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RIGHT: a Macy version of a master bedroom with Regency furniture and Macy-designed satin twin beds with one headboard. We do lovely bedrooms for people of taste with large or small incomes.

LEFT: a Macy contemporary setting for Classics, with putty-colored chintz sofa to match the walls. We decorate unique, comfortable libraries for modest or more opulent sums.

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"Mrs. Sutton was especially interested in three things—a well arranged, workable kitchen, a spacious living room, a recreation spot where the children could entertain without disturbing other members of the family.

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Whether, like Dr. and Mrs. Sutton, you are building a new home—or remodeling your present one—make it "NEW AMERICAN", designed from the inside out, for efficient operation. Plan for a G-E all-electric kitchen. It simplifies work. It saves energy and strength—makes housework easier.

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Whenever you build or remodel it pays to engage an architect. He can save you many times his modest fee. The General Electric Home Bureau, 570 Lexington Avenue, New York City.

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IT'S BATHING TIME!
Give the birds a treat in one of these high fired Terra Cotta baths. The scalloped bowl in stony gray is 8", the shell in light red lined with turquoise glaze, $7.50. F.O.B. Philadelphia. Send 10¢ in stamps for other Garden designs.
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Ideal footwear for outdoor use in late summer and autumn. Woven of natural unpolished steerhide. Distinctive because no two pairs are the same. They are cool, light and flexible. Loose heel straps make for extra comfort. Indians hike over mountains in Huarachas but they make excellent house slippers if you prefer.
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PER PAIR POSTPAID — $3.75
To order, send an outline of the foot and mention shoe size.
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The most Sensational Piano Development of the Century.
This exquisite instrument, originated and exclusively fashioned by the old established House of Mathushek, has thrilled America since 1931.
A Grand Piano which combines decorative adaptability with tonal beauty.
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Designs from early periods to present day modern, ready-to-embroider or made to your special requirements.
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SHOPPING

A cozy web to be caught in—this spider footscraper. Fashioned of heavy rustproofed wrought iron, it is sturdy enough for the heaviest boot. The very effective brass insert is cast in bas-relief. It stands nine inches high and is priced at $19.00. A clever gift, it may be obtained from Todhunter, Inc., 119 East 57th Street, New York

One case where the line is drawn with superlative effect. This striking luncheon set in hand-loomed natural linen has contrasting lines drawn through in burgundy, gray or white ticking, and may be ordered in any other combination you wish. 17-piece set for $21.00. Made by the blind, sold by Moose, 750 Fifth Avenue, New York

Right on the dot—as far as style and good looks are concerned. A convenient little smoking trio of washable vegskin in such colors as yellow with deep blue dots, navy with red, brown and gold, or red or white with contrast. Cigarette box $3.25; match box 81.00; ash tray $2.00. From Rena Ronne, 465 Madison Avenue, New York

A bowl to complete the flavoring of your onion soup. The green and yellow onion shaped dish and plate cost $15.00 a dozen. Birchwood plate beneath it $24.00 a dozen. Hand-woven mats with 6 different insects—lady-bugs, grasshoppers, etc., or 6 flowers, vegetables or roosters, $36.00 doz. Pitt Petri, 501 Madison Avenue, New York
AROUND

If you are interested in any of the things shown on these pages, kindly send your checks or money orders directly to the shops. In each case, for your convenience, the address is listed in full.

One of the best tomato crops seen in many a year. The largest tomato has attained a diameter of 10 inches, and is to be used as a serving dish for soups, salads, buffets. $8.50. Next in size, 5 inches diameter, is for buffet suppers. $15.00 a dozen. Smallest luncheon size is 31/2 inches, $12.00 a dozen. Carbon, Inc., 342 Boylston Street, Boston, Mass.

Tapestry tidiness. Amateur weavers can rejoice in a bag which will guard not only their tapestry, but all and sundry yarns, needles, and the like. Adequate room and a separate compartment for tapestry, zipper opening, easy to carry. Black, brown, blue, navy or plum moire. $6.75. Alice Maynard, 558 Madison Avenue, New York.

Jam session in order. A very sweet one too, when the jam is harbored in these white earthenware pots. Different fruits painted in soft colors decorate the lids and identify contents. Besides cherry and raspberry tops, there are strawberry, gooseberry and apple lids. $2.75 each. Spoons $0.50. Plummer, Ltd., 7 East 35th St., New York.

When it comes to Sunday suppers, the best way to keep out of hot water is to keep your food in it. This combination buffet warmer and chafing dish contains two 1 quart pots, and one 5 pint chafing dish. These and water pan have a pure block tin lining. Warmer of copper, brass trim. $36.00. Bazar Francais, 666 6th Ave., New York.

Kensington Cottage—a commenced needlepoint picture complete with needles and all working materials for simple gros point stitch. Just the thing for Summer pastime. Specialists in unusual needlepoint designs. Committed Bargello pieces. Designs to order—family crest—wreaths, pictures of your house, garden, horses or dogs. Write for Estimate and Suggestions.

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YOURS for MOSQUITO-LESS nights!

The Electrocidc kills mosquitoes, moths and all sorts of Summer pests. Hang it on the porch and enjoy comfortable hours outdoors. May be used with regular incandescent bulbs. Or, when equipped with translucent globe as shown, gives a diffused light for reading or card playing. With globe.

$13.50 Without globe.
$19.75 Also in extra large size for estates.

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One block east of Park Avenue

Little shavers of soap cakes... no bigger than puffed-up mint wafers... fresh for each guest to use once and throw away. Of creamy imported soap in assorted fragrances, thirty-six to the box; $1.45. Mail orders are invited.

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SHOP SLOANE'S DURING THE STORE-WIDE AUGUST SALE

Specialists in unusual needlepoint designs. Committed Bargello pieces. Designs to order—family crest—wreaths, pictures of your house, garden, horses or dogs. Write for Estimate and Suggestions.

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GREG as iced lettuce . . . mousseline de soie dinner set, made lovelier with a linen leaf appliqué, bordered with linen bands for charm (and firm edges). Completely hand done, of course, to James S. Sutton's matchless standard. 17 pieces (with 8 dollahs, 8 matching Irish linen napkins each 18") sheafly, cheerfully beautiful in white or pastels—blue, green, peach, ivory. And only $45, withal!

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Marbles, Bronzes, Leads and Fine Pottery

This Pragimian Stone fruit basket gives just the necessary finishing touch to the top of a garden wall, post or other feature needing a bit of decoration. 14 inches high and 17 wide. Price $14.50. Same design with 4 handles, $25.

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The cow may jump over the moon but he won't darken its light as he is part of a decorative shield light for the nursery. One of a number of designs which can be ordered for one particular frame, $4.75 including complete wall bracket plus a detachable shield. Booklet available. James R. Marsh, Inc., Essex Fells, New Jersey.

Solving the sweet tooth problem in a healthful manner. This basket is filled with delicious sun-ripened tropical fruits processed to remain fresh indefinitely. 3 1/2 pounds for $3.75. Various fruit cakes, pecan confections, Guava jelly, marmalade, etc., are also available. Miami Industries, Inc., 3831-41 N.E. Second Avenue, Miami, Florida.

The best way to keep smoke out of your eyes is to keep it at a distance. And here are enough heavy paper cigarette holders to satisfy the most fastidious—25 of them for $1.00. These come in luscious colors, assorted or plain. A box of 300 monogrammed or stamped with name, $6.00. D. Lee Cooper, 606 Madison Avenue, New York.

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The best way to keep smoke out of your eyes is to keep it at a distance. And here are enough heavy paper cigarette holders to satisfy the most fastidious—25 of them for $1.00. These come in luscious colors, assorted or plain. A box of 300 monogrammed or stamped with name, $6.00. D. Lee Cooper, 606 Madison Avenue, New York.

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ANNOUNCING

House & Garden's September Double Number

including

a separately-bound feature portfolio of

AMERICA'S PRIZE-WINNING HOUSES

Selected from the Entries in House & Garden's First Annual Architects' Competition by a Jury of Eminent Authorities

Complete with Photographs, Architects' Plans, Elevations, Construction Costs and Other Essential Building Data

By way of commemorating the first anniversary of its unique and successful Double Number program, House & Garden announces its September Home-Building Double Number, featuring a separately-bound Portfolio of the outstanding houses built in America during the last three years. Never before has any magazine presented such a galaxy of noteworthy achievements in the home-building field.

The houses were selected from scores of entries in House & Garden's First Annual Architects' Competition by a distinguished jury composed of David Adler, of Chicago, Harrie T. Lindeberg and Allmon B. Fordyce, of New York, and the editors of House & Garden. Representing the best work of architects in all sections of the country, this collection will prove a veritable gold mine of inspiration and suggestion to prospective home builders everywhere.

No less than 30 houses will be included, together with complete architects' plans, photographs, elevations, construction costs and all other essential building data. Both large and small houses will be shown—the collection covering a wide price range.

Two Magazines for the Price of One

In addition to the Portfolio of Prize-Winning Houses, the September Double Number embraces a companion publication containing all customary House & Garden editorial features. In it you will find a preview of Fall decorating ideas, with a presentation in full color of new color schemes; an exhaustive feature on the new furniture styles; and another on modern lighting treatments. The use of structural glass is the subject of still another important article.

Features for Garden Growers

And there’s a real treat in store for garden growers in the pages devoted to kitchen gardens (or how to make a row of turnips look like a bed of roses) and in the splendid features on white daffodils and double tulips.

House & Garden’s flower print of the month is also included. And there’s a wealth of other material that will prove immeasurably helpful to present and prospective home owners.

Every Double Number of House & Garden has enjoyed a sell-out on the newsstands. So, if you are not a regular subscriber, we advise you to have your newsdealer reserve your copy of the September Home-Building Double Number without delay. It will sell at the usual price—35c.
REAL ESTATE

A NATIONAL DIRECTORY OF REAL ESTATE BROKERS

REAL ESTATE BOOM ON THE WAY—In an address at the White Plains, N. Y., County Center last month, Roy Wenzlick, author of "The Coming Boom in Real Estate" and the nation's foremost authority on real estate cycles, declared that much-heralded event near at hand. There is nothing mystical about it. Mr. Wenzlick maintains; real estate cycles follow a definite course of from 16 to 20 years in duration, and are as inevitable as tides, taxes, and labor disputes. He said that the same factors which caused real estate values to double from 1917 to 1921 are in evidence today in even more striking form, and that it is wise to expect the same results. Specifically, Mr. Wenzlick expects real estate to rise for several years, then recede slightly, and finally start climbing towards its peak probably in 1943 or 1944.

For prospective investors, he offers some sage advice: If you're planning to build—build now and thereby dodge inevitable rises in construction costs. If you wish to buy—buy now, for price-rises are sure to come. If your income is your capital, you can count on material increases in your interest in real estate in a very short time.

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FIFTH AVENUE, NEW YORK
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Anachronism of the first order: The Drake Hotel, as restful and charming a residence as you could wish for, is situated at 540 Park Avenue, right in the midst of everything gay and frivolous. Very handy this is, too; for after you have finished shopping or lunching or cocktail ing, it is only the shortest of steps to home and rest. Here you can get an apartment of anywhere from 2 to 9 rooms furnished and unfurnished. Throughout the whole building you’ll find an abundance of huge closets which are almost rooms in themselves. In the layouts on the top floors there are regular kitchens, while other rooms have serving pantries which, by the way, are very nice ones.

Since the Drake is an apartment hotel, most of the rentals are long term, but there are always additional single rooms available for guests or occasional transients. The cool and spacious dining room downstairs boasts a cuisine of the highest order. At the opposite end of the lobby is a comfortable lounge. This and the rest of the hotel are designed solely for your well-being in a simple and unpretentious manner, so that despite your residence in the big city you’ll almost always expect to hear the cock crowing at sunrise. Bing & Bing Management.

Gathering place for aristocrats the world over is the St. Regis Hotel at Fifth Avenue and 55th Street. Here is an apartment hotel which maintains not only its traditional high standards, but manages to add new ones at every convenient opportunity. Air-conditioning, which began last summer, has progressed so that not only all public rooms, but as many as 300 private suites reap the numerous benefits of this grand system. Practically every apartment in the hotel has been carefully re-decorated by Ann Tiffany and is apt to include such ingenious advantages as excellent antique furniture, fine imported fabrics, unusual color schemes, and occasionally fireplaces in master bedrooms.

The Viennese Roof, one of the most delightful of summer dining and dancing spots, remains open for the summer, headed by the orchestra of Jacques Fray and embellished with the glorious Albertina Rasch girls. When October rolls around, the popular Maiton ette Russe will reopen, and shortly after that, the Iridium Room which caused such a sensation last season. Always at your service is the main dining room downstairs and the King Cole bar—for more than just four o’clock, and after that time open for the better interests of mankind, James O. Stack, General Manager.

Happily situated on the southern edge of Central Park is the Navarro (112 Central Park South, to be exact). Despite its ever-popular location, and its undeniable convenience, this is an apartment hotel devoted to the quiet and peaceful ways of living. Built around a central hallway in such a manner that all apartments are outside ones commanding astounding views, layouts in this hotel are bound to soothe the most aesthetic fancies. Rooms may be rented by lease or by day; with a choice of one to innumerable room apartments, though the majority of them are of the 2 and 3 room type. These are either furnished or unfurnished. All arrangements of more than one room have excellent serving pantries, nicely tiled and neatly planned, with plenty of space for simple domestic maneuvering.

One of the nicest things about the Navarro is its system of cross-ventilation. Nearly every room has been carefully planned with as many exposures as the majority of them are of the 2 and 3 room type. These are either furnished or unfurnished. All arrangements of more than one room have excellent serving pantries, nicely tiled and neatly planned, with plenty of space for simple domestic maneuvering.

The Waldorf-Astoria is much too up-and-coming a place to sit back and simply enjoy its famous reputation. It will ever add to its list of advantages. For example, having discovered that Tower apartments proved so popular, the management has added to the group by changing transient rooms from the 21st to the 27th floor into special little two-
room apartments equipped with their own serving pantries. Incidentally, the whole 21st floor has just been decorated by Eugene Schoen, well known modernist, who has done some excellent work here, including one Swedish apartment. Below the 21st floor are the transient rooms, some of them located on the Park Avenue corner, and proving most attractive and really worthy of more than transient possibilities. Noteworthy is a brilliant idea developed on the 15th floor. This is devoted to the feminine gender, with rooms specially fitted out and decorated and desirable because of its unusual and enjoyable privacy. A new conservatory with a glass roof that opens in the summer and surrounds a solarium in the winter has proved so popular that the famous Starlight Roof is about to have its own glass enclosure. This will be especially lovely in the winter time.

As soon as Fall appears, the Sert room will re-open downstairs, and will have Eve Symington again, as an extra added attraction. Other entertainment centers in this vast hotel are the Norse Grill restaurant, the Men's Bar, the Empire Room, and the Lounge Cafe, any one of which ought to make up the minds of all prospective residents that there's no place like home. Lucius C. Boomer, Managing Director.

Not satisfied with a frenzy of building to be completed in October, the management at the Hampshire House is planning an extensive indoor gardening job. Taking the utmost advantage of a superb Park outlook, Dorothy Draper, the stylist and decorator for the building, emphasizes with mirrors all possible vestiges of nearby outdoor greenery. For instance, in the far end of the main dining room you will find an Orangerie reflecting by mirrored walls a lovely garden with huge lead urns, box trees, rhododendrons and a fountain that sprays water from an enormous cockle shell. All this is enhanced by indirect lighting, come evening.

In the apartments for rental, huge mirrors will be placed on the walls of all front living rooms so that any possible view of Central Park will be properly reflected. Huge casement windows insure an adequate direct view. A number of special terrace apartments will be planted with greenery and flowers. Even the cocktail lounge downstairs will alternate murals with great sheets of wall mirrors, so that willy-nilly, you won't be able to help feeling the great open spaces when you stop at the Hampshire House.

Douglas L. Eilliman & Co.
TRAVELOGUE
A directory of fine hotels and resorts

TO PUT ON YOUR CALENDAR:

August 2—Exhibition tennis matches by William T. Tilden, Bruce Barnes, Hyotaro Satoh, and others, Woodstock Inn courts, Woodstock, Vermont.

August 5, 7, 8, 12, 14, 15—Berkshire Symphonic Festival, at "Tanglewood," between Lenox and Stockbridge, Massachusetts.


August 16-21—Sixth annual Sagamore Invitation Tennis Tournament, Bolton Landing, New York.

August 21—Lenox Dog Show, Berkshire Hunt and Country Club, Lenox, Massachusetts.

August 21—First annual Interstate Horse Show, Davis Rink, Hanover, New Hampshire.

August 22-23—Robert E. Lee Week, White Sulphur Springs, West Virginia.

August 23—Eagles Mere Carnival Week, including Lake Carnival on August 24, Carnival Ball on August 25, Eagles Mere, Pennsylvania.

NEW HAMPSHIRE

Portsmouth

THE WENTWORTH BY-THE-SEA

A delightful summer home late June to early September, Old in its hospitable charm; modern in its accommodations. Privately owned facilities for entertaining relaxation. Golf, tennis, swimming, boating, fishing, good meals, moderate rates. Write for illustrated booklet.

White Mountains—Sugar Hill

Inn on the Ashuelot River, with about 30 miles of scenic bridle trails, making "The Wentworth" the ideal hotel for outdoor sports, with tennis, riding, canoeing, and bathing. Write for illustrated booklet.

NEW JERSEY

Ocean City

The Asbury Hotel. A delightful oceanfront place, close to all attractions and on the trolley line. Moderate rates. Write for illustrated booklet.

Saranac Inn

A magnificent summer hotel on Upper Saranac Lake. Camps completely equipped for housekeeping. Furnished Cottages for rent by week, month or season, serviced by hotel, 18-hole Championship Golf Course, Tennis, Boating, Fishing, Hunting, Horseback, guide, 15 miles from Saranac Lake, Essex County.

Saratoga Springs

New York City


The Asbury Hotel

An oceanfront hotel for the most discriminating tastes, with modern facilities for relaxation and entertainment. Write for illustrated booklet.

THE GREENBERGER

A stately of 50 saddle horses and over 250 miles of scenic bridle trails make The Greenberger an ideal location to explore all that America has to offer on horseback.Facilities at The Greenberger are second to none and accommodate all levels of horseback riding and rates are sent upon request. Address: Lewis & Johnson, General Manager.

NEW YORK

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A magnificent summer hotel on Upper Saranac Lake. Camps completely equipped for housekeeping. Furnished Cottages for rent by week, month, or season, serviced by hotel, 18-hole Championship Golf Course, Tennis, Boating, Fishing, Hunting, Horseback Riding, 15 miles from Saranac Lake, Saranac Lake, Essex County.

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A stately of 50 saddle horses and over 250 miles of scenic bridle trails make The Greenbrier an ideal location to explore all that America has to offer on horseback. Facilities at The Greenbrier are second to none and accommodate all levels of horseback riding and rates are sent upon request. Address: Lewis & Johnson, General Manager.

DUDE RANCHES

For you who like the savor

of: New York

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Beaver Creek Lodge, Ranch in heart of Rockies on 1,300 acres, furnished cabins, kitchen facilities, fishing, riding, outdoor sports, America Plan.

COLOMBUS

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Pack the bags for the Tyrol

Escape from the Babbitts! You can easily do it by packing your bags for a turn in the Tyrol whose breathless beauty will make you rush in to rent the nearest Alp—even if you only want it for yodelling!

Check your inhibitions with your formal evening togs in Vienna and forget you ever owned them. Don leather shorts, sashes, hats with shaving brush cockatoos and give yourself over to the mood of these carefree folk. Jog along to Ischl—it was good enough for Franz Josef, so it ought to do for you. Make for Zauner’s, Ischl’s leading coffee house, where you’ll get the real kurhaus spirit. Even though you’ve never been much of a beer drinker, you’ll soon find yourself swinging your new mountain boots under a table decked with steins.

If mountain climbing is too arduous, the Tyrol has a repertory of less tiring sports. You’ll find golf at Igls (near Innsbruck), tennis at Zell am See, sailing on the beautiful Worthersee, and even summer skiing at Sölden in the Oetzal Alps!

In your more serious moments (and you’ll have them) you’ll listen to the Meistersinger and see Max Reinhardt’s “Everyman” played in front of the Salzburg Cathedral. If you are lucky, you may even rub shoulders with Maestro Toscanini or Bruno Walter when they step down from the podium at the Salzburg Festival.
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A SCHOOL FOR GIRLS IN THE BERKSHIRES
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LOWEST SCHOOL A complete school in itself with fully equipped Junior High School. 42 acres near Princeton. All schools modern and centralized. Excellent facilities. Athletics. English, math, science, music, science, art, sports. Lower School 305. Middle School 305. Upper School 305. Full time. Special programs for individual students. For Catalog, Write: Box B, Princeton, N. J.

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Frank S. Hackett, Headmaster—Riverdale-on-Hudson, New York

PERSONAL ATTENTION
House & Garden's School Bureau each month gives you a carefully selected list of private schools to consider for your boy or girl. In addition, House & Garden's School Bureau offers you the personal assistance of its own college-trained staff—young men and women who will gladly consult with you on the special, all-important problem of your child's school. Come in and see them, or write in detail to:

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Leonard Brumby (Terriers), Hicksville, L. I., N. Y. (Hicksville 815)
Clinton J. Callahan (Sporting Breeds), Deer Park, L. I., N. Y. (Babylon 61-2)
Harold A. Correll (Sporting & Working Breeds), Mine Brook Rd., Bernardville, N. J. (Bernardville 5-J)
Robert Craighead (Terriers), Cross River, N. Y. (South Salem 198)
Charles H. Davis (Sporting Breeds), Elbridge, N. Y. (125-F-2 Jordan, N. Y.)
Duffy & Sachers (All Breeds), Route #10, Whippenny, N. J. (Whippenny 8-004)
Thomas M. Gately (All Breeds), E. Fulton Ave., Hempstead, L. I., N. Y. (Hempstead 1039)
Charles Hamilton (All Breeds), 2103 W. Genesee St., Syracuse, N. Y. (Syracuse 6-2420)
Harry Hartnett (All Breeds), Harrison, N. Y. (Rye 1721)
Mrs. Percy M. Hoopes (All Breeds), New Hope, Penn. (New Hope 641-J-11)
J. N. Levine (All Breeds), Cottman & Roosevelt Blvd., Philadelphia, Pa. (Freemont 5164)
Harry Livesey (Terriers), 195 Kings Rd., Madison, N. J. (Madison 6-0496)
Alf Loveridge (All Breeds), 36, Dr. A. A. Mitten, 1106 Mitten Bldg., Philadelphia, Pa. (Pennypacker 6100)
Harold Newman (All Breeds), R.F.D. #6, Columbus, Ohio (Alton 33)
J. L. Pratt (Terriers), R.D. 6, Amsterdam, N. Y. (Schenectady 6-9183)
Percy Roberts (All Breeds), Gardner St., Noroton, Conn. (Stanford 8-8045)
L. L. Romine (All Breeds), 329 E. Mt. Pleasant Ave., Livingston, N. J. (Livingston 6-0587)
Edwin Safford (Terriers), Bux 183, Pecksfield, N. Y. (Pecksfield 2832)
E. B. Sprague (Sporting Breeds), Lucknow Farms, South Norwalk, Conn. (Norwalk 1171)
Jimmie Sullivan (All Breeds), 3025 N. Harlem Ave., Chicago, Ill. (Merrimac 5070)
Mrs. Emmett Ward Burton (All Breeds), 241 Nahant St., Newton Centre, Mass. (Newton Centre 2401)

These Advertisers Will Give Special Consideration to Letters from Readers Who Mention House & Garden's Name

THE PROFESSIONAL HANDLER

Fundamentally, it is perhaps the universal urge to dab into another man's art—or better still, the American's newly found enjoyment of leisure—that has made men and women, during the past decade, turn in annually increasing numbers to the fascinating sport of owning, breeding and showing purebred dogs. The vast majority of these novices have a meagre knowledge of the dog game, as we are pleased to call it, of its complexities and its practices. It is to the professional handler, a man skilled and experienced in every canine detail, that they must look, sooner or later, for assistance in furthering their understanding of dogs and the many aspects and phases of the game itself.

That is as it should be. For the true story of the dog will never be completely written until it has a full and comprehensive chapter on the men and women whose business is wrapped up so tightly with our dogs. It is they who so often spot the potential champion; they who, because of their ability and experience, give a puppy poise and beauty and assurance. In a word, it is they who oil and keep the wheels of dogdom going on the right track.

For handling is both an art and a profession. It requires keen intelligence and much experience coupled with an ability to do things with the hand coordinating with the mind. It can be done only by those who have a natural talent for it. It is just like painting or music or writing or any of the other arts in which an inherent aptitude is needed. But above all, there must always be present an innate love of dogs, and a desire to see them in top form regardless of time, energy or anything else. And it is these qualities that are always found in the successful professional handler.

Handling is just as much a profession as is doctoring or the law or business, and its members know more about dogs than any other body of men in the dog world today. They give their lives to it, and they live by it. The financial gains from professional handling have often been discussed. The top-handlers, during the course of a year, earn a fair salary, but it cannot quite compensate for the long years of arduous apprenticeship they've spent in some high-class kennel, learning their trade and their dogs. At the start, the handler's pay was nothing; his hours stretched from one end of the year to the other; but it was training. He spent weeks in learning how to pose a dog; how to groom it successfully and how, by almost the very touch of his hands, to size up the good and bad points of a particular dog. In his work, he acquired a pretty good knowledge of medicine, and many professional handlers today
Much of the real success of dog ownership hinges on knowing your dog and how to keep him. We present here some pertinent advice.

know, from a practical standpoint, how to treat an ill dog much better than some veterinarians.

In short, the professional handler is what the name implies; a man or a woman who has become perfected in all branches of the sport of dogs. The handler is one jump ahead of the veterinarian because his care of dogs is preventative rather than curative; he's one jump ahead of the expert private fancier perhaps because he has more at stake—his reputation and his livelihood depend upon his knowing everything about dogs! And he's many jumps ahead of the novice exhibitor because he has served his own novitiate with a more serious purpose in view. I have heard it said that a successful handler has to sleep with one eye open all the time. For while he does have his day mapped out and planned from the moment he rises at five or six in the morning, there is always the unexpected element in caring for dogs that is bound to crop up at a moment's notice.

We will dwell upon the part played by the professional handler in the care of the pet dog later in this article, but let us now take some concrete instances of where he can be of use to the novice exhibitor.

Mr. Smith (that is always a safe name) decides to buy some dogs after he has visited a number of kennels in England one summer. He makes his purchases; the dogs, grand specimens of their breed, arrive in America in tip-top shape. Mr. Smith's business takes a great deal of his time; he can't spend too many hours on his dogs, and so it is that the gardener or the butler or the chauffeur is delegated to the task of caring for the dogs, which represent, let us say, an investment of some $3,000 to Mr. Smith. The dogs are fed anything at any time; they grow listless, their coats lose their gloss, but Mr. Smith takes the string to the next show, full of anticipation and with an eye to the blue rosette. He knows nothing about showing, and he's many jumps ahead of the novice exhibitor.

It looks easy. He does a clumsy job in the ring, the dogs are beaten, and in a minute the dog game looks crooked and sour. It looks easy. He does a clumsy job in the ring, the dogs are beaten, and in a minute the dog game looks crooked and sour.

(Continued on page 18)
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BEWARE OF BARGAIN BEEF

Editor's Note: The following article by Josephine Z. Rine appeared recently in the magazine *Dogdom*. So important is the subject, and so thorough Miss Rine's handling of it, that we are glad to reprint the story here with the permission of the author and the magazine.

The word hamburger can cover a multitude of sins! Under that presumably innocent guise, it can be anything from high quality, freshly ground beef to sour scraps mixed with formaldehyde and sold as food for dogs. It all depends upon the integrity of the man from whom you buy.

Not so many years ago "dog meat" was honest, butchered, and sold in small quantities by people who knew the business and were willing to provide a decent meal for their dogs. From an owner's point of view, the dog's welfare was his first consideration, and he would not think of neglecting the dog's diet in order to cut corners and make a profit for himself.

But with the increasing demand for dogs, there has been a marked decrease in the quality of dog food. Manufacturers are willing to sell inferior food as long as it is profitable, and many owners are willing to buy it because they believe it is good for their dogs. The result is that many dogs are being fed food that is not fit for human consumption. This is a dangerous state of affairs, and one that we should all be aware of.

As dog owners, we have a responsibility to our pets to make sure that they are well fed and well cared for. We should always purchase food from reputable sources, and we should be aware of the signs of good and bad food. Good food will have a fresh smell, and it will be easy to digest. Bad food will have a strong smell, and it will be difficult to digest.

In order to protect our dogs, we should always be on the lookout for signs of bad food. We should also be aware of the signs of good food, and we should be willing to pay a little more for food that is of high quality.

In conclusion, we should all be aware of the dangers of bad food, and we should do everything we can to protect our dogs from it. We should always purchase food from reputable sources, and we should be aware of the signs of good and bad food. By doing so, we can help to ensure the health and well-being of our pets.
of meat, merely the trimmed off portions of beef and lamb—anything at all in fact that in the interest of neatness and not-too-generous weight the butcher had trimmed off various cuts. Nevertheless it was good, sweet meat fit for consumption by man or beast, and it was fresh and bright looking because it had just been chopped.

Today we can go into some butcher shop and see in the glass-covered show-case a bright red mound of attractive hamburger whose color is so terribly bright that for the moment we are tempted to believe the white-aproned butcher when he assures us it is "the best there is!" But its color is not a natural red: on close inspection it is artificial looking stuff. What ails it? It is preserved. And why is it preserved? To disguise its age and quality.

An increasing demand for "dog meat" within recent years has changed the complexion of the scrap bucket contents which may now include odds and ends both fit and unfit to serve as food. It may include a fair assortment of purple, dye-stamped labels, and anything in the name of refuse that can be used to make bulk. For the too-thrifty butcher needs plenty of scraps today. He can fix them up and sell to dog owners. How does he do it?

To the can of scraps he adds a few pieces of good beef, and mixes this with the refuse. Over the whole he sprinkles a powder known to the trade as "preservatine," a preparation containing, among other chemicals, the dangerous, poisonous formaldehyde. This he mixes with water and carefully stirs up with his hands. The meat absorbs the fluid, after which the mixture is run through the chopper to emerge as the brightest, freshest looking "hamburger" ever seen. It cannot darken or grow unattractive, no matter how long it remains in the case, for its bright red is fixed. Good, natural ground beef darkens and spoils more quickly than beef in the whole piece, due to the fact that a larger proportion of its surface is exposed to the air. Therefore the formaldehyde trick is employed to brighten up the color, to act as a preservative and to conceal the real nature of the stuff. Needless to say, chopped beef of this type is distinctly dangerous to the health of dogs.

It is not, however, cheap butcher shops that are alone in the preservatine hamburger racket. Within recent years itinerant meat hucksters have preyed quite successfully on dog fanciers by delivering to their doors doctored chopped beef. Offering it at less than the customary price per pound, they frequently work up quite a business, with the dog breeders none the wiser until their dogs begin to get sick. And even then they are rarely able to trace the source of the illness. These meat salesmen, by cutting prices, make the going...
Difficult for honorable dealers in the shops and on the road who offer for sale safe and sound beef at legitimate figures.

What are we going to do about it? One of two things: give a wide berth to bargain beef, or test every bit of hamburger we feed our dogs. Of course, if we are absolutely confident of our butcher, then we may rest assured that his products are above reproach, but if we’re not, then we had better make the formaldehyde test. It is a bit difficult to test chopped beef itself for the presence of formaldehyde because chemicals added to the meat tend to coagulate the protein and blur the color reaction. But the formaldehyde preservative can be extracted into milk, then the milk tested in the following manner:

Mash down a small portion of the chopped beef, and over it pour some milk which itself is known to be formaldehyde free. Keep the mixture in the ice box for a few hours, meantime agitating it from time to time. As the formaldehyde is soluble, it will be extracted from the beef into the milk. Now, pour off the milk from the meat, and dilute it with an equal quantity of water. To this add just a few drops of ferric chloride. Next, pour some concentrated sulphuric acid slowly, carefully, down the side of the tilted glass. The reason for exerting great care at this point is to give the two liquids a chance to form in layers in the vessel. Do not splash in the sulphuric acid but pour it slowly down the side of the container. Then immerse the vessel in hot water. If formaldehyde is present, a violet ring will form where the two liquids meet. The test is so delicate that it will show up one part of formaldehyde in 200,000 parts of milk.

THE DOG’S DRINKING WATER

It is most important that a dog shall have an adequate amount of drinking water, especially in summer. Actually, the more water an animal or man drinks, the better. Poisons, which, in the normal course of metabolism, are generated within the body, are thereby diluted and the quicker eliminated because of the stimulating effect upon the kidneys. Therefore, it should be a general rule that a dish of water be available at all times, and particularly in hot summer weather. Dogs do not perspire, but they get rid of a tremendous quantity of moisture in their breath, and this loss must be compensated if good health is to continue. Water vessels need as much cleaning as do food containers. The dish should be of the non-spillable kind.

An insufficient supply of drinking water is a contributing cause of loss of condition; and it may, if continued over a number of weeks, lead to emaciation.
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LIVING CATALOG. If we were passing around awards to nurserymen for bright ideas, we would award a large medal to Henry Dreer & Sons for their Living Catalog at Riverton, N. J. Most people who read seed and plant catalogs gaze at the pictures of flowers, fruit and vegetables with eyes of a faith that would have put even an early Christian to shame. How much better to see these plants actually growing! So Dreer's have planted their catalog, the perennials in one place, annuals in another, and vines in their own section. They are set out in long beds and the plants are arranged alphabetically. You pass from Aquilegias to Zinnias without an effort.

WILD STRAWBERRIES AT HOME. One of the customs prevalent among gourmets of the minor order is to smash their lips over the Wild Strawberry jam they enjoyed in France or Canada or Siberia or Timbuctoo. It never occurs to them that Wild Strawberries can easily be grown from seed; and once you have a batch of plants, all you have to do is to increase the bed with potted runners. In England (and we have seen it here, too) Wild Strawberries are used to edge beds of Herb gardens. The two that we raise, and enjoy the jam thereof, are Bush Alpine Red and Belle de Meaux. The former is best for edging as it isn't a runner. The latter runs all over the place.

SHAKER FURNITURE. To those who collect early American pieces, the simple and forthright furniture made by the Shakers has always been the object of discerning taste. Now for their delight and education and for the enlightening of many others comes a book on the subject—Shaker Furniture, by Edward and Faith Andrews. In addition to an historical introduction, it contains 48 plates showing representative pieces, together with an explanatory study of each. We can recommend this to collectors as a thorough and dependable reference source.

A WHITE SIBERIAN AT HOME, OUR STRAWBERRIES. Of the many Siberian Irises and giving away tons of their increase to neighbors and friends, we just about decided that no more thrills were to be extracted from this race. Then our eyes fell on one called Snowcrest and we are all enthusiastic again. We like the purity of its flowers and their frilly edge and their size and the shape the plant grows. A mixed blooming of Snowcrest and the dark violet Caesar's Brother and the clear blue Gazebo is a garden event not to be lightly passed over.
A party comes to life

When I was invited to go to a party up in Stamford, Connecticut, I immediately bristled with suspicion. "What for?" I said, because I am not one to buy any pig in a poke. "What can you do in Stamford?"

"Well," said my potential host, cautiously, "I thought maybe we could play some games." I couldn't have been more shocked. "You know," he added, "outdoor games." "Yes, I know," I said with a sneer. "Pinball for pinheads."

Because I am one of those people who not only cannot play any game, but moreover always refuse to try. The only sports I really enjoy are swimming, because you can lie on the beach and sleep, and horseback riding, because the horse does the work and all you have to do is sit on him.

But I went to Stamford because I was assured that I wouldn't have to play any games if I didn't want to, and there were a lot of nice people going.

The place was one of those small, remodeled old houses—lovely and restful and full of country charm, with a river right at the back door, where you could dive off a dam and swim around to your heart's content—and adjoining it was a large and elegant estate (to which we all trooped over later in the day) with an enormous swimming pool, tennis courts and beautifully kept grounds. Between these two places, the setting was perfect for us to run the gamut of country life—from the small scale to the large.

At first, we all stood around and admired the scenery, but you can't go on doing that indefinitely, no matter how pretty it is. And right there, I am forced to admit, lies one of the great raisons d'être for outdoor games. We all of us know that there's nothing better for our health and nerves than being in the country, but most of us moderns are so constructed that we simply cannot sit around and do nothing throughout an entire weekend (I am possibly the lone exception). I can easily see that this is where these little outdoor games come in handy. Furthermore, they are an absolute godsend to people who won't try tennis or golf because they feel that unless you are Helen Wills or Glenna Collett, you just look silly.

Of course, if you want to polish yourself up into an expert at badminton, there is no one going to stop you, but, on the other hand, you can have just as much fun and get just as much exercise playing badminton even if your form is atrocious and you can't remember the rules. At least, the people who were playing it at Stamford seemed to. And there is nothing in the world like it for your hips! Even I have to give in and confess that it's ten times easier than rolling around on the floor—and, besides, you look prettier.

There was another game called Miniten which fascinated me beyond words, probably because it is played with thugs. At least that's what it said in the directions on the box it came in. (But then, the directions also said: "The court is laid out...the standard overall measurements being 12 feet by 30 feet"—which seemed awfully big for overalls.)
The two people playing Miniten when I arrived were a very beautiful lady from Cairo, with silver bangles made of Egyptian coins on her wrists, and her handsome young husband. "They don't look like thugs to me," I said, "They look like very nice people." My host gave me a look which would have withered me if I were the sensitive type. "The thugs," he said coldly, "are not the people. They are the racquets with which they play." And so they were. They are made of two rather large wooden disks, stuck together at one end and open at the other, and you stick your hand in between and bat the ball. It's an English game, and I understand it is also played a lot in South Africa and New Zealand. If you keep at it, it makes you extraordinarily agile in no time at all. There were some other people playing paddle tennis—with dazzling cerise balls about the same size as tennis balls—but the thugs seemed the most popular, next to the badminton.

Another new game is a version of jai-alai—called Lawn Hi-Li, in which you catch the ball in one of those lobster-claw straw baskets and sling it back again at your opponent. This has its advantages because
you can either play it in a lackadaisical, catch-as-catch-can fashion, or you can develop a terrific speed and force. It couldn’t be simpler to learn and it’s grand exercise. Also, it makes you feel very Spanish to play it—and you can stamp your foot and cry “Carramba!” when you miss, just the way the Basques do.

For those who still stubbornly insist on a milder form of exercise, there is a set of charming and foolish-looking black and white penguins, which you set up and then roll balls at and knock down again. This is called Penguin Skittles, and is surprisingly entertaining—not to mention giving you that bending and twisting than which there is nothing than whicher for the liver, if I may get personal.

There was also a set of Clown Quoits:—four gaily-painted wooden clowns set on steel coil springs. You are supposed to pitch round rope quoits at them, but the catch is that unless you aim just right, the clowns bounce back and forth on their springs and practically laugh in your face. They quite infuriated one young man who kept doggedly trying to lasso them. “I am going to get one of these little so-and-so’s,” he said grimly, “if it takes me all day.” For a while, it seemed as if night must fall and find him still at it, but all of a sudden he got the knack, and one ring after another settled over the necks of the impudent clowns. “My stars!” said the young man—or words to that effect—“This is fun!” And he began the game all over again.

It is really amazing—at least, it was to me—to find how quickly an entire group of people can break out with a rash of enthusiasm for these games, once they start. At first they may hang back, but once a few of them start the fever runs through the rest like wild-fire. Everyone wanted to try a hand at Miniten or Hi-Li, probably secretly convinced, each one, that he or she could make a better showing at it than the ones before. Even after luncheon, when you would expect anybody in his right mind to sit down quietly and relax for a while, these people were still enflamed with the game mania and, \(Continued \ on \ page \ 76\)
12 PAGES OF MODERN Houses from South, Central and North America selected by the editors of House & Garden to represent the best work of modern architects in the Western Hemisphere. While modern architectural expression is international, the idiom of each particular section shows subtle influences of local culture and tradition. The composite picture of this type of architecture in the Americas is an interesting contrast to similar work being done in Europe.
MODERN IN CONNECTICUT

THE site for the home of Mr. and Mrs. Lincoln Johnson, at Stamford, Conn., was a heavily wooded and rocky knoll, with woods stretching on each side. Into this environment they placed a home in which Modern elements predominate. Exterior ornament is practically eliminated. The flat planes of the walls are relieved by a curved bay. Windows arranged in banks are placed in corners where the design permits. The house is of brick painted dusty pink. Holden, McLaughlin & Associates were the architects. More pictures are on the next two pages.

The view opposite is the garden façade. A retaining wall of fieldstone furnishes the transition between the boulder-strewn knoll and the sophisticated lines of the house. The large bank of windows in the first floor lights the living room; those above belong to one of the bedrooms. The dining room is in the bay, and French doors open on the terrace. Upstairs, opening out of the master’s bedroom, is an awninged porch.

A CORNER of the living room looking toward the hall shows how the lines of the bookshelves have been carried across the door trim to form parallel lines along that side. These bookcases are walnut with mahogany stained shelves. The door is gun-metal lacquer with black and silver decorative rings surrounding the knob. Mrs. Johnson, who, as Virginia Hamill, is a well-known stylist, did the decorations.
The entrance front shows a repetition of the semi-circular bay. At this end the one-story section contains guest rooms. Since the house stands in a forest of vertical tree trunks, it was thought best to give the house many lowering parallel lines: hence the appropriate use of the modern idiom, with pronounced brick band-courses and a flat roof.

In the nursery the scheme is red, white and blue—white walls, blue ceiling, and a dado paper in red and white. On the floor is a deep blue linoleum decorated with small white stars. The furniture is white with red panels. For curtains Mrs. Johnson chose a modern nursery pattern in red, blue and yellow. The room occupies one of the semi-circular bays.

A guest room on the ground floor has white walls, green ceiling and door and black furniture and rug. These three colors are distributed around the room in the furniture and draperies. The bedspreads are green and white, the big chair black and white linen banded in green and the Venetian blinds are white with green tapes. Curtains are gray and white.
In the master bedroom the color scheme is low-toned—soft peach walls, pale beige bedspreads and the furniture an almost white holly wood with silver inlay and ivory handles. From the eggplant-colored rug the color is picked up for the upholstery of the chaise-longue, which is in an eggplant and chartreuse stripe. The whole effect is subdued and harmonious.

Through the banks of windows in the corner, the living room is flooded with morning sun. Beneath these windows the wall is red and the posts also are painted red. Lights, in the modern manner, are concealed above the window cornices. The room has blue and cream walls and the carpet is deep bottle blue with cream inlay. The furniture is a very light walnut.

Here are the color elements of the hall—gray zinitherm floor with inlays of cream, biscuit walls above a black baseboard and red ceiling. The stairs are of aluminum with a black railing. Modern Swedish cast-iron urns hold decorative plants. Mrs. Johnson was the decorator of her own house, and Holden, McLaughlin & Associates, architects, drew the plans.
MODERN
in the ARGENTINE

BUENOS AIRES modern has a Latin charm. A vaulted ceiling, a curved free staircase, stripped of its cluttering detail, learn to speak the new language while still retaining a faint trace of its original Spanish accent. International, however, is its honest acceptance and solution of actual problems—problems not only of designing new houses but of rebuilding old ones. Here are examples of each, planned by Daniel Duggan.

1 Virtuoso treatment of a corner staircase in Mr. Duggan's living room. White rubber curtains and upholstery, cedar furniture and copper metal work provide a background against which the staircase appears to full advantage.

2 Stone color, heightened by geranium pink and slate gray, in the living room of Sr. and Sra. Arturo Santamarina. A scheme like this one, with walls, carpet and ceiling of the same color, is at its best under indirect lighting.

3 The bedroom of Sra. Rodríguez Larreta de Zilberuhler. White furniture was designed to follow the curves of the vaulted ceiling in this old Spanish house. Pearl gray is the only color used, with details of mirror and crystal.

4 Roof studio of Sr. and Sra. de Rosa. The view, most important element, is emphasized by huge windows and concentration on one color—beige—for walls, floor and ceiling. Pale greens, pinks and blues are in the upholstery.

5 Modernized top floor in the house of Sr. and Sra. Torres. Here Mr. Duggan has concentrated on a simple fireplace faced with mirror. The background, in pale sea green, has a single variant—dark green and white cushions.

AUGUST, 1937
HENRY R. LUCE, publisher of *Time*, *Fortune*, and *Life*, and Mrs. Luce, author of the current dramatic success "The Women," acquired an ancient plantation at Moncks Corners, South Carolina, about forty miles from Charleston, and have recently taken the first steps toward developing it for their Winter residence. The main house has not yet been begun, but a colony of guest houses, shown in the photograph of the model below and in actual detail on the next three pages, are completed.

Edward D. Stone, noted New York architect, designed the group for the Luces and at this year's exhibition of the New York Architectural League his design was awarded the medal for domestic architecture. Mr. Stone, in the most recent example of his work, has made a notable contribution to modern architecture by investing his design with those qualities of simple grace and dignity which are properly considered essential in residential architecture, whatever its inspiration.
Medal winner at the N. Y. Architectural League show: four pages which present views of Mr. & Mrs. Henry R. Luce's Winter residence in South Carolina.

The charm of this room, located in one of the smaller guest houses, derives from its unaffected simplicity and comfort, and from the freedom of design which permitted the use of broad areas of glass. The unobstructed view of riverbank and river could not well have been achieved within the limitations of any stylistic architecture. Walls have flowered red, white and blue wall paper and furniture is upholstered in blue linen, piped in red. Venetian blinds are used throughout.
Above. A small pool is the center of interest in this delightfully formal composition which embraces the front elevation of the larger guest house. A formal garden wall constitutes a connecting link between the houses, and gives unity to the general scheme. A bowling green, one end of which is just discernible at the right of this picture, is bordered on two sides by a brick walk joining the cottages, and on a third side by a low serpentine wall. For a more complete picture of this arrangement, see the photograph of the model at the bottom of page 36.

Above. The rear of the large house with a portion of the garden wall, referred to above. At left, a typical plan of the smaller houses, comprising two bedrooms, a bath, and heater room. One bedroom is designed for optional use as a living room.
Above are the first and second floor plans of the largest guest cottage, at present occupied by the owners prior to the construction of the main house. The first floor is so arranged that the space now given to maids' rooms can later be converted into a dining room, adding more space to the living room. The open space in the second floor deck admits sun to a sheltered corner of the porch and provides the present dining room with adequate light. This sensible device overcomes a common drawback to deep porches.

MODERN IN SOUTH CAROLINA

Facing a bluff bordered with live oaks and overlooking a broad river, the terraces, sun-decks, and wide windows make the most of an entrancing vista. Herein lies one of the advantages of modern architecture which permits a given problem to be solved most advantageously and simply.

The room shown above is a typical bedroom-living room in one of the smaller cottages. As shown in the plan on page 38, it may conveniently be used in either capacity. Interiors, throughout, reflect a pleasant conservatism, free of any uncomfortable insistence on "modernistic" effects.
Mexico had a revolution. It concerned presidents and politics and provided a Roman holiday for the press. Of greater significance to Mexicans was its result—a new social consciousness expressed in painting, sculpture and—Mexico Modern. This modern is not a "style". It is rather a new, logical approach to the planning of houses for Mexicans. It is expressed in a calculated simplicity of form, material, to which the lower classes have economically been long accustomed. Making this necessary economy a virtue, it has produced houses like these, to which America may well look for inspiration. A complete book of these buildings, photographed by Esther Born, The New Architecture in Mexico, has just been published in collaboration with The Architectural Record.

Right. The house of Juan José Barragán at Guadalajara, Jalisco, designed and built by Sr. Barragán. Planned for cool living comfort in the warm climate of Guadalajara, this house embodies the expressive simplicity for which Mexico Modern should become well-known. Its adobe construction, reinforced with steel and concrete beams, echoes traditional Mexican building methods.

Right. Mexicans enjoy the sun as much as they avoid it. Seventy-nine percent of the plot of this house is usable for outdoor living. About thirty percent is visible—in the home of José Villagran García in Mexico City, designed and built by the owner. The construction is of reinforced concrete and brick, with interior floors of oak and terraces paved with tile and cement.

New ideas, new houses in a progressive country accustomed to change.
A above. The home of Francisco Martinez Negrete, built by the owner and designed by his brother, Luis Martinez Negrete. Here, again, even a glance at the façade of this Mexican Modern house reveals the character of the interior. Wide blocks of windows indicate the position of the rooms they light, and the whole exterior is an adequate expression of a well-considered plan.

left. Another example of the work of Francisco Martinez Negrete and Luis Martinez Negrete. This is the home of Carlos Palomino in Mexico City. A wealthy man's house, it differs very little in style from other houses in the town. The large walled-in garden and many roof-terraces here again express the Mexican love of outdoor living. The construction is of reinforced concrete.
Invention stretches out a neurotic twentieth-century hand and wipes away many a harassed wrinkle from our brows. When it’s not an entire dinner wrapped in tin, it’s bright and cheering television for the Monday morning business magnate, seated in his sleekly designed automobile, and trying to chew away the effects of a modern week-end on an expensive cigar butt. Every house and home in your America, every flat and apartment, spins out its daily existence to the subdued burr of electrical machinery and the forceful thrust of gentlemen in goggles and white garments. The cleverness of its gentlemen with retorts and test-tubes allows the American home to be wound-up each day around 7 a.m., to run itself, very nearly, until it becomes time to put another can of beans in its place, to wash off the blackboard of accepted platitudes that dear old one about woman’s place being in the home.

The American home has been, in many cases, lifted entirely out of the capable hands of American women. The high-minded advance of what we classify, reverently and with head-wagging and hand-clasps, as Science, will undoubtedly scrub off the blackboard of accepted platitudes and the very latest racket exposure, or "fancy-thrashing" at the newest invention to ease the lot of the housewife, or seeing it in the local newspaper.

Your American plumbing, for instance, has been moulded into a form of plastic art. But we live here, only a few hours from New York by air, with the crude realities of Colonial life and existence sanded down but little from the stone out-house bath of the Nascent "Nineties"; and the ever-rumbling garge of pipe lines but a tottering joint from Heath Robinson’s eccentricities. In this wonderful climate, where skies attain about as blue a blueness as the spectrum will permit, and the sun, sea, and breezes plot fresh theatrical displays for every fortnight of the easy-going year, things like ill-fitted bath rooms and family two-holers that dominate the verdant landscape with their Victorian solidity, don’t grate so very harshly on the nerves. But I think our envy of the well-equipped American home is warmed by proximity and ever-present contrast. We would give up the hand-made-preserve day in the Jamaican kitchen for the uplift of a plug that really fitted a sculptured porcelain bath, or a sewerage system that wasn’t constantly gossiping with the entire neighbourhood.

And then, while I wet-thumbed the advertisement pages of an American magazine and did over my dining room, in imagination, with all the fleshly gruntings and neck-archings of Science the Stallion, I met the Editor of this magazine. He and I looked over several old Jamaican Colonial houses, some of which stood on foundations that had been laid during the Spanish occupation of Jamaica, when Juan Martinez de Arand and Jacinto Sedeno Alboronoz governed a turbulent and harried Seventeenth Century Jamaica. These houses I had seen before. Many times. But with the Editor softly ejaculative at the skill and beauty of those early Jamaican masters of axe, adze, and trowel, they cleared before my vision. My mind drifted from Science the Stallion and his test-tube homes.

After the Spaniards were driven from the island of Jamaica by two doughty Ironsides of Cromwell—Penn and Venables—they left behind them a great many examples of glorious Seventeenth Century Spanish architecture. Under the Commonwealth, (Continued on page 72)
Hyacinths.
Under the tropical South American sun the plodding team of oxen makes slow progress with a precious burden. This great mahogany log, roughly squared in the jungle where it was felled, will travel many thousands of miles, be submitted to careful drying and long aging, before it reaches the hands of the master cabinetmakers. Similarly, from forests in every quarter of the globe come such colorful woods as are shown on the opposite page, to lend unique and lasting beauty to our homes.
1. Prima Vera—With a grain similar to that of mahogany, this Mexican wood is currently much used for blond furniture.

2. Macassar Ebony—An exotic wood used chiefly for its decorative and rich coloring in combination with other woods.

3. Bleached Mahogany—The bleaching process creates new possibilities for this fine traditional cabinet wood.

4. Rosewood—This wood, which comes from Brazil, is often used in matched panels as shown here.

5. Zebrawood—The straight grain is the result of a method of cutting. Other methods yield other figures.

6. African Mahogany—This wood yields wide veneers, eminently suitable for paneling, and quite economical.

7. Mahogany—The “Old World” finish is shown here. Finishes should never be so heavy as to obscure the grain.

8. Walnut—American walnut is the variety chiefly used in furniture. Skilful finishing greatly enhances its beauty.

9. Maple—Another beautifully finished sample of an extremely popular wood much used in contemporary decoration.

10. French Walnut Burl—This beautifully figured wood is found in many examples of fine furniture.

THE CRUDE LOG BECOMES VIBRANT WITH COLOR

AND SUBTLE TEXTURES IN THE FINISHED PANEL

Further information on page 72
COL. R. H. MONTGOMERY'S PRIZE PRIMROSES AT THE 1937 INTERNATIONAL FLOWER SHOW
The genus Primula is a very extensive and fascinating one. It ranges throughout the North Temperate zone, with the majority of the more than 300 species found in Asia, mostly in mountainous regions. A few are grown in greenhouses for winter flowering in cold climates, but most are low, hardy herbaceous perennials. As garden plants some are easy and good natured, but many will tax the ingenuity and patience of the most skilled cultivator to provide proper conditions for their growth.

With the exception of the Polyanthus type, hardy Primroses have received scant attention from the great body of American gardeners. Climate, of course, is an important factor. I recall being chilled on a July day in Edinburgh Botanic Garden, but I shall always remember the extensive and thrifty collection of Primroses there, for which that climate seemed ideal. Advanced gardeners here have made progress along the Primrose trail in spite of climatic handicaps.

With one or two exceptions they are not plants for the ordinary flower border. Too often this has been the standard by which plants have been judged and condemned. Rather they are for the waterside, the bog garden, the woodland walk, the shaded moist corner—and with proper preparation, the north border.

A deeply dug, loamy soil, inclining to heavi-ness, is ideal for the robust kinds. Most are lime lovers, and a liberal dressing of leafmold or old cow-manure dug in for a new planting will set them up in good style. They are most unhappy when fully exposed in poor soils, and here is where red spider loves to find them.

While a moisture holding soil is important, in general a sour and stagnant situation is not to their liking. The ideal place for many is where their roots can reach down to water while the crowns are high and dry. Abundant moisture during summer is essential to a strong growth and future good flowering. With a naturally moist soil they can stand a considerable amount of direct sun, but otherwise early morning or late afternoon sun is sufficient. In any case shade during the hottest time of day is desirable.

Wind-swept positions are decidedly unfavorable, and for winter the slogan should be “keep the crowns dry”. To ensure against rotting of the crowns, remove all dead foliage before winter. Where slugs abound a top-dressing of sharp sand is helpful. A light covering of salt hay or Oak leaves after the ground has frozen affords sufficient covering. It is better in most cases not to cover them at all than to use material that would pack to a sodden mass.

In many cases division of the crown offers an easy method of increase. With strong plants, whether increase is wanted or not, division should take place about every third year. This is best done right after flowering. See that they are not allowed to dry out in summer, and encourage a good growth by carefully placing a mulch of leafmold or real old manure around the plants.

Propagation from seed is in many cases irregular as to time and quantity. With some a good germination may take place in two or three weeks, but often it stretches out over a year or more. There are different ideas as to the best time of sowing. Fresh seeds are preferable, and they are better off in the soil than the seed drawer, so we say that late fall is a good time to sow. I prefer flats to pots, and for quantity, sowing directly in a coldframe bed. A sifted soil mixture of equal parts sweet loam, leafmold, and sharp sand is suitable.

See that good drainage is provided and that the seed bed is always kept moist. It is a good plan to fill the flats and drench with scalding water a day or two in advance of sowing, in order to destroy low forms of life that might be troublesome in case the seeds are slow to germinate.

A coldframe is a good storage place over winter, with a thin covering of salt hay over the flats. If removed to a greenhouse in February or March germination and growth will be hastened. Seedlings require shade from bright sun, but need plenty of air. Do not let them become drawn and transplant into other flats as soon as large enough to handle, using the same soil mixture, unsifted. Later on, the ideal method is to plant them out in frames provided with a lath shade. Losses are likely if small plants are set out in their permanent quarters.

To many, the Primrose is the so-called English Primrose, Primula vulgaris or acaulis. It is especially dear to those who have seen it in the wild. The flowers are borne singly on the stems, and in the type are pale yellow and delightfully fragrant. There are good strains of singles in pink, purple, and blue; and double forms in white, lavender and rose. The doubles are less robust and do best in gritty soil with humus, and a protected place in the rock garden. Singles do well in a shady border and a strong soil. (Continued on page 79)
For Summer appetites improved by early tennis or swimming, breakfast outdoors in a setting like this one becomes something in the nature of a historical event. Try it, with ice-cold fruit and the hottest of coffee and light muffins, and remember it long after green lawns and Summer breezes have given way to the freezing gales and snowdrifts of Winter.

The stitched umbrella is something more than a decoration. Under its protection butter will stay crisp, and fruit properly cool. The chairs are a rustic woven design in natural rattan web; they and the umbrella come from Abercrombie & Fitch. The green and gold cloth, with its hole in the center for the umbrella stick, was designed by Dinkelspiel for R. H. Macy & Co.
BREAKFAST ON THE GREEN

Summer setting in green, gold and cream to give an outdoor breakfast its due importance

The goblets on the breakfast table opposite are of a somewhat heavy, simple design well suited to an outdoor background; their only ornament is the irregular ring pattern on stem and bowl. Even simpler are the glass plates and fruit containers shown with them. All Cambridge glass from B. Altman.

The silver is one of the loveliest of contemporary plated-ware designs. It is called "Longchamps", with a long and gracefully shaped shaft ending in the most restrained of small ornaments. This pattern is one of the "Heirloom Group", a series of beautiful silver designs made by Oneida, Ltd.

The china used is Spode Earthenware in a design called "Rosesbrier". The ground color is a soft cream, with a natural wreath of gay-colored Roses and leaves. A charming pattern for a country house, it is made by Copeland & Thompson and may be seen at Wm. H. Plummer & Co.
ONE of House & Garden's services is to show how the tides of taste are flowing. Each Spring and Autumn its editors, studying the newest products of the manufacturers and basing their appraisal on a knowledge of products that went before, have been successfully prophesying the future in furniture and decoration. Only a trained observer can mark, from a slight deviation, the beginning of a fresh interest. Last Fall, for instance, House & Garden prophesied a coming interest in Southern Colonial furnishings. Today these are in the full stride of popularity.

Victorian. Another prophecy House & Garden made was that interest in Victorian furnishings was growing. This has been found amply proven in the decoration of some of the rooms at House & Garden's Ideal House. Could there be any connection between England's choice of a Victorian King and this tendency toward Victorian rooms?

Style trends. It was to be expected, after so long a reign of 18th Century taste—extending now over many years, that decorators and designers would seek fresher fields. Of course there was always Modern as a line of least resistance; then there were earlier styles that might be studied and made contemporary. There is every evidence that attention is now being directed to Queen Anne and William and Mary. French Provincial is gaining in favor. The designs of William Kent are enjoying a revival. Here and there one sees a bit of Adam.

Woods. For some time blond woods have maintained their vogue. This is gradually settling down now to inexpensive furniture. Also antique maple continues in favor for the best pieces. The newest tendency is bleached walnut, which appears like the old fruit woods one finds used in Continental furniture. Both blond walnut and maple appear in French Provincial.

Pine and marquetry. The appearance of pine in designs after William Kent, the 18th Century English architect, is a significant note. We also observe, as we have before, that marquetry is coming into favor. This will always be furniture for connoisseurs, but, thank Heaven, enough people of taste remain to appreciate its beauty and to understand the superb craftsmanship that it demands.

Overstuffed pieces. Among the vagaries of Continental Modernists was to make all their overstuffed furniture obese. Happily this style did not transplant well in the United States. Today overstuffed pieces are better in scale than ever. There are some excellent occasional chairs and in the 18th Century types there is discernible a marked refinement.

Modern. Like any new style, Modern had to go through its growing pains. These, we hope, are about ended, for there is every indication that the contemporary style has entered on its adolescence. Instead of the extreme designs one used to see, it is now difficult, in some cases, to say whether a piece is Modern or 18th Century. Adolescence has (Continued on page 73)
AN UNUSUALLY keen sense of the respective values of water, stone and flowers in a composition is evidenced by Mr. and Mrs. Winthrop C. Bradley's slate-paved terrace at Noroton, Conn. It is coolly colorful, too, with its yellow, scarlet and white Tulips, yellow and white umbrella, white furniture upholstered in yellow, and white accessories. The contours of the terrace itself echo with perfect appropriateness the curving lines and occasional small promontories of the shores beyond. Isabel Peirce, decorator.
Much of the regal yet human quality so evident in Helen Hayes' famous *Victoria Regina* invests her garden above the Hudson River. With its spacious terraces and formal Tulip beds, broad bricked steps and the gentle, graduated descent to the far view across the water, it echoes the spirit of that substantial era in which her play is set. And yet it is all perfectly adapted to the needs and amenities of modern country living.

There is, for example, the swimming pool shown in detail at the bottom of this page, with its bathhouse and furnished terrace—essentially a feature of this day and age. And for the sake of contrast, the wall fountain at the left, by Henry Varnum Poor. Mary Deputy Lamson was the landscape architect.
Above. Two impressions of the terraces—the first, as they appear from the top of the slope; and the second, a transverse view from left to right. Complete simplicity and perfect balance mark the whole design.

Left. One of the especially original touches is the little garden tool house with its wood carvings by Paul Rudin. At the foot of the slope, it looks out across the broad, peaceful reaches of the river.
HAVE you ever noticed that the wonderfully gourmet French are never at a loss to know what to eat? Menu planning to them seems to be as easy as it is tiresome to most of us. You never hear them say— "What shall we eat?" They always know precisely what they want to eat. Personally, I think it's because they have an ever-present bon appétit. If your bon appétit is on the wane, perhaps a few new recipes to try will revive it. I, for one, find cooking and eating more fun if I have something new to cook and eat. I hope the following recipes will make you ravenous!

MILK TOAST WITH GRATED PARMESAN CHEESE. Try this instead of soup some night. Cut French rolls in half-inch slices and toast them to a light golden brown. In the meantime heat to scalding point a quart of milk and half a pint of cream. Put a layer of the toast in a hot soup tureen, dot well with butter, sprinkle with salt and freshly ground pepper and several spoons of freshly grated Parmesan cheese. Add another layer of toast, repeat the process, and just before serving pour over all the scalded milk. Serve at once, accompanied by more grated Parmesan cheese.

CREAM OF TURTLE SOUP FOR SIX PEOPLE. This is a rich relative of Bouila and is really wonderful. Shell 3 quarts of peas. Cook them until tender, drain and put through a fine sieve. In the meantime heat the contents of 1 large can or jar of turtle soup in a double boiler. Remove the turtle meat and cut it in small pieces. Place in soup plates and keep warm. Add the peas to the turtle soup and add 2 cups of cream. Now in an enamel pan put ½ lb. of butter, melt it, and add 2 level tablespoons of flour. Cook together a minute or two, then add 1 cup of the soup. Stir until smooth, then add the rest of the soup. Add ½ cup of grated Parmesan cheese; stir continuously. Season, and add ½ cup of sherry. Pour over the meat and serve at once.

ROMAINE SALAD, WITH CHOPPED WATERCRESS, FOR SIX. Wash carefully two heads of fresh romaine. Cut or break into small pieces. Shake dry, and place in wet cloth in refrigerator until crisp. In the meantime make a good French dressing and put it in the refrigerator to chill. Also put the salad bowl and the salad plates to chill. Wash and remove the big stems from one bunch of watercress. Shake dry and chop the cress until as fine as chopped parsley. When ready to serve the salad, put the romaine in the cold bowl and pour over it the dressing. Then sprinkle the whole with all of the chopped watercress. Send to the table, to be tossed before serving.

BAKED BONED SHAD—STUFFED WITH SHAD ROE. This I assure you is an experience. Ask the fish man to split and bone a shad for you. Make a stuffing by scalding a pair of roes—then split them and scrape out all the roe. Add 1 tablespoon of chopped parsley, a little grated onion, salt and pepper, butter the size of a walnut and a very little soft bread crumbs. Stuff the shad and tie it up. Put it in a shallow baking pan with about 2 cups of cold water and sprinkle the fish with flour. Dot well with butter and bake in a slow oven, basting frequently, for about an hour and a half. (Continued on page 76)
Hobe Erwin, New York designer whose office-workshop is pictured here, is not one to treat an unconventional room in a conventional manner. A designer’s two uncompromising necessities—good working light and plenty of room for reference data—have been made important decorative additions: one wall is entirely of glass, the light tempered by split bamboo shades; and a second is of cupboards, with doors of lacquered Chinese paneling. The third wall is pink, with appliquéd ornament in the manner of the Austrian Baroque, and the fourth is plain blue. Table tops are brown lacquer, and the floor is brown linoleum.
LEFT. A modern room in the English manner. Colors are soft, eliminating complex values and combinations, and the scheme evolves around the quiet tones of the unusual modern rug. Beige quilted satin covers the chairs. Window hangings are of plain satin.

COLOR PREVIEW

LEFT. Needlepoint reappears in a modern interpretation of an old design and inspires the color scheme of this Regency room. The interesting green material is Coptic cloth, a spun rayon fabric made in a basket weave. The stripe is a combination rayon and cotton moire.
RIGHT. Quilting takes to the floor, and makes an unusual setting for the French Provincial furniture in this charming bedroom. Rug and furniture carry out the same lines. Plain off-white satin on the chaise longue, and the printed satin on bed and chair, complete the scheme.

These four rooms show new Fall color schemes worked around a group of ready made rugs and harmonizing fabrics.

RIGHT. In this French living room, the "Wood Panel" rug gets its inspiration from a fragment of old wood paneling in the Metropolitan Museum. Two Coptic cloth materials repeat its colorings. Decoration, materials, and Fieldcrest rugs are by Marshall Field & Co.
A stitch in time on these gay pieces will add color accent to your room

Needlepoint has again come into its own. A few centuries ago, this handicraft was the delight of queens and their court ladies in decorating famous castles. Today, the revived elegance of the mode in home decoration has brought needlepoint back to the prominent place it deserves. Many things can be made which have actual heirloom value: lovely chair seats or covers for benches; bright sofa pillows and handsome rugs. A representative group of needlework is illustrated on these pages. For further information, turn to page 72.

FINISHED PIECES—OPPOSITE PAGE

1. A floral group in petit point and gros point of "Hiawatha Wool" is suitable for a bench cover
2. Calla Lilies on a Chinese yellow field form part of a sectional rug, ideal for many decorative uses
3. The Modern rug comes with smart monogram already worked. Background to be embroidered
4. Replicas of luscious fruit and one gay, colorful butterfly top the serving tray or coffee table
5. An Italian stitch called "Bargello" assumes a shaded ombre effect with lightning zig-zag lines
6. Another stitch of the elaborate "Bargello" series, interesting for three contrasting color tones
7. Antique patterns combine with Italian designs on this piece illustrating four crewel wool stitches

STAMPED DESIGNS—THIS PAGE

8. The popular Audubon print, "Ruddy Duck," is adapted as a seat covering for a Hepplewhite chair
9. A scene from Godsey's Fashion Book, done in petit point, serves as a dainty little sofa pillow
10. Sectional rug in gros point boasts a flower motif. Background and borders may be any color
11. To enhance a Victorian chair, try this rich cluster of fruit developed in intricate gros point
12. For a Modern chair seat, a cubist horse design, executed in somber hues of "Hiawatha Wool"
13. Yarn portraits of your favorite canine pet are repeated in the sections of this fireside rug
EVERY country, often every locality, has its own popular or folk names for its plants. Thus the necessity for knowing the botanical names is plain.

The pretty blue flower we most commonly know as Cornflower goes also by the names of Bachelor's Buttons, Buttonhole-flower, Blue-bottle, Blue-caps, Break-your-spectacles, etc. But always in every language it is Centaurea cyanus, though of course the folk who will have no truck with botanical names may not know it. And this is just too bad for them when they send an order for, say, Bachelor's Buttons, for they may very well receive any one of seventeen or more wholly dissimilar plants, including the little double Buttercup, Ranunculus acris f. pl., or the English Daisy, Bellis perennis. Even if we ask for Cornflower we need not be too surprised when there arrives instead the wild red Poppy, the unquillious Arncockle, the Field Scabious or the Greater Knapweed, Centaurea scabiosa.

But not to know the folk names, the pet names, of plants is to refuse to know them intimately, to build up a certain reserve between them and ourselves. The study of the common names of plants is always interesting and frequently instructive. They were frequently bestowed because of some supposed likeness of some part of the plant to something familiar to the christener, sometimes a purely imaginary likeness: again the use made of the plant—flower, leaf, root, fruit, even its odor, or its habitat—determined its common name. And it might surprise you to know, if you have not looked into the subject, how many books have been devoted to the common or vernacular names of plants. Here in my own by no means complete library a glance at the shelves reveals eleven, not to mention a great number of articles that have been cut from periodicals and filed away, all these concerned with English plant names.

The origin of many of the names is so obscure as to open up a wide field of conjecture to the student. Many curious and ancient ones have been run to earth down the long lane of the ages and found to be associated with some article or usage long obsolete. Some still remain a mystery to the most eager of plant-name sleuths. In the preface to his English Plant Names from the Tenth to the Fifteenth Century the Rev. John Earl says:

"The fascination of plant-names has its foundation in two instincts, love of Nature and curiosity about language. Plant-names are often of highest antiquity, and more or less common to the whole stream of related nations. Could we penetrate to the original suggestive idea that called forth the name, it would bring valuable information about the first openings of the human mind towards Nature; and the merest dream of such a discovery invests with a strange charm the words that could tell, if we could understand, so much of the forgotten infancy of the human race."

The old names patently grew out of intimate association with the plants in question and were often the expression of affection or admiration; occasionally they were terms of opprobrium. Such as Stink Lily or Skunk Bush are not to be understood as complimentary. One takes it that these names were a spontaneous growth taking root slowly in the minds of simple folk, tried and tried again over a long period and not found wanting, until they became an integral part of the language of a community, and spreading thence, as the circles from a stone dropped in the water, often to far distant regions.

The point is that they were spontaneous. And this may explain why the arbitrary bestowers of plant names have been so signal unhappy and unsuccessful in their choices. It is (Continued on page 78)
Why some flowers which are not true lilies have been given that name.
Summer fancies that are cool but colorful. Here are a group of arrangements destined to inspire you with enough creative ability to make a striking feature of the dullest of backgrounds. So look to these. Be original. Proceed!

Above. A commonplace door highlighted by a new treatment. Covered with white imitation leather, lightly padded, it is decorated with brass nail-heads. A molding above the door frame conceals lights. Forrest Knowles, designer.

Above. Pierre Dutel keeps floors cool in the Summertime by painting gay rugs on them. This plume design is carried out in several different shades of soft green.

Left. The mirrored wall hides a steel girder and transforms a dingy room into an attractive foyer. Center recess holds metal plant container. Empire Exchange, decorators.
Above. Reversing the usual order—overhangings of white Celanese taffeta have binding and undercurtains of blue faille. Chair in brown and blue.

Above. Summer idea for a fireplace. Fill opening with photomural on compo-board. Murals can be finished in gray or sepia, or soft-colored tints. Leize Rose.

Below. Inlaid linoleum lines this tub recess. White and yellow fish disport on a blue ground. Bubbles are chromium-plated nailheads. Designed by Congoleum-Nairn.

Above. Equip modern plaster or wood mantel with zinc-lined well to hold removable flower container. Designed by the Interior Decoration Bureau of Congoleum-Nairn.
Right. A fireplace view of the living room. A group of old Chinese figurines decorates the white marble mantel. On the green wall is an old portrait. Satin curtains and chair covers repeat the chartreuse of the olive green and chartreuse rug. A satinwood screen table and a 19th Century satinwood tier table are beside the chairs.

Below. Worked around a beige background, the attractive library, though small, imparts an air of light and comfort. Pickled pine walls and a shaggy beige carpet serve as a background for water colors by James Reynolds and the hand-blocked linen curtains. A pigskin finish leather covers the furniture, while accessories are brass.

Above. In the master bedroom, the colonial bed styled in a modern manner. Posts and frame are upholstered in white raw silk and the covering is of chartreuse yellow taffeta that matches the walls of the room. Rug is matching yellow. Heavy lamps of a copper gold color stand on the large bedside tables.
HOUSE & GARDEN's Ideal House for 1937 is now a definite actuality. Designed by Julius Gregory and furnished and decorated throughout by R. H. Macy & Co., it was opened to the public on June 26th and will remain on view all Summer. Planned along Regency lines, yet not too slavishly adhering to that precedent, it reflects the needs and amenities of modern living in their best sense. The actual construction was in the hands of McSweeney & McKean and H. J. Marquardt was the landscape architect.

On these pages we present photographs showing several of the more important rooms, together with one of a small-scale model of the actual house. Additional views will appear in subsequent issues of the magazine.

Glimpses inside of House & Garden's 1937 house, situated at Fox Meadow, Scarsdale, N. Y.

and open to visitors throughout the Summer

A novel view of the living room. Here you see the deep olive green sofa covered with taffeta pillows of pale pink and green. At either end stand two Regency side chairs upholstered in an antiqued satin stripe in pink and green. Between them is an old Chinese coffee table. At the farther end of the room a curved bay accommodates a backgammon group composed of two specially designed chairs tufted in deep green velvet, and a large backgammon table. Throughout the room are accents of pink.

Above, a glance into the dining room reveals the fireplace wall painted a deep mustard. The other walls, above the dado, are covered in mohair fabric with mustard colored leaf design. The Regency chairs have white leather seats tooled in yellow, echoed by the center chandelier of wood and metal. The Indian rug is white and yellow.
ROOTS while you wait

By F. F. Rockwell

Delectable Alice, adventuring in Wonderland, follows the conversational caterpillar’s instructions and, as a result of nibbling the mushroom, finds herself growing rapidly. The reader smiles in admiration of Mr. Carroll’s agile imagination.

If, however, the world’s first (and probably only) humorous mathematician had provided his adorable pinatafored heroine with a jar of salve which, when rubbed on the mushroom, made it sprout roots on the top, then most of us would have felt that the author was stretching even the most elastic fancy beyond the breaking point.

All of which only goes to illustrate the often asserted fact that truth is stranger than fiction. No one has as yet succeeded in growing roots on the bald head of a mushroom. But recently they have been made to sprout, at the plant scientist’s magic touch, on the stems, on the petioles and on the leaves of plants; and even at the very tip of a severed plant—something never accomplished before, either by man or nature.

This sudden opening of new gates into the mysterious realm of plant physiology naturally brings with it a flood of questions. But the one on the lips of the hard-boiled amateur gardener (who in these days has to get that way as a matter of self-preservation) is:

“Well, is this just another game of scientist’s hide-and-seek? Or is it going to be of some practical value to me in my own work?”

Up to even a few months ago the answer would have been, at best, a qualified “Perhaps.” Today it is an unequivocal “Yes.”

It is as yet too early to prophesy with accuracy just what the new root-growth discoveries are going to mean to the average amateur gardener. But sufficient progress has been made, especially during the last half year or so—the whole project is still in its infancy—to present a fairly definite picture of some of the practical results that may be expected. A few of them, indeed, are already here.

Some amateurs have already tried out these new root-growing substances with satisfactory results; others, encountering failure, have become skeptical. The chief reasons for this discrepancy in results are, first, that no uniform product, put out by a thoroughly competent organization has, until just recently, been available. And secondly, that the technique of application is only now being fully worked out.

The first difficulty has now been overcome. A reliable preparation, approved by the Boyce Thompson Institute, and manufactured under license, has just been placed on the market. Complete directions for its use, prepared by the Boyce Thompson experts, and kept up-to-date as new information becomes available, will help in acquiring results. And experiments, still being carried on, are constantly adding to the list of plants that may be treated with definite assurance of success. One of the most encouraging things in connection with the whole matter is that both the materials employed, and the methods of applying them, will be much simpler than at first appeared probable. Thus they will be available for use by any amateur as well as by the commercial nurseryman or florist.

But before the lay gardener can get any adequate picture of what these new root-growth substances will mean to horticulture, and especially to his own garden, it is necessary for him to know something of their character, and of the history and background of their development.

First of all—just to avoid possible confusion—let it be stated that these (Continued on page 80)
The weather may be hot, but the coffee must be too! Here is the Coffee Robot, a mechanical chef that not only makes the coffee but also keeps it hot and fresh. Keep the plug connected, and, from time to time, a shot of electric current will go through, costing little, yet keeping the coffee at an even temperature for as long a period as is desired.

Electrical cooking keeps the kitchen cool. The new "Normandie" electric percolator helps you prepare coffee with very little effort, and lends distinction to your table because of its smooth, shapeless lines. One of its interesting features is a dripless spout, eliminating the troublesome possibility of stained table linens or untidy spotted saucers.

Hot bread adds a fillip to cold suppers and the Serving Oven is the shortest distance between two points—stove and table. It gives rolls an oven-fresh flavor, crisps crackers, restores yesterday's bread. Heat food in it on top of the stove; then bring it directly to the table for serving. It is of brushed aluminum, with burn-proof black handles.

To lighten the task of keeping Summer clothes ever neat, try the new Blue Streak electric iron. It heats instantly and evenly, is light to use. The cork handle is cool, the blue plastic trimming is decorative. Note the dial which provides correct safe heat automatically—simply set it at the name of the desired fabric. The attached cord is convenient.

Even the finest housekeeper can't keep dust from coming in through open windows and settling on kitchen shelves. These new covers solve that problem. Of heavy laminated Cellophane, with colored binding tape, they fit over many standard appliances. There are also various sizes to fit over stacks of plates to keep them dustless.

Summer has a way of making strong foods stronger and fragile foods even more perishable. Protect the weak from the strong and the strong from themselves by zipping them into Pliofilm bags before putting them into the refrigerator. These transparent, odorless containers also help to keep food fresh.

SIMPLIFYING

Summer

WITH NEW CONVENIENCES
In the old days, when coaches rolled down the roads of Ireland, the Earl of Clanmarty was distressed at the paucity and poverty of the post houses. So he had his own erected with a delightful Palladian portico. The arch to the left leads to the stables.

Near Waterford is this little country house. In design it's a mere box with indented porticos and a forest of red chimney pots sprouting on the roof. But the hand of the gardener has given it great charm by training pink climbing Roses over the first-story wall.

LITTLE HUNTING ESTATES THAT PROVIDE INSPIRATION FOR COUNTRY HOUSES HERE
Small hunting estates, such as these four drawn by James Reynolds, are among the alluring features of the Irish countryside. Here the Irish gentleman lived, in close proximity to his horses—for who ever heard of an Irishman who wasn’t close to a horse? Many of them are in the Regency style—some with only a minimum of decoration, others quite elaborate. Both their design and their setting offer tempting ideas to those who contemplate building. And if the owner be interested in horses, what more suitable than a little Irish country house?

The charm of this little house in Waterford lies in its decoration and setting. Black Yew hedges each side, with white entrances, help support the mass of the lime. A semi-circular porch with a wrought-iron railing, and a draped urn are fantastic Irish touches.

“Arrow Hill”, Clonmel, is a dignified house, classical in all its lines. The broken pediment of the roof finds support in four pilasters. This same pediment, a favorite device with architects of the period, is over the door. Keystones punctuate the front façade,
The Gardener's Calendar

FLOWERS with tall stalks, like Lilies and Dahlias, should be kept staked and tied as protection against wind breakage. Be sure to use stakes which are amply strong, and set them firmly. The flowering season of many annuals can be greatly prolonged by removing all blossoms as soon as they wither. If seed is allowed to ripen, the plant's activity slows down. There is still time to sow perennial seeds in a protected, partially shaded frame. Do not set out the resultant young plants, however, until next Spring, lest they be Winter-injured. This is a good time to lift and divide Iris, or set out entirely new plants. They will be forming fresh roots and so will quickly become re-established.

HOUSE & GARDEN

HRUBS of the broadleaf evergreen types, like Rhododendrons, Leucothoe and Kalina, can be transplanted to suitable locations in late August. Keep them regularly watered until the ground freezes. It is a good idea to check over shrub plantings that have been in for several years, to make sure they are not overcrowded. If they are, plan to rearrange them this Fall, rather than let them be further harmed.

Shrubs that flower in early Spring are now getting ready to form their flower buds for next year. So whatever you do, don't prune them again, and don't interfere with their normal condition, while they're about this important business. Summer flowering shrubs, on the other hand, are pruned in late Winter or very early Spring.

TREES that have been planted during the past year should be kept deeply watered, either by rain or artificially. If the latter is needed, try running the hose slowly, without a spray nozzle, for a half-hour or so. Most evergreens, if not too large, can be moved at this season if you do it right. They should be well soaked the day before and transported with as much root soil as possible. It is not advisable to feed trees now, lest the extra stimulation force a lot of late growth which will not harden off before Winter.

Toward the end of the month it will be safe to do a moderate amount of pruning on deciduous trees. While their leaves are still present it is easy to decide just how much shaping up is needed. All major pruning operations, though, should be postponed until Fall or Winter.

GENERAL gardening activities in mid-Summer include spraying, watering and, of course, unremitting warfare against weeds with good cultivating tools... In order to grow things right, soil should be in good condition both chemically and physically. The latter means that it is reasonably light and loose, retentive of moisture, yet not dank and sour. If it contains either too much sand or clay, dig in peatmoss... If you have a low, wet corner somewhere on the grounds, try making it into a bog garden by the addition of sphagnum moss worked into the muck, and maybe some extra watering.

Toward the end of this month you can begin work on the house plants which have been having a Summer vacation in the garden. Repot them in fresh soil and water them regularly.

SEE in the paper where one o' these here telyscope fellers hes found a big storm or somethin' rarin' around on Mars, an' a hull passel o' new sunspots. Seems he ain't sure hiffself whether the spots is freckles or earthquakes or whackin' big brush fires, an' he's purty cagey 'bout allowin' that the storm ain't just a cloud o' smoke. But cross-his-heart, hope-he-may-die, whatever they things be they're a-goin' to make it rain plenty here on earth!

"Wal, I dunno! 'Course, I ain't hed no college learnin', an' I never seed a telyscope in m'life only the one ye look at Bald Mountain through for a nickel at the County Fair. Mebbe I hedn't ought to git into no argyment 'bout science with a feller who don't know the diff'rence b'ween a thunderstorm an' a freckle. But when it comes to forecastin' the weather, I don't take a back seat to nobuddy. I've been a-watchin' it for nigh onto eighty year, man an' boy, an' I tell ye right now that when it wants to be dry it's dry, an' when it wants to rain it rains. Thet's all there is to it, an' all the sun-spots an' star storms in the world ain't a-goin' to make it no different!"

—OLD DOC LEMMON
VERSATILE SOUP is Campbell's Consommé... answerable to the whims of mood and weather... doubly welcome in summer when cooling foods are so beguiling, yet chill days are apt to intervene.

Whether the mercury leaps or dips, here's a never failing temptation to the taste. Even on the most trying torrid days when appetite-coaxing seems almost hopeless, spoons eagerly seek this soup served as a frosty, sparkling jelly, with its richly enticing beef flavor... Four hours chilling in the refrigerator congeals it in the can, whence it comes to table a calming, soothing contentment.

And for a tingling hot bracer that goes right to the spot on cooler days, treat yourself to Campbell's Consommé, right off the range. It's the same soup which at other times you enjoy jellied—only now its limpid, liquid amber comes to you as a warming, jovial stimulation. A broth of choice beef simmered slowly, clarified to crystal purity... ever so delicately flavored with vegetables. The skilled French chef—the Campbell chef—at his brilliant best!
"Yes sir! AUTOMATIC HEAT is the best investment we ever made!"

"Remember how we used to fuss with the old heater? How we used to dread the approach of winter. And never a winter went by but what it went out on us a couple of times. Like the cold night we had the party —"

"Yes—Wasn’t That Awful! But that wasn’t all. Don’t forget what a nuisance it was in the early spring. If a warm spell came on, and we let the furnace go out, sure enough the next day would be cold, and we’d go around shivering. Those were the bad old days!"

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Built in types to work with any oil or gas burner made, or with any of the fine automatic stokers now on the market.

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Wood, Pages 44 and 45
1. 2. 4. 5. 6 and 10; Ichabod T. Williams.
3: The Mahogany Association, Inc.
7. 8: Karl Schmied.
9: The Conant-Ball Company.

Needlepoint, Pages 58 and 59
1. Bench cover from Dritz-Traum Co.: John Wana-maker.
2. Rug from Lucie Newman Inc.
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5. “Bargello” stitch from Emilie Bernat & Sons Co.: Bloomingdale.
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8. Audubon chair seat from Lucie Newman Inc.
9. Godey pillow from Alice Maynard.
11. Chair seat from Sara Hadley.

Simplifying Summer with New Conveniences, Page 67
1. Sunbeam Mixmaster from John Wanamaker.
2. West Bend Serving Oven from Hammacher. Schlemmer.
3. Economy Cellophane Covers from John Wanamaker.
4. Universal "Normandie" percolator from Lewis & Conger.
5. Farber Coffee Robet from R. H. Macy & Co.
7. Pliofilm zipper bags from Bloomingdale’s.

ROMANCE IN MAHOGANY

PORTION OF THE CONTINENT was not by any means stirring the artistic world with the beauty of her buildings, and stern lines with prison-wall effects were as much encouraged as the stripping of all the glory and welfer of gold-lea, gilding and stained-glass port-holes from the picturesque vessels of that tight-lipped period.

But the Cromwellians in Jamaica found that the art of the Don was useful as well as ornamental. I think that is why we get much of the influence of Spain flickering yet in old Jamaican houses, Sevilla Nueva and St. Jago de la Vega—two cities founded by the Spaniards in Jamaica (much of the second remains yet with us)—hori within their battlements and walls resi- dences of cut-stone, quarried in the island, whose patios, inner courts, cooling shutter windows, and cleverly hung balconies contrived to baffle the heat of the tropics and snare the puffing little Caribbean breezes. The Spaniards cut the drip-edges on the stone faces of their houses, in order to throw away the rain from them. Scheming to fight the diseases water-born by these very rains, their method of guttering consisted in sinking stone troughs round the house, where the spouting roofs would pitch their waters, High, dark-panelled rooms, built to trap some portion of our cooling north winds, were often entirely riddled on one side with jaunty windows of green and blue malac or powerful bullet-tree wood, and when Francisco de Garay imported slaves into Jamaica in 1517, the size and grandeur of these Spanish homes kept upward, as labour became much more abundant. A persistent Jamaican rumour credits Diego Columbus (son of the discoverer of America and Jamaica) with a great fortified house, even of four stories high, with one great room as never contemplated before in the island; draped in cloth of gold on which birds were worked in threads of blue and black, and whose cupola, dark blue as the heavens and flecked with gold stars, was the wonder of all who gazed upon it." This was at Sevilla Nueva, near our present St. Ann's Bay, from which the Spaniards fled (Continued on page 74)
Living room and Lawn become one as

GLASS PIONEERS A NEW AGE IN ARCHITECTURE

"House of Innovations"—the Ladies' Home Journal calls it, and architectural skill has made it just that. This house of tomorrow, recently exhibited at Madison Square Garden utilizes the peculiar virtues of glass to make lawn and living room one and the same—a press of the button and wind and storm are thwarted as curved glass window walls rise in position. In fair weather, the whole garden becomes part of the living room, thus, if the ideal is the home without walls—certainly the next best is the home that has walls of glass. And speaking of glass walls, you'll find them as sliding partitions inside the house as well as out—dividing and giving double purpose to the bedroom, making it more livable and useful.

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In the modern home of today—and tomorrow, glass bears unusual importance to the whole. As this importance increases, the question of quality becomes paramount. That is why so many architects and decorators prefer to specify L.O.F. Libbey-Owens-Ford Glass Company, Toledo, O.

AS HOMEY AS FRENCH PROVINCIAL . . . AS
UP-TO-THE-MINUTE IN CONSTRUCTION AS THE 1938 CARS

The concrete residence of Earl Katzenstein, Chappaqua, New York.

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records "finding their armour, their daggers, and their fine speech as sought before a most terrible visitation of innumerable acts!"

With your Editor I gaped, fascinated, at the staircases of the late Seventeenth and early Eighteenth Centuries. To me, before this, a staircase was merely a means of elevating my body from the door of a Jamaican residence’s lower regions to the comparative coolness of the upper rooms. The error of my vision and of my material view-point have been brought home to me. Leaving Montego Bay one February afternoon, Mr. Richardson Wright and I went exploring and poking into past centuries and times. Montego Bay, the Manteca of the Spaniards and the mecca of cold-fleeing European and American tourists, carries much of old Jamaica in and around it.

But you must know where to look for it. A house, started when Gil Gonzales de Avila was Acting Governor of Jamaica in 1553, has been known to nestle charmingly beside a smart little "hatch shoppe"; and "Grove Place"—a lovely old mansion where Horatio Nelson made the slaves climb a lime tree to peer into the hall room, so briskly was his dancing—ijs cheek by jowl with a modern hotel—rum-puncher, hot-water system (which works?), V-spring mattresses and all. We looked for staircases, and we found them. Have you ever been late for a dinner party, midly, or come down to join a waiting theatre group, numbered among whom are two or three of your ardent admirers, and found them restless under the privileged pause necessary for the completion of every feminine toilet? I’ll bet you have! And how did you arrive? Once more I’ll bet you came among them with the whirring of carefully muffled machinery; with the scolding, soft crash of elevator doors. Probably they didn’t even turn round very much from the bar? If they did, it was only to wave, one hand, shout mockingly of second acts nearly concluded, and then back they went to their drinks!

THE STAIRCASE IS SET

But as we gazed on deliciously curved and carved monsters in polished mahogany; poems of that age hewed from Jamaican timber by men in whose hands the chisel learnt to caress the hard wood into submission, and the gouge to lift its beauty up to view, we pondered on the entrances my lady of the Eighteenth Century could make; and, in respectful awe, we bowed to one another, removing our sun-hats. From the capsule top landing, most of these old Jamaican staircases, of highly-polished mahogany, drift majestically down, with broad and placed pride to the centre landing, where they wheeled with the four-foot-thick stone walls, and sank to the ground floor, theatrically opening their solid, frisky was his dancing is cheek by jowl with a modern hotel—rum-puncher, hot-water system (which works?), V-spring mattresses and all. We looked for staircases, and we found them. Have you ever been late for a dinner party, midly, or come down to join a waiting theatre group, numbered among whom are two or three of your ardent admirers, and found them restless under the privileged pause necessary for the completion of every feminine toilet? I’ll bet you have! And how did you arrive? Once more I’ll bet you came among them with the whirring of carefully muffled machinery; with the scolding, soft crash of elevator doors. Probably they didn’t even turn round very much from the bar? If they did, it was only to wave, one hand, shout mockingly of second acts nearly concluded, and then back they went to their drinks!

THE STACK IS SET

For Shakespeare places this very world upon the floor-boards of a gigantic stage—they have their exits and their entrances". And what a difference to life do those very gestures, made before the cleverly positioned high lights, make to the enjoyment of life! This is a stark world, shorn of actors and actresses; a world devoid of pretty hand-movements and downward, sidelong glances; a world where reality and life do those very gestures, made before the cleverly positioned high lights, make to the enjoyment of life! This is a stark world, shorn of actors and actresses; a world devoid of pretty hand-movements and downward, sidelong glances; a world where reality and life do those very gestures, made before the cleverly positioned high lights, make to the enjoyment of life! This is a stark world, shorn of actors and actresses; a world devoid of pretty hand-movements and downward, sidelong glances; a world where reality and life do those very gestures, made before the cleverly positioned high lights, make to the enjoyment of life! This is a stark world, shorn of actors and actresses; a world devoid of pretty hand-movements and downward, sidelong glances; a world where reality and life do those very gestures, made before the cleverly positioned high lights, make to the enjoyment of life! This is a stark world, shorn of actors and actresses; a world devoid of pretty hand-movements and downward, sidelong glances; a world where reality and
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A PARTY COMES TO LIFE
(CONTINUED FROM PAGE 29)

BON APPÉTIT
(CONTINUED FROM PAGE 54)

GENERAL ELECTRIC
Self-Starting Clocks
Prepare a fine chicken in the usual manner for roasting. Salt and pepper the insides well and insert ½ lb. of sweet butter. Sew the chicken up, just as though it had been stuffed, and spread a little butter over the bottom of a small roasting pan. Place the bird on the butter. Place in a very hot oven to brown. In about eight minutes, if it has browned, remove the pan from the oven and place it on top of the stove. Pour over it a wine glass of heated cognac and light it. Let it burn a bit, then extinguish the flames by pouring over it a wineglass of good port—preferably white wine. Baste well with the resulting sauce after it has burnt well, and put it back in the oven to continue roasting, but reduce the heat a bit. Allow fifteen or twenty minutes to the usual roasting time. Every five minutes until the chicken is cooked baste it and pour over it a dessert spoon of thick cream. Carve and serve immediately on a hot platter, with the sauce in a separate dish.

Sliced Tomatoes with Chili Sauce. On a hot, hot day, try luscious ripe tomatoes, peeled and quartered. Prepare a big bowl of them. Chill well. Just before serving, pour over them 1 cup of Chili Sauce thinned with lemon juice.

Ratatouille. This is a plat Provençal, or in other words a dish from Provence. Peel and remove the seeds from 4 big ripe tomatoes. Endeavor to peel the thin outer skin from 1 big green pepper, by placing it on a fork and holding it over the gas flame. Turn it around and around; then with a little knife pull off what you can. Then split in four and remove the seeds and white membrane. Peel 2 Italian squashes (the long green ones that look like cucumbers), split lengthwise in four and cut out the seeds. Peel 2 small cucumbers, cut and cut out all the seed part. Now cut all the vegetables up in moderately small pieces. Now put 1 cup of olive oil in a frying pan and heat it to hot boiling—add the all the vegetables. Cook ten minutes, then with a pancake turner turn everything over and cook another ten minutes. Then salt and pepper the whole and cover the pan. Cook very slowly—about half an hour. Then chop very fine 2 cloves of garlic and prepare 1 tablespoon of chopped parsley. Add both to the ratatouille and cook ten or fifteen minutes longer. When ready to serve add a big lump of sweet butter. Stir until melted and serve at once with good Italian or French bread. It must be served very hot to be good.

Sliced Oranges—With Caramel and Chopped Pecans. This doesn’t sound very different, but it does taste different and is very good.

Combine some caramel. Put 1 cup of granulated sugar in a deep aluminum pan and moisten it with ½ a cup of cold water. Place pan on fire and cook without stirring until a light golden brown, then add a cup of hot water. Don’t burn yourself—it will bubble way up. Put back on fire and cook until thick and syrupy and all the caramel is melted (about seven minutes). Cool, while you peel with a sharp knife 6 or 8 big navel oranges, cutting well into the fruit so that you remove every bit of white membrane. Put the oranges in the refrigerator pan to chill a while. Then with a sharp knife cut down between the membrane and remove the pulp in nice even pieces. Place in shallow serving dish and pour over them half of the caramel. Place a refrigerator until ready to serve. Just before serving trickle the rest of the caramel over the top and sprinkle with chopped pecans. Serve on chilled dessert plates.

Gateau Malakoff for Twelve. The ultimate in fancy desserts, and very easy to make. It must be made the day before using, and is therefore ideal for a big party menu, leaving more time free to cook the rest of the meal the day of the party. It is very rich, but extremely good. You will need 1 pound of the very best glacé mixed nuts—the variety that has plenty of caramelized sugar on them, preferably hazelnuts and almonds, Walnuts and pecans and a few cashews are permissible, but definitely no peanuts, please. Put these nuts through the meat grinder, using the medium knife. Sift the resultant nut and caramel powder through the flour sifter and re-grind the part that won’t sift through. Repeat the process until the whole is reduced to a uniform fine powdered mixture. Now make 1 quart of thick liquid custard in the usual way, using the yolks of 7 eggs, 5 tablespoons of sugar and 1 quart of milk. When it has cooled flavor it with vanilla, and proceed to cream 5 pounds of sweet butter until nice and creamy, then add gradually ¼ cup of powered sugar, and then little by little incorporate the powdered nuts. Stir in 1 cup of powdered sugar, and 6 tablespoons of the cold custard. This will soften the mixture to just the right consistency. Now line a round mold with thick cream, placing two, cut in two, to form fine powder mixture. Now make for your home will cost so little and provide so much genuine, year-after-year comfort as Weil-McLain Raydiant “Concealed” Radiators, installed under your windows.

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Some arrows indicate convector, or air-carried heat, rising into the room through upper grilles. This heat meets incoming cold. Wavy lines indicate radiant, sun-like warmth radiated into the lower part of the room by this radiator's fully heated, front panels.
brought a reserve to the higher classes of Modernism. Perhaps it is going traditional! Today the lower-priced ranges of Modernism are exhibiting a commendable freshness. They are using a lot of bleached mahogany—bleach almost bone white, with here and there some pieces in black wood and some in warm rust brown.

Just as we go to press a telephone call comes in from one of our Editors in Grand Rapids, saying that there is growing interest in the style developed by the Shakers of New York State. It is a semi-Modern style and is being designed mostly in pine. On this month's Bulletin Board there is a short review of a new book on Shaker furniture which has just been published by Yale University Press.

NOW HE SLEEPS—SILENTITE WON'T RATTLE

"When the wind blows—the windows will rattle" (an old homeowner's proverb). But not any more! Silentite can't rattle and keep you awake.

Silentite is the first window improvement in 300 years! It's made of wood—because that's the best material to keep out heat and cold. It's "insulated"—well weather-stripped. It can save as much as 50% of your fuel bill.

Silentite can't rattle or stick. It keeps out dust and dirt. It has no sash cord, pulleys or weights to get out of order. And it's pre-fit at the factory. That means it's easy to install. It's a trouble-free window that costs no more than properly weather-stripped windows.

Windows "pains" and their annoyances are all left out of Silentite by Curtis, America's best-known name in wood-working for over 71 years. Ask any architect, contractor or dealer to tell you how the Silentite Window will make your home more comfortable and economical.

And if you want Case ment Wind ows, investigate Silentite's younger broth er, the new Silentite Case ment—also "insulated."—no rattles—Silentite: It's a trouble-free window.

Curtis Companies Service Bureau
Clinton, Iowa

FURNITURE PROPHECY

(cont. from page 50)

LILIES IN NAME ONLY

(cont. from page 60)

"A Plant Family. A family of plants is a group of related organisms united by the botanists because they all have a family resemblance, though quite distinct one from another."

Thus we have Hemerocallis, a group of plants whose flowers are Lily-like in appearance and which, while belonging to the Lily family (Liliaceae), are yet not members of the genus Lilium. There are numerous Hemerocallis species and a vast and increasing number of varieties. Familiar to most gardeners are the common names of some of them.

Picking up horticultural books and catalogs at random is it surprising to note how many flowers have been distinguished by the proud title of Lily. These I have called Lilies by courtesy. Most of them is true have at least a superficial likeness to the true Lilies, but not always. Once I heard a country woman call the Fringed Gentian the Blue Lily, but after rather wide inquiry in that locality I was not able to substantiate that title as generally used and come to the conclusion that the woman admiring the lovely blue wildflower extravagantly, and not knowing its proper name had bestowed upon it the most honorable title that she could call to mind.

On the other hand certain plants that are conceivably aspire to the title have not attained it, so far as I can find. Camassias are Lily-like in appearance, as also are many Tulips, whereas one would not expect to find the Field Bindweed bearing this aristocratic name, nor the modest Pyrola or Maleanthenum. However, most of the flowers called Lily have a certain showiness or elegance of port, and the funnel or bell-shaped perianth.

HOW TO TELL THEM

The true Lilies (Lilium) "have six distinct, erect, spreading or recurving segments or petals, the inner ones being usually larger and broader than the outer ones. Stamens six, with large, red or orange versatile anthers at the end of long slender stalks. And they grow from large scaly bulbs. So you may know your true Lilies. The courtesy Lilies, on the other hand are bound by no such pattern, nor do they follow it either in the matter of a bulbous root as a rule."

When is a Lily not a Lily? This question may well be asked by the puzzled gardener. And the answer is a long one, too long to be given here. But following is a list of some of the "false Lilies" that are likely to be met within the garden, or greenhouse, even by the wayside. They are placed in the families to which they belong.

(Continued on page 79)
PRIMROSES

(continued from page 57)

The Cowslip, *P. veris*, will thrive in a more open situation. As a boy I rambled over acres of chalk down, where the Cowslip grew in such abundance that the golden flowers were gathered for wine making. More robust forms than the type, with rich color variations, are available for border planting. The Polyanthus, or Buck Primrose, is the best known in American gardens. This is a hybrid race in the development of which the Primrose and Cowslip played important parts. Good strains of showy, large, and long-stemmed flowers have been developed. The Munstead strain, with extra large flowers from white to deep yellow, is one of the best, and makes a fine Spring picture combined with Mentha. The Six Hills strain is also excellent, with fine flowers of good texture and color range. Beds planted entirely to Polyanthus are very showy. When grown for Spring bedding they are best removed from the flower garden after flowering, divided, and planted in a reserve plot.

(Continued on page 38)

LILIES IN NAME ONLY

(continued from page 78)

**LILIACEAE**


**AMARYLIDACEAE**


**RIDICULACEAE**


**ARACEAE**


**NYMPHAEACEAE**


**CONVOLVULACEAE**


**ERIOCEAE**

*Pyrola minor*, Wood Lily.

**COMMELINACEAE**

*Tendae sctina virginiaca*, Spider Lily.

**LOASACEAE**

*Mentzelia decipetala*, Prairie Lily, *Garm Lily*.

**SOLANACEAE**

*Daurostramonium*, James-town Lily, *Magnololachia*

**HYACINTHACEAE**

*Magnolia Fraseri*, Water lily Tree.

**ZYGIRIDACEAE**

*Hydrychium*, Ginger Lily, *Carruna*, Queen Lily.

**HYDRANGEACEAE**


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Hot Sleepless Nights

until returned to the flower beds in fall.

In this large group the Candelabra section contains some of the showiest and most easily grown of the genus. These are real moisture lovers, and make an extended display as the different whorls of flowers develop. *P. japonica* is the best known, and when well placed colonies freely from self-sewn seedlings. It thrives at the water’s edge, but will grow well far removed if given a shaded place in deep, well-enriched soil, and especially watered in dry periods. There are much improved color forms over the original magenta, and poorly colored seedlings should be pulled out as they show. A few whites scattered through a planting set off to advantage the deeper colored forms.

*P. palversonata* is like a robust *japonica*, but is farinose (mealy). The crimson flowers are borne on stems sometimes 3’ tall. Under cultivation various color forms have developed. The Bartley strain is notable for beautiful shades of rose and pink.

*P. cockburniana* is of smaller growth with reddish-purple flowers. It is mostly biennial in character, but easily raised from seed. Crossed with *palversonata*, some striking colored hybrids resulted, Brad Hugh is exceptionally fine, with its fiery red flowers and mealy stems. Very beautiful are the orange-apricot flowers of *P. Balleyi*, and of this there are hybrids in lovely shades of rose, salmon and apricot. *P. Beesiana* is very similar in habit, with showy rose-lilac flowers with a distinct yellow eye.

The Sikkimensis section is closely related to the Candelabras, and the giant in this group is *P. florindae*. It is characterized by very large leaves, which are late in starting, and tall flower stems 3’ or more tall, bearing thirty to forty pale yellow fragrant drooping flowers in mealy terminal umbels. It sometimes behaves as a biennial, but is easily raised from seed. Shade and moisture are essential.

The bright rose flowers of *P. rosea grandiflora* make a stunning spring display, especially when massed in a bed by the waterside. It is not a large plant and apparently does not object to a somewhat solid soil.

A handsome species for the rock garden is *P. Sieboldii*. It has soft wrinkled leaves, and masses of large showy flowers, often crinkly, and varying from pure white through pink to crimson. The plants die down after flowering, and has the unusual character in a Primrose of a creeping root-stock which runs just under the surface, and from which new plants arise away from the original base. A well-drained gritty soil with humus is best for this beauty.

Roots are usually and striking species is *P. Litetanum*, for which it is well worth making a special effort to please. It has long, oval, downy leaves, and a tall powdery stem ending in a pink-like spike 3’ to 6’ long, and crowded with fragrant lavender flowers opening from scarlet calyces. A moist shady place, high enough to be comparatively dry in winter seems to be necessary for its welfare.

The beginner should achieve reasonable success with the above kinds under the conditions outlined, and be encouraged to try and master others of this notable group.

**Primroses**

(new growth substances are not in any sense fertilizers or plant foods. For purposes of identification they have been designated “auxins”. Whether found in plants in a natural state (they are “manufactured” in every growing plant), or supplied artificially, their function is to promote cell development. One of their peculiarities is that they have the ability to travel (by methods not yet fully ascertained) from one part of the plant to another, and to accumulate locally, producing results which are perfectly natural, but which may seem abnormal under unusual conditions.

A few years ago, Dr. P. W. Zimmerman and Dr. A. E. Hitchcock, working at the Boyce Thompson Institute, using certain types of gas injury to plants, were astonished to observe (Continued on page 81)

**For Hot Sleepless Nights**

How to reduce house temperatures 10 degrees

**IVORY TIPS**

**protect the lips**

**PRIMROSES**

(continued from page 79)

arrest that in these hot, dead-sired nights in August, it begins getting passably cool in your sleeping rooms about one o’clock! The cool night air has, by then, partly worked its way into the house, overcoming some of the heat stored up during the day.

Your problem then is to move up several hours that hour of sleep-time coolness.

This Burnham Fan-Cooler does just that. It reduces the temperature 8 to 10 degrees. Fan-Cooler is located in the attic, and pulls the hot house-bound air up through a ceiling grille in the hall, forcing it outdoors. The cool outside air at once replaces the hot air.

It does not simply keep stirring up the same old hot, dead air in any one room. This Fan-Cooler lowers temperatures and freshness air in all sleeping rooms. Cost is reasonable, Installation simple. Send for circular. Get the full facts.

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(CONTINUED FROM PAGE 69)

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**ROOTS WHILE YOU WAIT**

(continued from page 69)

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A few years ago, Dr. P. W. Zimmerman and Dr. A. E. Hitchcock, working at the Boyce Thompson Institute, using certain types of gas injury to plants, were astonished to observe (Continued on page 81)
that some of the chemicals they were experimenting with produced the same cell development stimulation, and consequent bending and abnormal root growth, as the plant auxins unearthed by the European investigators.

Here, surely, was a startling scientific discovery. But here, had the Boyce Thompson Institute been the usual pure science type of laboratory, the matter would have rested—at least until some other agency, taking up the clue, had carried on. But, fortunately for American gardeners, the Boyce Thompson organization has always been quite as much interested in turning its scientific discoveries to practical use as in making them in the first place—as the results of its work on plant propagation, to mention but one project, bear eloquent witness.

Innumerable experiments were at once undertaken in the new growth substances. The results achieved, from the start, were so remarkable as to be almost fantastic. As the work was carried on, roots were made to sprout, at the operator's will, and in incredibly short periods of time, on the sides of stems, on leaf stems, and even on leaves themselves—in a way that has made hair-tonic proprietors, reading about them, turn a livid green with envy. Some plants were so responsive to treatment that a local application would induce root formation at the top of a severed stem—the last place where, according to all previous plant experience, roots had any right to grow!

From the start it was evident, as was to be expected, that not all plants responded in the same degree to treatment. The next discovery, however, was a surprise and established a most important fact. Earlier investigators had concluded that there was one specific growth substance, but Zimmermann and Hitchcock found that certain plants that showed little or no reaction to one substance, responded readily to treatment with another. So generally did this prove true that it now seems probable that it is only a matter of time and experimentation until a suitable stimulant may be found for practically every plant that it is desirable to propagate asexually.

At this point in the exciting series of experiments it looked as though the most practical use of the new discovery would be the development of a series of salves, to be applied locally by rubbing on at the point where it was desired to have roots form—a sort of modernized system of Chinese or air-laying, by which sections of the plant would be induced to form roots, and then cut off and potted up as individual new plants.

This air-laying type of treatment may still prove to be the most, or perhaps the only, practical method with certain very difficult types of plants. While it is awkward to use, compared with the method of treating cuttings described in later paragraphs, it is quicker and more convenient for propagating some types of plants, than budding or grafting—the only alternatives.

Furthermore, cuttings of many types of plants, ordinarily producing roots only at joints or "eyes," or at the exact point of severance (such as Geraniums) developed strong roots along all the portion of the stem inverted in the rooting medium. Some exceptionally ambitious subjects even went on throwing out roots right on up the stem, into the air above the rooting medium!

Here was something to make the scoffing commercial propagators sit up and take notice. But still other important discoveries were in store for them. The first of these was that, under the stimulating action of the root-growth materials, cuttings so young or soft, or so old or hard, that ordinarily they could not be induced to "strike" at all, formed roots quite readily. Thus for many plants the use of these materials greatly extends the period during which propagation may be successfully carried on.

One recent series of experiments, which may prove of exceptional interest to amateurs, has demonstrated that extra large cuttings may be successfully rooted and grown by the employment of root-growth substances. Taxus cuttings, for instance, two feet long, have been used to obtain good sized plants in a single season!

But of even greater importance to the amateur is the further discovery of the fact that whereas there is marked difference among the plants in their reaction to different kinds of root-growth materials, when the latter are applied locally (in the form of salves or by injection), this difference largely disappears when cuttings are treated with water solutions. In other words, the chemicals greatly extend the period during which propagation may be successfully carried on.

(Continued from page 82)
BULBS
CAMASSIA LEICHTLINII. Magnificent spikes to 4 ft., often bearing 100 flowers, easily grown, hardy, deep purple, blue, or white, 15 large bulbs, $1.25 per doz. for 100, $4.95 per 1,000. Color illustrated catalog: Delphinium, Bearded Iris, Hollyhocks, Black-Eyed Susans, Phlox, Larkspur, Stock, Astilbe, Rhips, etc., 15 cents. Postpaid.

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same way as they have seen them played in old-world gardens; free on the lawn or in other prominent positions but entirely unsuited, they are very much more intensive measures have to be taken to keep these plants alive. Every Autumn ugly looking tents have to be set up over them, and in spite of all else that may be done for further protection one can never be sure that the plants will really pass through the Winter without serious damage. Yet the nurseryman who said that the Boxwood is quite safely hardy a good ways to the north of Philadelphia did not lie; it only is necessary to add for the benefit of the layman the following warning: outside of those regions which offer the most favorable conditions—which are: moderate Summer heat, moderate Winter cold, and abundant rainfall during Spring and Fall—all broadleaved evergreens have to receive special consideration and demand a different treatment from that of deciduous woody plants. It is necessary to realize that hardiness is not altogether a constant characteristic which is either inherent in a plant or absent from it. To most people it causes considerable surprise to learn that hardness is influenced to a very large degree by the care which the plant receives during the growing season preceding the Winter; and that lack of proper care at the proper time, wrong choice of position and unsuitable soil frequently suffice to render a plant tender which under the right conditions is perfectly hardy.

DANGEROUS DEHYDRATION

With broadleaved evergreens this becomes much more evident than with any other type of plant, since their requirements are of a very special nature. We must understand that the evergreen leaves are not an active development, but that they present an adaptation to certain climatic conditions which permit the plant to remain active nearly all the year round. These leaves continue to function to a certain degree during the Winter, and therefore any evergreen plant is much more exposed to fatal dehydration by the combined action of frost, sun and wind than is a deciduous plant. In nature we find hardy plants with evergreen foliage usually under either one of two sets of conditions. First:

in mountain regions with deep snow in the Winter and with more or less humid Summers. Second: in woods, consisting of deep-rooting trees with high crowns, preferably on moist but rocky slopes facing west. In such woods an ample layer of dead leaves as Winter protection for the roots is assured each Autumn, as well as wind shelter and moderate shade.

THE IMPORTANCE OF MOISTURE

Soil moisture is an evident and important factor in both of these positions, but it must be understood that not swamp conditions are meant. Indeed, stagnant moisture is decidedly undesirable and is tolerated by only few of the broadleaved evergreens. When they require is moving water, moisture which continuously trickles down through the stony subsoil and passes their roots.

In the garden, naturally, we do not wish to expose our evergreen plantings to moist slopes, nor is that necessary. Intelligent care can do much to correct the deficiencies of a locality. But, before designing the secret points in the preparation of the ground and the proper placing of the plants, let us consider the factors which are most likely to cause injury to broad-leaved evergreens.

Although most of them tolerate or even prefer a certain amount of shade, the Summer sun does not injure them if they are regularly watered and if their roots are kept covered with a mulch of leaves. The Winter sun, however, may become a serious menace. In striking the frozen leaves it warms them unevenly, and the water which is contained in them is evaporated much more quickly than it can be replaced, since the water-carrying vessels further down in the tissue remain cold much longer and can not respond to the sudden demand. This results in a partial drying out of the leaves, which gradually turn brown and look as if they had been burned. Wind naturally accelerates this drying out process and increases the danger to the life of the plant. Therefore, remember these worst enemies of the broadleaved evergreen plant: Winter sun and dry Winter winds. It is because of their menace that we cover boxwood plants with burlap tents, not in an effort to keep them warm which can not be achieved (Continued on page 84)

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NATURE OK’s another Bartlett Cavity

Man proposes, Nature disposes. Time alone can prove the effectiveness of Tree Surgery. So let us look back 14 years to 1923, when the house above was under construction for Mr. D. L. Webster of Maplewood, N. J. The owner was worried about a 140-year-old oak, though heavily decayed oak near his driveway. Must he lose this tree? Here, Bartlett entered the picture—undertook to save it. The decayed area was cleaned out. Then treated by the Bartlett process, using "Flexifil"—a material which has practically the same porosity, flexibility, and expansion coefficient as live wood—and the famous "Heal Collar" by which the new growth seals the cavity against moisture and disease. Within a few weeks the new bark started to grow over the collar band of this striking tree back in 1925.

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And here you see the tree today. The wound is now near the collar band. The smooth even growth of new bark over the usually filling is proof positive of absolute cavity work.

High technical skill backed by years of exhaustive research enables Bartlett to offer an unconditional "Lifetime Guarantee" on Cavity Work. Every Bartlett "Lifetime Cavity" is identified by this BRONZE MEDALLION affixed to the trunk of the tree, and by a "Lifetime Certificate" issued over our signature to the client.

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anhy, Natural wind shelter and indirect shade from large buildings, trees, or from well-placed protective plantings of conifers may serve efficiently for the same purpose and the less severe from the unsightly burlap coverings.

When looking for a spot which offers natural protection, be on guard also for what is called "frost hole." This is any low place in which the heavier cold air may accumulate and from which it cannot drain away. Particularly in the critical weeks of Spring and on cold, clear, windless nights the temperature is likely to drop down much lower in such a frost hole than on the surrounding slopes.

THE SOIL QUESTION

The best soil for broad-leaved evergreens is generally a good loam of slightly acid reaction. To this some well-decayed leaf mold should be added when the plants are set out. In Autumn a mulch of dead leaves, two or three inches thick, should be spread over the surface of the ground around the plants. This is especially advisable as the farthest spread of the branches. This covering must be left on all the year around and may be kept in place by lightly sprinkling a little soil over it. No digging should ever be done close to the plants, since most broad-leaved evergreens are shallow rooters and severely resent any disturbance of their surface feeding roots.

Regular watering during the dry months of summer is as important as good drainage in the subsoil. After the plants are established, water must be provided artificially if it is not present naturally. The selection of the most desirable varieties is a difficult task in this group. What good is the most beautiful plant to us, if we cannot depend upon its hardiness? Yet seemingly slight local differences in climate frequently become highly favorable to with broad-leaved evergreens. In the vicinity of New York City many of them are tantalizingly near-hardy, and in certain sheltered situations actually found growing as far north as Long Island. A number of varieties have proven safely hardy which have no chance west of the Sound. Let us consider first the tall growing kinds and in particular those which are hardly north.

Berberis. The evergreen Barberries are highly ornamental plants with their leaves usually shining dark green above and whitish beneath; but only one of them, B. verruculosa, which rarely reaches more than three feet in height, is really safely hardy north of New York City. The graceful hybrid B. stenophyllis is next in line in hardiness, but it has to be given a well-sheltered position in the northern parts of the States. B. julianae, which may grow to eight feet tall, is hardy in sheltered places in the vicinity of New York City. B. Gageopamii, B. triandrophora, and the dwarf B. can- didula are hardy in sheltered places on Long Island and can be highly recommended for planting in Carolina and Virginia.

Buxus sempervirens, the Boxwood, with its dwarf variety suffruticosa has been treated in detail above. Somewhat hardier and easier to accommodate in the northern part of the States are the two Japanese species, B. japonica, which may reach a height of six feet, and B. microphylla, which is dwarf, spreading habit of growth.

Euonymus radicans. The variety erecta, if planted standing free, forms a bush about five feet high, and may be trimmed into beautiful hedges. If planted against a wall it will climb as high as twenty feet. It is hardy in Massachusetts. The other forms of this species are low and spreading in character and are useful as ground covers or wall creepers. E. japonica, an upright shrub to eight feet in height, is safely hardy on Long Island but not further to the north. E. patens, which may reach a height of ten feet, is slightly hardy, but in the vicinity of New York it rarely produces flowers, which normally appear late in the Fall and are its greatest asset.

Hex. With the exception of the Inkberry, I. glabra, which has black fruits and is perfectly hardy as far north as Massachusetts, the most satisfactory of the evergreen species of this genus is I. spicata, the common Ilex. Most satisfactory for northern plantings is the so-called Arden-Holly which is a selected hardy strain. This native species, closely resembling the evergreen Ilex, is safe on Long Island but not further to the north. E. patens, which may reach a height of ten feet, is slightly hardy, but in the vicinity of New York it rarely produces flowers, which normally appear late in the Fall and are its greatest asset.

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