!" Diagrams show how it gets more heat out of each gallon of oil. SILENT GLOW OIL BURNER CORP., DEPT. G-9, 1477 PARK ST., HARTFORD, CONN.

WELCOMING WARMTH describes an efficient automatic heating system that uses inexpensive stoker coal—the Iron Fireman, with its "electrical brain" that sets the temperature for day and night, and does all the regulating for you. The booklet answers all your questions with picture and story. IRON FIREMAN MFG. CO., DEPT. G-9, 3281 W. 106TH ST., CLEVELAND, OHIO.

AUTOMATIC OIL HEATING goes into helpful and informative detail about the Electrol Way of heating your home. With excellent photographs, it makes clear the efficiency points that ensure quiet, competent performance. ELECTROL, INC., DEPT. G-9, 934 MAIN AVE., CLIFTON, N. J.

TRANE CONVECTORS tells in detail about the "modern successor to the radiator", that gives more comfortable and healthful heat with any heating or air conditioning system. Both cabinet models and recessed concealed-in-the-wall types are shown—designed to contribute to the decorative beauty of any room. THE TRANE CO., DEPT. G-9, LA CROSSE, WIS.

SHEPARD SIMPLIFIED STOKER is an engineer's story of a simple, rugged stoker that cuts fuel costs by using inexpensive stoker coal—cuts labor by doing all the work automatically—and keeps uniform temperature, regardless of weather. SHEPARD ELEVATOR CO., DEPT. G-9, CINCINNATI, OHIO.

THE CARRIER WEATHER-MAKER describes an efficient heating system that "manufactures weather" for the home all the year 'round. Learn from this amply illustrated booklet of more than 30 interesting pages exactly how it works and what it does. CARRIER CORP., DESK 441, 850 FRELINGHUYSEN AVE., NEWARK, N. J.

Floors and Windows

WINDOW BEAUTY shows interior and exterior views of charming homes with Andersen Wood Windows. It offers many suggestions for adding comfort and beauty to your home, with Andersen weathertight casements, Naroline double hung windows, and basement windows. ANDERSEN CORP., DEPT. G-9, BAYPORT, MINN.

BETTER WINDOWS is a booklet about the modern Light Sealair Windows, with solid aluminum or bronze frames that will not rust, warp, swell, shrink or rot. As the many photographs show, they fit with beauty into any type of home, from Colonial to modern. KAWNEER CO., DEPT. G, NILES, MICH.

PERMATITE WINDOWS includes windows of bronze and aluminum—both casement and double hung—weather-tight, suitable for air-conditioning; rattlerproof, dustproof, rustproof, moderate in cost. Write for Booklet 11. GENERAL BRONZE CORP., DEPT. G-9, 34-19 TENTH ST., LONG ISLAND CITY, N. Y.

CURTIS WOODWORK designed to build lasting beauty into a home includes the Silentite Pre-fit windows that assure year-round comfort; beautiful doors for every type of architecture and interior; kitchen units, modern and complete to the last detail. CURTIS COMPANIES SERVICE BUREAU, DEPT. HG-9C, CLINTON, IOWA.

OAK FLOOR. Problems of laying, finishing and care of fine oak floors are authoritatively dealt with in a little booklet for those who plan to put in new floors, or merely to give right care to old ones. NATIONAL OAK FLOORING MFGS. ASSN., DEPT. G-9, 830 DERMON BLDG., MEMPHIS, TENN.

GAY FLOORS for Basement Playrooms solves a problem with Accotile, which can be laid in all sorts of colorful patterns, right over cement that comes in contact with the ground. See some of the colors, and attractive floor designs, in this booklet. ARMSTRONG CORK PRODUCTS CO., DEPT. G-9, 3710 MULBERRY ST., LANCASTER, PA.

MATCH YOUR ROOMS to your Personality . . . shows how to design linoleum floors that incorporate your own decorative ideas—how to get custom-cut effects at ready-made prices, with new insets, feature strips and borders. It also shows the decorative potentialities of wall linoleum. Send 10c. CONGOLEUM-NAIRN, INC., DEPT. HG-1, KEARNY, N. J. (Continued on page 10)

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237 designs of homes to suit every climate with floor plans, and exterior views showing a wide variety of 1 and 2 story homes—4 to 10 rooms—1 and 2 baths of Monterey, Ranch, Spanish, Colonial, English and Norman designs. Each one an architectural gem. Every one of the large 132 pages handsomely photographed. Regular \$4.00 value. All four books for only \$2.50 while they last, saves you \$1.50. Money back if not satisfied. Cash, check, money order or sent C. O. D. CLEVELAND PUBLICATIONS (Publishers to the Building Industry), Dept. A-2 810 E. 61st St., Los Angeles, California.

REAL ESTATE



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COUNTRY REAL ESTATE AS INVESTMENT—It is the

consensus of opinion of many students of finance that most of the great American fortunes were made in real estate. Even those fortunes made in railroad building were accumulated through real estate concessions obtained with the original grants for the rights of way.

Today, opportunities still exist for making money in country real estate, and it is not always necessary to hold the property for a number of years to obtain profits. Let us take a concrete example. Last October a property of 24 acres, containing an old house and located in a high district of Darien, Conn., was purchased at a fair value. The new owner built a new road to develop the rear land and divided the property into 11 plots of 1 to 4 acres. At this writing all the plots but two—approximating 2 acres apiece—have been sold and the owner has realized a profit of 100% on the actual money invested. The 2 remaining plots should bring the owner's profit to at least 150%, and he will probably make a turnover on all the land before his year of ownership is over.

This is not an isolated case. Last summer another piece of Darien property, consisting of 27 acres which had long been neglected, was surveyed. A topographical map was made, a road laid out and the property divided into 8 plots of from 2 to 4 acres each. The road was finished last fall and by April of this year all the plots were sold at a satisfactory price to the owner.

Do not expect to purchase land and have the land make you rich. You have to *help* your land increase in value. Of course, extensive highway projects—like the new Merritt Parkway in Connecticut—will raise property values. But opening a road in your property, building a pond or lake, or even clearing out paths through the underbrush will do more towards appreciating land values than waiting for the golden apples to fall in your lap.

We will find it for you . . .

ARE you looking for a home in Westchester—acreage in Connecticut—an estate on Long Island—or property elsewhere? If so write or call us and discuss your requirements. At no obligation to you we will search for the one place that best fits your needs and your price.

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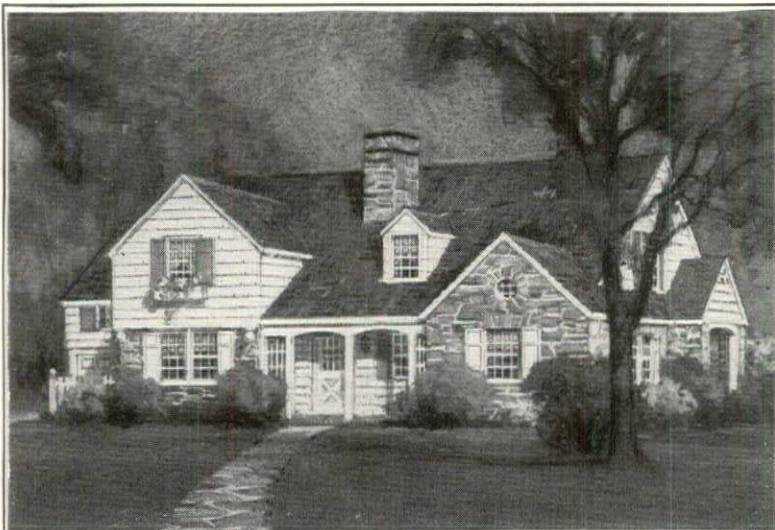
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BUILDING BOOKLETS

(CONTINUED FROM PAGE 8)



8 rooms, 3 baths, Powder Room, 2-car garage, Electrol Air conditioning-Oil Burner unit, Game Room with fireplace, $\frac{1}{4}$ acre opposite Village Green. \$23,500.

Why sign another \$1,200 Lease this Fall, when . . .

. . . by this time next year, you could have lived in a lovely home of your own, in WILMOT WOODS, like one of those pictured. Your \$100 Rent Checks would have covered *all* carrying charges and paid off \$550 on the mortgage! A sensible down payment gives you title immediately. Years fly by! Before you know it, you'd own your home free and clear instead of a stack of Rent Receipts. Meantime, you would have the cachet of an exclusive address, in one of Westchester's most beautiful residential parks. Your children would have grown up among the wide lawns and tall trees of Wilmot Woods (no house in the entire Village stands on less than $\frac{1}{4}$ acre). Their companions would be the children of Gentlefolk, like yourselves, with similar background and traditions. We have a number of homes ready for occupancy—prices begin at \$11,000. We'd like to show you them—and our Model Home, furnished by W. R. THORNE, of White Plains. Drive out any evening, after dinner. We hold open house until ten o'clock. Free Booklet on request to Wilmot Woods Colonial Village, Scarsdale P. O.

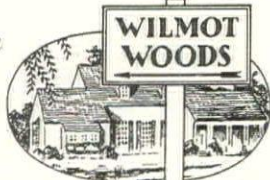


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GOODYEAR RUBBER FLOORING gives you detailed facts about a handsome and permanent floor finish that comes in either sheets or tile. It shows 36 of the attractive colors which you can use alone, or with contrasting borders. GOODYEAR TIRE & RUBBER Co., DEPT. G-9, AKRON, OHIO.

CLOSE THE WINDOW. Here's an adequate study of an item too often overlooked in building—the right casement hardware to close an out-swinging window over a sink, and to ensure convenient handling of every casement window in the house. CASEMENT HARDWARE Co., DEPT. G-9, 406 N. WOOD ST., CHICAGO, ILL.

Kitchen and Bathroom Equipment

THE WHITEHOUSE LINE is a catalog of fine steel units for modern kitchens and pantries—with photographs of beautiful kitchens—blueprints of their plans—and specifications of the handsome, durable metal cabinets that embody every possible new convenience. JAMES & KIRTLAND, INC., DEPT. G-9, 101 PARK AVE., N. Y. C.

THE KITCHEN OF YOUR DREAMS shows a number of delightful kitchens, for small and large families, and goes into details about the Curtis cabinets that make up their modern, straight-line efficiency. It adds a guide sheet for use if you'd like Curtis to help you plan. CURTIS COMPANIES SERVICE BUREAU, DEPT. G-9, CLINTON, IOWA.

ROPER GAS RANGES points out many interesting new Roper features which provide cooler kitchens, cleanliness, economy and speed. You will be interested in seeing the "Waterless" cooking chart which accompanies the booklet. GEORGE D. ROPER CORP., DEPT. G-9, ROCKFORD, ILL.

NEUVOGUE for the Modern Bathroom introduces new fixtures of fresh, functional design—adding beauty to utility and efficiency in tubs, lavatories and all the fittings for a luxurious but not too expensive bathroom. It shows 8 standard colors besides white. CRANE Co., DEPT. G-9, 836 S. MICHIGAN AVE., CHICAGO, ILL.

MONEL METAL in the Modern Kitchen is a booklet of inspired ideas and practical plans for the finest of modern kitchens—with photographs, cost estimates, and a "thumb-nail history" of monel metal. INTERNATIONAL NICKEL Co., DEPT. G-9, 73 WALL ST., N. Y. C.

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MODERN BATHROOMS FOR OLD takes the much-neglected, drab old bathrooms, and shows how to make them cheery and modern without expending a fortune. A colorful Church Sani-Seal is an inexpensive starting point. C. F. CHURCH MFG. Co., DEPT. HG-9, HOLYOKE, MASS.

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FOR BETTER LIVING, G.E. invites you to "come out of the kitchen and enjoy life" . . . showing such perfect electrical kitchens that you'll want for the first time to stay in and enjoy the kitchen! GENERAL ELECTRIC INST., DEPT. G-9, NELA PARK, CLEVELAND, OHIO.

VITROLITE BATHROOMS AND KITCHENS shows rooms with wainscoting, walls and ceilings of "structural" glass in stunning colors, gleaming with luxurious beauty that looks far more expensive than it is. LIBBY-OWENS-FORD GLASS Co., DEPT. G-9, TOLEDO, OHIO.

Building Materials

PHILIPPINE MAHOGANY gives you some inside information about this luxurious, yet economical tropical hardwood, picturing its use as wall paneling for distinguished homes—in trim, doors, stairways, flooring—in furniture and in fine boats. PHILIPPINE MAHOGANY MFRS. IMPORT ASSN., DEPT. G-9, 111 W. 7TH ST., LOS ANGELES, CAL.

INSULUX GLASS BLOCK discusses very fully the features and advantages of the architectural glass that is adding new light and life to modern home planning. It goes thoroughly into construction details, and suggests effective applications of glass bricks in a present-day home. OWENS-ILLINOIS GLASS Co., DEPT. G-9, TOLEDO, OHIO.

MASONITE in Home Design, Construction and Decoration is a book brimful of ideas—with room schemes in full color, and actual photographs showing homes with Masonite Insulation—wall treatments built with Presdwood, and kitchens immaculate with Temptrile walls. MASONITE CORP., DEPT. HG-9, 111 W. WASHINGTON ST., CHICAGO, ILL.

FOR BETTER WALLBOARD CONSTRUCTION describes a new method of building strong, smooth walls and ceilings, with the clever recessed-edge Sheetrock, joined with Perf-a-tape. It also adds facts about a new method of decorating walls, and about a fireproof, insulating sheathing board called Gyplap. U. S. GYPSUM Co., DEPT. B-9, 300 W. ADAMS ST., CHICAGO, ILL.

SNUG HOMES OF FRIENDLY WOOD is a portfolio of attractive small houses—with plans and elevations, cost estimates, and information on construction methods—and types of wall paneling and interior trim to be had in pine. Price is \$1.00. ARKANSAS SOFT PINE BUREAU, DEPT. G-9, LITTLE ROCK, ARK.

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(Continued on page 52)

MONFORT HILLS

Port Washington, L. I.

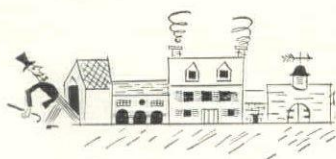
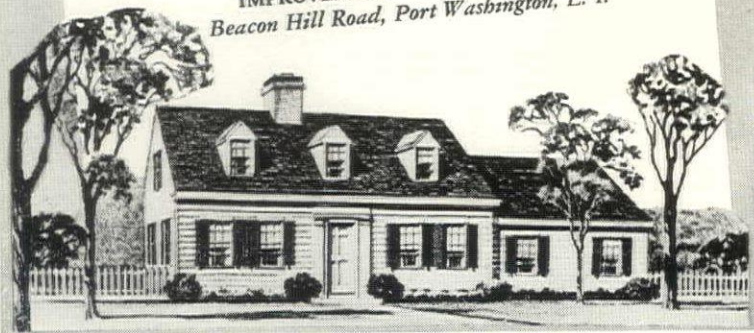
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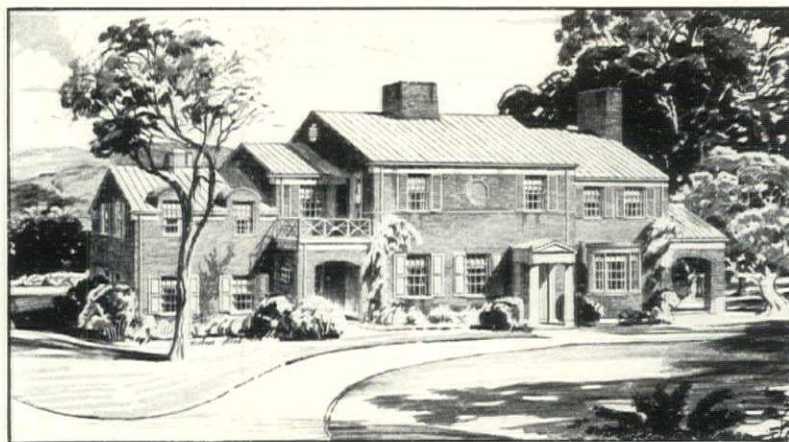


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was selected for this superb Colonial residence because our investigations found that it is the best the market affords. The house pictured contains 7 rooms, 3 baths, screened porch topped by sun deck, built-in 2-car garage. Price complete—\$18,000.

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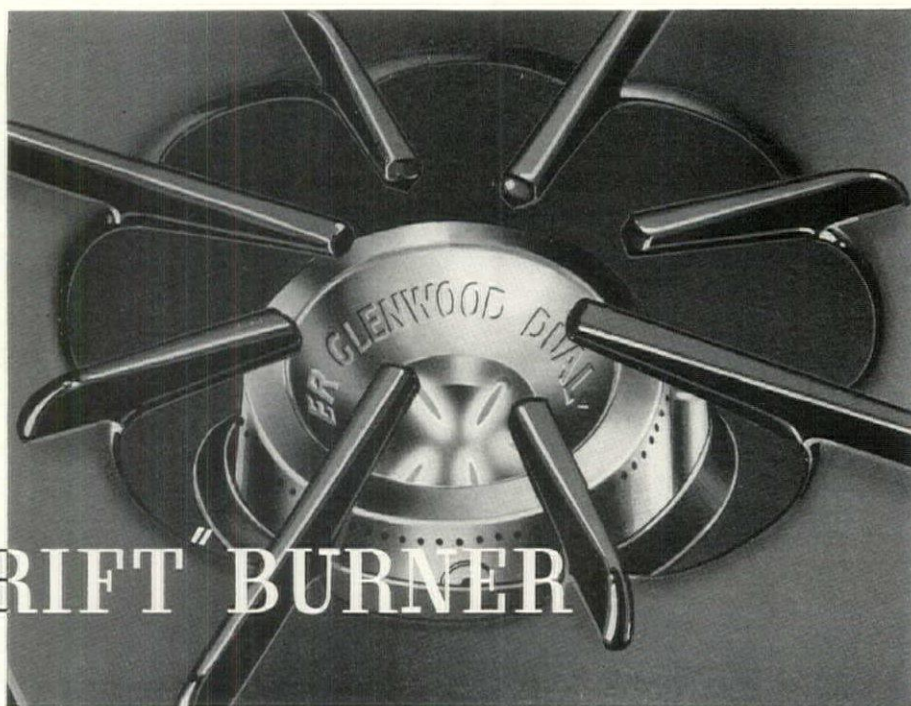
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FOUR PRIZE WINNERS
FOUR HONORABLE MENTIONS AND TWENTY-TWO OTHER HOUSES SELECTED
FOR THE EXCELLENCE OF THEIR DESIGN

WINNERS

CLASS ONE

7 TO 10 ROOMS

FIRST PRIZE: Perry M. Duncan, New York, N. Y.
SECOND PRIZE: Gardner A. Dailey, San Francisco

CLASS TWO

6 ROOMS AND UNDER

FIRST PRIZE: F. C. Stanton, Bellingham, Wash.
SECOND PRIZE: W. W. Wurster, San Francisco

HONORABLE MENTIONS

Class I: John Matthews Hatton & Ralph Spearman Myers, New York, N. Y.; Frank W. Green, Los Angeles, Cal. **Class II:** James W. Kirst, Yonkers, N. Y.; Reinhard M. Bischoff, West Hempstead, N. Y.

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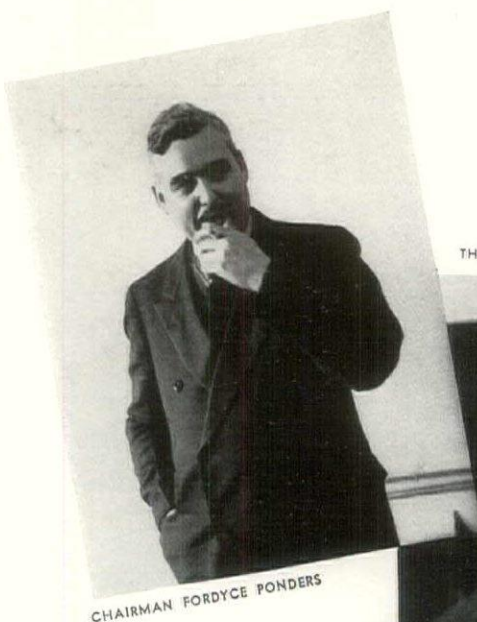
WE JUDGE A CONTEST

Notable entry list for House and Garden's first annual Architects' Competition is judged by three outstanding architects and the editors. New Yorker wins in Class I

CAUGHT by the candid camera in various attitudes of rapt concentration, the judges of House & Garden's Architects' Competition are here presented to our readers. These hard-working men should be of special interest, because they constitute, in fact, a client looking for an architect. Therefore the reader who has built a house may review with sympathetic understanding the history of their deliberations; and the reader who contemplates building a house will profit by learning their technique of selective criticism. For what they have to say, as briefly reported here, comprises the considered attitude of recognized authorities on the subject of contemporary residential architecture. Here is what they look for in the design of a house; and we who are about to build might well profit by looking for the same things.

The judges, six in number, were: Harrie T. Lindeberg, of New York, architect, and one of the great leaders of the profession; David Adler, of Chicago, architect, whose rare ability and wide experience place him, with Mr. Lindeberg, in a notably prominent position; Allmon Fordyce, architect, of New York, sometime instructor in architecture at Yale University, at present concerned in planning the New York World's Fair, the Chairman of our jury; Richardson Wright, Editor of House & Garden; Henry Humphrey, and Arthur McK. Stires, also of the House & Garden staff. Serving as architectural advisor during the contest was Edgar I. Williams, architect and member of a Committee on Competitions of the American Institute of Architects.

The duty of these judges was to examine photographs and plans of homes designed by registered architects within the past three years and to award certain prizes to those whom they found most deserving. The houses were divided into two classes, according to size: Class I, houses of 7 to 10 rooms, inclusive; Class II, houses of 6 rooms and under.



CHAIRMAN FORDYCE PONDER

THE JURY: MESSRS. STIRES, WRIGHT, WILLIAMS, LINDBERG, FORDYCE, ADLER, HUMPHREY



KARGER

First Prize in Class I was a cash award of \$500 and the commission to design the House & Garden Ideal House for 1938, plus an honorarium of \$750. Second Prize in this class was a cash award of \$250. In Class II the winner received \$500 and the commission to design the House & Garden 1938 House-for-Two, plus \$250 for plans and sketches; Second Prize award was \$250. Two Honorable Mentions, in each class, carrying prizes of \$50 each, were also awarded.

This was no ordinary competition, for it involved not merely the usual awarding of a prize for meritorious work, but the selection of an architect to design a house in accordance with the highest standards of this magazine. Thus the jury found itself in the position of a prospective client with all the attendant problems of critical analysis. It examined entries, from every part of the United States, composed of photographs, plans and elevations. No architect's name was allowed to appear on any of these. Without fear or favor the judges praised or condemned famous and unknown alike, looking for those things which make for good planning, good design—in other words, good architecture as of this year, 1937. Obviously, they reasoned, when you find that you find a good architect.

Here, in brief, is how this jury, the client, went about picking an architect. Picking, incidentally, is the word, because it was done by picking designs apart, picking plans apart, finding out how well or ill they measured up to certain specific standards of good architecture. The following notes, selected from the critical expressions of our judges, will furnish an example of what these standards were and how they were applied.

In the matter of styles our jury showed a properly broad view, holding no special brief for any (*Continued on page 50*)

STACKS OF ENTRIES

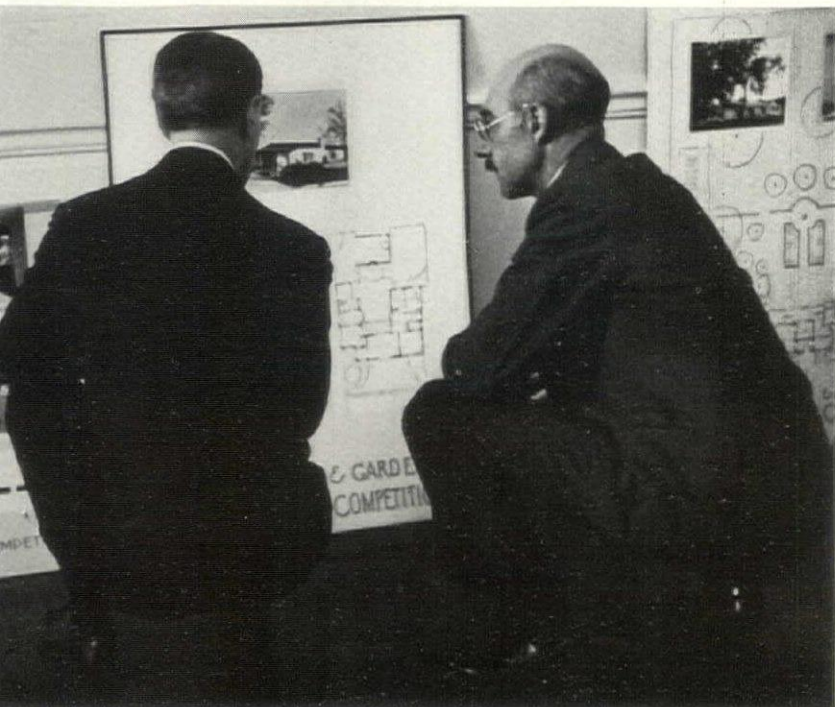


THE ARCHITECTS DISCUSS



MR. LINDBERG SITS DOWN

CONSULTATION: MR. ADLER AND MR. WILLIAMS



CONCENTRATION: MR. ADLER

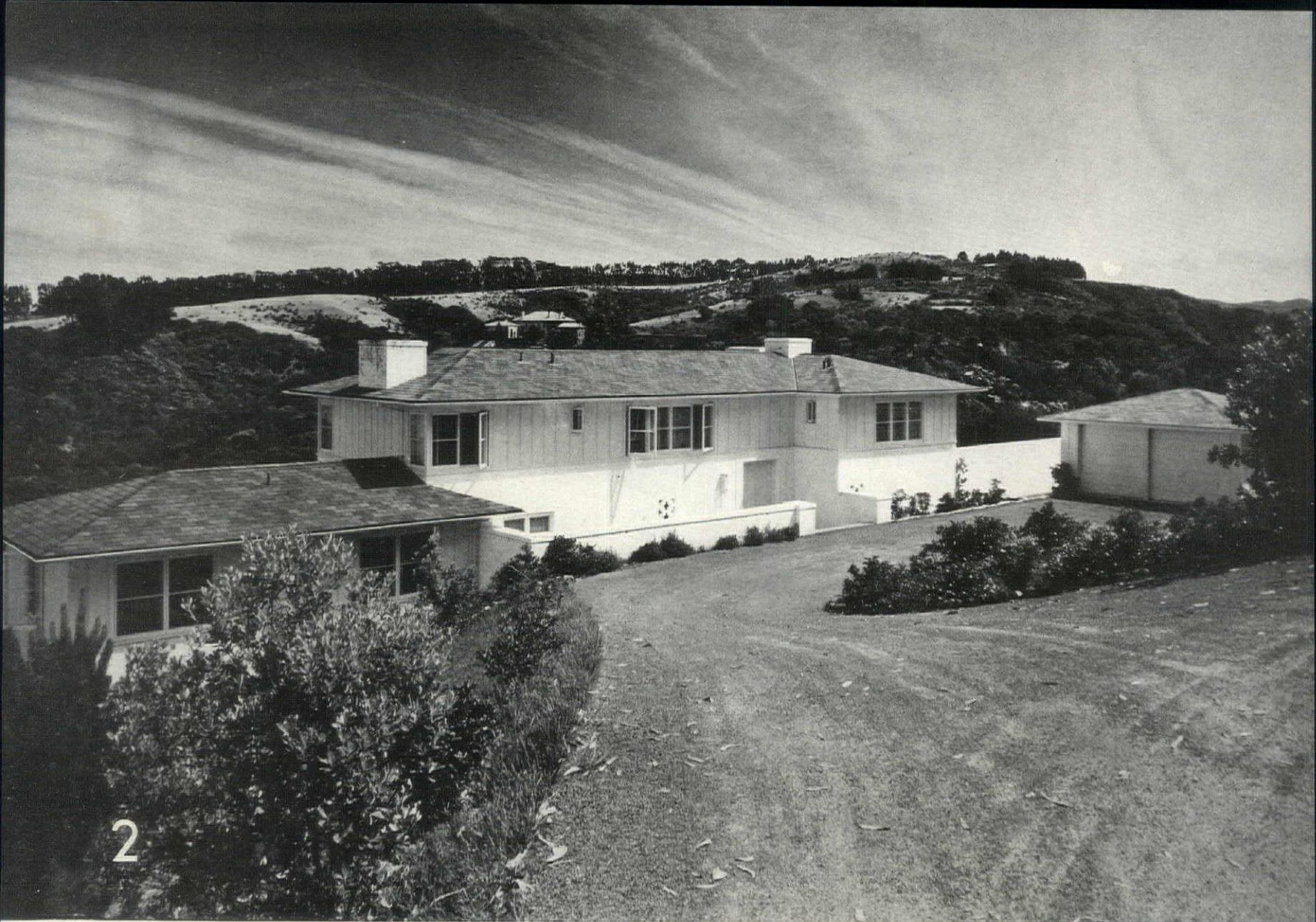
The room in which our Architects' Competition jury carried on its two days of deliberation was severely simple. Nothing was allowed to distract attention from the stacks of entries which were exhibited one by one before the assembled jury. When the best had been selected they were lined up along the wall for intensive and detailed consideration.



PERRY M. DUNCAN, ARCHITECT
HOUSE IN WESTCHESTER COUNTY, N. Y.

FIRST PRIZE CLASS I





SECOND PRIZE CLASS I

GARDNER A. DAILEY, ARCHITECT
MR. LLOYD LIEBES, OWNER,
Hillsborough, Cal.



A DETERMINING factor in the design of this residence was the presence of a relatively steep hill, sloping toward the rear of the site. A solution to this problem was reached, as may be seen on the plans on the next page, by placing the entrance between the first and second floor levels, the entry constituting, in effect, a landing in the stairway. The jury felt that the plans showed evidence of careful study in every part, the rooms being well-proportioned, well-related, and endowed with appropriate individuality. Especially commendable are the provisions for outdoor living and the manner in which the terraces, loggia and landscaping are adapted, both in design and in function, to the house itself. In appearance, the house derives its form from a direct expression of the plan in the clean-cut, simple style which we have come to associate with California. In the rear perspective, at left, note the stair-hall windows, shown in detail on the next page. Completed in February, 1936, this 64,717 cubic foot house (without garage) cost \$22,000 at .34 a cubic foot.

THE first prize winner in Class I of our Architects' Competition receives the commission to design the House & Garden Ideal House for 1938. As explained in the article on page 14, this consideration weighed heavily with the members of the jury. They sought, among the many entries submitted, one which showed a high degree of creative ability combined with an appreciation of fine design and sound planning. The jury was satisfied that it found such qualities in the architect of the house shown on this page. It felt that he had solved his problems with skill and finesse, had evolved a design which was pleasing from every angle, and had handled details and materials with good judgment and to good effect.

It is characteristic of good architecture that it looks easy. The problems have been well solved and are therefore no longer in evidence. Such is the case here. For example, the house has its entrance rather near the street, so the architect devised the forecourt flanked by wings symmetrically disposed to give a feeling of privacy and dignity to the approach. Other outstanding features are the oval stair hall, the interesting garden room which commands a full view of the broad, tree-lined lawn, the upstairs sitting room and the convenient, attractive arrangement of the bedroom suites. The service wing is worked out with admirable skill.

This house was completed in September, 1936, and contains 80,000 cubic feet. G. Richard Davis and Co., of New York, were the builders.

CONSTRUCTION DATA

WALLS: Brick veneer, whitewashed two coats.

INSULATION: Walls, and over 2nd floor ceiling.

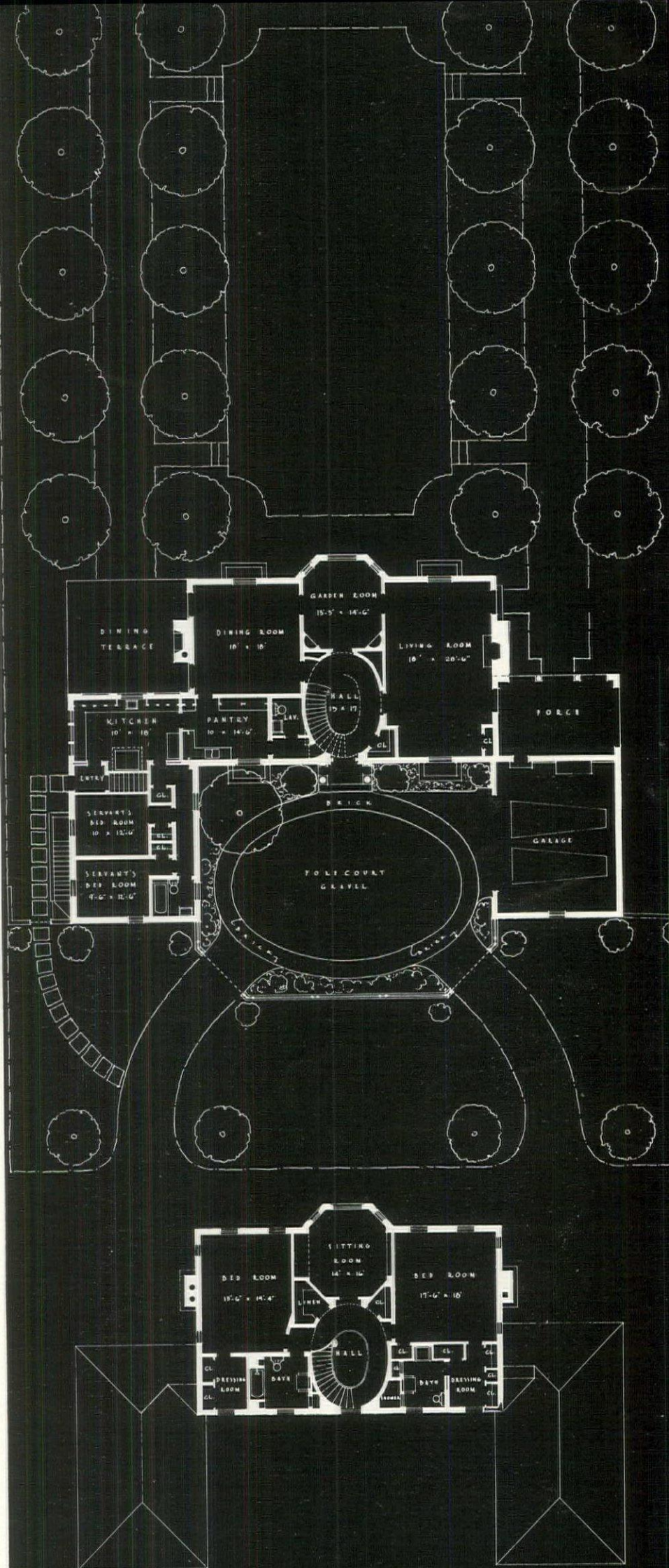
ROOF: Red slate, 16" random width, 6½" to weather.

WINDOWS: Wood, double hung, zinc weather stripping.

HEATING: Winter air conditioning, gas fired.

FLOORS: Main rooms and halls, plain sawed clear oak, stained; garden room, hand made faience tile; baths, tile; kitchen and pantry, linoleum; loggia, terrace, and entrance porch, brick.

COLOR SCHEMES: Walls, white; roof, red; trim, white; blinds, red.



CONSTRUCTION DATA

WALLS: Brick and vertical boarding on wood frame.

INSULATION: Thermal insulation in second floor ceiling, sound insulation in certain partitions.

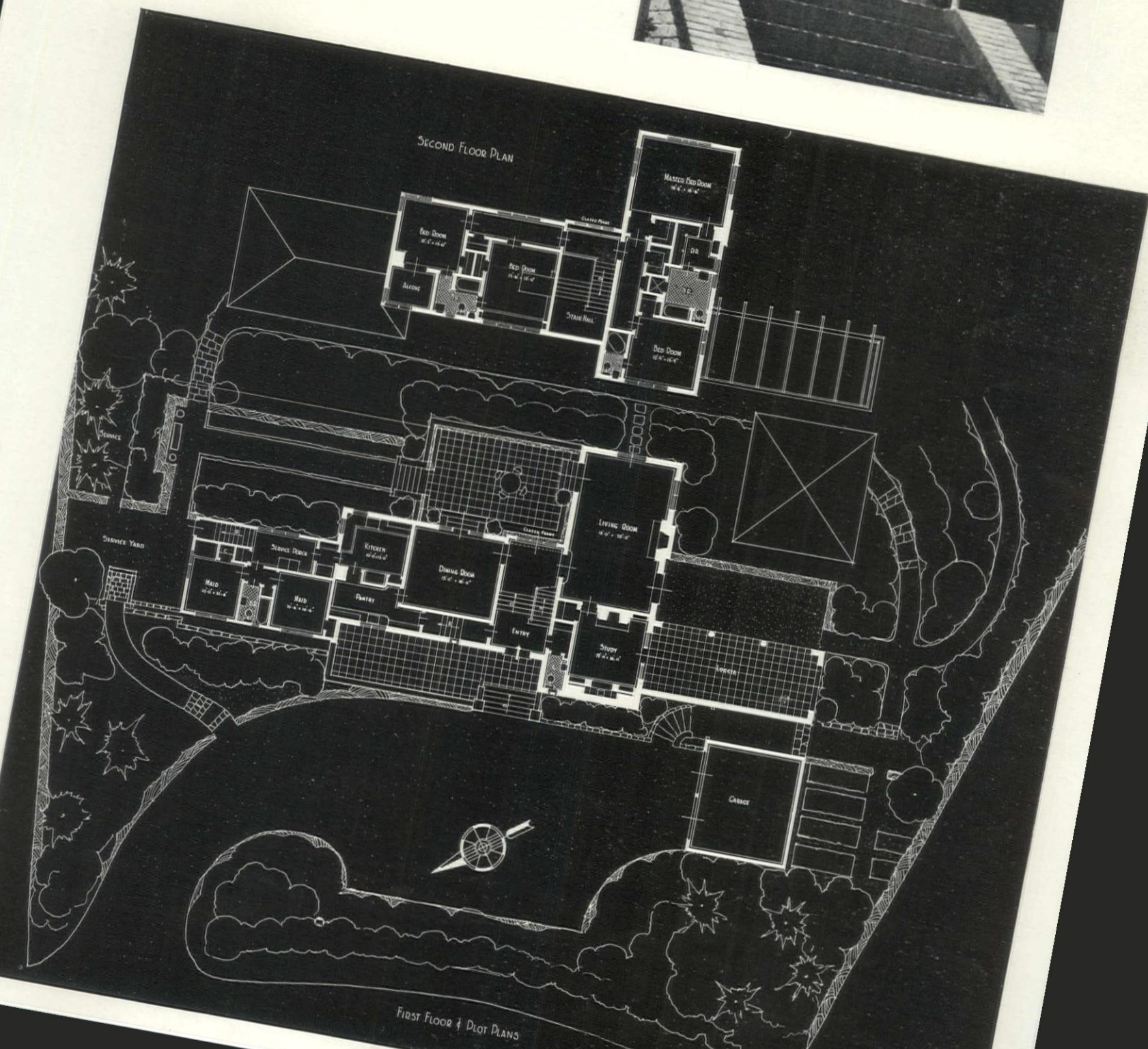
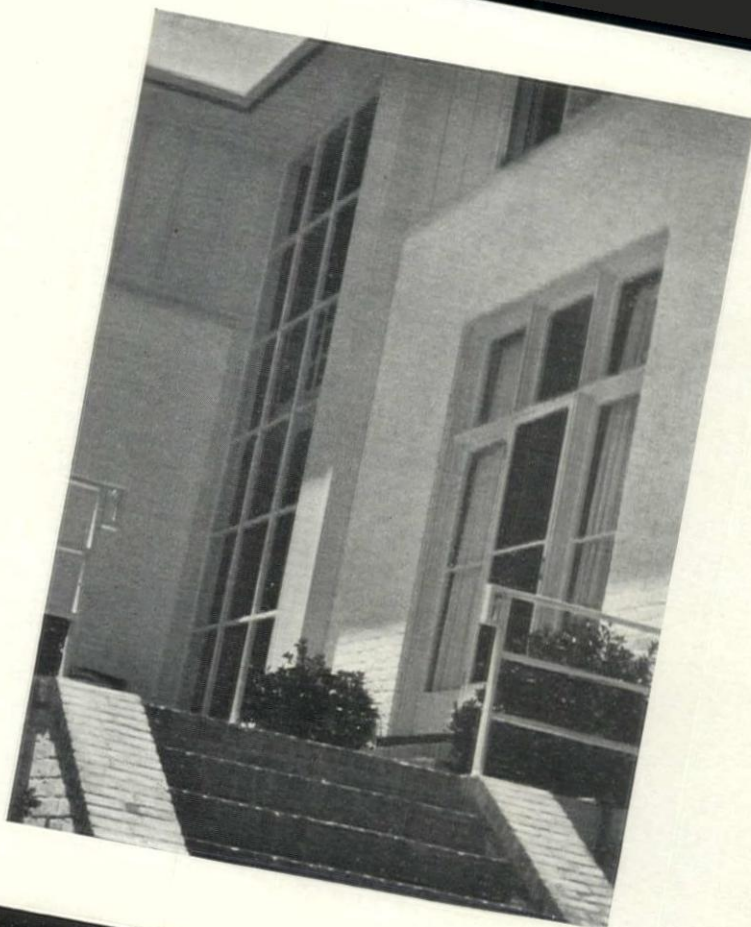
ROOF: Slate applied over roofing felt.

WINDOWS: Wood casement equipped throughout with roller screens and venetian blinds.

HEATING: Filtered and humidified forced warm air system, fired by oil burner.

FLOORS: In main rooms and halls, clear white oak laid over spruce sub floor; elsewhere, cork and linoleum.

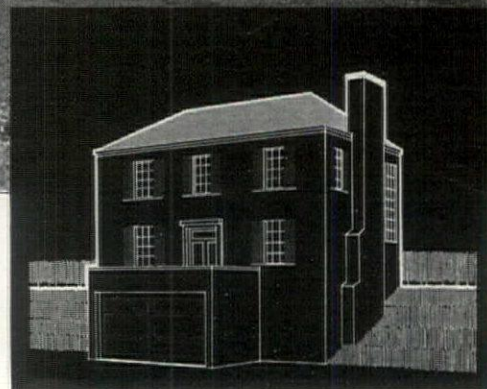
COLOR SCHEME: Walls, white; roof, slate black; trim, white; blinds, white.



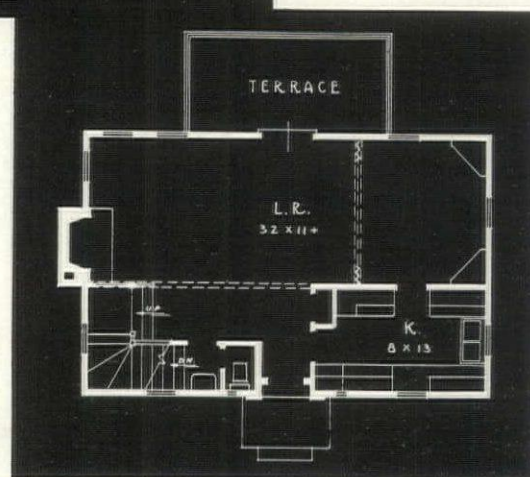
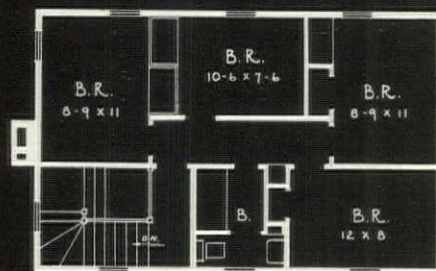
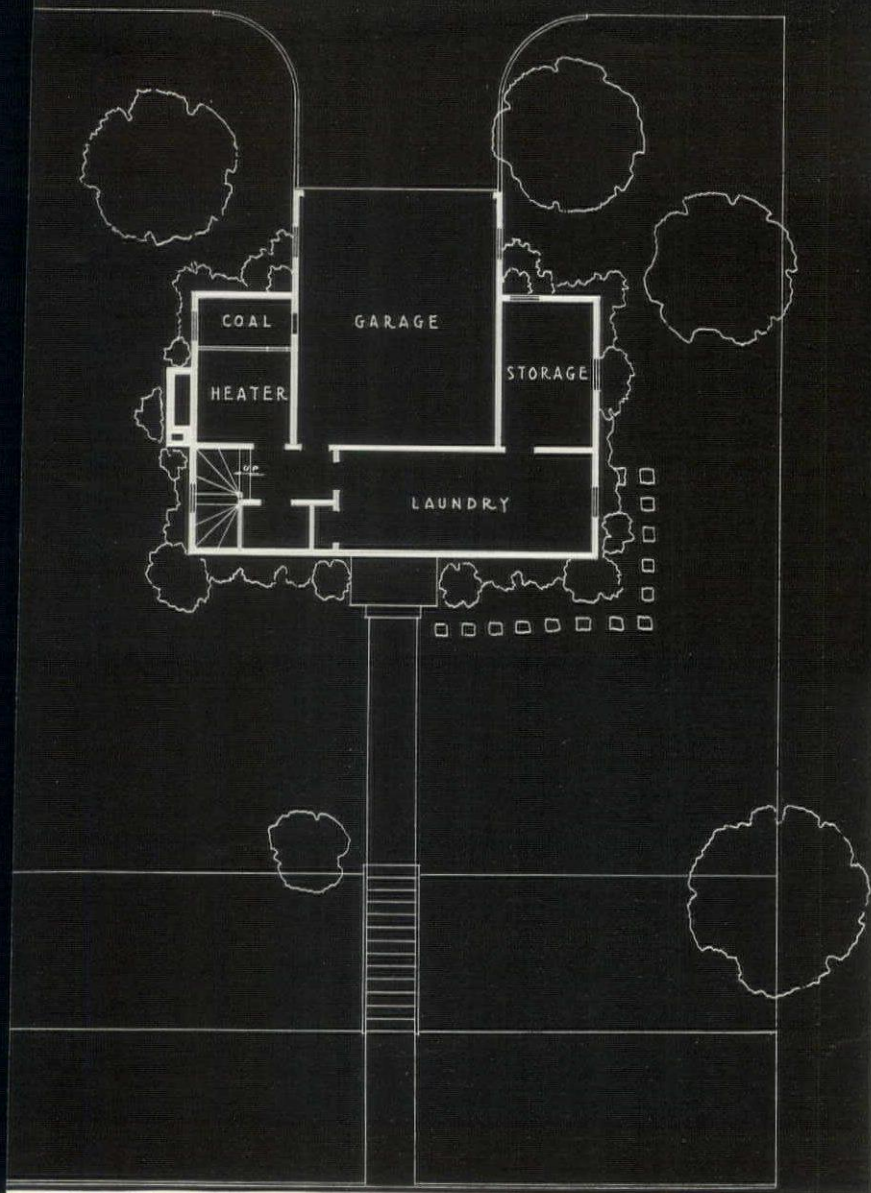
FIRST PRIZE



**F. C. STANTON, ARCHITECT AND OWNER,
Bellingham, Wash.**



THE REAR ELEVATION OF MR. STANTON'S HOUSE



IN awarding the First Prize in Class II to this house twenty miles from the Canadian border in the State of Washington, the Jury commended its clean lines, restrained ornament, and the simplicity of its plan.

The architect-owner's problem was, as he states it, "to design a minimum-sized, low-upkeep dwelling for four adults, requiring separate bedrooms, on a small, steeply sloping plot with a view of Puget Sound to the west. Building restrictions dictated the location of the house on the lot. Grilled windows and the position of the stairs assure privacy from the street." Completed August 1, 1936, Mr. Stanton's house contains 20,000 cubic feet and cost \$6,000 to build at 30 cents a cubic foot. Construction costs are low in this section.

CONSTRUCTION DATA

WALLS: Flush siding on wood frame.

INSULATION: Walls and 2nd floor ceiling.

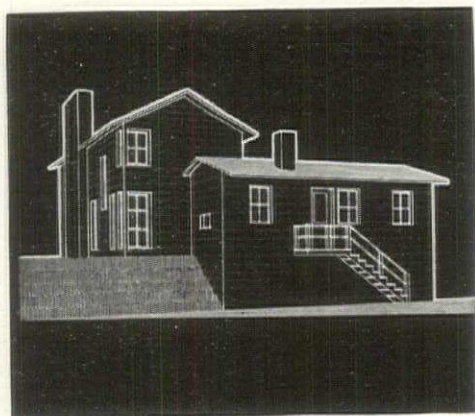
ROOF: Wood shingles.

WINDOWS: Wood, double hung.

HEATING: Forced circulation, high temperature hot water system; coal stoker, bin fed. Split-type air conditioner for living room.

COLOR SCHEME: Walls, white. Trim, white. Door, white. Roof, dark brown. Blinds, dark brown.





WILLIAM WILSON WURSTER, ARCHITECT
MR. GEORGE J. SEEBE, Ross, Cal.

SECOND PRIZE CLASS II



THE creative spirit is as essential to good architectural design as to any other form of art. When architecture becomes so stylized, so hedged about with tradition, that it shows neither originality nor progress it has little validity as a contemporary contribution. The Jury of our Architects' Competition were happy to discover, in the house shown on these two pages, that freshness and vitality which bespeak the creative architect.

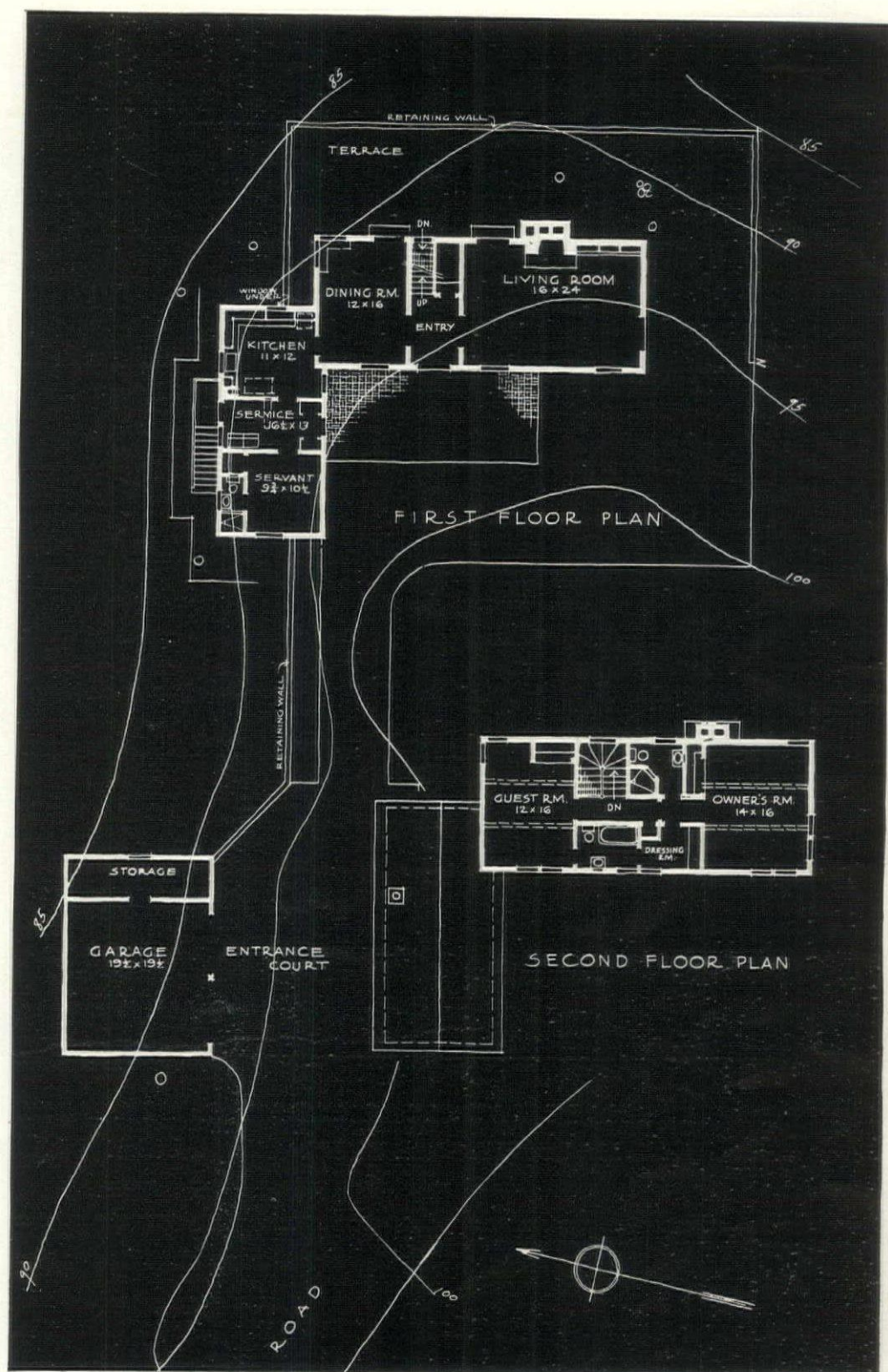
It is important to note that Mr. Wurster's design, while it leans on no traditional style, does not, on the other hand, attempt any radical departure from the forms to which we are accustomed. The architect has been content to effect, first, a comfortable and attractive solution of the problem, in plan, and then—weighing such considerations as climate, cost, materials, and function—to let his design take shape naturally. That the result is infused with the indefinable stamp of the architect's own good taste and judgment, goes without saying.

There are stringent limitations imposed on the designs of a small house which are felt to a considerably lesser degree in the case of a large one. Relatively little opportunity exists for evolving an interesting composition in the mass of the house. The plan must be extremely simple and direct, yet somehow must be attractive. It is, therefore, most commendable that in a house of only six rooms, Mr. Wurster succeeded in producing a design of such variety and interest.

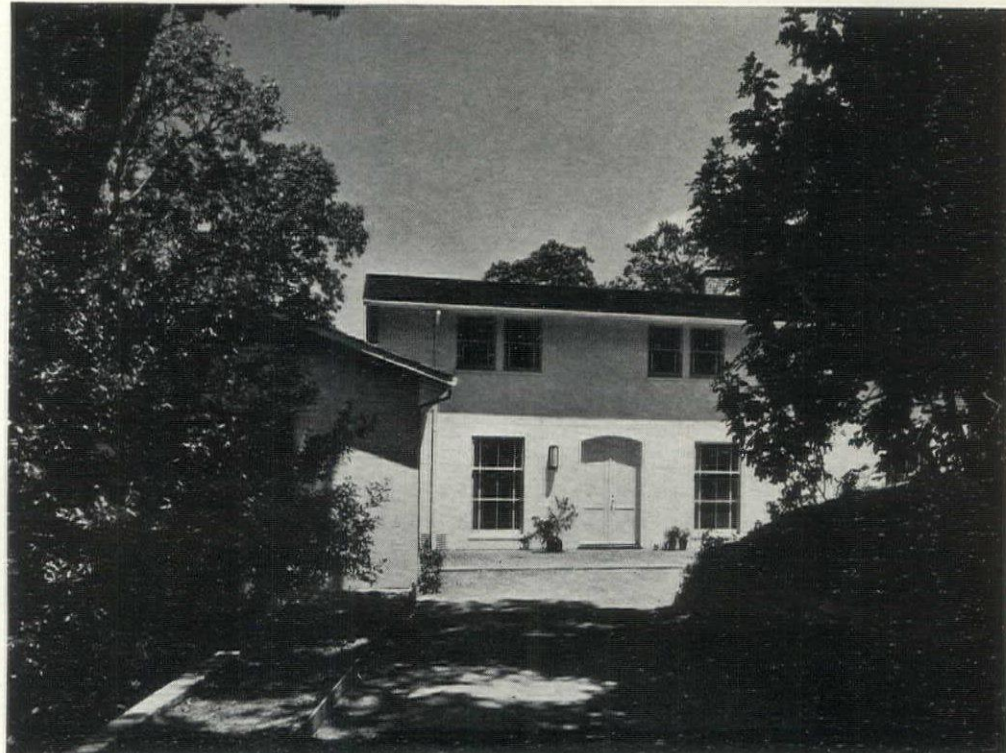
The size of the house and garage, together, is 27,000 cubic feet and the architect estimates the total cost of the building at \$10,850 or approximately 40 cents per cubic foot.

CONSTRUCTION DATA

WALLS: Redwood shiplap on wood frame.
 INSULATION: Over 2nd floor ceiling.
 ROOF: Untreated cedar shingles.
 WINDOWS: Wood, double hung.
 HEATING: Oil burning warm air system.
 FLOORING: In main rooms, plain select white oak.
 COLOR SCHEME: Walls, white; roof, natural weathered; trim, white; blinds, none.



VIEW OF ENTRANCE OF THE SEEBÉ RESIDENCE

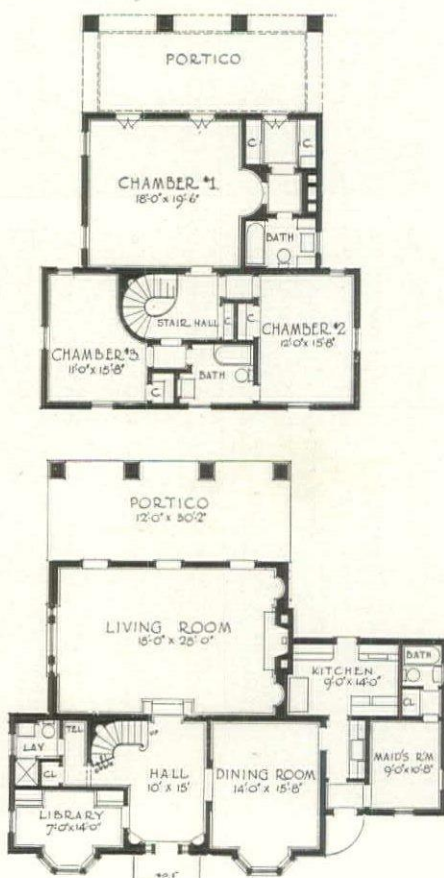




5 MR. ELBERT NAUGLE, RIVERDALE, NEW YORK **JOHN MATTHEWS HATTON AND RALPH SPEARMAN MYERS, ARCHITECTS**

HONORABLE MENTION **CLASS I**

IN DESIGNING this delightful home, the architects demonstrate their understanding of the Neo-classic style by handling it with a certainty and enthusiasm which is highly commendable. The detail, while eloquent of the classic tradition, is simple, appropriate and convincing. The bays which flank the entrance are especially noteworthy. In the plan, we find the living room and portico extremely inviting, while the bedroom above shows an unusually attractive arrangement. The practical features of the plan are well provided for. Completed in February, 1936, this house contains 45,803 cubic feet and was built at a cost of \$16,489.



CONSTRUCTION DATA

WALLS:	Brick veneer
INSULATION:	Walls and 2nd floor ceiling
ROOF:	Composition
WINDOWS:	Wood, double hung
HEATING:	Winter air conditioning

COLOR SCHEME

WALLS:	Red
ROOF:	Green
TRIM:	White
BLINDS:	Green



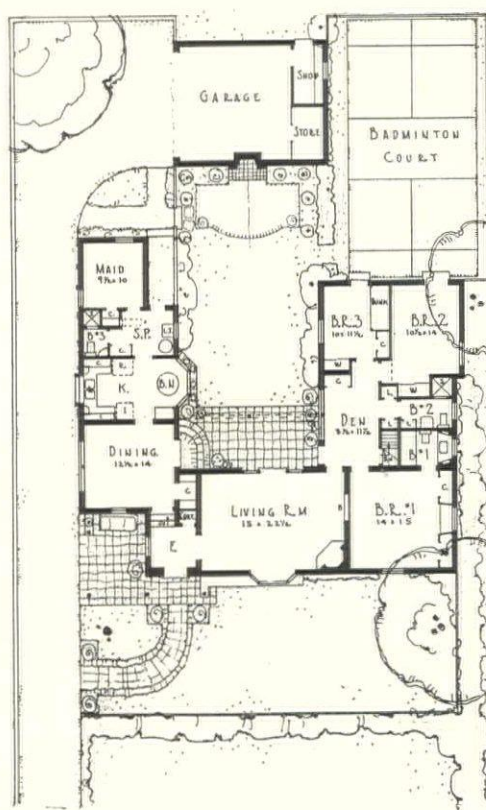
6 MR. H. P. LARKIN, WHITTIER, CALIF.
FRANK W. GREEN, ARCHITECT

CONSTRUCTION DATA

WALLS:	Brick veneer
INSULATION:	Living room ceiling
ROOF:	Wood shingles
WINDOWS:	Wood, double hung
HEATING:	Gas; hot air

COLOR SCHEME

WALLS:	Cream
ROOF:	Brown
TRIM:	White
BLINDS:	White



HONORABLE MENTION CLASS I

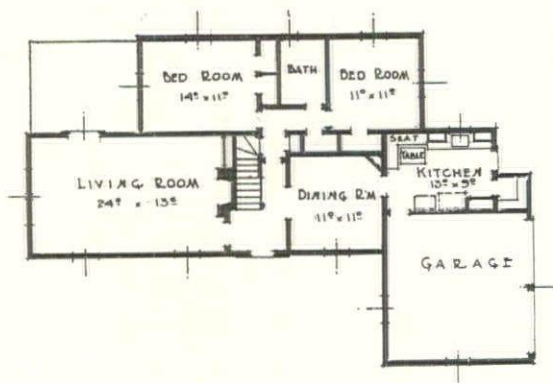
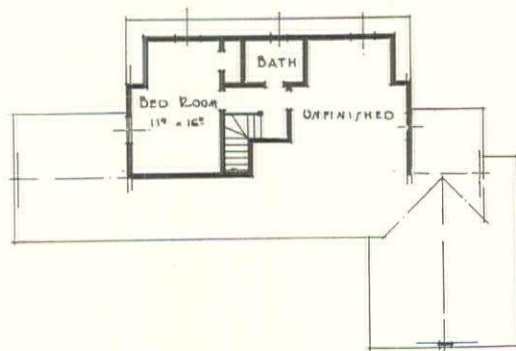
ONE of the interesting features of this home is the manner in which the house is related to the grounds. As a matter of fact, the outdoor areas are as much a part of the house as any of the rooms, being planned with the same care to fulfill functions no less definite. Such intensive and intelligent use of the lot affords not only privacy and a maximum use of the property but offers an attractive outlook from every room. It is of course ideally suited to the California climate. This house was completed in December, 1935, and contains approximately 25,000 cubic feet, exclusive of the garage. Cost estimates are not available.



7 MR. HERBERT T. HENZEL, CHAPPAQUA, NEW YORK JAMES W. KIRST, ARCHITECT

HONORABLE MENTION, CLASS II

THERE is a quality of rhythm in good architecture, and when a house fits nicely on its site, is well balanced and attractively composed from every angle, as in the case of this Colonial type home, we may be sure it is not by accident but by design. An interesting feature of the plan is that it provides for certain changes as family requirements change. Thus two bedrooms may be added on the second floor without exterior alteration, while on the ground floor one bedroom may become a library and the other a maid's room. This house contains 24,000 cubic feet and cost \$7,200.



CONSTRUCTION DATA

WALLS:	Shingle
INSULATION:	Over 2nd floor ceiling
ROOF:	Slate
WINDOWS:	Wood, double hung
HEATING:	Oil; steam

COLOR SCHEME

WALLS:	White
ROOF:	Black
TRIM:	White
BLINDS:	Black



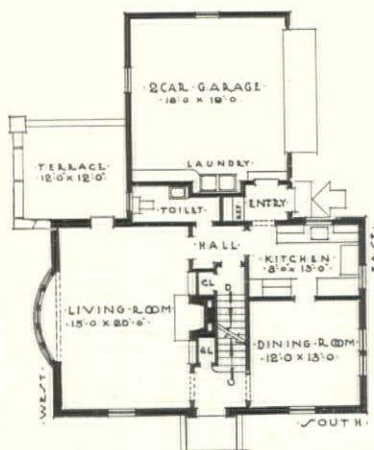
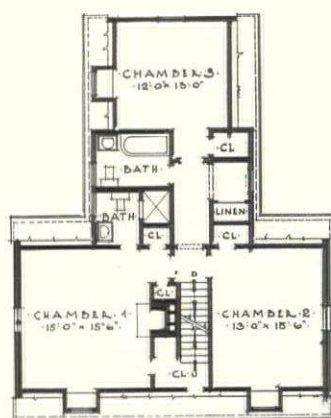
8 MR. EDWARD R. DEVEREUX, MANHASSET, NEW YORK REINHARD M. BISCHOFF, ARCHITECT

CONSTRUCTION DATA

WALLS:	Brick veneer
INSULATION:	Walls and 2nd floor ceiling
ROOF:	Slate
WINDOWS:	Wood, double hung
HEATING:	Oil; steam

COLOR SCHEME

WALLS:	White
ROOF:	Black
TRIM:	White
BLINDS:	Blue



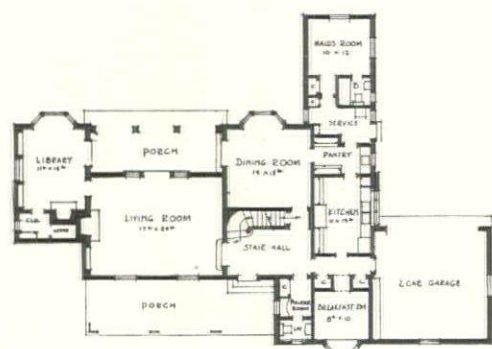
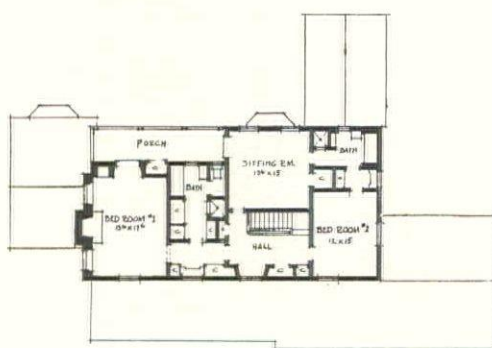
HONORABLE MENTION CLASS II

THE excellence of this design is due in part to the plan, which provides attractive rooms, good circulation, plenty of light, and adequate storage space. But we also find, in the exterior, the distinctive mark of a good designer. The composition is handled with directness and simplicity, yet with careful regard for good proportion, balance, and an understanding use of structural materials. All details are kept in appropriate scale, nothing too much is added for the sake of mere embellishment—the downfall of some otherwise good designs—and the result is pleasing. This 28,500 cubic foot house, completed in April, 1937, cost \$8,365.



9 MR. OSCAR C. SATTINGER, WESTWOOD, CALIFORNIA H. ROY KELLEY, ARCHITECT

THIS house is rather Colonial in its general feeling, but the influence of the California climate, expressing itself through the architect's design, has produced subtle changes which make it almost a new style of architecture. The overhang of the roof is emphasized to shelter the second-story windows; the pitch of the roof, where rain (they say) is not a problem, has been lessened. The plan is radically different from any New England Colonial scheme. The handling of the service unit in this house is particularly effective. The house was completed in 1935. It contains 52,824 cubic feet. Cost figures are not available.



CONSTRUCTION DATA

WALLS:	Brick veneer and wood siding
INSULATION:	Walls and 2nd floor ceiling
ROOF:	Wood shingles
WINDOWS:	Wood, double hung
HEATING:	Gas-fired unit furnaces

COLOR SCHEME

WALLS:	White
ROOF:	Weathered gray
TRIM:	White
BLINDS:	Gray



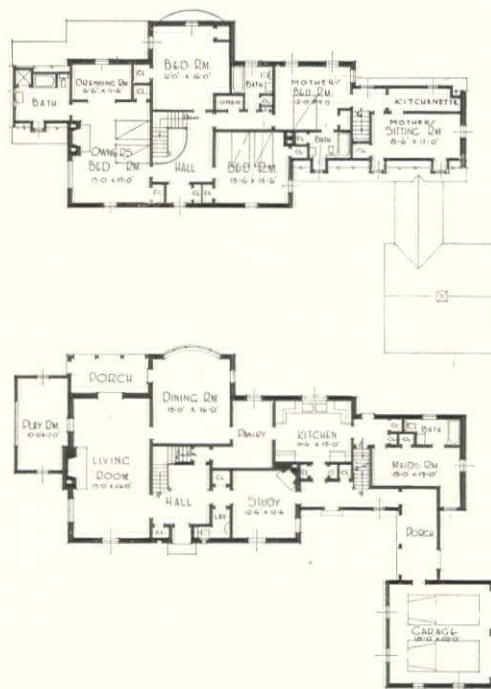
10 MR. ROBERT THURBER, WELLESLEY HILLS, MASSACHUSETTS ROYAL BARRY WILLS, ARCHITECT

CONSTRUCTION DATA

WALLS:	Brick veneer, boarding
INSULATION:	In walls and roof
ROOF:	Wood shingles
WINDOWS:	Wood, double hung
HEATING:	Winter air conditioning

COLOR SCHEME

WALLS:	White
ROOF:	Warm gray
TRIM:	White
BLINDS:	Dark blue

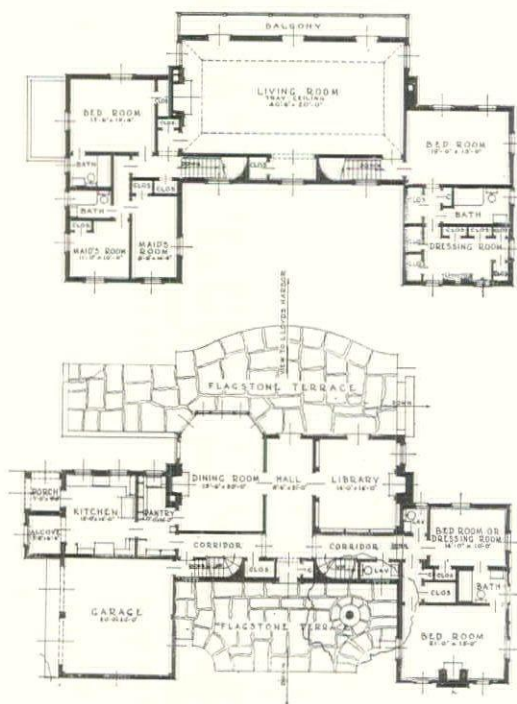


THE plans of this attractive Colonial house merit special attention because they demonstrate the importance of skillful planning in solving the owner's problems. It was required in this case to provide, for the owner's mother, a small but complete apartment containing bedroom, sitting room, kitchenette and a separate entrance and stairs. This unit is shown in the second floor plan. Note, also, that the study can be reached either from the hall or from the side entrance, and that the play-room, frequently relegated to the basement, here assumes the role of a useful accessory to the living room. This home, of approximately 61,400 cubic feet, was completed in 1936.



11 MR. NEVIL FORD, LLOYD'S NECK, NEW YORK POLHEMUS AND COFFIN, ARCHITECTS

TO TAKE full advantage of a fine view over Lloyd's Neck Harbor, to reduce the second floor hall to a minimum, and to give extra ceiling height to the living room without added expense, the architects of Mr. Ford's Long Island home wisely put the living room on the second floor and gave it the full width of the main body of the house. The relation of other elements of the plan, the service quarters, garage, etc., is well studied. The upstairs living room makes possible a large library and dining room. This house was completed early in 1936. It contains 60,000 cubic feet and cost \$27,000 to build at 45 cents a cubic foot.



CONSTRUCTION DATA

WALLS:	Brick veneer
INSULATION:	Walls and 2nd fl. ceiling
ROOF:	Slate
WINDOWS:	Wood casements
HEATING:	Winter air conditioning

COLOR SCHEME

WALLS:	White
ROOF:	Black
TRIM:	Light gray
BLINDS:	Darker gray



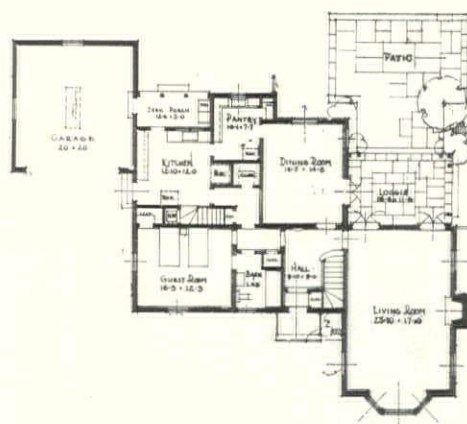
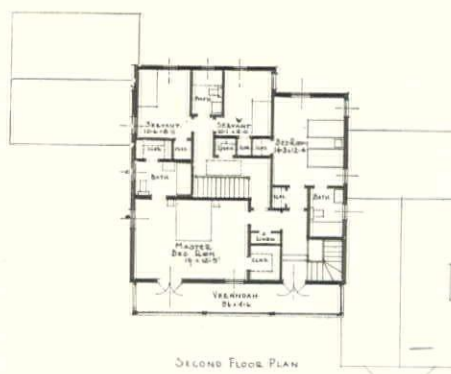
12 HENRY K. HARDING, PALM BEACH, FLORIDA HENRY K. HARDING, ARCHITECT

CONSTRUCTION DATA

WALLS:	Clapboard on frame
INSULATION:	None
ROOF:	Wood shingles
WINDOWS:	Wood, double hung
HEATING:	None

COLOR SCHEME

WALLS:	Pale yellow
ROOF:	White
TRIM:	White
BLINDS:	White

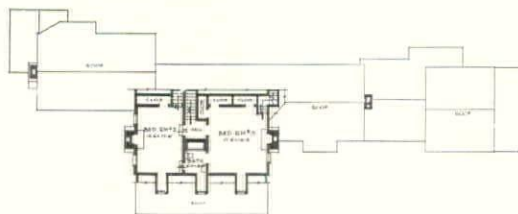


THE reflection of the sun on the wood shingles of this Florida house makes it look like one of the white-roofed houses of Bermuda. It is, in fact, in Palm Beach and its color scheme, pale yellow and white, as well as its floor plan identify it as a comfortable house for the sub-tropics. The big living-room, in a wing by itself opening on the loggia and patio, is a pleasant feature of the first floor plan. The service units, pantry, kitchen and porch, are also well arranged. Completed November 1, 1936, the house contains 37,700 cubic feet. It was constructed at a cost of 37 cents a cubic foot, a total of \$13,949.



13 MR. TAYLOE ROGERS, ROANOKE COUNTY, VIRGINIA RANDOLPH FRANTZ AND JOHN M. THOMPSON, ARCHITECTS

THE prototype of this interesting new home was the Southwest Virginia farmhouse of the late Eighteenth Century. A portion of it, as shown above, is built of logs which were hand hewn with a broad-axe in the traditional manner. Floors, interior wall finishes, and even the hand-wrought iron fixtures and hardware are in harmony with existing local examples. The baths and service quarters are modern in every respect. The building was completed in November, 1936, and, at 37 cents per cubic foot for 67,500 cubic feet, cost about \$25,000.



CONSTRUCTION DATA

WALLS:	Clapboard and log
INSULATION:	Over 2nd floor ceiling
ROOF:	Asbestos shingles
WINDOWS:	Wood, double hung
HEATING:	Coal stoker; vapor

COLOR SCHEME

WALLS:	White
ROOF:	Slate gray
TRIM:	White
BLINDS:	Dark green



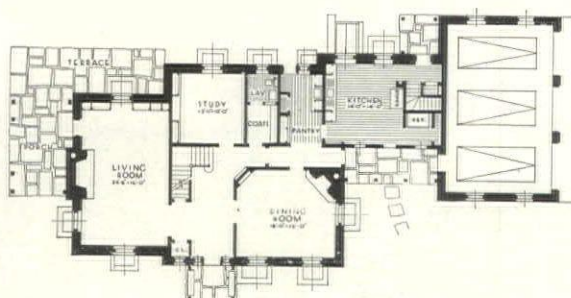
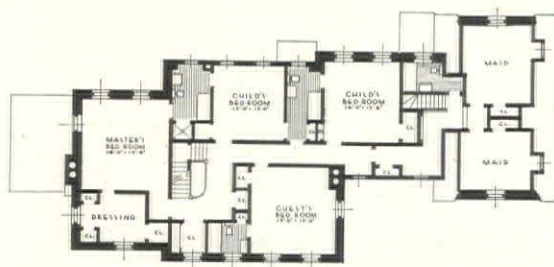
14 HOUSE AT MERION SQUARE, PENNSYLVANIA SAVERY, SCHEETZ & GILMOUR, ARCHITECTS

CONSTRUCTION DATA

WALLS:	Stone and flush siding
INSULATION:	2nd floor ceiling and frame walls
ROOF:	Red cedar shingles
WINDOWS:	White pine, double hung
HEATING:	Oil; hot water

COLOR SCHEME

WALLS:	Stone and white
ROOF:	Brown
TRIM:	White
BLINDS:	Green

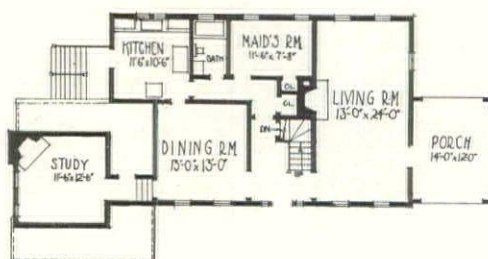
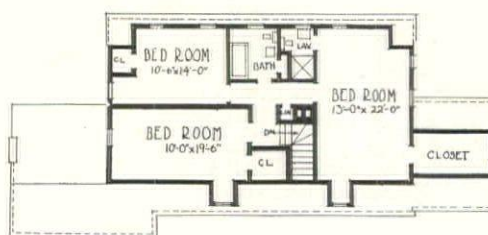


DESIGNED for a family of four, including two small children, this suburban home was planned to combine indoor and outdoor living and to harmonize its architecture—Pennsylvania farmhouse style—with the surrounding countryside. The family bedrooms were to be connecting, with the guest room and bath separate. A special problem was presented by the necessity of maintaining proper orientation and, at the same time, the privacy necessary for outdoor living. The house was completed October 15, 1936. It contains 68,528 cubic feet and cost \$24,561.85 to build at 36 cents a cubic foot.



15 MR. MAURICE A. DUNLAVY, WELLESLEY HILLS, MASSACHUSETTS ROYAL BARRY WILLS, ARCHITECT

In designing this delightful New England Colonial home, the architect took advantage of a difference in level at one end of the site and placed the garage at a lower elevation than the main mass of the house. At the same time, he succeeded in solving a special problem, which was to provide a study conveniently accessible from the first floor, yet so isolated from the other rooms as to give complete privacy when desired. A well-studied plan should include such special provisions, as does this one, without unduly affecting the remainder of the design. The size of the house is estimated at approximately 35,200 cubic feet.



CONSTRUCTION DATA

WALLS:	Clapboard and shingle
INSULATION:	Over 2nd floor ceiling
ROOF:	Wood shingles
WINDOWS:	Wood, double hung
HEATING:	Winter air conditioning

COLOR SCHEME

WALLS:	White
ROOF:	Weathered gray
TRIM:	White
BLINDS:	Dark Green



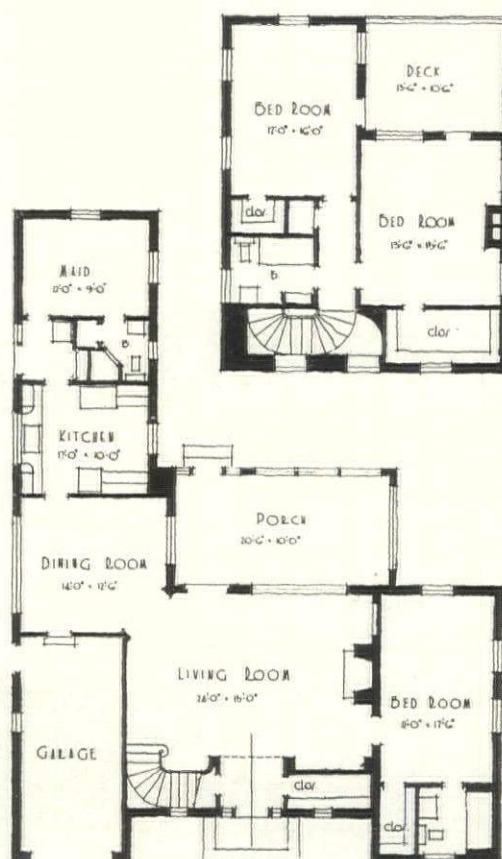
16 MISS CARRIE M. FLOETHER, MIAMI BEACH, FLORIDA CARLOS B. SCHOEPPPL, ARCHITECT

CONSTRUCTION DATA

WALLS:	Stucco on concrete block
INSULATION:	None
ROOF:	Shingle tile
WINDOWS:	Steel casement
HEATING:	Electric heaters in baths

COLOR SCHEME

WALLS:	Buff
ROOF:	Gray white
TRIM:	White
BLINDS:	White

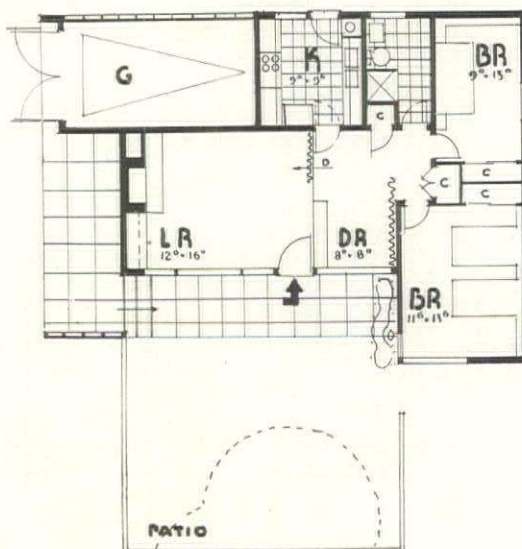


AS MIGHT be supposed, much of the contemporary work being done in Florida shows in its design the influence of climate and local tradition. These tend to give, even to those houses which are designed in a style familiar to other parts of the country, a flavor characteristically Floridian. Thus, in the house shown here, the Colonial inspiration is obvious, but such details as the overhang of the rather flat roof, the metal window grilles and the color scheme belong rather to Florida or California than to the North. Completed in January, 1937, this 27,800 cubic foot house is said to have been built for \$12,000.



17 MR. THOMAS TROY, NEEDHAM, MASSACHUSETTS ROYAL BARRY WILLS AND HUGH A. STUBBINS, ARCHITECTS

THE special problem controlling the planning of this little house was to design, for a young couple, a country home, the carrying charges of which would be no more than those of a city apartment. Economic necessity prompted the adoption of a straightforward modern style developing directly from a plan which, for all its compact practicality, is not without charm and distinction. The division between dining and living rooms is marked by a single step and by a waist-high case of shelves projecting from the wall. The size of the house is about 12,000 cubic feet and it was built late in 1936. Cost estimates are not available.



CONSTRUCTION DATA

WALLS:	Matched boards on frame
INSULATION:	In walls and roof
ROOF:	Tar and gravel
WINDOWS:	Casement
HEATING:	Gas; warm air

COLOR SCHEME

WALLS:	White
ROOF:	Gray
TRIM:	Dark blue
BLINDS:	None



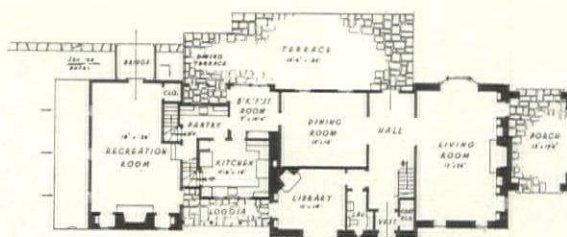
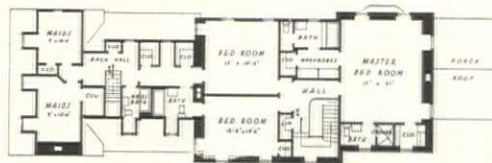
18 STERLING RIDGE, HARRISON, NEW YORK HUNTER McDONNELL, ARCHITECT

CONSTRUCTION DATA

WALLS:	Stone veneer and shingles
INSULATION:	Walls and over 2nd floor ceiling
ROOF:	Vermont slate
WINDOWS:	Wood, double hung and casements
HEATING:	Gas; winter air conditioning

COLOR SCHEME

WALLS:	White and stone
ROOF:	Slate reds
TRIM:	White
BLINDS:	White

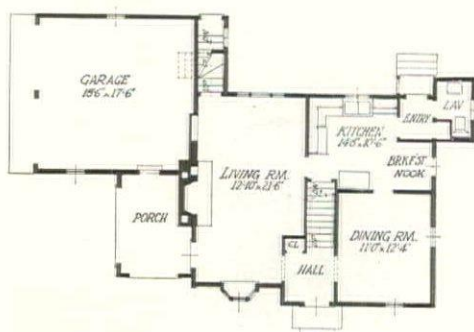
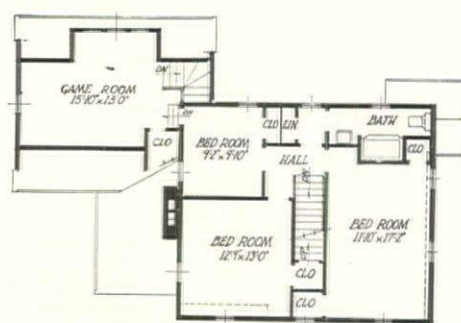


SOME of the special problems confronting the architect in the design of this interesting Pennsylvania Colonial house were: to locate the 3-car garage, motor court, and service entrance on the basement level of the house in a concealed location; to provide a recreation room on the ground floor, and to maintain an unbroken expanse of lawn and garden on the south side with access to the garden from all the principal rooms on the ground floor. It is interesting to study the floor plans with these special problems in mind. This house was completed in August, 1936. It contains 80,000 cubic feet. Cost data is not available.



19 MR. WILLARD D. MARTIN, LYNNFIELD, MASSACHUSETTS DAVID J. ABRAHAMS, ARCHITECT

CHARACTERISTIC of the early New England homes are the narrow clapboards, massive chimney, and, in detail and general appearance, a quality reminiscent of Elizabethan days. In this contemporary home we find evidence of the continuing vitality of this tradition. The game room, over the garage, is accessible both from the child's bedroom and from the living room. This room is designed for subsequent conversion into a study. The remainder of the plan, while providing rooms of adequate size, is arranged for maximum economy. The house was completed in April, 1937, and contains approximately 27,500 cubic feet.

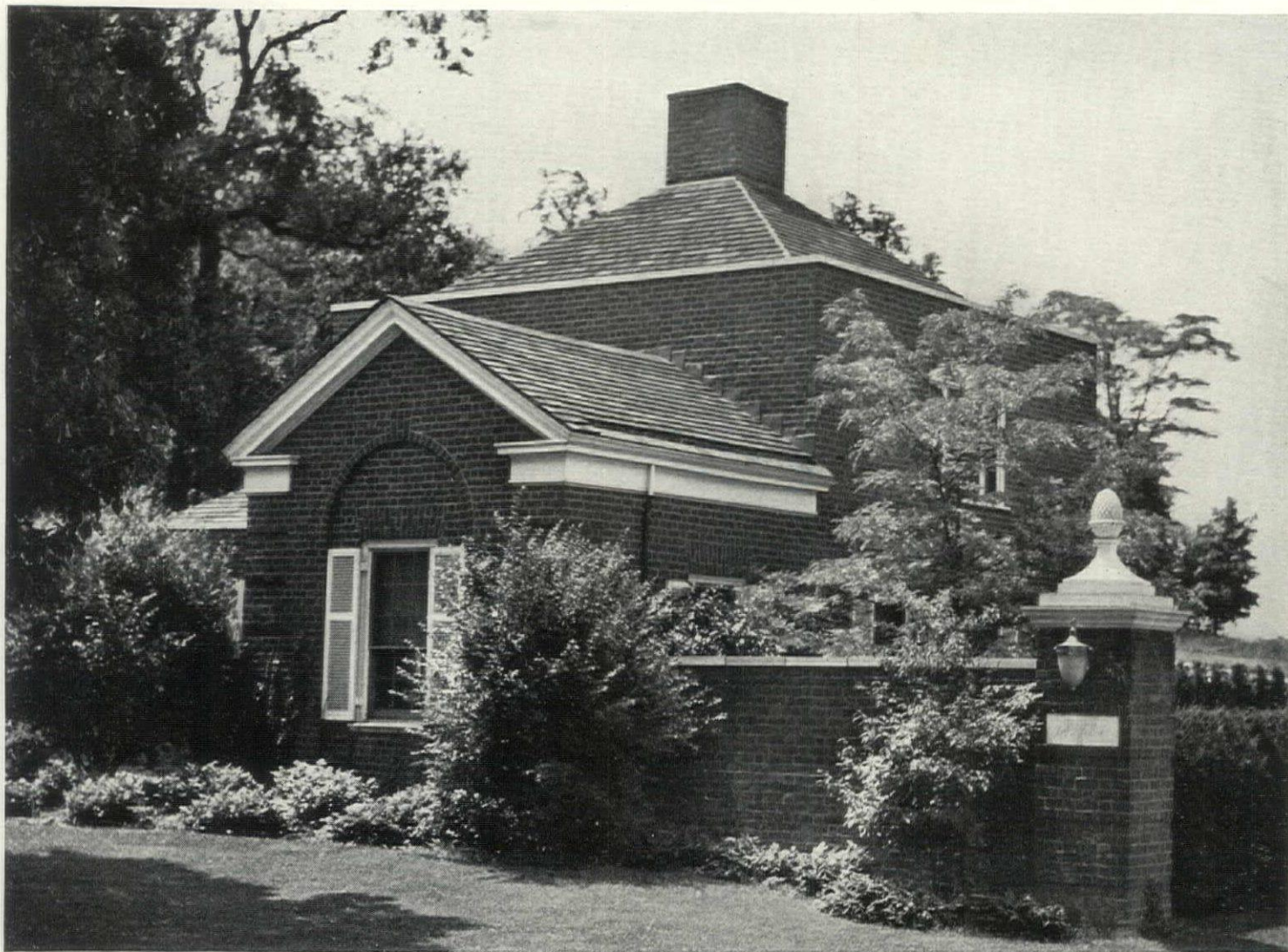


CONSTRUCTION DATA

WALLS:	Clapboard on frame
INSULATION:	Over 2nd floor ceiling
ROOF:	Antique slate
WINDOWS:	Wood, double hung
HEATING:	Oil; vacuum steam

COLOR SCHEME

WALLS:	Dark brown
ROOF:	Black
TRIM:	Buff
BLINDS:	White



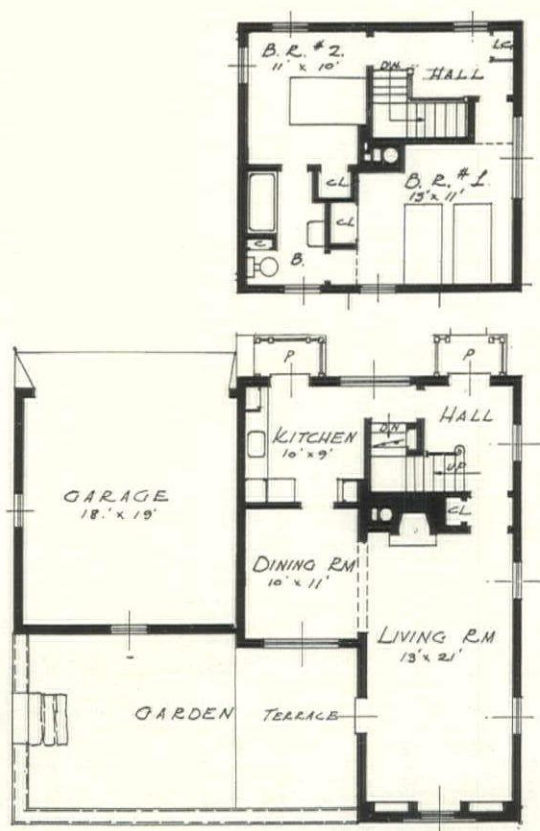
20 MR. ROBERT LEE, SHORT HILLS, OHIO J. DOUGLAS LORENZ, ARCHITECT

CONSTRUCTION DATA

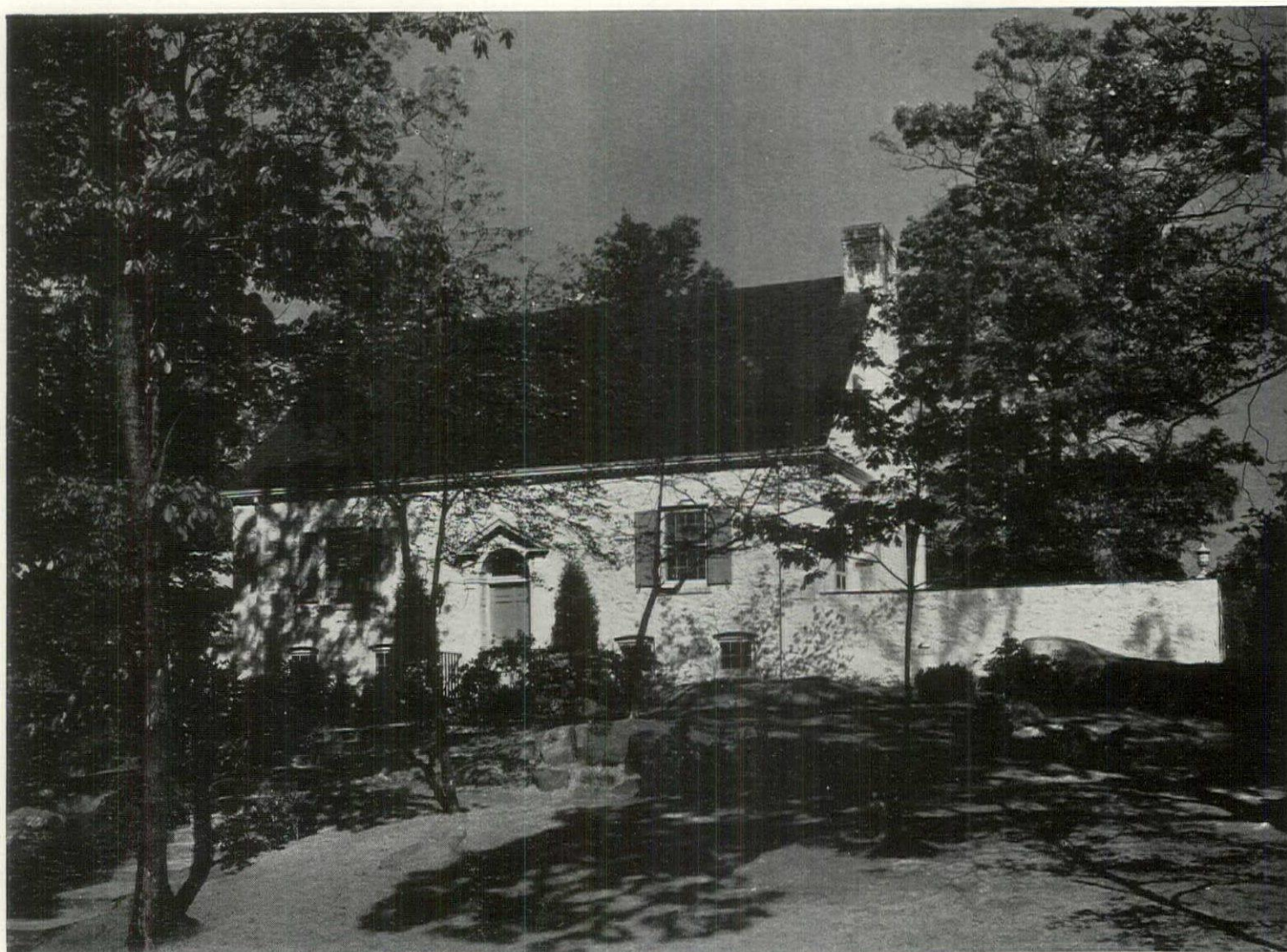
WALLS:	Brick veneer
INSULATION:	Walls and 2nd fl. ceiling
ROOF:	Shingle tile
WINDOWS:	Wood, double hung
HEATING:	Gas; warm air

COLOR SCHEME

WALLS:	Red brick
ROOF:	Brown
TRIM:	White
BLINDS:	White

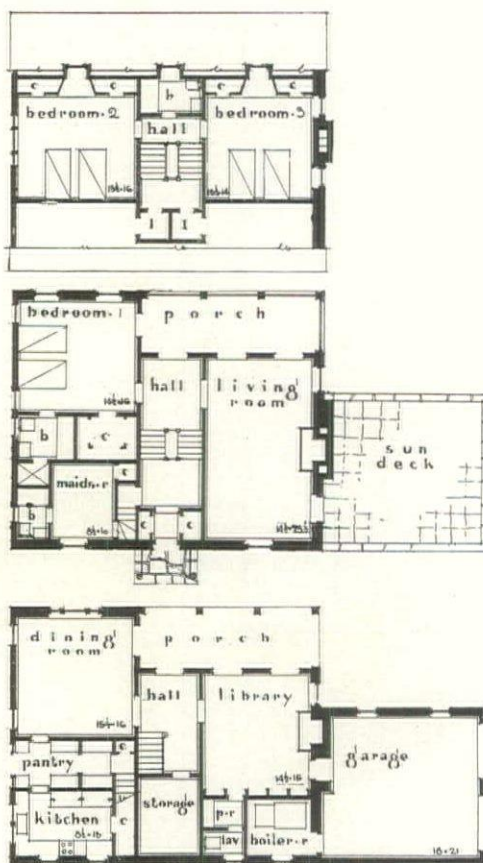


THIS Georgian house near Dayton is distinctly reminiscent of the square, compact houses of Eighteenth Century England. The simple façade, terminating in a low parapet at the roof, has a great deal to recommend it to modern designers. In this house a wing has been added at the rear to lengthen the living room and provide shelter for the garden terrace. The service entrance, on the front of the house, is screened by a porch, and the front entrance has a corresponding shelter. The landscaping of Mr. Lee's house is by Samuel Zehrung and George Siebenthaler. Completed in August, 1935, cost not available.



21 MR. WILLIAM H. RADEBAUGH, HARTSDALE, NEW YORK BENSON ESCHENBACH, ARCHITECT

A ROCKY ledge bisecting the property was a determining factor in the planning of this home. A difference in elevation between the front and back of the site, coupled with a view across a valley towards the rear, suggested placing the dining room, kitchen, and library below the level of the front entrance and living room. A sloping site, while constituting a problem, may thus be turned to advantage and permit the ingenious architect to develop an unusually interesting plan. This house, the architect tells us, was completed in April, 1935, contains 47,300 cubic feet and was built at an estimated cost of 40 cents per cubic foot.



CONSTRUCTION DATA

WALLS:	Stone on frame
INSULATION:	Over 2nd floor ceiling
ROOF:	Slate
WINDOWS:	Wood, double hung
HEATING:	Winter air conditioning

COLOR SCHEME

WALLS:	White
ROOF:	Black
TRIM:	White
BLINDS:	Warm gray



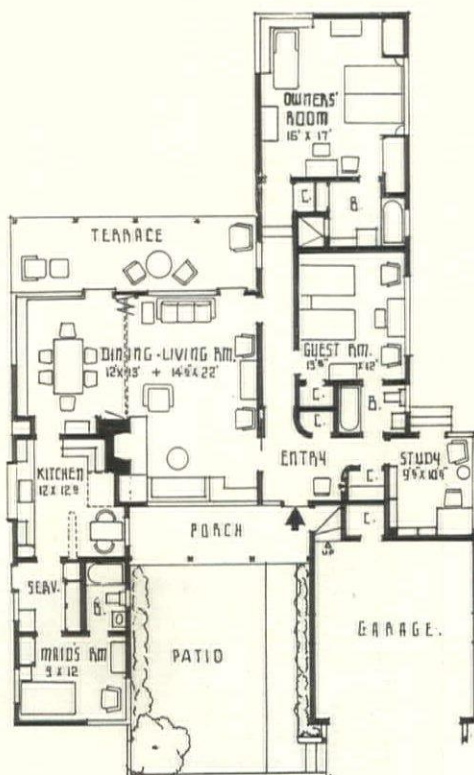
22 MISS ANNE R. GILBERT, PASADENA, CALIFORNIA ERLE WEBSTER AND ADRIAN WILSON, ARCHITECTS

CONSTRUCTION DATA

WALLS:	Stucco on frame
INSULATION:	None
ROOF:	Cedar shingles
WINDOWS:	Steel casement
HEATING:	Gas; forced warm air

COLOR SCHEME

WALLS:	Pale green
ROOF:	Brown
TRIM:	White
BLINDS:	None

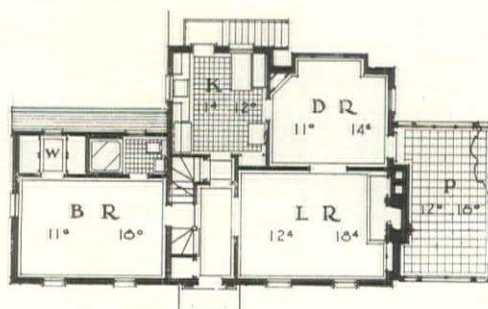
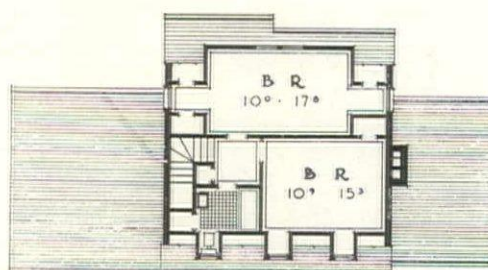


THE problem here was to design, for an average-sized lot, a house having privacy from the street and a feeling of openness to the outdoor living areas. The garage and service wing are used as buffers on the street side; the dining-living room space may be divided by a folding partition or used as one large space. The architect has achieved a logical separation of the various elements of the plan; the bedrooms, study, indoor and outdoor living areas and service space are handled as units and placed in a considered relationship to one another. Completed in November, 1936, this house is approximately 25,250 cubic feet in size.



23 4614 BROOKVIEW DRIVE, WESTHAVEN, MARYLAND SCHREIER AND PATTERSON, ARCHITECTS

AN INTERESTING feature of this house is the ground floor bedroom. Built on a level slightly lower than that of the rest of the house, it comprises a complete and isolated unit. It is reached by a short flight of stairs at the end of the hall opposite the entrance door. The remainder of the plan, while simple and direct, provides rooms of adequate size with good light and ventilation. The modified Colonial design is in keeping with the location of the house and fits well in a wooded setting. This house was completed in April, 1937, and is approximately 31,400 cubic feet in size. Cost figures are not available.



CONSTRUCTION DATA

WALLS:	Brick and cinder block
INSULATION:	Over 2nd floor ceiling
ROOF:	Slate
WINDOWS:	Wood, casement and double hung
HEATING:	Gas; hot water

COLOR SCHEME

WALLS:	White
ROOF:	Black
TRIM:	White
BLINDS:	Dark blue



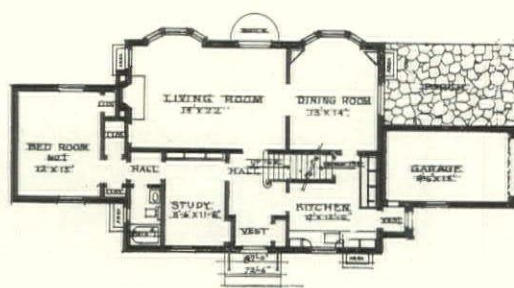
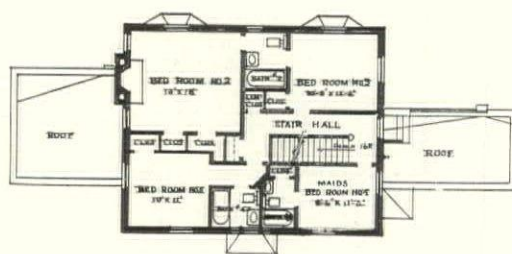
24 MR. RALPH B. MACK, HIGHLAND PARK, ILLINOIS GILBERT P. HALL, ARCHITECT

CONSTRUCTION DATA

WALLS:	Brick veneer
INSULATION:	Over 2nd floor ceiling
ROOF:	Composition shingles
WINDOWS:	Wood, double hung
HEATING:	Winter air conditioning

COLOR SCHEME

WALLS:	Oyster white
ROOF:	Dark gray
TRIM:	White
BLINDS:	Warm gray

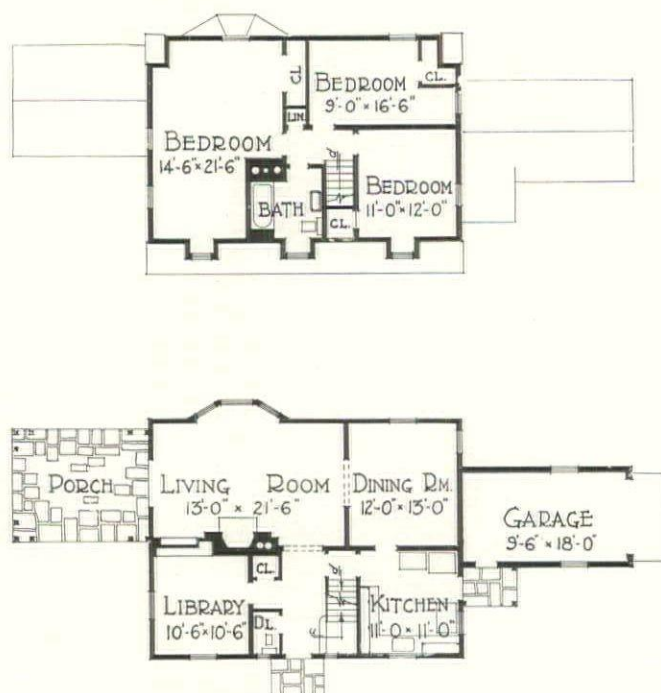


HERE a modified Georgian design is successfully adapted to a hilly site, said to be the highest point of land in Highland Park. The first floor window shutters, carried down almost to ground level, give a strong vertical accent to the façade. The second floor has three masters' bedrooms, two baths, and a maid's room and bath. There is a guest's bedroom in the 1-story wing at the left, with a connecting bathroom which may be used as a downstairs lavatory. Access to the garage is through the kitchen. This house contains 37,131 cubic feet. It cost 43 cents a cubic foot to build at the beginning of 1936, a total of \$15,745.



25 MR. FRANK M. POWELL, METUCHEN, NEW JERSEY KENNETH W. DALZELL, ARCHITECT

SIMPLE Colonial in feeling, this New Jersey house has a plan as straightforward and as devoid of waste space as many houses in the functional modern style. The floor space devoted to halls and passages is at a minimum. The three bedrooms and the bathroom open directly off the little second floor hall. The first floor rooms are similarly in close relation to each other. A large bay and French doors opening on a covered porch light the living room. The library is of good size. Completed in May of this year, the house contains 28,275 cubic feet and at an estimated 32 cents a cubic foot, cost \$9,050 to build.



CONSTRUCTION DATA

WALLS:	Wood shingle on frame
INSULATION:	Over 2nd floor ceiling
ROOF:	Wood shingle
WINDOWS:	Wood, double hung
HEATING:	Oil, winter air conditioning

COLOR SCHEME

WALLS:	White
ROOF:	Weathered gray
TRIM:	White
BLINDS:	Dark green



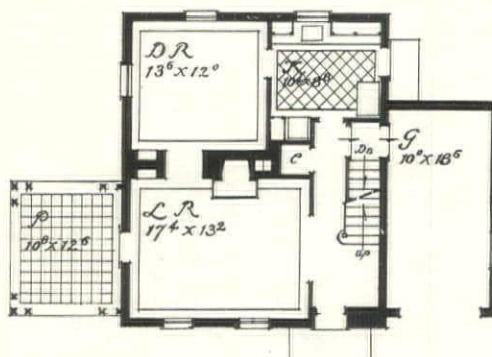
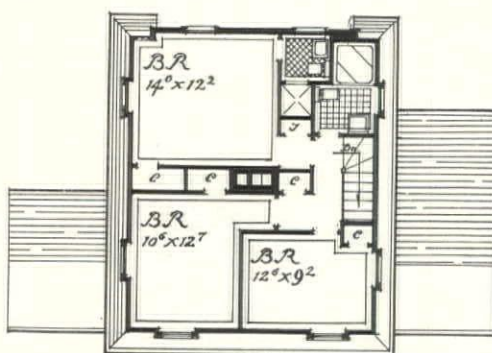
26 4607 BALTIMORE AVENUE, WESTHAVEN, MARYLAND SCHREIER AND PATTERSON, ARCHITECTS

CONSTRUCTION DATA

WALLS:	Brick and cinder block on frame
INSULATION:	Over 2nd floor ceiling
ROOF:	Slate
WINDOWS:	Wood, double hung
HEATING:	Oil; hot water

COLOR SCHEME

WALLS:	Buff
ROOF:	Black
TRIM:	White
BLINDS:	Blue

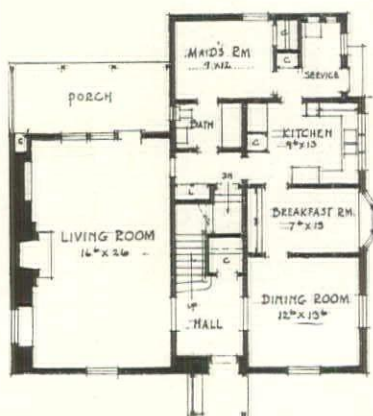
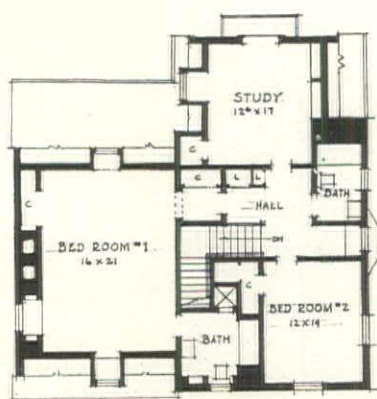


THE quality of distinctiveness in a small house often results from developing the design around a single, clear-cut theme without undue elaboration. The house above is a case in point. The mansard roof, unusual these days, gives it a certain air of individuality. Similarly, we may ascribe the popularity of the Early American, Cape Cod, Southern Colonial and so forth to the fact that these styles have character even when handled with extreme simplicity and economy. This house has the advantage of the very practical square plan with entrance at the side. Completed in February, 1937, it is 24,500 cubic feet in size.



27 DR. G. B. BAIRD, SAN MARINO, CALIFORNIA H. ROY KELLEY, ARCHITECT

It is surprising to find this fine adaptation of a Bucks County (Pennsylvania) house in a Californian setting, but it aptly demonstrates the versatility of its architect, H. Roy Kelley, one of the most prolific and best-known architects on the Coast. The pleasing lines of this particular design would be attractive in almost any part of the country. The plan shows definite influences of the Californian tradition. The study at the rear of the second floor is an unusual feature, but a welcome one for those who desire absolute privacy. The house, which contains 33,720 cubic feet, was completed last year. Cost figures are not available.

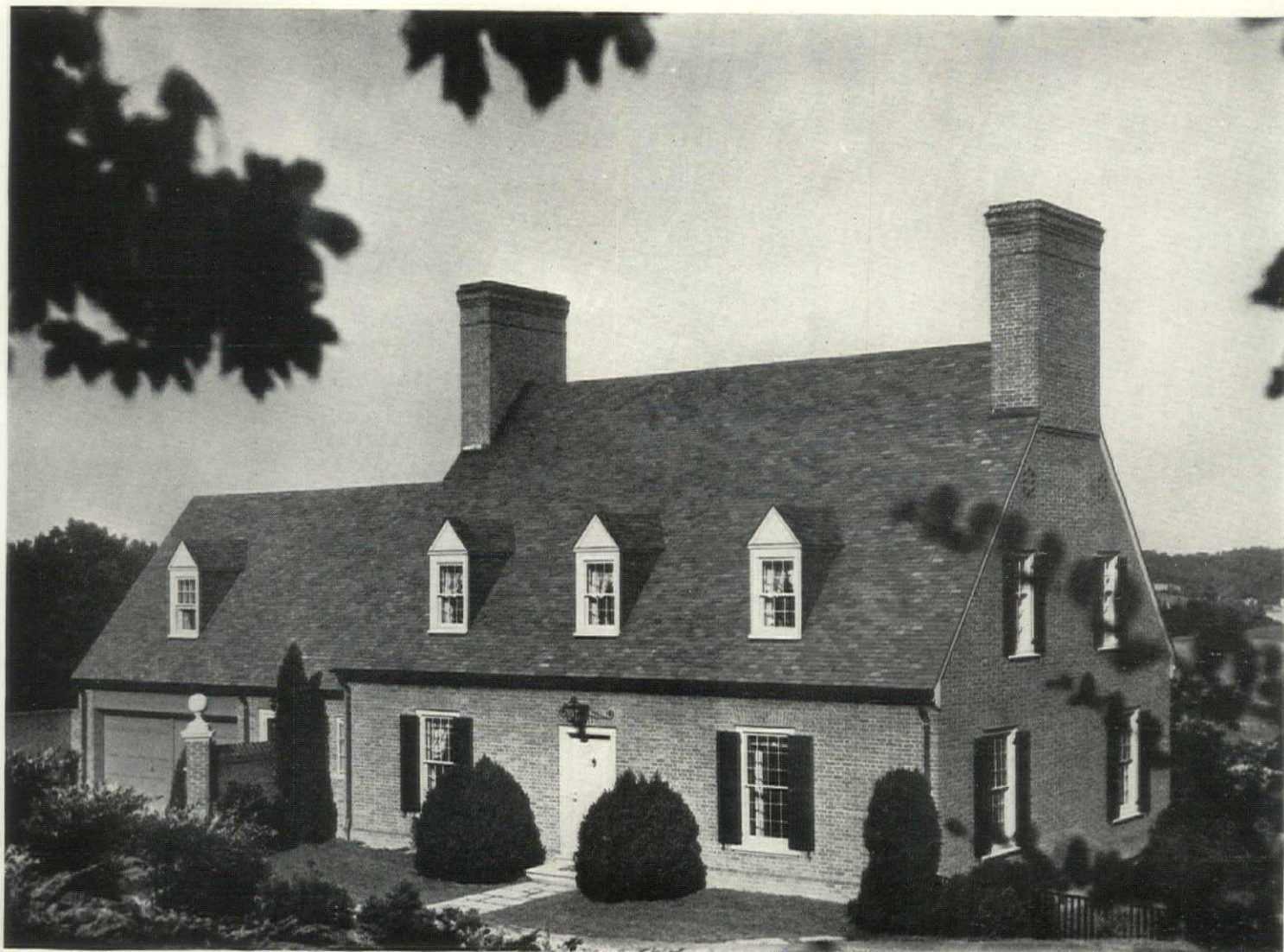


CONSTRUCTION DATA

WALLS:	Stone, plaster and wood siding
INSULATION:	None
ROOF:	Cedar shingles
WINDOWS:	Wood, double hung
HEATING:	Gas-fired unit furnaces

COLOR SCHEME

WALLS:	Cream
ROOF:	Weathered gray
TRIM:	White
BLINDS:	White



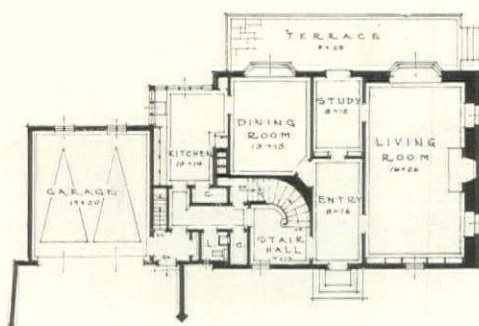
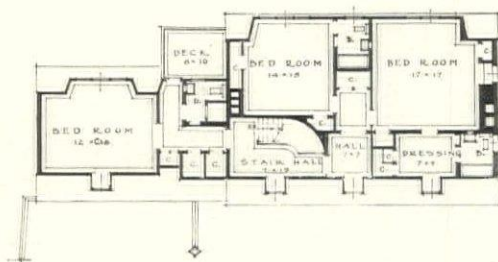
28 MR. FRED AUSTIN, KNOXVILLE, TENNESSEE BARBER AND McMURRY, ARCHITECTS

CONSTRUCTION DATA

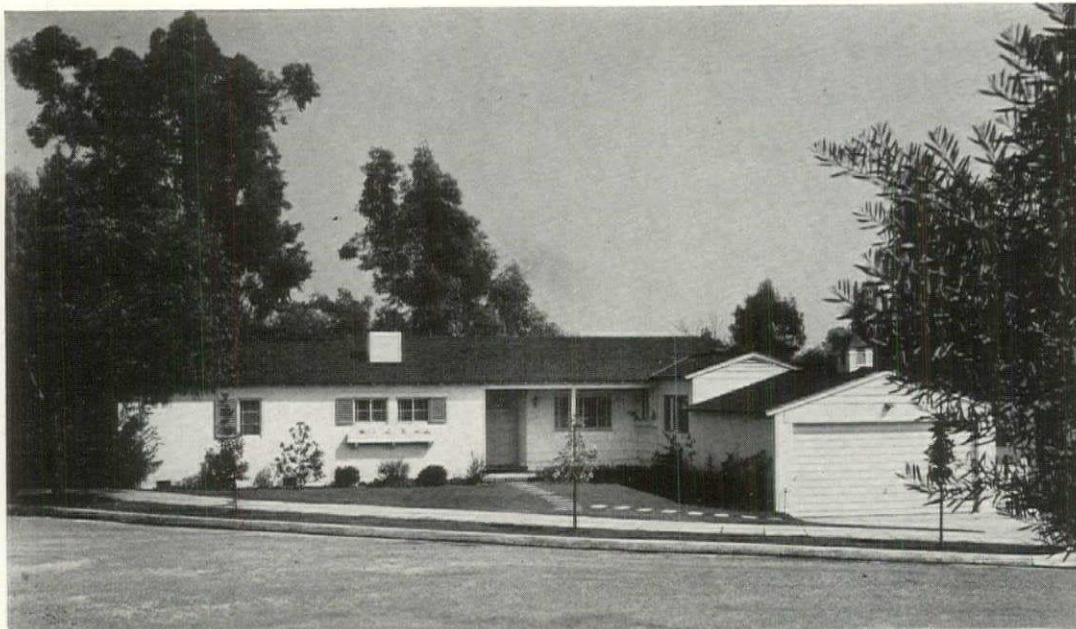
WALLS:	Brick veneer
INSULATION:	Walls and 2nd fl. ceiling
ROOF:	Slate
WINDOWS:	Wood double hung and steel casement
HEATING:	Winter air conditioning

COLOR SCHEME

WALLS:	Light brick red
ROOF:	Black
TRIM:	White
BLINDS:	Dark green



STRONGLY reminiscent of some of the southern houses of Colonial days, the design of this house embodies a number of appealing features. Especially commendable is the characteristic symmetry and simplicity of the exterior, as shown above. The large chimneys give a feeling of solidity to the main body of the house and help effect an appropriate separation between it and the garage. The plan does not adhere rigidly to tradition but is adapted to modern needs and to take advantage of a view toward the rear. Completed in December, 1936, the house contains 63,000 cu. ft. and cost \$26,460 at 42 cents per cubic foot.

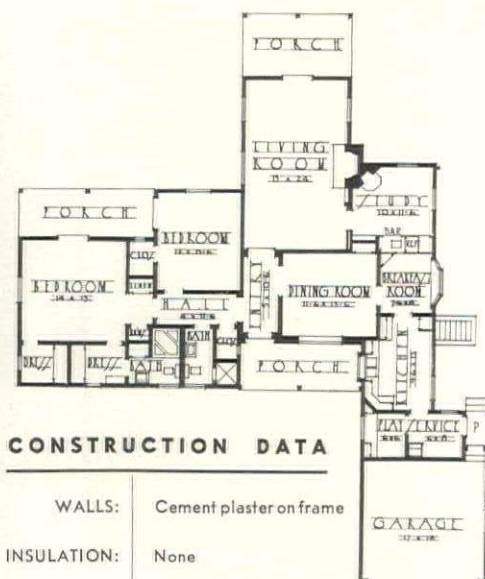


29

MR. RICHARD R. TOWNLEY, SAN MARINO, CALIFORNIA
HAROLD O. SEXSMITH, ARCHITECT

WITH all rooms on one floor, the rambling plan of a typical California home, as shown here, is chiefly responsible for the characteristic long, low lines of the attractive exterior. Noteworthy features of this home are the breakfast room, the un-

usual position of service pantry and child's play room, and the two dressing rooms off the master bedroom. Bedrooms have easy access to the garden. Completed in November, 1935, this 31,000 cubic foot house is said to have cost \$7,000 to build.



CONSTRUCTION DATA

WALLS:	Cement plaster on frame
INSULATION:	None
ROOF:	Wood shingle
WINDOWS:	Steel casement
HEATING:	Gas; hot air

COLOR SCHEME

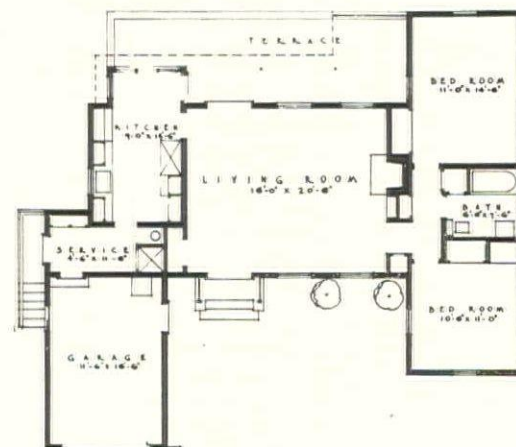
WALLS:	White
ROOF:	Green
TRIM:	White
BLINDS:	Buff

30

MRS. KATHRYN BRADLEY, LAGUNA BEACH, CALIFORNIA
RALPH C. FLEWELLING, ARCHITECT

THIS small home conforms, like the house above, to the style which has become so popular in California. The plan is essentially practical and efficient, but it is also remarkable for the nice proportion of the rooms, provision of excellent light and ven-

tilation, and adequate closet space. A single door for a communicating bath, as shown here, is most desirable. It contains 15,071 cubic feet and is estimated to have cost \$4,300 in February, 1936, since when building costs have risen somewhat.

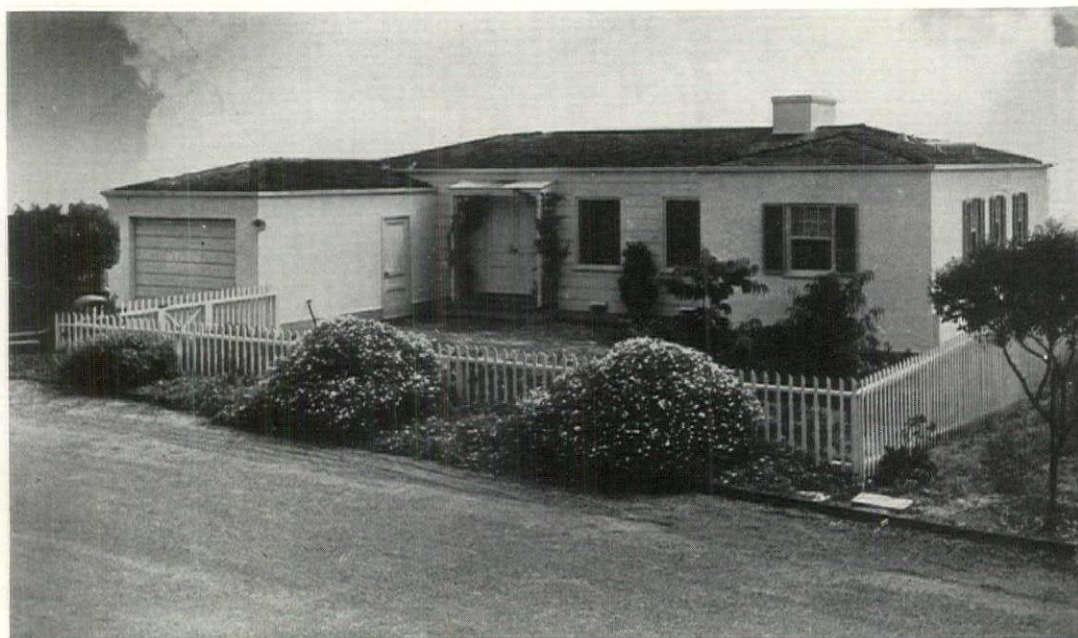


CONSTRUCTION DATA

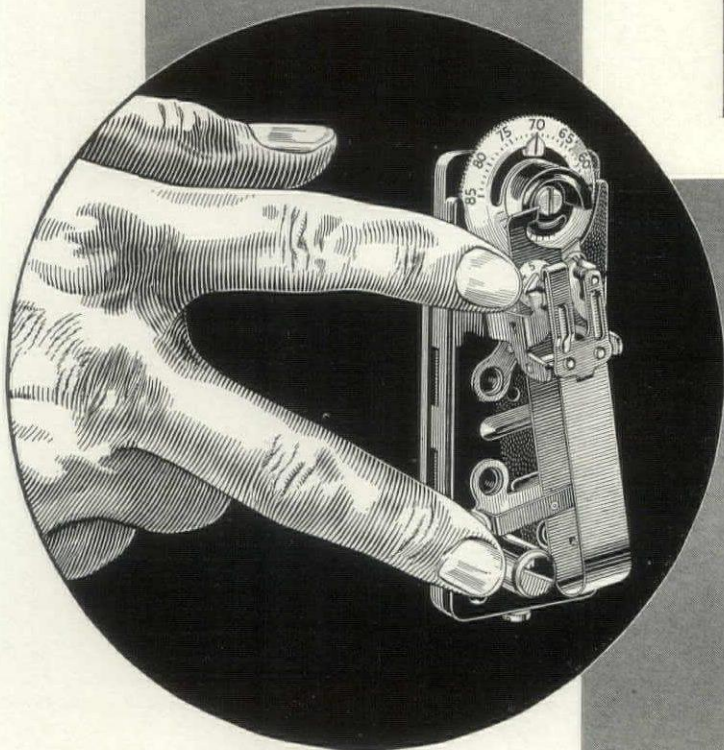
WALLS:	Stucco on frame
INSULATION:	None
ROOF:	Wood shingle
WINDOWS:	Wood, double hung
HEATING:	Gas; hot air

COLOR SCHEME

WALLS:	Oyster white
ROOF:	Brown
TRIM:	White
BLINDS:	Blue



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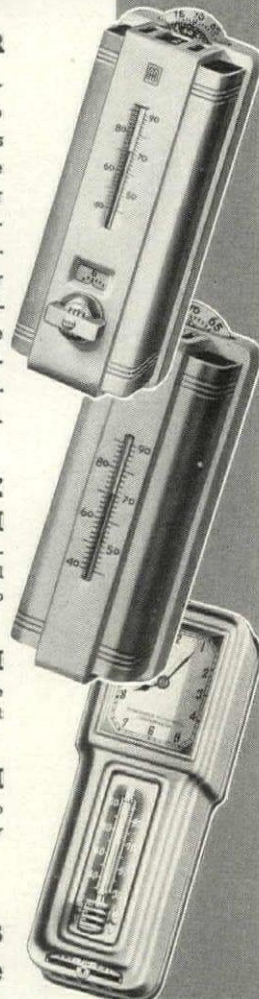
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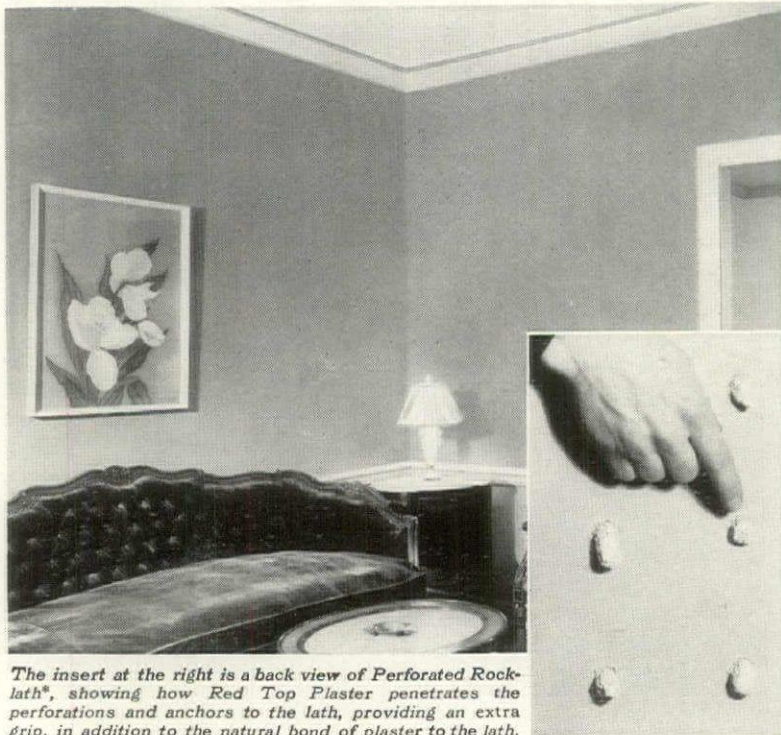
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MR. WRIGHT and Mr. Adler listen while Mr. Lindeberg makes a point

WE JUDGE A CONTEST

(CONTINUED FROM PAGE 15)

one style; but there was a decided preference for designs which were fresh and contemporary rather than imitative or commonplace. They looked for an architect who would design a house of notable distinction and character, not merely a repetition of acceptable current work, nor yet an exact reproduction of some style which originated, and was undoubtedly better executed, a century or so ago.

There was a strong sentiment in favor of the following points, which we find highly significant as reflecting the aims of the best contemporary architects, and extremely valuable as a basis for critical appraisal of new residential architecture:

A well designed house should be attractive from all angles. Don't judge a house from the front alone; examine the sides and the rear with as much care as the front. It is conceivable that one façade may properly be made the most important; but the others should be carefully designed and well studied.

The day of non-functioning ornamentation is past. Plain surfaces, unencumbered by senseless scrolls, plaques, overdone cornices, etc., are desirable. There is, after all, nothing ugly about a simple wall, well proportioned and with windows nicely spaced—nothing which requires the addition of meaningless "applied art".

When the basic scheme of a house is symmetrical—for example, think of a square plan with a hall running directly through the center—then the symmetry of the mass should be maintained. Some otherwise lovely designs of this type are considerably weakened by having a little wing jutting out at one side, destroying the balance, or by having windows, chimneys, or other details unsymmetrically arranged.

Awkward roof effects should be avoided. One can sometimes plan a house that wanders about in a most intriguing way only to find that it yields a very ugly roof, a jumble of different levels, pitches, and intersections. Again, simple surfaces, and not too many of them, are best.

Selection and use of materials for the house should be discriminating. According to the architectural style of a house, or its location, there are certain materials more appropriate than others, and the proper use of each material involves technical skill and

artistic judgment to insure the best effect and the best construction.

Windows are important in the design of a house—as they are in its functioning. Windows should be considered elements in design and the skillful architect will contrive so to place them that they have an ordered arrangement in the façade which adds to the beauty of the design.

Designs begin with a plan, and no design can be considered apart from the plan. Therefore, look for a plan which has an effect of orderliness and simplicity, one which offers the required space in correct proportions, has a convenient and logical relationship between the different rooms, does not waste space in intricate or unnecessary halls and passages, is skillfully related to outdoor living areas, and promises attractive backgrounds for decoration and furnishing.

An appropriate last word of advice gathered from the remarks of our jury is this: when you find a good architect, have confidence in him. Accept his advice. Some otherwise good designs that we have seen were spoiled, because the architect had obviously been persuaded by his client to do something which no good architect's judgment could support. Perhaps, in the case of some of these houses, the client realized when the house was completed that the architect was right, but alterations were then too expensive to be undertaken. A good architect is the surest guarantee of a good house, well planned, well designed, well built. Your architect stands as a buffer between you and any complication which might occur. That is a very important part of his professional work. We can well afford to give him our entire confidence and whole-hearted cooperation.

EDITOR'S NOTE: In presenting our prize-winning houses, and others of outstanding merit, in this issue, we have in most cases given the size of the house, in terms of cubic foot content, and the cost of construction. The reader's attention is expressly drawn to the fact that these cost figures are the architects' estimate of the cost at the time, and in the place, of construction. It should not be assumed that a given house could be built at a later date or in a different locality for the same amount.

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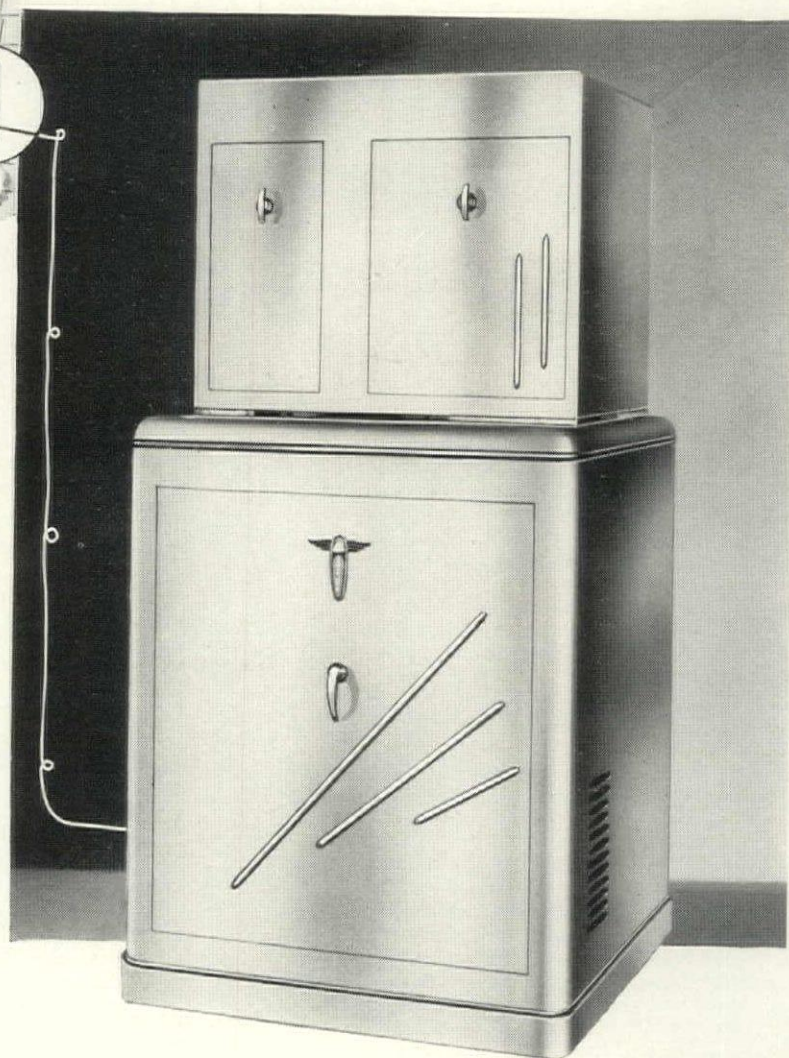
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BUILDING BOOKLETS

(CONTINUED FROM PAGE 10)

Everett Rhodes Castle

—by
himself

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Roofs and Insulation

ECONOMY COPPER ROOFING is a colorful study of homes of many types, by leading architects—showing the beauty of Anaconda copper roofs—and explaining such advantages as its permanence—its moisture-proof protection (for air conditioned homes)—its ultimate economy. AMERICAN BRASS CO., DEPT. G-9, WATERBURY, CONN.

THE HOUSE THAT BIRD BUILDS is a booklet about roofing and shingles, important to people who plan to build, remodel or repair. Its color close-ups show how to get charming effects—and its detailed story goes into points of quality and style. BIRD & SON, INC., DEPT. G-9, EAST WALPOLE, MASS.

BETTER LIVING is a realistic story of the difference a layer of Rock Wool insulation can make in your home—the winter warmth, summer coolness, and fuel saving it brings—and the simplicity with which granulated Gimco Rock Wool or Sealal Bats can be added to walls and attic. GENERAL INSULATING & MFG. CO., DEPT. G-9, ALEXANDRIA, IND.

INCREASING HOME ENJOYMENT with Insulite explains just what good insulation does for your home—and how. It goes into detail about the new and efficient method of construction with Bildrite Sheathing and Lok-Joint Lath, and shows many attractive interiors achieved with Insulite products. THE INSULITE CO., DEPT. G-9, MINNEAPOLIS, MINN.

BEAUTY WITH PERMANENCE is the story of Kenmar shingles, that have the age-old beauty of copper. And since they have the virtue of living longer than the house itself, with no repairs needed, they also have the virtue of economy. THE NEW HAVEN COPPER CO., DEPT. G-9, SEYMOUR, CONN.

THE NEW GOTHIC and TIMBER-TEX shingles describes interesting new colors and textures in roofing that are available today. The one type has a graining like aged cypress. The other is used in random widths and with staggered butts for individuality. Both are ageless and fireproof. THE RUBEROID CO., DEPT. G-9, 500 FIFTH AVE., N. Y. C.

THE HOUSE YOU LIVE IN will post you on roofs, gutters, plumbing and other details of your home which you want to take care of once—and then forget for always. REVERE COPPER & BRASS, INC., DEPT. G-9, 230 PARK AVE., N. Y. C.

A GUIDE TO BETTER HOMES goes into helpful details about roofing shingles of many types—siding shingles—home insulation—methods of damp-proofing. It's a booklet full of important information, if you plan to build. THE PHILIP CAREY CO., DEPT. G-9, LOCKLAND, CINCINNATI, OHIO.

HOMES OF ENDURING BEAUTY. Gay with color and chock-full of information and ideas is Weatherbest's book of homes. For those who are building, or remodeling an old house to give it new life and charm, it shows what can be done with stained shingles cut from the heart of giant red cedars. WEATHERBEST CORP., DEPT. G-9, 872 MAIN ST., N. TONAWANDA, N. Y.

SHUT WINTER HEAT IN . . . and shut summer heat out . . . says this leaflet on the fuel-saving and comfort-insuring properties of Capitol Rock Wool. It shows how to turn your house into a perfect "thermos bottle" in its resistance to the passage of heat or cold! STANDARD LIME & STONE CO., DEPT. G-9, 1ST NATIONAL BANK BLDG., BALTIMORE, MD.

WHAT THE CELOTEX GUARANTEE MEANS is a new angle to the insulation story. It tells what Celotex is guaranteed to do—to stay put, to maintain its efficiency, and resist rot, water, and termites. THE CELOTEX CORP., HG 9-37, 919 N. MICHIGAN AVE., CHICAGO, ILL.

SEALED HOUSE INSULATION is a photographic study of an important problem—telling surprising facts—showing how to save fuel while keeping the house temperature comfortable in all seasons, with a half-inch layer of Balsam-wool that can keep out as much heat as a 17-inch-thick wall of brick. WOOD CONVERSION CO., RM. 9-113, FIRST NATIONAL BANK BLDG., ST. PAUL, MINN.

THE BOOK OF TRIPLE INSULATED HOMES tells about fireproof, permanent roofs and walls—about heat resistance for comfort and economy. It gives photographs and plans of charming homes, and colorful suggestions for baths, kitchens and game rooms. JOHNS-MANVILLE CORP., DEPT. HG-9, 22 EAST 40TH ST., N. Y. C.

TERMINIX INSULATION is a booklet every home owner should read, to discover the tricks that termites play—how to detect their destructive work—and how to insulate against them with a chemical system that carries a 5-year guarantee. E. L. BRUCE, DEPT. G-9, MEMPHIS, TENN.

Fences

PLAIN AND ORNAMENTAL RAILINGS pictures economical standard designs to harmonize with homes of many periods. It includes porch and balcony railings, stoop and stair railings, and handsome interior wrought iron gates, with photographic vignettes of actual installations. STEWART IRON WORKS CO., DEPT. G-9, 418 STEWART BLOCK, CINCINNATI, OHIO.

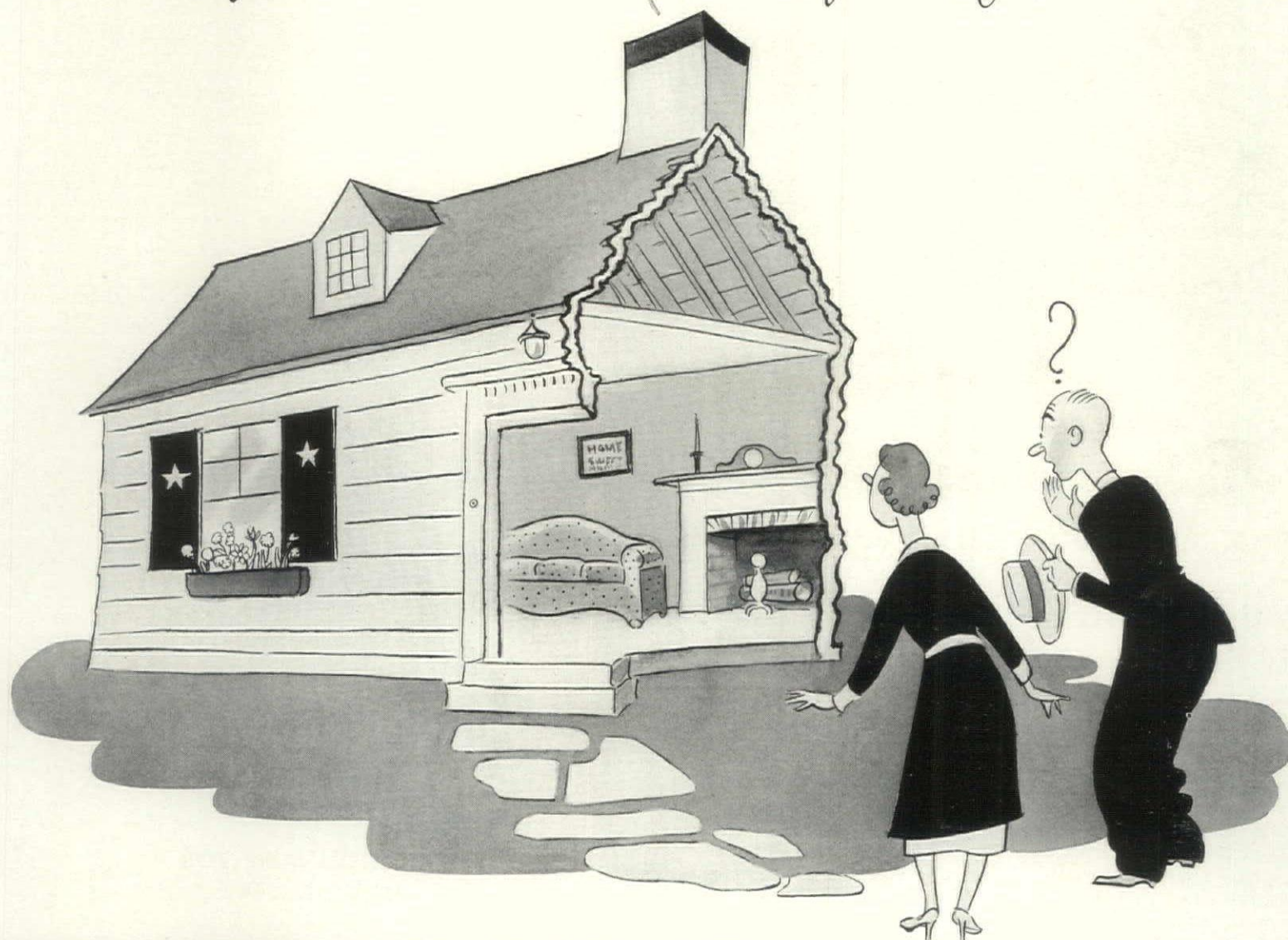
DUBOIS WOVEN WOOD FENCE presents fencing made in France, for garden privacy—with charm! It's made of pointed chestnut saplings in heights from 18 inches to 10 feet. Photographs suggest attractive ways to use it. DUBOIS FENCE & GARDEN CO., DEPT. G-9, 101 PARK AVE., N. Y. C.

ANCHOR FENCES for your lawn and garden are of chain link, of pickets or palings. And they're easy to put up. If you have a baby—or a dog—you'll be interested in the quickly put together safety pens. ANCHOR POST FENCE CO., 6560 EASTERN AVE., BALTIMORE, MD.

EXTEND YOUR HOME to All You Own. Here are dozens of ideas for outdoor living rooms fenced in with enduring Redwood. Some are photographs of actual installations—others attractive original plans conforming to different architectural types. CALIFORNIA REDWOOD ASS'N, DEPT. G-9, 405 MONTGOMERY ST., SAN FRANCISCO, CAL. (Continued on page 54)

WRITE TO THE MANUFACTURERS FOR ANY OF THESE BOOKLETS. THEY'RE FREE UNLESS OTHERWISE NOTED.

Will your new home be only half a home?



LET GENERAL ELECTRIC HELP YOU TO MAKE IT COMPLETE

The electrical wiring in your new home will determine how complete and modern the home is. Carefully planned, adequate wiring is necessary if you want to have full benefit from electrical equipment and appliances. Today, a home is only half a home unless it has the comfort and convenience that electricity can bring.

Of course you must have enough electrical outlets placed so that electricity will be easy to use. But even more important, wire sizes must be large enough and the wiring must be laid out so that current can reach the outlets at its rated voltage.

General Electric can help you in obtaining an electrical wiring system that will make your home truly modern — a whole house — not just half a house.

(1) General Electric Wiring Materials will give long,

trouble-free service. They are designed to be used together and are of uniform high quality. With G-E Wiring Materials in a properly designed system, your electrical equipment and appliances will operate efficiently.

(2) Properly designed methods for satisfactory, modern wiring are available in the many plans of G-E Home Wiring. It is suitable for any type or size of house. General Electric Home Wiring assures electrical convenience and comfort now and in the future.

Whether you are planning to build a house for yourself or for someone else, specify General Electric Wiring Materials and G-E Home Wiring. For complete information, write to Section CDW-29, Appliance and Merchandise Department, General Electric Company, Bridgeport, Connecticut.

GENERAL ELECTRIC

WIRING MATERIALS

APPLIANCE AND MERCHANDISE DEPT., GENERAL ELECTRIC COMPANY, BRIDGEPORT, CONN.



"You mean to say this attractive boiler gives you both HEAT and HOT WATER?"

"Yes, indeed it does . . . wonderful heat, and oodles of hot water all through the year . . . and you'll hardly believe me when I tell you how low our fuel bills are. Do you wonder we're so enthusiastic about it? Bob says our FITZGIBBONS is the best investment we ever made."

~ ~ ~

Thousands of home owners are enjoying the FITZGIBBONS combination of low-cost automatic heat and domestic hot water. You, too, can enjoy it, whether you now own a home or are about to build one . . . and you can burn the fuel and install the brand of stoker, oil burner or gas burner that local conditions make it desirable for you to have, because

FITZGIBBONS STEEL BOILERS

are available in types for firing with any stoker, oil burner or gas burner . . . and in a range of sizes that permits selection of just the right size to satisfy the heating and hot water needs of any home.

These efficient, life-time copper-steel boilers, assure you of economical heat and winter and summer clean hot water without a storage tank or external water heating equipment — a great boon to modern basement design.

And here's another important consideration: with any FITZGIBBONS Boiler for automatic heat you can add FITZGIBBONS AIR CONDITIONING at any future time.

NOW IS THE TIME TO BUY

Immediate installation — three years to complete payment—lowest finance charges. Ask your local automatic heat dealer for full particulars, or mail the COUPON.



Quality STEEL BOILER
Since 1886

Fitzgibbons Boiler Company, Inc.

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Send me, without obligation, complete details of FITZGIBBONS STEEL BOILERS for automatic heating with the method of firing checked.

☐ OIL ☐ GAS ☐ STOKER

Name.....
Address.....
City..... State.....

BUILDING BOOKLETS

(CONTINUED FROM PAGE 52)

FENCE FACTS is a concise booklet of information, with illustrations and descriptions of various styles of chain link fence, in four different metals, for all sorts of installations. It shows many beautiful wrought iron fences, too. PAGE FENCE ASSOCIATION, DEPT. G-9, BRIDGEPORT, CONN.

FENCING FOR SAFETY pictures typical installations of Wickwire Spencer Fences, and reviews ways in which this fencing pays dividends by preventing loss and destruction, and improving the appearance of your property. WICKWIRE SPENCER STEEL CO., DEPT. G-9, 41 E. 42ND ST., N. Y. C.

Miscellaneous

PICKPROOF 4-IN-1 LOCK offers positive burglary protection—backed by a Lloyd's \$100 policy, free with each lock! It describes new locks made jimmy-proof, pick-proof, and drill-proof, by clever design, the use of armor steel plate, and an unduplicatable key. DUDLEY LOCK CORP., DEPT. G-9, 325 N. WELLS ST., CHICAGO, ILL.

WONDER WALLS for Beautiful Interiors presents Marlite—a glossy new wall covering for bathrooms, kitchens and cocktail lounges. Colorful illustrations and charming photographs show this sanitary and durable material in plain colors, and in tile, wood and marble patterns, all acid and stain resisting. MARSH WALL PRODUCTS, INC., DEPT. G-9, DOVER, OHIO.

THE FYR-SLYD-SCREEN brings news of a fine bronze fireplace screen that can't tumble over—for it's built in. It slides up and down like a window—provides complete spark protection—and disappears when it's raised. The folder shows how to install it when you build. FYR-SLYD-SCREEN, INC., DEPT. G-9, 101 PARK AVE., N. Y. C.

WRITE TO THE MANUFACTURERS FOR ANY OF THESE BOOKLETS. THEY'RE FREE UNLESS OTHERWISE NOTED.

CERTIFIED LIGHTNING PROTECTION brings you up sharply with pictures of devastated homes, contrasted with photographs of building after building simply and efficiently protected by the concealed and certified Dodd system. WEST DODD LIGHTNING CONDUCTOR CORP., DEPT. G-9, GOSHEN, IND.

THE HOME DECORATOR combines color schemes for every room in the house, with pages of clear and readable instructions on the right way to paint. THE SHERWIN-WILLIAMS CO., DEPT. G-9, CLEVELAND, OHIO.

THE LITTLE WHITE BOOK is a book of white houses, including many which are prize winners. Interesting, too, is the story of Cabot's Collopakes which are suitable for all kinds of surfaces—wood, brick, plaster, stucco and cement. SAMUEL CABOT, INC., DEPT. G-9, 1205 OLIVER BLDG., BOSTON, MASS.

A CHIME SIGNAL that banishes doorbell nerves is the bright and welcome suggestion of this gay leaflet on the Rittenhouse Junior Electric Door Chime, which replaces the shrill b-r-r-ring with a single vibrant, reverberating note. A. E. RITTENHOUSE CO., DEPT. G-9, HONEOYE FALLS, N. Y.

THE GARAGE DOOR THAT OPENS UPWARD. Start it upward with a pull of the hand—downward with a jerk at a cord. Or operate it electrically. Read about this new door that's never snow-bound, never in the way. THE KINNEAR MFG. CO., DEPT. G-9, 3000 FIELDS AVE., COLUMBUS, OHIO.

WEISWAY CABINET SHOWERS shows complete units from inexpensive cottage types to beautiful vitreous china cabinets, which you can add to your bathroom or use in a convenient corner as the nucleus of an extra bathroom. HENRY WEIS MFG. CO., INC., DEPT. G-9, 209 OAK ST., ELKHART, IND.

QUESTIONNAIRE FOR HOME BUYERS

OF COURSE, it is none of our business if you buy a house and plot or not. Although, as a matter of fact, it is part of our mission in life to encourage home-owning. But we should hate to have you disgruntled a year hence, and at that time go on record with: "Resolved, never again to buy a house and lot!" So, to make things a bit more difficult for the high-pressure realtor who lately has had time aplenty to get himself supercharged with convincing sales arguments, we herewith submit a questionnaire to be applied as a yardstick of desirability to all the properties which curry your favor.

We are all for your buying a plot and a house thereon, but we do strongly object to anyone selling you a gold brick. Consult your architect and your lawyer before actually purchasing any property.

In case our "Ask me another" falls short in any particular, don't hesitate to write us at once and we will do our level best to answer your questions quickly and expertly.

THE PLOT ITSELF

General

Has it sewer, water, gas, electric current, paving? If not, what will the assessments be? If a septic tank must be dug, what will it cost?

If necessary to drill for water, what will cost be? Is site level; does water drain off naturally? Does water flow toward house? If so, will basement become flooded?

Is the site on a slope; does all the neighborhood surface water drain toward the plot? If so, does a drainage system carry the water off?

Is the site on top of a hill; is it exposed to cold winds, or is there a wind-break of any kind, as a row of trees? Is the site in a hollow? Do fog and general dampness settle down at night? Is it habitually damp?

Situation of House on Lot

What trees and planting exist, in what state are they? Is the lawn in good condition? If the lot is ungraded, will expensive filling and cutting be necessary?

Can additions be made to the house without encroaching too closely on the lot line?

Are there garage and drive; if so, is access easy with reasonable turns and gradients? If there is neither garage nor drive, is there room for these?

Do main rooms get sun? Are porches so located that they are usable for outdoor living rooms; are sleeping porches toward south or protected from north winds?

(Continued on page 55)

QUESTIONNAIRE FOR HOME BUYERS

(CONTINUED FROM PAGE 54)

Location in Reference to Surrounding Property

Is the house near a neighboring house? If so, what are the fire hazards? Are neighboring houses a credit? (Bear in mind cooking odors, noises, etc.)

Is the house too near the side lot lines? If there is vacant property adjoining, how close to the lot lines can a neighbor's house or garage be built?

Is the house too near the front of the plot? Does it get all the noise and dust from the street or road? Is it possible to secure semi-privacy with trees and plantings?

Does the law allow chicken coops, barns, etc., to be built adjacent to your lot lines?

ITS ACCESSIBILITY

Transportation (Business)

Is train or bus service reasonable as to cost, running time, and the interval of service between trains? What will commutation costs add to the family budget per month? What does a 50-trip family ticket cost; a 10-trip?

Will an automobile be necessary to get to station? If so, is there free parking space? Will one of the family have to drive the car back to the house, and again meet the train in the evening?

Are taxicabs available at R. R. station or bus terminal; if so, what is the charge to the house?

Transportation (Family)

Is there good service in addition to the morning and evening "business" trains? Good service at night to get to town for dinner; to return after the theatre?

Is there good bus service for the children to go to and from school? Is this service included in the taxes, or does it demand a special fee?

Are roads kept in good condition? If new paving is laid will there be a special assessment? Will servants be satisfied, or will they find it too lonesome?

Transportation (Guests)

Can friends return to town at a convenient time after dinner and the usual period of bridge (consult train schedules)? Do any express trains run during the evening?

Is lot at such distance, or railroad schedule such, that all guests must stay overnight or for weekends?

Shopping

How far away are provision stores; what type are they? How far away are good clothing stores, druggist, garage, etc.?

Is there a tea-room or restaurant which could be of service on occasion? A caterer? Do the various shops in the neighborhood reflect community pride and prosperity, or are they on the decline?

SOCIAL CONSIDERATIONS

Neighbors

Are there any poor districts nearby which might gradually spread? What prevailing type of person lives in the immediate vicinity?

Will your neighbors be congenial? Are there strict social lines drawn?

Will your neighbors have similar interests and standards of living? Will

you want your neighbors for your friends; your children's friends?

Is it the type of neighborhood which frowns on children? Is there a doctor nearby in case of emergency?

School and Social Contacts

Are there up-to-date schools nearby of good standing; are they fireproof? Is there apt to be a new school built which will mean heavy taxation?

What churches are there in the community? (Attending them will give a fair approximation of your neighbors.) What clubs are there, and are they an asset? Are the entertainments, movies, etc., of the better sort?

As a General Check

At the railroad station platform you can get a typical cross-section of the community: how do the people dress; what do they read on the train? What is the history of the neighborhood; has it improved or deteriorated during the last few years?

What is its future likely to be? Are the surrounding communities better or worse, and what trend will expansion be likely to take?

And Finally—

If you can rent the house with an option to buy at the end of a year it would be the ideal arrangement; during that time defects of the house, the character of the neighborhood, and the desirability of neighbors being your friends will be fairly well established.

CONSTRUCTION

Architectural Features

Do the exterior of the house and its surroundings make an immediate appeal to you? In case you wish to sell it, what would the reactions be on prospective buyers? Does the house lend itself to improvement, or is it hopelessly ugly?

Does the house suit its site; is it harmonious with the neighborhood? Does the house look inviting; is its color scheme good? Is the front entrance a welcoming feature? Is the side or rear entrance convenient for service and garage? Can coal or other fuel be delivered without ruining the garden?

Construction of Roof, Walls, Etc.

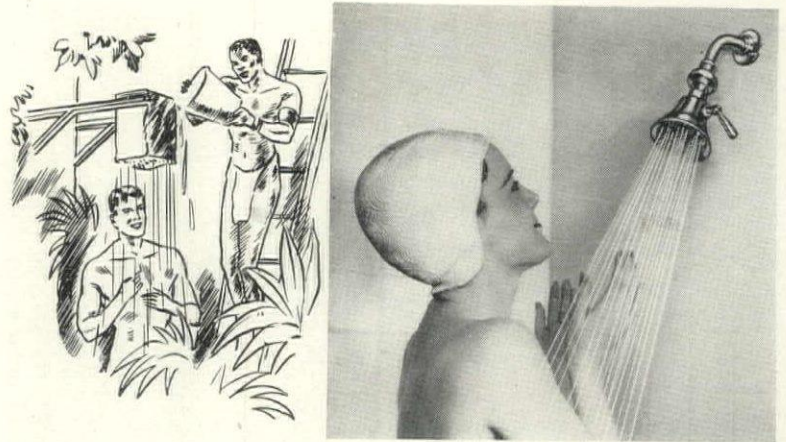
Is the roof of fireproof material? (In New York City all roofs must be fire resisting.) Will it require little or great upkeep; are the gutters, down-spouts, flashing, etc., of non-corrodible metal? If the roof is of wood, when was it last re-shingled? Are there any leaks?

Do the down-spouts run into the sewer, or well away from the house so as not to flood the basement?

Is the chimney in good condition; is it well flashed where it intersects the roof? Do fireplaces draw well?

If walls are of stone, are there any cracks in the masonry? Are all joints well pointed up? Is it solid stone wall construction, or only veneer? Are the walls furred on the inside to prevent condensation on the plaster? If the walls are of brick, is it solid brick wall construction, or only 4-inch veneer? Are the joints well pointed up; no cracks? Does salt-peter disfigure the appearance? (An acid bath will remove this, but usually only temporarily.)

(Continued on page 56)



It takes more than water to make a shower THRILLING!

In the tropics, you may be quite satisfied with a reasonable flow of coolish water. But not in your own home, club or hotel. You and the members of your family will want everything from a gentle stream to a stinging spray. In fact, a shower holds little thrill, unless you can always have it exactly as you like it.

The shower pictured above is called the Speakman Anystream Self-Cleaning Shower.* The small lever on the head operates six plungers—in such a way as to provide any flow you wish, from the finest spray to a flood. Every member of the family will always be satisfied. This shower will never get clogged up; the flood shower makes the Anystream self-cleaning. And Speakman standards of quality manufacture and internal design assure you of an indefinitely long life, free from trouble.

*Pat. No. 1,830,694

YOUR PLUMBER KNOWS SPEAKMAN

Before you build or remodel, ask your plumber about Speakman showers and fixtures. He knows they are right in both external appearance and internal design.

WHAT'S UNDER THE HOOD?

You know that it's the silent, smooth-running motor (not the beauty of the car) that determines the car's performance... In selecting plumbing fixtures, "what's inside" is equally important. Be sure you know.



There are many other types of shower heads in the Speakman line, differing in construction and trim to meet every kind of installation and every purse. There are also several types of connections and fixtures by which your plumber can install Speakman showers for you, without breaking into the wall.

For 67 years the Speakman name has stood for the highest quality. The line includes many types of fixtures for bathroom, kitchen or laundry... If you are building new, or modernizing old, bathrooms or kitchens—don't complete your plans until you investigate what Speakman offers. The prices are reasonable; Speakman quality protects your investment. Send in the coupon below for illustrated literature.

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I am planning ☐ to build ☐ to modernize

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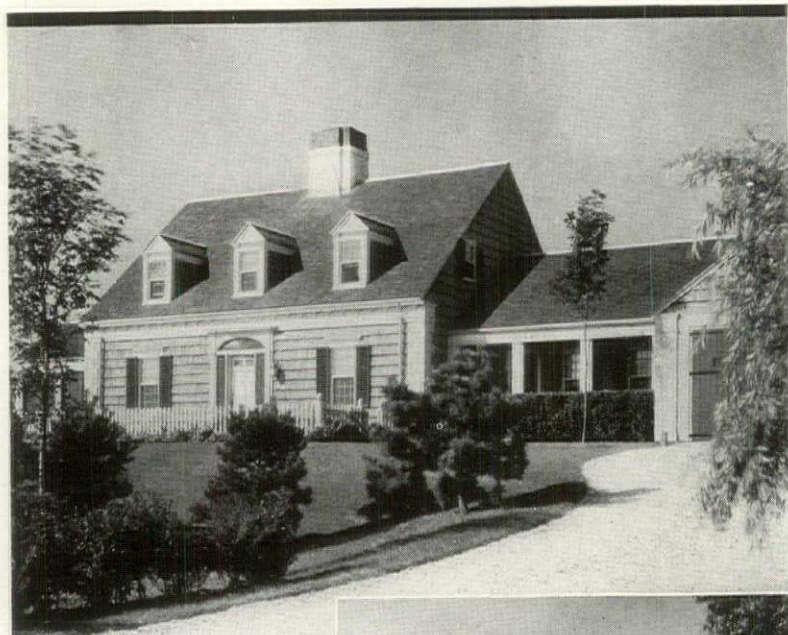
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Address.....

City..... State.....



Two views of house at Chatham, Mass. Roof and walls stained with Cabot's Creosote Stains. Architect: Edward Sears Read of Boston.



Built to Last and Stained to Last

With the soft, transparent colors of Cabot's Creosote Stain, you preserve the *textured beauty* of wood shingles, which is lost when you paint. You also add years to the life of your house because the basis of these stains is pure creosote, the best wood preservative known. Cabot's Stains are low in first costs and economical in upkeep. They are offered in a wide range of colors, including the famous *weathering grays* which, in six months, will give your house the same pleasing weather-beaten effect that you see on old

New England houses, centuries old.

FREE—Stained Houses



Write today for *Stained Houses*, a new booklet containing many helpful ideas for the owner (or prospective owner)

of a shingled or clapboard house. It shows photographs of many stained houses, and contains full information about Cabot's Stains. Address Samuel Cabot, Inc., 1205 Oliver Building, Boston, Mass.

Cabot's Creosote Shingle Stains

and Cabot's Heavy-Bodied Stains

QUESTIONNAIRE FOR HOME BUYERS

(CONTINUED FROM PAGE 55)

If the walls are of plaster or stucco, does the surface show any signs of cracking? Has the plaster been applied to the proper kind of surface? (If it is well-bonded it will last a lifetime, but otherwise the plaster will peel or chip off.) If the walls are frame construction, has kiln-dried lumber been used?

Does paint adhere evenly, or is it inclined to peel or "blister"? (Small bubbles indicate that a poor grade of wood or paint has been used.) Do the basement walls and floor prevent water from seeping through?

Are all locks and catches in good condition? Does the decorating lend itself to your present furnishings? If not, what will re-decorating cost?

Insulation

Are the walls and roof, or second floor ceilings, well insulated? Is there weather-stripping on all windows and doors? Are the boiler and all exposed heating pipes insulated? (The basement should be cool even with a brisk fire going.)

Plumbing

Are all pipes of brass or copper, and of ample size so that the toilet can have a flushometer instead of a tank? Do all exposed parts, such as faucets and drains, have a durable finish? Are fixtures acid-resisting? (This is imperative if they are tinted.) Are there shower baths in conjunction with tubs? If so, are the side walls tiled or of waterproof plaster?

Plan

Are the rooms the required number and of commodious size? Are the rooms conveniently arranged—will housekeeping be simple or difficult? (Does the kitchen adjoin the dining room; does the garage open into the hall; etc.?)

Is the floor area efficiently planned, or are certain rooms unnecessarily large while others are too small? Have the stairs ample head-room? Do the bedrooms have ample closets? Linen closets? Has the first floor a wash room and coat closet? Does the plan permit of an addition without throwing the existing house entirely out of order?

How many bedrooms does each bathroom serve? If the garage is attached to the house, is there a fireproof or fire-resistant wall between, as required in certain communities?

Are there ample servant accommodations; are they cheerful and conducive to keeping servants contented? Are servants' quarters segregated from the rest of the house; are there service stairs?

Service Features

If the house is large is there a servants' stair to upper floors, or must servants use the same stairway as members of the household and guests?

Are there convenient cupboards of adequate size and recognized quality in the kitchen and bath rooms? Has the kitchen a disappearing ironing board? Is there a laundry?

Is the heating system of modern type, or will it be necessary to replace it soon? If there is an oil-burner, is it efficient and noiseless? Can the same be said for the electric refrigerator? (It is strongly advisable to visit the house when both furnace and refrigerator motors are in operation.) Is there

a system for controlling heat and humidity? (Air conditioning will probably become a recognized requirement within the next decade.)

Floors

Are floors of soft wood? (This means splinters and constant refinishing.) If floors are of hardwood, are they of only $\frac{3}{8}$ -inch thickness, or of $\frac{7}{8}$ -inch material? Have all upper story rooms sub-flooring underneath the finish floor? Are the floors in good condition; if not, what will refinishing cost?

Lighting and Wiring

Are there numerous electric outlets, especially base plugs? Is the house specially wired for an electric stove? (The ordinary base plug will not serve.)

Are the wall brackets conveniently placed? Are the electric circuits overloaded so that fuses will be apt to "blow out" when a toaster or vacuum cleaner is attached? Is the telephone now in a convenient location?

General Features

Is there a recreation or children's play room? If not, is there basement or attic space where one can be contrived? Is there a living room fireplace; a dining room fireplace? Do they ever smoke? (Burn some papers to see.)

Do all doors, cupboard doors, drawers, etc., open and close readily? Is all the hardware on these in good condition?

Is the house provided with screens of non-corrodible metal, and are they half or full length? Are storm sash provided? (Over a comparatively short period of time these will effect heat-saving amounting to more than their cost.)

Are the window shades in good condition; sunproof? (If it is found necessary to replace them, it will be well to investigate materials now on the market which on the inside can match or harmonize with wall paper, hangings, etc.) Will re-decorating of walls be necessary, or exterior painting?

Has the basement adequate shelving, coal bins, laundry facilities, etc.? Has the basement reasonable head-room, and is the ceiling finished with plaster or wall board? (The latter insulates, prevents fire from spreading, and makes for improved appearance.) Will new furnishings be required, such as curtains and rugs, if latter will not fit? What will winter's fuel and moving charges amount to?

FINANCIAL

Before Taking Title

What is the price of the house and how much of this must be paid in cash? What can you afford to pay down and still have a satisfactory emergency fund intact? How does the property and its price compare with what you can find out about neighboring parcels?

Under expenses, over and above the sales price, have you included: (1) Cost of the "instruments" and their recording; (2) Lawyer (it is worth his fee and more to get a good one experienced in real estate law); (3) Title (it is advisable to have it searched and insured); (4) Proportionate taxes and interest charges to date of sale?

(Continued on page 57)



"I Know My House Will STAY Insulated —I've Put in BALSAM-WOOL!"

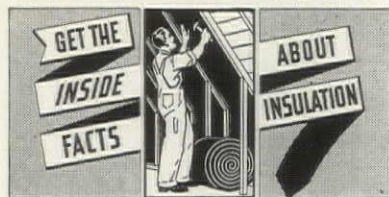
When you insulate you want permanent comfort and protection. Then choose insulation that *will not settle*, get out of place or "pack down," leaving big, uninsulated gaps within your walls. Balsam-Wool DOUBLE-SEALED Insulation cannot settle because it is firmly and positively fastened in place. Throughout the life of the house it continues to give the satisfaction you are entitled to get. Waterproof, windproof, highly fire-resistant and termite-treated, it meets every need of healthful living . . . fits every requirement of air conditioning.



For the Attic of Your Present Home

You can make decided savings on your fuel bills next winter by insulating your attic with Balsam-Wool DOUBLE-SEALED Insulation. Applied in just a few hours (and amazingly inexpensive), Balsam-Wool attic insulation is sold under a money-back guarantee of satisfaction. Mail the coupon for full details.

DOUBLE-SEALED BALSAM-WOOL



WOOD CONVERSION COMPANY
Room 113, First National Bank Bldg.
St. Paul, Minnesota

Gentlemen: Please send me further details on Balsam-Wool DOUBLE-SEALED Insulation.

Name.....
Address.....
City..... State.....



QUESTIONNAIRE FOR HOME BUYERS

(CONTINUED FROM PAGE 56)

Are the boundary lines (especially at corners and all other angles) indicated by permanent markers? If not, what will it cost to set such markers?

What assessments and taxes are at the present time due and unpaid? Are any new ones likely to be levied in the near future? Are there any near-by "improvements" contemplated by the local authorities which are claimed will enhance the value of your property, but which will result in additional assessments?

UPKEEP

The House Itself

If an F.H.A. amortizing mortgage plan is not used, what would be the interest on the first mortgage? What would be the interest on the second mortgage?

How much of an annual sinking fund must be provided for such re-financing as will be necessary unless a savings bank or a building-and-loan association holds the mortgages? What would be the taxes for property, water, school, county, road, light, etc.? What would be the rate on fire and burglary insurance?

What would depreciation and upkeep amount to? (While this may be small for the first year or two, it will increase more rapidly later if repairs are not made at once, and should be provided for by establishing a sinking fund.)

Commution, if outside the city?—Is the ratio of this to the combined "rent" charges too high? Find out from some reliable source whether the local government is economically and honestly managed, or is it run for the benefit of the politicians?

Household Expenses

Is the rate on gas, electric and telephone reasonable? Is the insurance rate excessive due to the location or surroundings of the property? Are collections for garbage and ashes included in the taxes, or must they be paid for separately?

How much fuel is necessary, and what kind does boiler require? Could this be lessened by installing adequate radiator valves, and by using a different type of fuel?

DECISION

General

In the annual cost of the house have you included the interest on your own money invested? Will the added expense over and above your present living quarters be worth the added financial burden? Is a rise in property value likely to pay for this difference?

Have you obtained the expert and unprejudiced opinion of an accredited assessor (his fee may save you thousands), or a bank lending-official? (Everything cannot be expected to be ideal, but you should not rely on only the word of the interested party making the sale.)

Advantages Not Reckoned in Dollars

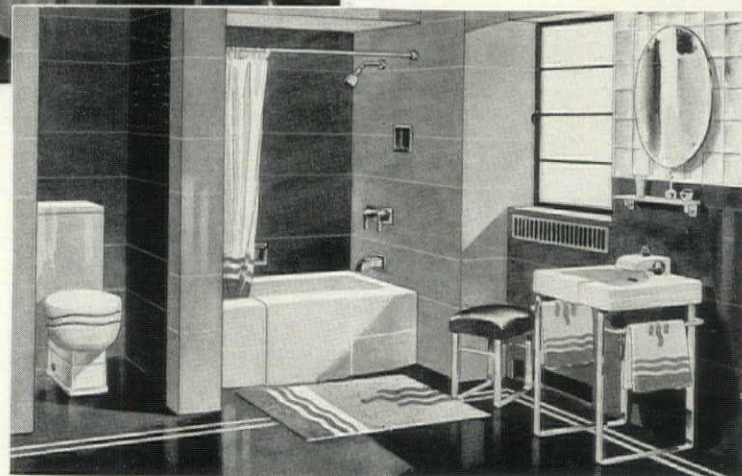
A home provides a healthy and wholesome means of bringing up a family. It is a means of gaining good health (and retaining it) and a source of increasing satisfaction, through working in the garden. There is justifiable pride in owning an attractive home.

Neuvogue Bathroom— the Last Word in Beauty and Utility



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In quality *Neuvogue* typifies the high standard Crane has set in all plumbing and heating equipment in every price class. You can see *Neuvogue* fixtures at



● *Neuvogue Bathtub*—Nearly straight sides give more room—a more luxurious bath. A wide front rim—serves as a comfortable seat.

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● *Neuvogue Closet*—Continuation of the lines of the tank to the floor conceals piping—makes for easy cleaning. Hygienic curved seat.

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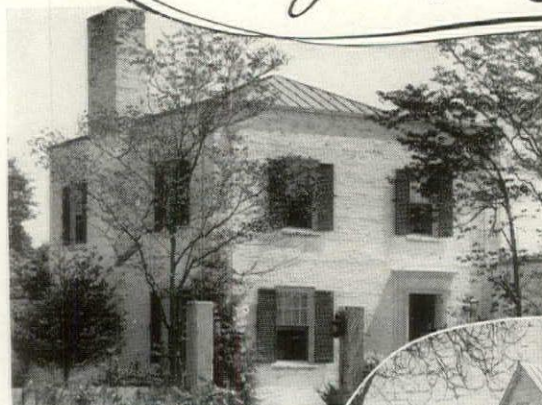
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ABOVE 1936 "Good Housekeeping" House in Wyckwood, New Jersey. Architect: Dwight James Baum, Riverdale-on-Hudson, New York.



BELOW Built in Marblehead, Mass., and designed by Donald C. Goss, Architect, Boston, Mass. Copper was used extensively throughout.



LEFT "Character Home" was built by Hutzler & Carr, Inc., in Richmond, Va. Architect: Edward F. Sinnott, Richmond, Va.

BELOW Here copper graces a really "small house," built as a Model F.H.A. home by Andrew H. Larsen at Waterbury, Conn.

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SHADE TREE PROBLEMS

By E. Porter Felt

It is difficult to realize the significance of changes in the growing conditions of shade trees which have taken place in the last half century or even during a shorter period. It is admitted that most trees will grow when planted under widely different conditions. Troubles follow marked—especially sudden—changes in growing conditions, or from the accumulative effects of years of growth in unsuitable surroundings. These conditions are not generally recognized although they occur in one form or another on almost every property where trees have some value, are frequently serious and are becoming of increasing rather than of less importance.

SOIL DEPLETION

A tree growing in a smoothly clipped lawn, the cuttings from which are removed almost weekly, suffers in the course of years from the accumulative effects of soil depletion. A nice turf does not mean abundant plant food for tree roots deeper in the soil. Little or no grass and leaves are allowed to decay on the lawn and as a result this normal process of soil enrichment is greatly limited on the modern lawn.

The leaf mold formed by rotting leaves is an important element in forest growth, for it is an annual contribution to soil fertility. It produces abundant humus which holds moisture and also protects from extremes of heat and cold, both necessary for thrifty trees. The closely clipped surface facilitates a quick run off and minimum soaking of the soil, especially during heavy rains and on sloping lawns.

The lawn tree, as compared to one in the woods, is exposed to maximum drought and frost effects, due to a greatly reduced supply of humus and also to drying air currents which are much more prevalent in the open than in the shelter of the woods. A comparison of the cool, moist air in the woods with the hot, dry air of the lawn gives an idea of the extent of the difference between the two. These influences operating over a series of years affect trees seriously.

SYSTEMATIC FEEDING

In view of the inevitable loss to lawn trees of normal additions to soil fertility from decaying leaves and the resultant decrease in the amount of humus in the soil, systematic feeding, using a complete fertilizer with some organic matter, is frequently necessary to satisfactory tree growth. Many lawn trees are greatly helped by sprays which protect from insect pests and plant diseases.

A lowered vitality or an unthrifty condition in lawn trees is relatively common. It is not difficult to correct in most cases.

The most serious hindrances to healthy tree growth are found in recently developed suburban areas. The usual method is to clear a location in the woodland for the dwelling, adjacent lawn space and drives. This results in sudden exposure of the marginal trees to the hot sun of summer and drying winds. The former causes sun scorch which may kill possibly half of the thinner bark. The freer

circulation of air produces a marked reduction in soil moisture due to excessive evaporation.

It is the usual practice to remove much of the surface soil, particularly the humus around the trees, and this causes important changes in moisture conditions, comparable to those described for lawn trees. It is frequently possible to plan the location of the buildings and the arrangement of the grounds in such a way as to minimize at the outset the bad effects upon the more valuable trees.

The property is purchased on account of the trees and yet in its development the fundamental needs of the trees are frequently disregarded.

The clearing of the lot for the dwelling is sometimes done with little regard for the well-being of the tree which it is desired to keep. Particularly valuable trees should be protected from injury by trucks, tractors, steam shovels, blasting, guy wires, the building of fires near or under trees and the careless hacking of roots. The last may be concealed by a fill or covered with concrete. The unprotected cut surfaces afford ready entrance to wood rots and in time such trees are so greatly weakened as to necessitate removal.

CARE IN MOVING

The trees which must be cut should be taken out in such a way as to avoid injury to the others. In locating and digging trenches for sewer, water and gas, exercise care to avoid unnecessary mutilation of the roots. It is relatively easy to take many of these precautions though they are frequently overlooked in the rush to build.

The construction of the house, the building of driveways and walks and the grading of the lawn almost invariably result in marked changes in the underground water supply, frequently seriously affecting it. A tree on a slope below a house may have most of the water supply cut off by the excavation for the cellar and incidental drainage. That alone is enough to kill a tree and this frequently occurs. In many cases grave results may be avoided by minor changes to prevent a marked diversion of underground water or a serious lowering of the water table.

GRADING

There is usually grading about the dwelling and other buildings and some incident to the construction of road ways and walks. The lowering of the grade usually means removal of valuable humus, which is undesirable, and raising the grade is apt to result in a filling which greatly reduces the normal air supply of the roots. Filling may be unavoidable and if so, use a light soil, gravelly in nature, rather than a heavy soil. Even a relatively thin filling with clay prevents soil aeration so effectively as to suffocate many of the roots and then the trees may die within a few years. An open well at the base of each tree greatly aids soil aeration, or, still better, a system of radiating tiles or open stone drains could be laid on the original

(Continued on page 59)

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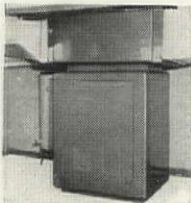
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SHADE TREE PROBLEMS

(CONTINUED FROM PAGE 58)

surface prior to filling. Troubles of this nature may be found on a large proportion of suburban properties.

DANGERS OF CONCRETE

Concrete, macadam and similar surface materials prevent soil aeration, reduce soil moisture and greatly lessen the value of feeding areas for adjacent trees. They are usually more injurious than filling with clay. Extensive courts and wide road beds of impervious materials are located with little regard to their effects on nearby trees, and apparently with no thought that relatively minor changes would make it much better for the trees. Occasionally one sees a few large trees with a good proportion of their feeding areas completely covered with impervious cement or similar material.

The needs of trees exposed to such conditions have been ignored although they are supposedly highly prized. The avoidance of conditions so hazardous to trees is comparatively easy. It should be possible to obtain satisfactory architectural effects without wide areas of dazzling cement, especially if appearances were enhanced by vigorous trees rather than partially destroyed by oaks or elms struggling to exist. Unfortunately, the ill-effects of concrete and macadam are more prevalent about the dwelling, the place where vigorous trees are most desired, and the larger the property the greater the probability of such conditions.

GUARD AGAINST SUN-SCALD

The danger of sun-scauld to thin-barked limbs and trees can be greatly reduced by slow thinning until the desired openness of the woodland is obtained. On the margins of driveways and the lawn, leave more trees than it is planned to retain permanently, in the expectation that some of the more exposed will die slowly and give protection for a time to those behind. This may prevent serious injury to the permanent trees. If it is impractical to leave temporary bordering trees, band the thinner bark of those most badly exposed to the sun with burlap for a season or two. There is much more sun-scauld than many realize. Frequently the effects are attributed to other causes.

Remove no more of the humus or decaying leaf mold of the forest floor than is necessary and conserve low shrubs for a time at least in order to permit the trees to make a gradual change from the protected moist condition of the woods to the more open surroundings of a dwelling. The decaying vegetable matter is a most effective absorbent of moisture and a great check on evaporation of soil water. Even at best there will be considerable change in the growing conditions. The removal of humus kills many valuable trees in the course of years.

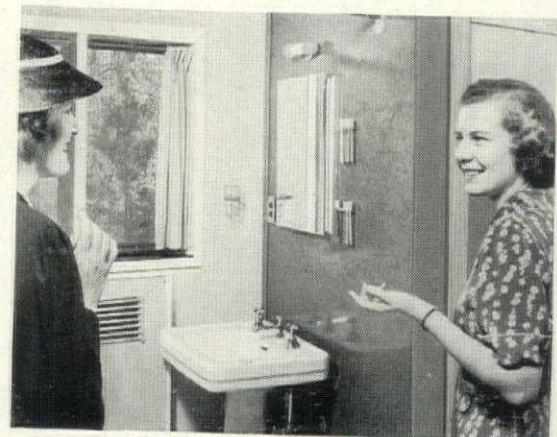
The effects of changes in growing conditions are likely to extend through a series of years. Even with the best of care, some of the more valuable trees may suffer greatly. Feeding materially aids trees in adapting themselves to new conditions and is recommended for those which are more important.

(Continued on page 60)

MRS. FRAZER CONFIDES IN A FRIEND



"Believe me, I had MY ideas about how certain things should be handled in this house. I'd seen MASONITE in Mary's home, so I insisted our builder use it. For instance, this neat frame around the mirror is MASONITE TEMPERED PRESWOOD with sanded edges. The radiator covers are MASONITE TEMPERED PRESWOOD too."



"Our bathroom walls are MASONITE TEMPERED PRESWOOD. Two are enameled and two are clear-varnished to produce the smart two-tone effect. Of course, MASONITE is moisture-resisting, so steam from a hot bath or shower doesn't affect it."



"These are regular doors with MASONITE TEMPERED PRESWOOD glued to each side. We have all the advantages of flush doors, and if finger marks show, I can clean them by just wiping down with a damp cloth. Easy, isn't it?"

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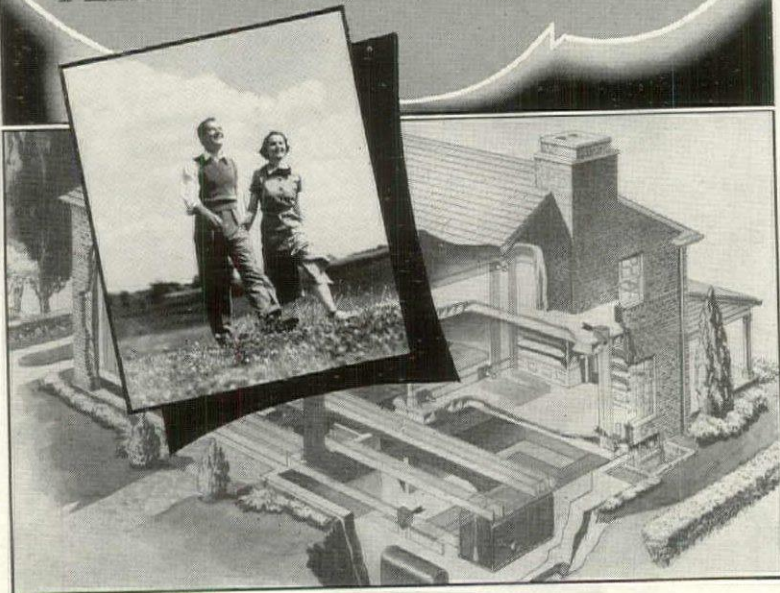
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Gar Wood owners enjoy better inside weather than that of the rarest day in June. For them, a mere finger flick blends the precise warmth they like with the moisture they need. They breathe air that is filtered free of floating germ-laden dust and odors. In their homes, plant life thrives. Furniture and woodwork is preserved. Curtains and walls remain cleaner longer. There is far less dusting. Many claim freedom from colds. And when summer rolls around, rooms are blower cooled and dust and pollen is filtered from the air.

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Gar Wood Tempered-Aire is well worth investigating. Write, while it is in your mind, for the free facts booklet that tells the inside story of Gar Wood Tempered-Aire. You'll be glad that you did.



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SHADE TREE PROBLEMS

(CONTINUED FROM PAGE 59)

Delaying feeding until there is a weakened condition defeats the very purpose for which the property has been purchased and is being developed. It permits a decadence to start and possibly get beyond control before the seriousness of the probable outcome is appreciated.

The property was purchased because of the trees. The desire to conserve the investment suggests doing what is feasible to keep them vigorous. It costs much less than to replace them and as a rule the results are more satisfactory. It is desirable to spray such trees at the outset for control of leaf-eating insects, especially as this, as well as preventing, to a considerable extent prevents attacks by deadly borers. The reason for these recommendations is that borers, especially two-lined chestnut borers and bronze birch borers, are limited somewhat closely to sickly and dying oaks and birches. Prevention is more satisfactory than attempts to remedy trouble.

Many trees in recently developed wooded areas have to make greater adjustments than ordinary transplanted trees, even if the transplanting is done poorly. The need of good care for transplanted trees is generally recognized. It follows from the above that woodland trees should be given the best possible care, starting with the laying out of the grounds.

The pith of the matter is, that while trees grow under widely different conditions, it is a fact that sudden changes in any of the essential requirements are extremely dangerous and in many woodland developments they are made with little regard for probable effects. It is entirely possible, in many instances, to avoid drastic changes or, by the adoption of precautions, to minimize the danger of injuring the trees. It is obvious that this latter should be given consideration in planning the home grounds, especially if they were purchased largely because of the trees.

HEAT

OF THE fuels used in heating—coal, oil, and gas—the choice is largely a question of economy, cleanliness, and availability.

Economy will vary with availability, of course, and in those sections of the country where gas, for example, is plentiful and inexpensive it is naturally the logical choice, whereas in other sections it might compare unfavorably with coal or oil.

But economy is also dependent on the efficiency of the heating equipment and the degree of control that can be maintained over it. The old-fashioned, hand-stoked, coal furnace is an example of the wastefully inefficient equipment which has been largely superseded by modern automatically controlled installations.

For instance: "Tending the furnace" was, only a few years ago, one of the major tribulations of the winter season. The home-owner would be reminded—either by his wife or by a chilly feeling around the feet—that the furnace needed more coal. He descended into the cellar, opened the furnace door (thereby cooling the fire with an inrush of cold air), and threw on some more coal. This green coal was quickly heated by the incandescent coal beneath, resulting in distillation of the volatile gases so rapidly that large amounts escaped unconsumed up the chimney. The gentleman-stoker adjusted the drafts as well as he could and returned upstairs where, in a short time, the rooms which had been chilly began to be uncomfortably warm.

MODERN EFFICIENCY

The development of modern equipment gradually brought about the changes which today are commonplace. Even the hand-stoked boiler or furnace of today has a relatively high efficiency and requires less effort to operate, as a result of recent improvements.

The progress from "tending the furnace" to the convenience of modern installations has, however, been gradual. Probably not very many of our read-

ers are still using really obsolete heating equipment. But it is equally probable that a considerable number are using systems which represent only a comparatively slight improvement, and which could profitably be brought more into line with later developments.

Our purpose, in this article, is to discuss in thoroughly non-technical terms various elements in the modern heating system as they apply, or may be applied, to new homes and to the modernization of existing installations.

The first element to consider is, of course, the source of heat—the automatic stoker, the oil burner, and the gas burner.

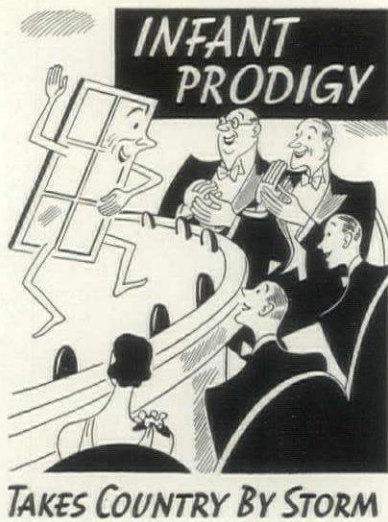
AUTOMATIC STOKERS

Mechanical stokers, of which there are a number of types, differ from one another mechanically, but are all designed to feed coal in a regulated flow to the furnace and to dispense with the nuisance of hand stoking. A common type conveys the coal from a storage hopper by means of a motor-driven worm, or ring drive, to the retort in the combustion chamber. This retort has openings through which air for combustion is admitted. The coal is fed into the bottom of the retort and is slowly pushed up to the surface where it becomes incandescent. During this process the volatile gases, which are liberated from the new coal, pass up through the burning coal and are ignited. Proper draft is maintained by a blower driven by the same motor that operates the conveyor.

Some stokers have an automatic grate-shaking device, and mechanical means for removing ash and depositing it in a receptacle. Some have a coal hopper which requires periodic filling by hand, while others automatically take coal directly from the bin to the fire.

The automatic stoker has made coal almost as clean to use as oil or gas and the comparative economy of burning low-cost coal may, in some sections,

(Continued on page 61)



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Curtis Doors used in House & Garden's class one first prize house.

HEAT

(CONTINUED FROM PAGE 60)

be considerable. The superior convenience of the stoker as against hand-firing is unquestioned, and, since stokers lend themselves to the same automatic controls as may be used with oil or gas, the heat produced is balanced to actual requirements and a predetermined, even temperature maintained.

TWO OIL-BURNER TYPES

Oil burners have been quite extensively used for converting old heating systems. There are two general types, the gun type and the rotary, and of these the gun is more adaptable to the modernization of existing equipment. Conversion to oil requires installation of a storage tank, burner, and proper controls. Some controls are located in the cellar, where they insure the safe operation of the heating unit, while others, such as the thermostat, regulate the production of heat in accordance with actual requirements through the house.

The gun type burner operates by shooting atomized oil, mixed with air, into the combustion chamber. Ignition of this mixture is commonly accomplished by electricity, although sometimes a gas pilot-light is employed. When electricity is used, especially in the more remote rural sections, there may be interruptions in the operation of the system should a storm cause a temporary shut-down in the electrical supply. This factor, of course, applies to automatic stokers, which are driven by electric motors, no less than to electrically-ignited oil burners.

Oil furnaces, having an expertly designed burner sealed into the top of the steel casing of the furnace, operate on a new, scientific combustion principle and are revolutionary in conception.

GAS AND RATES

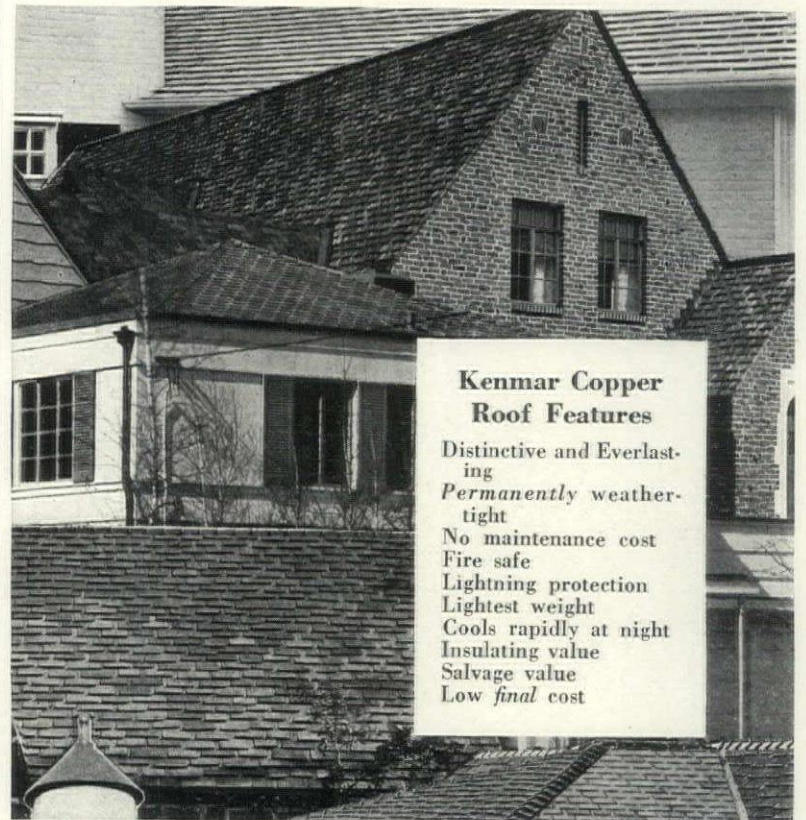
Gas fired systems are ideal in sections where the gas rate is low. They are clean, efficient and—because no moving parts are required—very dependable. Special types are available for use in boilers and furnaces originally designed for coal. They are supplied with manual, push-button, or room-temperature control. The latter, being automatic, naturally serves to maintain a more even temperature.

The decision as to which of the above burners shall be selected for a given installation depends on a number of factors. Since all types are dependable, clean, and subject to automatic control, the question of economy—which means the cost of fuel—is important. If there is a marked difference in cost in favor of one fuel over the other two, this will usually be a deciding factor. Where no such difference exists it is wise to select the type which promises the most effective and prompt local servicing.

But if the burners and stokers are an important item in modern heating—and a logical point of departure for this discussion—the modern boiler and warm air furnace are at least as important. Possibly more so, since it is reliably said that efficient, economical, automatic heating would not be possible had not engineers developed boilers and furnaces to their present high standards.

(Continued on page 62)

WHY many finer homes are being roofed with KENMAR Copper Shingles



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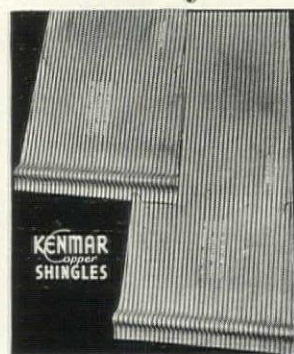
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BOOKLET FREE

to anyone planning to build or to re-roof. To secure your copy, paste coupon on a penny post-card, fill in, and mail.

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MANUFACTURERS OF SHEET COPPER SINCE 1845
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The manufacturers of Kenmar Copper Shingles, one of the oldest copper mills in the United States, have just published a new booklet on Kenmar Copper Roofs. It is a fact book from cover to cover. It lists the twelve points to check carefully when you select your new roof. Profusely illustrated with photographs of buildings all over the country now roofed with Kenmar Copper Shingles. Also direct color photographs of the various effects which can be obtained with Kenmar Copper Roofs. Gives detailed technical information about Kenmar Roofs for owners, architects, contractors, roofers.

New Haven Copper Co., Seymour, Conn.

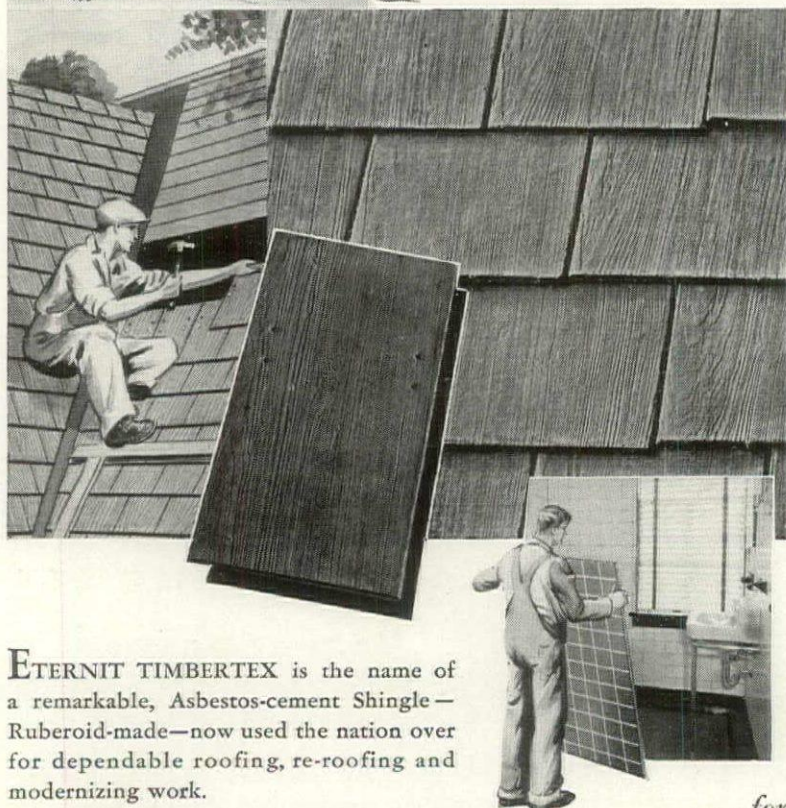
I am planning to re-roof..... about build
Send your new booklet "Kenmar Copper Roofs" to:

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Shingles of Cypress Charm

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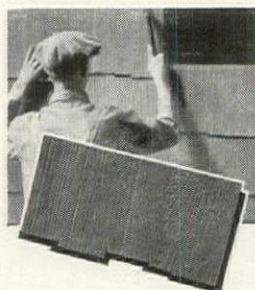
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HEAT

(CONTINUED FROM PAGE 61)

This point cannot be stressed too much. Many a householder, weary of shoveling coal and attracted by the promise of more economical heating, has installed a burner of some type in his old boiler. He has been relieved of the shoveling, but he has probably looked in vain for the hoped-for economies. It is possible that an automatic stoker, installed in a reasonably up-to-date boiler or furnace, will show good results. But when gas or oil is the fuel to be used it is best to scrap the old coal installation and put in a modern unit designed expressly for the work to be done. According to reliable authorities, the extra expense will be repaid within four years—sometimes three years—by the economies effected in fuel consumption.

SELECTING THE BOILER

A good heating contractor should be called in to assist in the selection of a boiler. He will take all factors into consideration—size and shape of the house, number of radiators, outdoor temperatures, etc.—and will recommend equipment which is properly designed to give maximum satisfaction with maximum economy. It is essential that the heating contractor be thoroughly familiar with the equipment he is to install and, if the householder has difficulty in deciding upon such a contractor he should get in touch with the manufacturers of the boiler he expects to purchase.

Important strides have been made in the development of the warm-air furnace. Formerly called the "hot-air" furnace this unit has, with reason, been renamed. The old hot-air furnace depended, for the circulation of its heat, on the ability of air to rise through the ducts when it had become sufficiently hot. Air that was merely warm was not light enough—it had to be hot. The result was a blast of super-heated air when the fires were hot, and no heat at all otherwise. There was also a marked difficulty in heating rooms on the windward side of the house when a hard wind built up a somewhat greater atmospheric pressure in these rooms than opposed the flow of heat in other parts of the house.

MODERN WARM-AIR FURNACES

The modern warm-air furnace operates on a different basis. A fan, usually installed at the point where the ducts lead out from the furnace, forces air up through the ducts independently of the temperature of the air. This provision obviates the necessity for heating the air beyond a moderate warmth. The fan passes the warm air up to the various rooms at a speed sufficient to prevent any material cooling during distribution. Other ducts, strategically located, are connected to the lower section of the furnace and, actuated by the partial vacuum created there by the fan, serve as return ducts. Thus, with warm air being gently forced into the rooms through the supply ducts and room air being sucked out through the returns, positive circulation is set up which promotes uniform distribution of heat.

As supplementary equipment, mod-

ern warm-air furnaces are often supplied with filters, through which the air passes and which remove much of the dust, soot, and other impurities contained in it; and with humidifiers which, by evaporating a sufficient quantity of moisture into the warm-air supply, maintain a healthful balance of heat to humidity.

Some warm-air systems lend themselves well to subsequent conversion to year-round air-conditioning systems.

MEANS OF DISTRIBUTION

The next element to consider is the means by which the heat generated in the boiler is distributed to the heating units throughout the house.

The principal pipe systems which conduct the steam, vapor, or hot water to the radiators or convectors are briefly discussed in the succeeding paragraphs, which offer the reader comparison of relative performance and cost.

One-pipe steam systems have the lowest initial cost of any of the five systems, and are also the most primitive. It is composed of a single pipe line leading from the boiler to the radiator. An air-vent valve on the radiator permits the air in the system to escape when steam rises in the pipes. Condensation—the water which forms in radiators and pipes as the steam is allowed to cool—must drain back to the basement through the same pipe used by the ascending steam. In poorly designed systems this often causes a pounding noise in the pipes. Similarly, the radiators are often slow in heating and quick to cool. It is difficult to maintain a satisfactory degree of automatic control over this type of system.

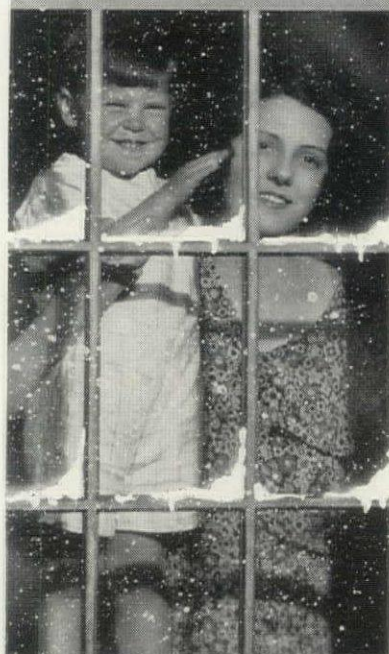
VAPOR SYSTEMS

One-pipe vapor systems are identical in construction with one-pipe steam, with the important exception that the vacuum type air-vent valve is used on all radiators and at certain points in the return lines near the boiler. The action of the vacuum valves is not difficult to understand. They permit air to be forced out of the system by the steam, but prevent its reentry for several hours. This develops a partial vacuum within the system. Just as water boils at lower temperatures on a high mountain top than at sea level—because of the lessened weight of atmospheric pressure on the water—so the water in the boiler, relieved of its normal atmospheric burden by the vacuum, continues to generate low-temperature steam for a period, even after the fire is checked. Radiators stay warm longer and, when the fire is turned up again, the vacuum permits the steam to reach the radiators more quickly because it is unimpeded by the presence of cold air.

Conversion of old one-pipe steam systems to one-pipe vapor systems is easily effected and results in lower operating costs, more uniform control, and greater comfort. It is essential, however, that the entire system be checked for possible air leaks, as the existence of such leaks would make it impossible for the system to build

(Continued on page 63)

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HEAT

(CONTINUED FROM PAGE 62)

up a vacuum and maintain it for any appreciable length of time.

The initial cost of this type of system is higher than one-pipe steam, because of the cost of vacuum valves, but lower than any two-pipe system.

Two-pipe steam systems are still sometimes found in older buildings. These are similar to the one-pipe steam systems previously described, differing only in that they have one pipe line for supply and another for return, with a hand valve on each at the point of connection with the radiator.

Being wholly without automatic control they are not comparable in performance to modern two-pipe systems by which they have now been superseded. However, a qualified heating contractor can modernize and convert them to the more efficient types by the addition of necessary controls.

TWO-PIPE VAPOR SYSTEM

Two-pipe vapor systems differ from one-pipe systems in that they have a separate line of pipe, connected to the radiators, which carry air and condensate back to the boiler independently of the supply lines. At the point where these return pipes connect with radiators there is a thermostatic trap which will pass air and condensate but closes against steam. Air from the return pipes is vented through an air trap near the boiler, and the condensate passed back into the boiler. Control valves at top of radiators are of the modulating type—preferably equipped with “orifices”, or means of adjusting the valve to admit the exact amount of heat required by the size of individual radiators.

The performance of this type of system varies with the nature of controls employed. The more precise and automatic the control, the better will be the performance. However, it may be said in general that it offers good uniformity—excellent, under optimum conditions of control—and costs rather less to operate than one-pipe systems. Its initial cost is higher than one-pipe systems but lower than two-pipe vacuum or hot-water systems.

THE ATMOSPHERIC SYSTEM

The atmospheric system is similar to the vapor system except that the air is freely vented to the atmosphere. This means that air may be forced from, or return to, the radiators as the steam supply is varied, thus permitting any proportion of steam and air to be maintained in the radiators. Thermostatic traps are used on the radiators unless orifices are employed to limit the amount of steam supplied.

Simplicity is characteristic of this two-pipe system. Its initial cost is lower than either vapor or two-pipe vacuum systems; it shows excellent uniformity of performance when properly controlled. Its operating cost is lower than two-pipe vapor.

Two-pipe vacuum systems have the highest initial cost of any two-pipe system and are primarily intended for large buildings. Their performance when properly designed is generally superior to vapor systems.

These systems operate under a
(Continued on page 64)

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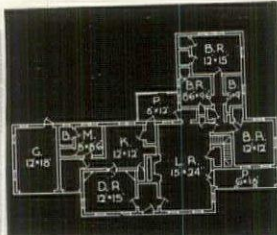
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HEAT

(CONTINUED FROM PAGE 63)

vacuum which is created by a pump, located near the boiler. This vacuum pump continuously removes air and condensate from the system, discharging the air into the atmosphere, and returning condensate to the boiler.

Hot-water heating systems might also be divided into one-pipe and two-pipe systems, since both exist, but the one-pipe installation has become practically obsolete.

Modern hot-water systems are therefore always of the two-pipe variety. The supply and return lines are so designed that all radiators receive hot water at approximately the same temperature and have the same heating value for a given area.

Gravity hot-water systems are of two types, designated as "open" or "closed". Included in the system is an expansion tank, which allows for the expansion of heated water. When this tank is open to the atmosphere, the system is classed as "open". When it is sealed and maintains a head of air under pressure, the system is of the "closed" type.

Uniformity of heating effect is characteristic of these systems. They possess a marked degree of "steadiness" and are flexible enough to meet wide differences in outdoor temperature with an equally wide range of water temperatures in the system. On the other hand, gravity systems are somewhat sluggish and slow to respond to rapidly changing conditions.

The initial cost is apt to be high, although lower than forced circulation systems. Operation cost is minimum.

FORCED CIRCULATION

Forced circulation systems of both open and closed types are the same in design as the gravity systems. To counteract the sluggishness inherent in the latter, however, they make use of a circulating pump, or "booster", to stimulate circulation and speed up the system's response to a call for heat.

Pipes may be 25% to 50% smaller than for gravity systems, but the amount of power applied through the pump must be increased as the size of the pipe is decreased.

Operating costs are low, except for the small added cost of power for the pump. Initial cost, for open systems, is rather higher than for gravity systems; about equal to vapor systems for closed types. Performance is very good, with excellent uniformity of heating effect and excellent responsiveness.

Note that gravity hot-water systems may readily be converted to forced circulation systems by simply adding a pump and, where necessary, the proper type of valves.

THE IMPORTANCE OF PIPING

Piping is an important element in any steam, vapor, or hot-water heating system. In remodeling old systems, it is often a major factor.

Standard pipe for residential heating work is commonly of steel or wrought iron. These are the least expensive types. Slightly more expensive, but more durable, are iron and steel pipes alloyed with copper, molybdenum, etc.

Copper pipe is much used for altera-

tion and conversion work because its flexibility enables such work to be done with a minimum of fittings and with less ripping up of walls and floors than would be necessary with rigid pipe.

Brass pipe is, of course, relatively expensive, but where water is severely corrosive or where great durability is desired its higher first cost may be offset by the savings in upkeep and replacement.

Modern copper pipe offers still another advantage in that it provides compact, tight joints, by brazing (similar to the "wiped" joints of the old lead pipe days), in place of the bulky and sometimes difficult fittings necessary in steel and wrought iron. Absence of threaded connections permits use of pipe with thinner walls and consequent smaller diameters.

INSULATION

It is essential that heating lines be well insulated against heat loss. The heating contractor should use only insulating material of recognized value, the product of a reliable manufacturer. Incidentally, heat loss through the walls and roof of a house is often a major cause of expense in heating, and while it does not influence the efficiency of the system itself, it suggests forcibly the ultimate economy of providing the house with good insulation against this unnecessary waste.

Radiators and Convectors are the disseminators of the heat generated in the basement. The ultimate efficiency of the entire system can be raised, or materially lowered according to whether or not these heating units are properly sized, properly placed, and—if they are enclosed—given an enclosure which will promote rather than retard the flow of heat.

It is unwise to use radiators and convectors of dissimilar metal in a house, or part of a house, controlled by a single thermostat. Convectors, especially those not made of iron, heat more quickly and cool more quickly than do radiators. The same control, therefore, cannot well be applied to both without creating wider fluctuations of temperatures in rooms supplied with convectors. On the other hand, it is good practice to use a majority (say 70%) of either type and to employ the alternate type in such rooms as need either more or less heat than prevails in the rest of the house.

AUTOMATIC CONTROL

Automatic control of domestic heating equipment is designed to maintain temperature conditions required for human comfort, and to promote economy in operation. This control is exercised by the thermostat.

Wall thermostats, such as are generally used in homes, are actuated by a small piece of "bi-metal" (composed of two metals with different coefficients of expansion) which bends slightly, as the temperature changes, thereby motivating an electric or pneumatic switch to govern the heating apparatus. These thermostats may contain a single element set to maintain a single temperature; or two elements, one of which

(Continued on page 65)

HEAT

(CONTINUED FROM PAGE 64)

is set for a higher (daytime) temperature than the other which controls the night temperature.

In addition to the single thermostat control there are two other systems occasionally used in residences: individual room control and zone control.

Individual room control, the most elaborate of the three types, provides a thermostat in each room by means of which the radiator valves in that room are automatically governed. This system is relatively expensive but it may be modified and applied in houses where one room is difficult to heat.

ZONE CONTROL

Zone control is an intermediate of the above two systems. A large residence may be divided into sections having different heat requirements. For example, in many localities the rooms having north and west exposures may require more heat than those facing south and east. Each section is therefore given its own thermostat, resulting in greater comfort and greater economy.

When humidifying equipment is used in conjunction with heating an instrument called a "humidistat" is frequently used with it. The humidistat is sensitive to the amount of moisture in the air, just as the thermostat reacts to heat. Its use with humidifying apparatus is especially desirable since humidity is less readily perceived—hence less adaptable to manual control—than is heat. Used together, these instruments serve to maintain even temperatures coupled with a healthful, balanced moisture content in the air.

INSULATION

INSULATING men like to tell the old joke about the man who, when asked if he intended to have insulation in his house, replied indignantly: "Certainly! Do you think I'm going to put all that wiring in there bare?"

Ten years ago insulation was considered a doubtful luxury. Its purpose was not clearly understood. Its achievements had not been widely recorded.

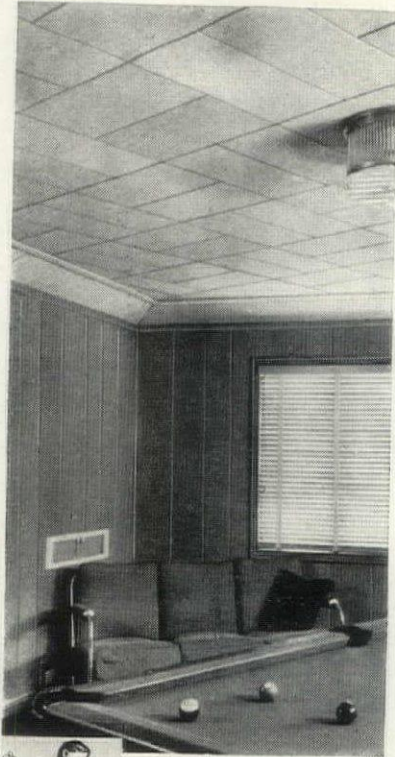
But in the last decade there has been a radical change in the thinking of home-owners and builders. Houses are no longer considered merely shelters. There is an increasing demand for comfort and—obviously born of the depression—economy of operation.

As air conditioning rises to be a major American industry, insulation, another phase of comfort insurance, is reaching record proportions.

DEFINITION OF INSULATION

The primary purpose of insulation is to minimize the transfer of heat through the walls and roof of a house. In winter this involves keeping heat in, and, in summer, keeping excessive heat out. There are three ways in which heat is transferred: by conduction, by convection, and by radiation. Briefly, we may say that *conduction* involves the transfer of heat through a solid material. Dense materials conduct heat most

(Continued on page 66)



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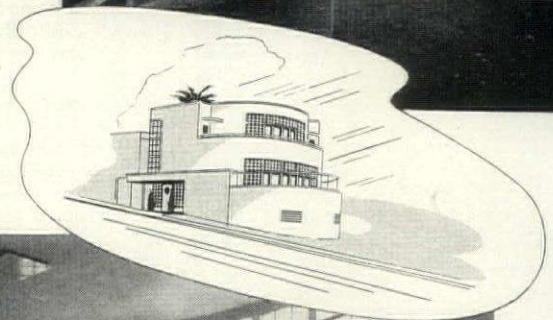
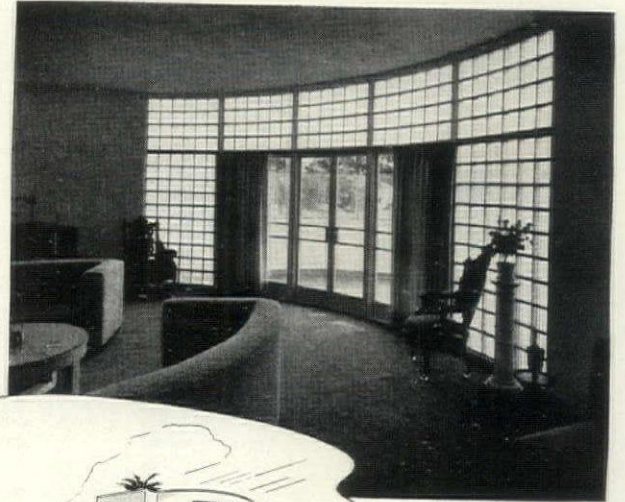
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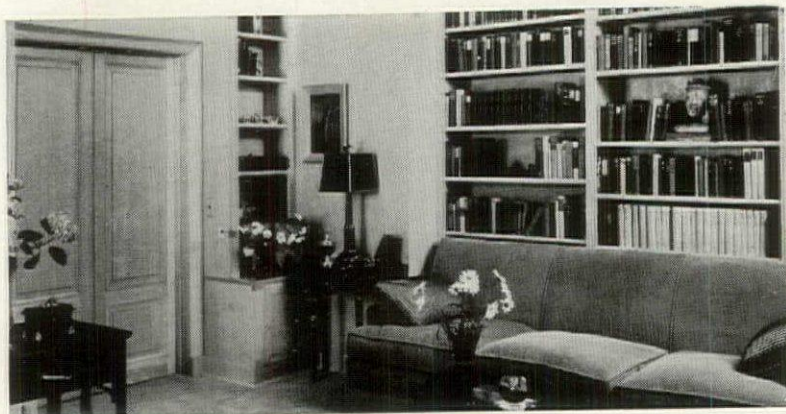
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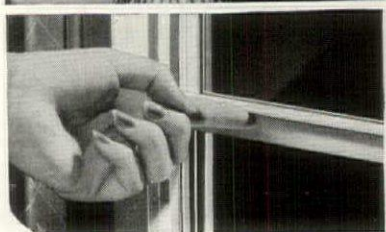
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INSULATION

(CONTINUED FROM PAGE 65)

rapidly; dead-air spaces conduct practically no heat. *Convection* involves heat transfer by air in motion: therefore only dead-air spaces are good insulators. *Radiation* is a process by which heat is transmitted through air to objects in its path without noticeably affecting the temperature of the air.

All insulating materials are designed to interfere with these three methods of heat transfer and slow up the flow of heat.

TWO SPECIFICATIONS

In general, all insulators fall into one of two classifications. The first comprises materials having a large percentage of small voids containing air, such as wood fibre, cane fibre, rock wool, and similar substances. These insulators aim principally at minimizing conduction and convection of heat by placing a network of small, non-conducting, dead-air spaces in its path. The solid portions screen off radiation.

The second group consists of metal foils, or sheets coated with a mineral pigment, having a reflective surface. Insulators of this type combat heat transfer by reflecting heat radiation. Air spaces, created within the walls of a house by the proper installation of this material, effectively bar conduction and convection.

In other words, there is nothing mysterious about insulation. Nor, for that matter, is there anything basically new in the idea. The primitive tropical hut, thatched with grass or reeds, is insulated against the unwelcome transfer of intense heat. The Eskimo igloo, built of loosely packed snow, is a mass of minute dead-air spaces which reduce the escape of whatever heat is generated within its domed wall. Modern insulation is simply more compact, more efficient, better adapted to construction.

RELATIVE EFFICIENCY

Fortunately, the matter of choosing an insulating material is considerably simplified for the home owner, or builder, by this fact: any recognized modern insulation, properly applied, will give good results. We do not need to consider the relative efficiency of the various types in so far as it concerns their ability to insulate. Not enough variation exists between them, in this respect, to make any important difference.

What is important is the selection of the type of insulation best adapted to the requirements of a specific job. The ensuing outline of types of insulation and methods of installation is therefore directed towards assisting the reader in making such a choice.

The most effective way to narrow down the selection is to define and limit the work to be done and the results expected. Is the insulation to be placed in an existing house or incorporated in new construction? Special types are manufactured for both purposes. Is economical heating the primary consideration, or does comfort rank first? If economy is the objective then the amount that may be spent on insulation will depend on the price of

fuel burned and the probable dollars-and-cents savings that will be realized. Obviously, if fuel is relatively expensive the savings will be proportionately greater for the same amount of insulation. If comfort is the main point, then, although the heating load will be definitely lightened, the amount of money saved is not quite so important. Will the insulating material be used as a substitute for some structural material, such as a base for plaster? Or as the interior finish of walls? Special types are adapted to these uses, while others are intended to act solely in the capacity of insulators and are supplementary to all other construction.

The ever-increasing demand for insulating materials has resulted in the development of a wide variety of products under many brands. All these, however, fall conveniently under four general headings designated in accordance with the nature of the product and the method of its application.

FILL TYPE

Fill type insulation is a fibrous material used for filling in the space between the inner and outer walls and roof or attic floor. It is made in such a way that it can be blown through a hose, or packed by hand, into all the spaces between the joists and rafters of existing buildings without inconvenience to the occupants and without even temporary disfigurement of the structure. Walls are filled by removing a clapboard, or brick, or boring a small hole for access at the top of each space and applying the granulated or shredded insulation through a hose, at a controlled pressure which produces approximately uniform density of insulation. Attic floors are filled between the joists, or the roof may be insulated by applying board or heavy paper to the structural members and filling in behind it.

Fill insulation is also used in new construction, and its use as described above is emphasized only because it is peculiarly adapted to the important work of providing an existing house with the comfort which would automatically be built into a new house at the time of construction.

FILL MATERIALS

The materials of which fill insulations are commonly made are mineral wool or glass wool. These materials are light, non-combustible and permanent and both owe their efficient insulating properties to their fibrous structure which opposes a dense network of minute dead air spaces to the flow of heat. Furthermore, all fill-type insulation is applied "wall-thick"—approximately four inches. Lightness plus thickness are valuable factors in fill insulation.

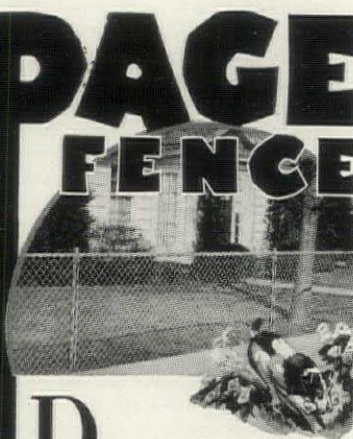
Quilt and bat type insulations are similar to one another in the manner in which they are applied. Quilt insulation is a loosely felted fibrous mat of eel grass, wood fibre, etc., covered with a layer of moisture-proof paper or fabric. Bats are substantially the same except that they are made generally of rock wool, glass wool, creped
(Continued on page 67)

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INSULATION

(CONTINUED FROM PAGE 66)

cellulose, etc. Bats are usually 3½" or 4" thick whereas quilts seldom exceed two inches.

STANDARD SIZES

Quilts and bats are manufactured in standard widths which permit them to be fitted snugly between the structural members of a house. In existing buildings they may be used for roof or attic floor insulation without difficulty, where the framing is exposed, but may not readily be placed between the walls except during construction.

Insulation of this type may be quickly and easily installed in new buildings, is clean to handle, permanent, and fire-proof or fire-resistant. Its lightness and loosely matted form make it suitable for packing cracks around openings and fitting around pipes and into irregular-shaped spaces. Like the fill type, quilt and bat insulation are used solely for their insulating properties, and do not take the place of any other building material.

BOARD TYPES

Board type insulation, on the other hand, is rigid, and usually possesses structural strength. It can be sawed and nailed and often serves as the plaster base or siding in addition to providing insulation. Usual thicknesses are one-half, three-fourths, and one inch.

Board insulation owes its effectiveness to its porous or fibrous structure. It should not be confused with the various types of building board which are used exclusively for structural purposes but are too dense in structure to provide any considerable degree of insulation. The materials of which board insulation is commonly made are cane fibre, wood fibre or magnesite. Cork board, of course, belongs in this group. Though it has not the structural strength of other boards, because of its high insulating value it finds its largest field in fine home and commercial installations rather than in smaller structures. Gypsum board, normally not an insulation board, is now procurable with aluminum foil insulation applied to one side, thus combining the advantages of reflective insulation with the excellent structural properties of gypsum lath.

It may be said that the thinner types of board insulation are not, on the whole, as effective as the lighter and thicker non-structural types, but their extra service as plaster base or sheathing may make their use appropriate, both in new construction and in remodeling, in cases where economy plus a moderate amount of insulation are the requirements.

REFLECTIVE TYPES

Reflective insulation, consisting of thin sheets of metal foil, of paper or board surfaced with foil or with polished mineral pigment, is a comparative newcomer to the field of home insulation. As was indicated in an earlier paragraph, reflective insulation operates on the principle that if the passage of radiant heat is opposed by a sub-

(Continued on page 68)



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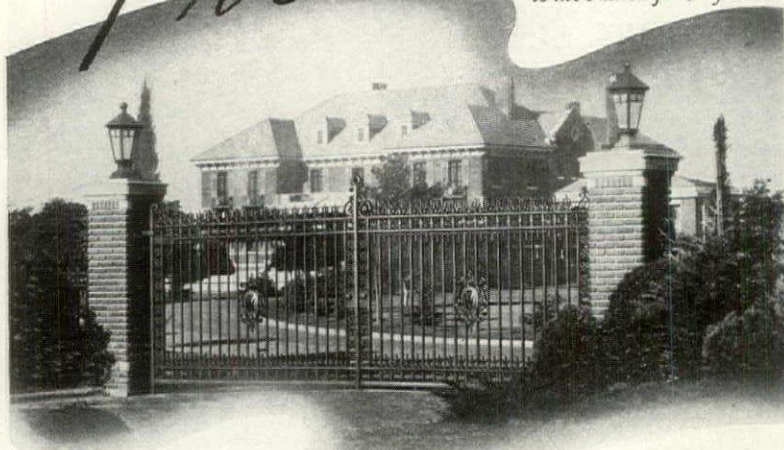
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INSULATION

(CONTINUED FROM PAGE 67)

stance which transmits heat very slowly, then most of the heat which strikes it will be reflected back towards the source. The accepted method of installation, therefore, is to fix one or more sheets of reflective insulation in the air space between inner and outer walls or roof of a house, or between the attic floor and the ceiling below. To be effective, the foil must always face an air space since these air spaces are necessary to prevent the conduction of heat, the foil preventing only radiation. A single sheet of foil, or paper-backed foil with two reflective surfaces installed in the center of an air space in such a way as to create two non-conducting spaces, increases the insulating effect of this type.

MOST ECONOMICAL

Reflective insulation is economical to install, and laboratory tests appear to demonstrate its effectiveness. In point of testing under actual conditions of use this type of insulation has not the benefit of the mass of data collected on older types. It is therefore probably too soon to attempt an authoritative estimate of its practicality and permanence.

In addition to insulation there are two other factors in temperature control—weatherstrip and storm windows. Weatherstrip might well be considered the initial step in insulation, since it must be obvious that no amount of insulation in the walls and roof of a house will assure comfort and economy if cold air currents filter into the house around every door and window.

To prevent infiltration, modern weatherstrip of metal has been devised. It should be installed by a competent carpenter and should not be confused with the temporary and haphazard felt weatherstrip often applied by the homeowner as a sort of first aid to advanced cases of infiltration.

Modern weatherstripping is designed to form a continuous water-tight and wind-tight lock around all doors and windows and along the cross-bar of double-hung windows. Commonly, it is of the interlocking, tongue-and-groove variety, although certain types employ a thin ribbon of spring metal to seal the crack. Installation requires that doors and windows be removed from their frames.

The two metals chiefly used for weatherstrip are zinc and bronze. Zinc is perfectly satisfactory in 75 per cent of localities but will deteriorate rapidly in salt air or when exposed to certain gases found in industrial sections. Bronze is permanent and durable anywhere. It costs about $2\frac{1}{2}$ times as much as zinc.

When one considers the advantages of weatherstripping, the cost is found to be a fairly negligible item. A house properly weatherstripped will show a fuel saving of from 15% to 20% over one which is not. Draughts from this most common source are eliminated (government figures estimate an 83% reduction in leakage in a 30-mile wind); rattling or sticking doors or windows are corrected; the house is made more secure against summer dust or driving rains. The cost for this, in the case of the average small house

(25 windows, 3 doors), will run approximately \$100 for zinc or \$175 for bronze, installed. Where air-conditioning systems are employed in a home, weatherstripping is an essential to good operation. It is doubtful whether any manufacturer of such systems would promise satisfactory operation in a house not so equipped.

Storm windows properly fitted are decided aids in correcting excessive heat loss. The importance of some form of insulation in glazed openings becomes apparent when one considers the large proportion of wall space, in the average house, occupied by windows. Radiators or convectors are commonly placed under windows for the reason that the greatest heat loss always occurs at these points.

The important factor in the insulation of glazed openings is the creation of a dead air space between two sheets of glass. This space should be made as air tight as possible, to prevent convection currents, and, to secure maximum efficiency. It should not exceed $\frac{1}{2}$ inch between the panes. Double glazing of this type is at present engaging the attention of a number of large industrial laboratories and it will doubtless not be long before this form of insulation is more readily procurable than at present. The trend seems to be towards incorporating two sheets of glass in a single frame with an airtight divider separating them by exactly the proper distance. The air in this space is dehydrated to prevent condensation within the panes and the frame is then hermetically sealed.

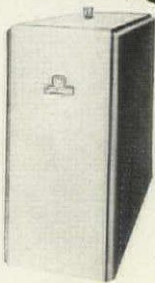
With these salient facts about insulation in mind, the reader should be in a position to consider how he will attack the question of making his home more comfortable and healthful and more economical to heat.

IN ORDER OF IMPORTANCE

Unless a complete job of insulating is to be done at once, the important consideration is what to do first—what part of the complete job is most necessary and will show the greatest return. Probably weatherstripping is the first need of almost any house. As has been pointed out before, no insulation of walls or roof can offset the effect of infiltration through cracks which, in the case of the average door or window, total up to the equivalent of a hole $6\frac{1}{4}$ inches long by 3 inches wide.

The next consideration is insulation. If it is desired to do only a portion of this work at one time, perhaps completing the job at a later date, the roof or attic floor is the important point to insulate. Heat rises, and a greater percentage of heat loss occurs through the roof than through the walls. There are several factors which are important in deciding whether to insulate the roof or the attic floor. When the roof is insulated, heat rises into the attic, and, since this space represents a considerable part of the total area of the house, a considerable waste of heat occurs when this heat is permitted to rise into an unused space. When the attic floor is insulated, however, care should be taken to provide adequate ventilation of the space which remains under the roof.

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BUILDING BOOKSHELF

AIR CONDITIONING IN THE HOME, by Elmer Torok, M.E.; 296 pp.; illustrated; published by The Industrial Press, 148 Lafayette St., New York; price, \$3.00

Although this book is sufficiently complete and authoritative to be of interest to architects and engineers, the author has been careful to keep his treatment of the subject so simple and direct that the book is admirably adapted to the needs of the layman. The opening chapters deal with the various functions of an air-conditioning system, the equipment involved, and the several types of systems. Installation and operation are discussed, with pertinent facts concerning the estimated costs of operation. There is a splendid chapter on the principles of air conditioning, presented in the form of questions and answers.

The latter part of the book is devoted to an outline of methods of calculating the air conditioning requirements of a given space in a given structure. The tables, examples and solutions might be of interest only to those individuals with a mathematical turn of mind, although the author suggests that these calculations are no more difficult than a good cross-word puzzle, and every bit as fascinating.

Mr. Torok is a mechanical engineer of distinguished attainments, and his book should prove of real value to all those home-owners who want to know more about this extremely important subject.

THE EARLY ARCHITECTURE OF WESTERN PENNSYLVANIA; text by Charles Morse Stotz, A.I.A.; 290 pp.; illustrated; published by William Helburn, Inc., New York, for the Buhl Foundation, Pittsburgh.

The architectural history of Western Pennsylvania started some years before the middle of the eighteenth century, when the first white trader built a crude cabin near the headwaters of the Ohio. Through the period from 1750 to 1795, as the stream of pioneer settlers moved into the land, most of the buildings were of logs. With the construction of the historic traffic arteries—the hard surfaced pikes and the canals—the settlement of the West began in earnest, and the Pennsylvania homesteaders of the Colonial era gave place to the early industrialists of the post-Colonial period. The homes of this period reflect the influence of the contemporary architecture of Georgian England, as, after 1830, they reflect the influence of the Greek Revival.

It is history, therefore, in terms of architecture, which we find in this handsomely made, profusely illustrated volume. Almost every significant type of structure built prior to 1860 is represented by photographs, often supplemented by carefully developed measured drawings. The survey is preponderantly devoted to residences, but also includes public buildings, barns, mills, manufactories, furnaces, bridges, canal structures, tollhouses, and fortifications.

This volume is the work of the Western Pennsylvania Architectural Survey, the costs of operation and publication being defrayed by The Buhl Foundation of Pittsburgh. Much of the field work and the measured drawings were done by members of the architectural profession associated with the survey.



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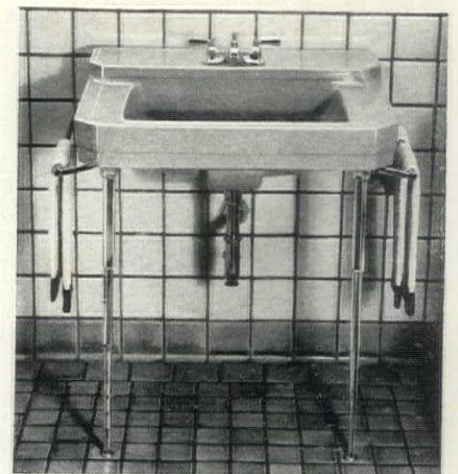
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HARDWARE

OF ALL the materials and equipment that go into a house, it would be difficult to think of any which are so constantly used and handled by the household as are the hardware and the doors and windows. If these are of good quality and properly selected for their particular function they will be a source of satisfaction every time they are used. The simple act of opening a window or locking the front door will reflect, in a sense, a tribute to the owner's wisdom and foresight. There is nothing more annoying than windows that are difficult to open or close, doors that seem to sag on their hinges, latches that don't stay latched. And, of course, there is little security in a cheap lock that any intruder could pick without making the slightest disturbance.

In point of appearance, too, it is extremely desirable that the building budget should provide for the purchase of up-to-date equipment of a quality at least commensurate with other materials in the house. Paint and wallpaper, and many other items of decoration, may be frequently changed or renewed—but the hardware, like the doors and windows, is expected to remain attractive and to work efficiently as long as the house stands.

In the selection of hardware for your home the three important considerations are style, function and quality. It is well to consult with your architect and with an experienced builder's hardware man in making your decisions. In the matter of style, it is, of course, important to select hardware that will be completely harmonious with the architectural design of your home. Manufacturers' stock patterns include reproductions of distinguished hardware in every important style, as well as adaptations and original designs. It should not be difficult to narrow your selection down to the appropriate style and then to choose the particular pattern which most appeals to you.

Function is another matter, and one which merits close attention. Manufacturers have devised locks and latches, for example, to suit every imaginable requirement or set of conditions. When your hardware man knows your needs, in a specific case, he may be able to suggest a type of lock which will serve your purpose better than you had

realized was possible. For example, it is quite usual to find a garage door equipped with a lock as solid and as attractive looking as the lock on the front door. Yet that lock may not necessarily provide any security for the contents of the garage. The thief cannot enter by the door but he can force a window and then what is to prevent his unlatching the door from inside? The manufacturers' answer to this condition is a type of cylinder lock which cannot be opened from either side without the key. And, speaking of the front door, it very often happens that this door is secured with the best available lock and other hardware, while the rear door is so poorly equipped that even an amateur could open it without making much noise or taking much trouble.

So much for security. But, quite aside from security, this same matter of function extends itself to many other pieces of hardware throughout the house—casement operators and latches for French doors, the hardware appropriate to secret panels and many other installations of a special nature. In the selection of any of these the wide experience of your architect and hardware man should be of value in calling to your attention the various types of equipment which have been specifically designed to fill your individual needs.

Quality is another important item. The amount of money spent for hardware is not a very large percentage of the total cost of building, and good equipment will be a source of satisfaction long after the cost is forgotten. We do not advocate extravagance, especially where a limited budget must be adhered to, but we do suggest that the allotment for hardware be not cut below the sum which will provide attractive, durable equipment.

There is one more point about hardware which deserves attention. After you have carefully looked over your dealer's stock and have selected all the necessary locks and latches, hinges, escutcheons, door-closers, etc.—be sure that they are properly installed. If you are building a new house your architect will, of course, give his personal supervision to the matter. But if you are remodeling, or bringing an old house up to date, ask your contractor to put his best carpenter on this job. The master carpenter is a true craftsman. His skill and experience will result in

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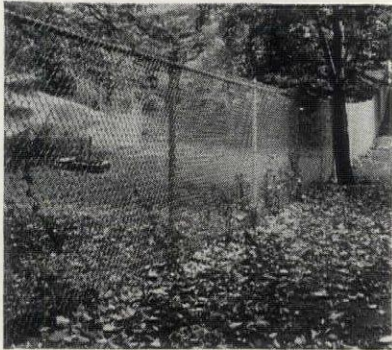
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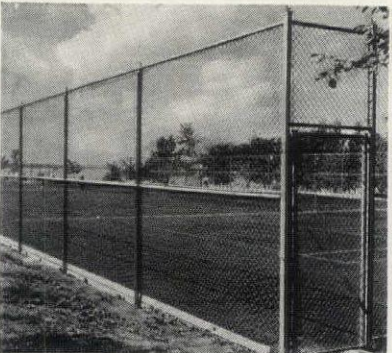
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HARDWARE

neat and accurate installation of your hardware, a consideration which it not only deserves but without which it cannot be expected to give maximum satisfaction.

Incidentally, the idea of modernizing with hardware is quite sound. If yours is an old house, and if the hardware is neither very attractive nor very efficient, try the effect of new, up-to-date hardware in some appropriate design. It is quite surprising to see what a change is wrought in the appearance of a house by simply putting attractive new hardware on the front door alone.

There are many new types of window which are very well worth investigating. The aim of manufacturers has been to design a window, whether double-hung or of the casement type, which would always be easy to open or close, which would keep out wind and weather, which would neither bind nor rattle, and which would harmonize with any architectural scheme. They have succeeded admirably. The modern window is a far cry from its predecessor which opened grudgingly, closed with a bang, and rattled in every wind.

Because the frame is as important as the sash in building a good window, many of these new types are sold as complete units, comprising frame, sash, sash balances (in the case of double hung types) and all necessary hardware. This unit design is of further importance in that the windows are thereby made quite simple to install. The materials of which the new windows are made vary according to the manufacturers' design. Wood, steel, aluminum and bronze are all represented. Some have features which may be of importance in special cases. For example, there are types which, in addition to the units mentioned above, are also equipped with a storm sash and a screen. In winter the close-fitting storm sash is fixed in the frame inside the regular sash, the casement windows being operated by special hardware without disturbing the storm sash. This type of window is especially valuable in cold climates and in locations exposed to high winds. In summer, the storm sash is readily removed and a window screen substituted, the casement being operated as before.

The steel sash basement window is an item which should not be overlooked. Although wood sash may quite properly be used in the rest of the house, this one point needs extra protection. A steel basement window, especially when glazed with wire glass, affords an extra measure of security. It is also better able to withstand the weathering and abuse which its ground-level position invites.

Screens have also been very remarkably improved. In many cases the manufacturers have succeeded in developing types which could be used inside the sash, rather than outside. This feature is, in itself, worthy of attention. Your house is designed to be architecturally harmonious in all its parts. The windows play an important part in giving the exterior an attractive appearance. Whenever possible this appearance should be preserved and the window sash should not be obscured by screens in the summer. Thanks to modern casement hardware and to the new types of screens, any window can now be screened on the inside leaving the

appearance of the house just as it was meant to be.

Most modern screens, especially those which are supplied complete with their own frame, are made of some durable rust-resisting metal such as copper or aluminum. These are exceedingly strong and consequently do not develop bulges at the slightest pressure. They need not be painted and they cannot cause unsightly rust stains on the walls of your home. The frames are often of metal, such as aluminum, which combines strength with lightness and which can be made much narrower, and therefore less conspicuous, than the old type of wood frame. They need not be painted and are easily installed or taken down.

Another justly famous screen is the type which rolls up, in the manner of the common window shade. A great convenience of these screens is that they can be installed inside any type of window without making any change in existing hardware. They move up and down easily in guides at the sides of the window frame and when not in use during the winter may simply be stored, in place, on their own rollers.

Space does not permit us to enumerate all the types of doors currently on the market, but many of these have been standard for so long and are so well known that it should serve the reader's needs if we speak only of some of the newer types.

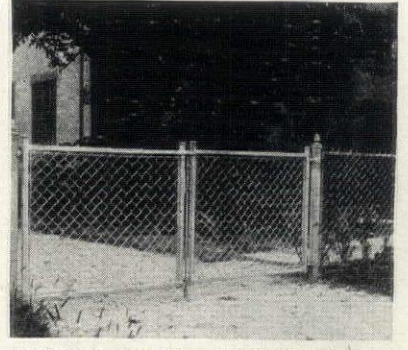
In wood doors of the panel type, an important development is the production, on a large scale, of the kind of door which formerly could only be had on special order and at considerable expense. Made of such woods as genuine American walnut, and beautifully designed, these doors may now be obtained at much less expense owing to modern production methods. This applies also to wood trim, and to paneling in a variety of standard patterns. This means that many home owners who have heretofore denied themselves a paneled room or the distinguished beauty of natural wood may now find that this pleasure has been brought within their means.

The so-called "flush" door is also well worth investigating. This door derives its name from the fact that it is composed of unbroken surfaces on both faces instead of being divided into panels. One such door has a core built up of strips which cross each other diagonally, as in an egg crate, which makes for strength with lightness. Over this core is a sound-deadening and insulating material, the face of the door being composed of a ply-wood panel veneered with one of a wide assortment of rare and beautiful woods. Doors of this type may also be obtained with a surface of durable synthetic material; they are easy to clean and need not be painted.

The new garage doors represent a considerable improvement over the old swinging type. When open, these doors afford clearance to the full width of the opening, which is a considerable advantage when space is at a premium. The old type doors were, as a rule, rather difficult to open and close—especially when snow or ice formed a barrier in front of them. The new types of door, whether of the sort which rolls back against the walls on a track, or of the overhead type, are all noteworthy for their ease of operation.

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ANCHOR Fences

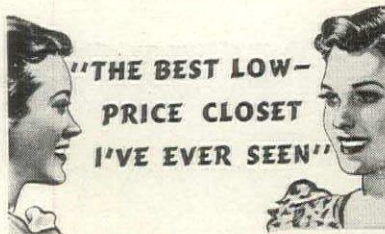
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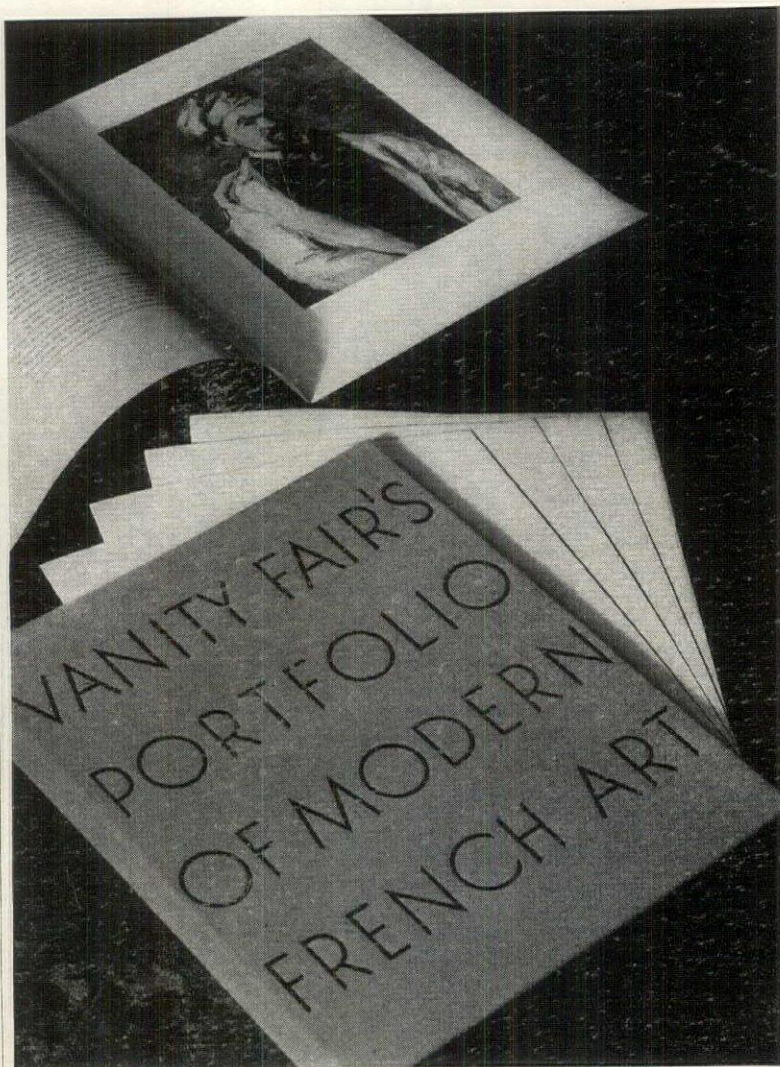
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