There is a secret something about certain homes which gives them "an atmosphere."

It consists in little details of excellence, in a nice attention to the things which are felt, rather than handled or seen.

Such homes are warmed, not heated. Warmed, in most instances, by the products of this Company, whose boilers and radiators are a part of so many distinguished buildings throughout the world.

If you are planning to build or remodel, send for our finely illustrated book about the Ideal Type A Heat Machine. Mail your request to either address below.

AMERICAN RADIATOR COMPANY
IDEAL Boilers and AMERICAN Radiators for every heating need
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Before You Build

Make sure that the material that goes into your house will give you the greatest possible return in comfort and satisfaction.

BISHOPRIC STUCCO
OVER
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Provides a unit wall
For all Time and Clime

A Bishopric Stucco Home Means

(a) Least Cost for Labor.
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(e) Living comfort, Winter and Summer.
(f) Lowest Maintenance Cost.

We have prepared "Bishopric For All Time and Clime," an interesting booklet for you, illustrated with photographs of beautiful houses built with Bishopric stucco, plaster and sheathing units. Write for it.

Sold by Dealers Everywhere

The Bishopric Manufacturing Co.
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The Right of Way to Tire Leadership

A year or so ago, the American public placed the leadership of the tire business in the hands of the men who make U. S. Royal Cords.

The first Royal Cord Tires were made and sold in 1916. No cut-and-dried story could possibly account for their position of command today—earned in a short six years. It mostly comes down to the car-owner as an out and out human being. Forget him as a mere tire customer and consider him as a personality. With an inborn instinct for quality. With a pride in demonstrating his quality beliefs. How many tire manufacturers, would you say, have even guessed that American car-owners were shifting so fast to better tires?

Certainly U. S. Royal Cords have proven this fundamental thing—

For every low-grade tire made there is arising some motorist with a fine, human indifference for it. He and his kind have become out and out loyalists of Royal Cord Tires—as representing the highest expression of their demands.

The makers of United States Tires urge upon everybody—manufacturer and dealer alike—a new kind of competition.

Let us compete for more and more public confidence.

Let us compete for higher and higher quality.

Let us compete for still more dependable public service.

Multiply this man by a million or more. Then sit down and weigh his tremendous deciding influence.

Today, for the production of U. S. Tires, there is erected and operating the largest group of tire factories in the world.

The men who make Royal Cords are quality workers and quality merchandisers.

Their spirit of leadership is the spirit of constancy—faithfulness—a simple, understandable policy.

U. S. Royal Cords have come to be the measure of value of all automobile tires.

United States Tires are Good Tires

Copyright 1922 U. S. Tire Co.
In the BIG-SIX you find the charm of perfect line and innate good taste. In its hidden goodness a sturdy power and riding ease that satisfy every demand of motor car performance.

It is built with an underlying strength that will endure for years and years of rugged use.

Traditions of seventy years of manufacturing goodness explain why Studebaker is the world's largest builder of six-cylinder cars.

7-passenger; 126-inch wheelbase; 90-H. P. detachable-head motor; intermediate transmission.

Big-Six Touring Car, seven-passenger............... $1785
Big-Six Coupe, four-passenger...................... 2300
Big-Six Sedan, seven-passenger .................... 2700
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THE STUDEBAKER CORPORATION OF AMERICA
Detroit, Mich. SOUTH BEND, IND. Walkerville, Ont.

World's Largest Builder of
Six-Cylinder Cars
Time to Re-tire?
(Buy Fisk)

There's Extra Value in Fisk Tires

The only time a lower price is more for less. Because Fisk Cord Tires show contrasting values in size, strength, resiliency and appearance when compared with any other tires, the price is interesting.

There's a Fisk Tire of extra value in every size for car, truck or speed wagon.
NEW ENGLAND COLONIAL STYLE
Illustrating the symmetry and stateliness of New England town houses of the period when Colonial architecture was at its height. This is another of the 17 architectural styles illustrated and discussed in "Good Houses," a book for home-builders interested in good design, efficient planning and thorough construction. "Good Houses" interprets those architectural styles which are the foundation of American building traditions, and which are adaptable to good construction today. Send for your copy today.

ASK any one of the better class of building contractors why so many people are dissatisfied with their houses a few years after they are built. He will tell you poor construction.

Constant repair bills, excessive heating costs and the endless annoyances that so often rob home-owners of the satisfaction they are entitled to, are the results of construction short cuts —mistaken for economy—behind plastered walls, beneath the floors and even under the very foundations of many houses that are being built today of all materials.

Yet at no greater cost than the prices that are being paid for compromise houses, the application of the right principles of building construction can make your house a substantial, economical, satisfactory home.

THE key to successful house building lies in right materials properly applied.

Lumber for house building is of the same good quality as ever. Developments in manufacture are constantly improving it.

Good workmen and the better class of contractors still want to do an honest job; in fact they have been preaching the value of right construction in house building for years.

But conditions, largely beyond their control, today are forcing legitimate contractors—the men who know good materials and how to use them, who understand fire-stopping and other modern construction practices, and who see house construction in terms of durability and efficiency—to bid against construction practices that every honest craftsman condemns.

That is why we say, go to a legitimate contractor—one who takes pride in his craft and would rather deliver a good job at a fair profit than a poor job at an unfair profit.

You will find these men more and more using lumber of the Weyerhaeuser standard of quality—trade-marked with the manufacturer's pledge of personal responsibility.

IN "The High Cost of Cheap Construction," a book which will be mailed you on request, you will find the essentials of good construction necessary to successful house building: the basis for judging the manner in which your house is built; and the means of making the lumber you use in the construction of your house of even greater service. Ask also for "Good Houses."

Weyerhaeuser Forest Products are distributed through the established trade channels (to contractors and home builders through the retail lumber yards) by the Weyerhaeuser Sales Company, Spokane, Washington, with branch offices and representatives throughout the country.

EACH year you will find an increasing number of retail lumber dealers recommending Weyerhaeuser lumber for house building—men who know the relation to correct building practice of properly dried lumber, of uniform grades and of the kinds best suited to your needs.

WEYERHAEUSER FOREST PRODUCTS
SAINT PAUL, MINNESOTA
Producers of Douglas Fir, Pacific Coast Hemlock, Washington Red Cedar and Cedar Shingles on the Pacific Coast; Idaho White Pine, Western Soft Pine, Red Fir and Larch in the Inland Empire; Northern White Pine and Norway Pine in the Lake States
You can now secure complete plans and specifications for this remarkable Brick home—declared by experts to be the finest of its class in America.

This home will appeal to all because it is not only unusually artistic, but also thoroughly practical and most economical—as discussed in the adjacent column.

Send for free circular No. 705 showing alternate floor plans and giving complete details.

**Hiawatha's Cost Within Your Reach**

This home can be built of Brick (solid masonry) for as low as from $9,000 to $13,000, depending upon location and the character of equipment and finish.

Any good contractor after seeing the plans in circular No. 705 should be able to give you an estimate of its cost in your community. With the complete plans—working drawings—and specifications which are yours at nominal cost, he can tell you exactly what he will charge to build this home for you.

**Costs Even Less With Ideal Wall**

When this home was first built, the Ideal Brick Hollow Wall was unknown. Its recent development makes possible the building of this Brick home for even less than the above figures. With the Ideal Wall you obtain all the advantages of solid masonry construction at a saving of $2 in cost.

The Ideal Wall is thoroughly described in "Brick, How to Build and Estimate"—a 72-page manual of vital information for those planning to build and for contractors. Only 25 cents postpaid.

The Hiawatha is one of a wide variety of Brick house designs shown in that fascinating volume, "Brick for the Average Man's Home". Every one of these designs is by a competent architect. Here you will find all kinds of homes illustrated and described, together with much helpful information. The nominal price of $1.00 is to cover printing and distribution costs only.

$1.25 brings both books. Address The Common Brick Industry of America, 1303 Schofield Building, Cleveland, Ohio.
The Corbin Unit Lock is Good Hardware

With the Corbin Unit Lock on your front door, there is no more groping in the dark—no more guessing at the probable distance of the keyhole from the knob. As you grasp the knob the keyhole comes to meet you. It is where it should be—in the exact centre of the knob.

There is no better lock for an outside door of a residence than the Corbin Unit Lock. It is Good Hardware. The first ones made have been in service for more than twenty years and show no signs of wearing out.

The Corbin Unit Lock is, as the name implies, a complete unit. Lock, screwless knobs and escutcheons leave the factory in one assembly, a single unit, ready to be applied to the door. It can be master-keyed.

When you build, don't overlook the security, the simplicity, the strength, the beauty, the smooth, dependable action and unequaled convenience of the Corbin Unit Lock. The host of friends this lock has won is evidence of a growing appreciation of the idea that good buildings deserve good hardware.

Write for literature describing the Corbin Unit Lock "with the keyhole in the knob". Your architect and local Corbin dealer will help you select appropriate designs.

P. & F. CORBIN
The American Hardware Corporation, Successor
SINCE 1849
NEW BRITAIN, CONNECTICUT
NEW YORK
CHICAGO
PHILADELPHIA
Pennsylvania VACUUM CUP CORD TIRES

NOW cost no more than ORDINARY makes, though they give the utmost in mileage and safety. Get the latest price schedule from your dealer — you will be agreeably surprised.

PENNSYLVANIA RUBBER CO. of AMERICA, Inc
JEANNETTE, PA.
Direct Factory Branches and Service Agencies Throughout the World
Don’t Buy a Pig in a Poke

—and don’t buy furniture from your dealer without a guarantee, covering the kind of wood of which it is built.

Then you will be sure to get what you pay for.

The buying public now has simple standards to guide it in its furniture purchases, for the Associated Advertising Clubs of the World, after numerous conferences with Furniture Retailers and Manufacturers, has finally set up standards by which Furniture Retailers should advertise and sell furniture to the public.

If you want GENUINE MAHOGANY furniture—either solid Mahogany or well built Mahogany plywood—demand of the store selling you, a guarantee that it conforms to the MAHOGANY or SOLID MAHOGANY classification of the Associated Advertising Clubs.

Don’t overlook that only under these two classifications must all of the exposed parts of a piece of furniture be Mahogany.

Do not be misled by the use of the word “finish,” in any of its moods or tenses. It was not incorporated in these standards because it did not tell the truth.

The use in furniture advertising and selling, of the terms “Mahogany Finish”, “Finished in Mahogany”, or any other use of the word “finish”, will be a warning to you that the piece is not made of Mahogany.

THE MAHOGANY ASSOCIATION, Inc.
New York City

After all—there’s nothing like

MAHOGANY
The Durability of Unalloyed Copper

Ornaments and adornments made of pure copper by the Egyptians of pre-historic times have come down to us through thousands of years in perfect condition. Of all the metals commonly used by man, pure copper is the most enduring.

It is for this reason that The New Jersey Wire Cloth Company uses copper 99.8% pure—not copper alloys such as bronze or brass—in its best grade of insect screen cloth. This copper is produced by the Roebling process which makes it unusually stiff and strong. It is the ideal metal for door and window screens.

You can obtain a length of service from your screens heretofore undreamed of by using Jersey Copper Screen Cloth instead of galvanized iron, steel, bronze, or brass. There will be only a slight difference in original cost and an enormous saving in cost of upkeep. Jersey Copper Screen Cloth cannot rust, is of uniform quality throughout, and will give years of satisfactory service.

You can obtain Jersey Copper Screen Cloth, 16 mesh (coarser should never be used) in most of the better grades of custom-made screens, and from hardware and building-supply dealers throughout the country.

On request we will gladly send you a booklet entitled "A Matter of Health and Comfort." If you are a home owner you should read it.

THE NEW JERSEY WIRE CLOTH COMPANY
624 South Broad Street
Trenton, New Jersey
The function of a refrigerator is to conserve food—as economically, as hygienically and for as long a time as possible.

Seeger Original Siphon Refrigerators have for many years and in various capacities always filled these requirements to the utmost degree. Each successive year has witnessed added improvements, until today the Seeger stands for the ultimate in refrigeration value and efficiency.

The design shown above is one of our 1922 models, embodying our new One-Piece Porcelain Interior and the White Oak Flush (no panel) Exterior.

Its dignity of finish and its positive hygienic qualities recommend it everywhere.

Upon written request, we will gladly furnish a list of Railways, Hospitals, Hotels, Apartments and U. S. Government Institutions—including the Army, Navy, Aviation, Public Health and Shipping Boards—equipped with Seeger Refrigeration.

SEEGER REFRIGERATOR CO.
ST. PAUL, MINNESOTA
Representatives in all Principal Cities.

NEW YORK CITY, 399 Madison Ave.
LOS ANGELES, CAL., 311 Terminal Sales Bldg.

BOSTON, MASS., 82 Washington St.
SAN FRANCISCO, 715 Indiana St.
You will not need one of these Valves in your contemplated home, hotel or apartment, but

You will need many Valves and Fittings from the line of 20,000 articles which we make or distribute through the heating and plumbing trade.

We are manufacturers of about 20,000 articles, including Valves, Pipe-Fittings and Steam Specialties made of brass, iron, ferrosteel, cast steel and forged steel, in all sizes, for all pressures, and all purposes; Sanitary Equipment for buildings of all kinds and sizes; and are distributors through the trade, of pipe, heating and plumbing materials.

THERE IS A NEARBY CRANE BRANCH OR OFFICE* TO GIVE YOU CRANE SERVICE

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856 S. MICHIGAN AVE.
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VALVES - PIPE FITTINGS
SANITARY FIXTURES

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An "Armour-Plated" Home

NOTHING can ever quite take the place of wood in residence construction, for no other material so happily combines so many of the major qualities of flexibility and comfort with that great requisite — moderate cost.

“But,” someone queries, “how about the fire hazard?” A timely question, indeed, in view of the yearly increasing fire loss. Fortunately, however, for the home builder of moderate means, architectural science has devised an economical way to “fireproof” a frame house.

A Chicago architect who used this type of construction for his own residence refers to it as his “armour-plated home”—surely a strong endorsement for its fire safety.

Simple Safe Construction

The method of construction is so simple that any prospective builder can easily follow it. The house is stucco finished but “stucco with a difference,” inasmuch as the stucco is applied over a steel mesh—Metal Lath. The web of steel covered with incombustible plaster virtually forms a reinforced concrete slab—a fire-resistant covering or protection for the main structural timbers.

Metal Lath is also used as a base or support for the interior plastering, thus the wood studs are “armoured” on both sides by the steel and cement covering—ample protection from any average fire that might start either inside or out.

Fire Stops Mean Safety

Says Architect Vandervoort Walsh, Instructor of Architecture at Columbia University, “This business of setting up fire stops when the house is being constructed should be known to every architect. They can be provided for in the plans and specifications without adding much to the expense and adding very greatly to the safety of the house.”

Safety Combines with Beauty

In addition to providing safety, there is another decided advantage in using Kno-Burn Metal Lath in home building—Kno-Burn insures the success of stucco and interior plaster by supplying the reinforcement needed to prevent cracks.

The use of Kno-Burn Metal Lath as a plastering base is indeed almost a necessity when the walls or ceilings are to be finely decorated. The metal web or “Steel Heart of Plaster” so thoroughly reinforces in every direction as to insure a permanently smooth, firm surface, unmarred by streaks or cracks.

Free Information for Home Builders

“Home Building” is a book full of suggestions how to get the utmost in appearance, convenience and durability out of your investment. It is free to prospective home builders. Write for your copy today.
THE INDEX TO YOUR STANDARDS OF LIVING

There is one room in every home which is the key to the real standards of living of that household.

The furnishings in the rest of your home reflect, from necessity, the limitations of your income.

But whether this one room in question reflects your sense of refinement, your ideals of hygiene and sanitation, is a matter, not of money, but of pride.

For you can have a bathroom as finely equipped as those you have admired in hotels of the first class or in attractive homes, at a cost within the reach of a modest purse.

Most people have a mistaken idea of what a fine bathroom costs. An attractive, modern Kohler bathroom such as that pictured above costs a surprisingly low sum.

There is a Kohler plumber near you who will be glad to give you an estimate of the cost of replacing your old plumbing fixtures with glistening, snow-white Kohler Enameled Plumbing Ware. Call on him now! He can give you much useful information.

You have always known of Kohler Ware—bathtubs, lavatories, kitchen sinks—as beautiful and durable. You know Kohler Ware is used in the world's finest hotels and in countless thousands of homes and apartments. You, too, can enjoy their beauty.

Send for interesting, free booklet illustrating modern bathroom, kitchen and laundry fixtures. It will give you many valuable ideas. Write today.
To Home Builders

A Guiding Hand
And a money saver

Even in the most proficient hands no man’s home will ever quite measure up to his ideals.

It is so easy for the long pictured entrance or living room—the interior finish or lighting to fall short. Some little error in judgment and a cherished effect becomes a disappointment.

Knowing how and why safeguards your money and your happiness.

Morgan, in “Building With Assurance,” gives you the help and guidance you need. In this great book the well-known authorities on the most important phases of building give you their advice.

For example, you find—
many wonderful pictures—in colors—of charming bungalows, cottages and dwellings—with appropriate floor plans. Then page after page of Interiors, Stairways, Cabinets, Buffets, Porches, Pergolas, Arbors, etc. In addition there is priceless information, secured from the best authorities in America, on practically every phase of building, such as Home Heating, Modern Plumbing, Interior Decorations, Floor Coverings, Hardware, Paints and Finishes, Landscape Gardening, etc. Over 2 years and $50,000 were required to gather this material. Never before has such valuable advice been gathered in book form. It may save you hundreds of dollars and much disappointment.

Prospectus Sent Free

“Building With Assurance” is far too expensive for general distribution. It is for earnest home lovers. Our beautiful prospectus tells all about it—reproduces actual pages, etc. It also explains how you may secure a copy of the Master Book. This prospectus we will gladly send to those who mail the coupon.

MORGAN WOODWORK ORGANIZATION

"MORGAN-QUALITY"
STANDARDIZED WOODWORK

Address Nearest Office, Dept. A
Morgan Sash & Door Co.,
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Baltimore, Md.
Oaksho, Wis.
Gentlemen: Please send me at once copy of your beautiful Free Prospectus, which describes “Building With Assurance.”

Name
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Town
State
How the Simmons Label benefits Yourself and your Dealer

Is there a careful housewife anywhere who has not felt that selecting a mattress is a good bit like buying a pig in a poke?
She buys on faith. Faith in her dealer. Faith in the manufacturer. Faith that the mattress materials are new and clean and sanitary.
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NEXT COME SMALL HOUSES

House & Garden has grown obese. It has developed an advertising bay window. It tips the scales at an unbelievable figure. This would be deplorable did not obesity have its advantages. Fat people are usually good natured, they are usually generous and in most cases they are optimists. House & Garden hopes it has all these excellent qualities. On the other hand, obesity has its disadvantages and the most inexusable is that it has a way of bursting its buttons. Several readers have complained that the binding on the magazine does not hold together. The issues were like the fat boy in "Slovenly Peter" who ate so much that he broke in half. We are sorry to have burst our buttons, but the printer assures us that he can't possibly happen again.

Having made our little apology, let us call your attention to the fact that the July issue (buttons and all) is to be devoted to small houses. We have been preparing for it for some time, because good small houses do not grow on every bush. We combed an immense amount of material to assemble the five pages of small houses and plans, and we were quite happy in being able to show besides, some designs for log cabins and a model house that the architects say can be built for $16,000, pergola and all. Perhaps, if you are planning to build, you will also enthuse as much as we have over the pages of fireplaces, the article on how to use shingles effectively, the page of excellent garages and the little essay Charles Hanson Towne has written in praise of the small house.

But houses, even the small ones, have insides, and we are careful not to neglect these interiors. Here is an article on the essential furniture for the small house, a page of color schemes suitable for intimate rooms, some suggestions on how to use gray in decoration, and how to use lace for window curtains, on how to furnish the nursery, on how to furnish the kitchen, a portfolio showing the decoration of an American farmhouse in Illinois and a before-and-after study of an erstwhile homely house.

And then there's the garden side of this number. The article on how to water and irrigate the garden is worth studying, because the dog days are not far off. The gardens that were laid out in old house foundations are a fascinating idea, and we can likewise recommend the article on tree surgery, and the one on a small naturalistic garden for a city house.

Though you may doubt it, there is even more in this number. The appetite of fat boys is amazing!
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Very once in a while the English and American gardening press publishes the obituaries of old gardeners. There was the late Mr. Blank, for forty-seven years head gardener to Lord and Lady So-and-So, and, the obituary reads, “an esteemed friend of the family.” Another shows a service of thirty-five years on one American estate under one master. Twenty years’ continuous service is a commonplace, and—So, and, the obituary reads, “an esteemed friend of the family.”

As they are good gardeners. It appears that gardeners have no difficulty holding their jobs so long as they are good gardeners. Scarcely one of us but can recall some such old gardener. He is the inevitable figure in the lives of children bred in the country. So inevitable is he that playwrights are casting old gardeners for picturesque roles and novelists use them as a stock in trade. They can always be depended upon to utter choice bits of philosophy, crude poetic phrases and amusing, homely epigrams. But they must be old, they must have seen, like Mr. Blank, forty-seven years of service.

Now forty-seven years go back well into the reign of Queen Victoria, into the era of bustles, modesty and horseshoe furniture, into that domestic age when, perhaps because they had no other place to go, men and women stayed at home. And staying at home, they pursued the domestic virtues, tended to their houses and cultivated their gardens. This, doubtless, had a great deal to do with the gardener’s long term of service.

The old gardener, as most of us picture him, invariably puttered around. He was not a fast worker nor, according to current standards, highly efficient. He took his time, for time meant little to him. His life and work were regulated by the fickle moods of the seasons. His ideal was to keep plants healthy so that they produced fine fruit and flowers; in them he took pride and found his compensation. A compliment from his employer, and he was set up for days. Not a patronizing word, mind you, but a compliment that came from a full understanding of the work entailed in raising that perfect rose and nurturing the plants, then the successes and failures, the joys, the tragedies, the poignant griefs of that new generation. They felt the varying fortunes of the family—employers and their employers were loyal to them. These things, it would seem, belong to a golden age long since passed and never to return.

We hear a great deal of talk nowadays about the difficulty of getting and keeping servants. We are told that the old kind of servant has passed out of existence. That is perhaps true. So has the old kind of employer. We have country places aplenty, but it doesn’t seem to be as fashionable as it used to, for a man to have a country home and stay there. The passion for golf, the passion for gadding around, draws owners away from their country places. The gardener has no chance to become an esteemed friend of the family.

There was the gardener on a certain large estate in Massachusetts, to quote one instance. A large staff was employed on this place, and his share of the work consisted in growing roses—garden roses in summer and greenhouse roses in winter. It was the sort of job that is highly prized among professional gardeners. But still he was unhappy and threatened to leave. When asked his reasons, he gave them as follows: “I grow the roses. Every morning I cut big bunches of them and take them down to the house. The butler puts them around. The next morning I do the same thing. I’m simply a machine to grow roses.”

“But if you get paid for that, why resign?” someone protested.

“Because the family is never here to appreciate those roses.”

I heard recently of a remarkably good cook who gave notice for the same reason—the family was rarely home to enjoy her gastronomic creations.

Loyalty, even with gardeners and cooks, is a two-party matter. Success with them depends as much upon the employer as the employed. It is not enough to pay wages regularly. A little bit more must be added in compliment and appreciation, and the compliments must come understandingly.

It is one thing to employ a gardener and quite another to have that man an esteemed friend. He either works for you—or with you. If he works with you, the garden will be yours. If you yourself help turn the earth and set out the seedlings and spray against pest and feed and nurture the plants, then a dozen gardeners cannot take away from you the honest feeling that that garden is yours. This sort of physical cooperation is essential.

While the employer may not be as skilled in garden work as his gardener is, he should at least understand the theory of it and keep in touch with new developments. The lack of this understanding leads to a lot of trouble. And, unfortunately, we find it in many parts of the modern household. We have women expecting servants to do work which they themselves do not understand. Lacking the knowledge, they find their domestics a constant problem and housekeeping a wearying responsibility. Lacking garden knowledge, our new country gentlemen expect absurd miracles of their gardeners. True, the employer should direct the work, but he should also be able to take part in it.

It doesn’t hurt a good employer to be occasionally mistaken for his gardener. One day last summer there descended upon my place a smartly dressed visitor. Being told at the house that I was up working in the garden, she came to the hilltop in all her panoply. My aged Swede and I were both down on all fours weeding a patch of asters. From the rear she could not tell us apart, and she addressed that Swede as, perhaps, he had never been addressed before. Later she scolded me for looking so much like a tramp—or a gardener, but I didn’t bother to explain.

The old gardener has many moods and most of them have been chronicled. He is a philosopher at times, and at times a blusterer; at times a tyrant whose wrath you would never dare by plucking one of his favorite flowers. But I doubt if I have ever seen the gardener pictured in his Sunday clothes.

The best place to see him in this array is at a flower show. His costume is wonderful to behold. It is usually a caricature of all the funny clothes you have ever seen, and it ranges from a Prince Albert, stiff shirt and machine-tied cravat to loud checks and lemon yellow shoes.

It is at flower shows that the gardener has his crowded hour of glory; he hobnobs with other queer-looking gardeners—other strange fellows in strange clothes. To them he exhibits both his flowers and himself. Then, when the show is over, having had his fill of glory, he goes back home, lays aside the gaudy habiliments, and takes up his work again. Like Mordecai, the beggar at the gate, whom the king desired to honor. Having been honored, Mordecai returned again to his beggar’s corner at the gate. It was the only sensible thing to do.

Last year I picked up one of these gardeners at a show. A German, with the drooping moustaches of a walrus. He was dressed in the horsey style of a bookmaker at the races—checks, red tie and gray derby with strange shoes that look as though they were made to accommodate bunion. He was a walking cartoon, and I picked him up because he was so amusing. After a few minutes’ conversation he led me off to an exhibition and pointed out a new delphinium he had created. It was so amusing, and he talked—talked like a man in a vision, like a prophet on a mountain top, like the artist that he was, about flowers and his work with them. He had been working ten years now with delphiniums. He was willing to work more. I soon forgot how funny he looked.

Later he introduced me to his employer. It was evident that he was an esteemed friend of the family.
AN ECONOMICAL PERGOLA

Certain types of gardens can be enhanced by delicacy in the design of the pergolas and shelters. Not necessarily formal gardens, rather places in which the planting is low and the flowers small. Such a pergola is shown here. While it has the appearance of stone, the structure, in reality, is made of wood over which has been applied canvas fastened by water glue. The surface was then sanded. For decorations a composition was used, and for floors, imitation Italian travertine. The pergola has successfully withstood the action of the elements. It is in the garden of Richard A. Rowland, at Rye, N. Y. Dwight James Baum is the architect who designed it.
THE HOUSE IN THE GARDEN

In Its Architecture, Location and Uses the Garden House Has Been
a Mirror of the Modes of Many Centuries

LUTTON ABBOTSWOOD

his cult of the classical, saw the introduction of the miniature Greek temple, often of beautiful proportions, but with the rise of taste for sham Gothic the art of the garden house fell into a decline, of which the final expression was the rustic and flimsy "summer house," of little use but as a temporary shelter.

In recent years, however, many pleasant garden houses have been built, and old ones, long neglected, have been refurnished. It is a revival to be commended, for the garden house may be both useful and beautiful, and its planning and placing afford great scope for the exercise of taste. As a sitting-room it offers the delightful sense of being at the same time indoors and out-of-doors, not to be obtained in the house itself even with the largest and most open of windows, while it makes an ideal refuge for concentrated work, quiet study, or the more intimate forms of conversation. How many a French novelist has chosen the garden house as the aptest setting for a conversation galante!

Even when it is not wanted for these purposes, it is useful as a storehouse for tools or such accessories of recreation as tennis nets and croquet sets. There is no reason why, because its functions are humble, a building should be unsightly; and the external appearance of a tool-house, at any rate, if it is at all con-

The octagonal shape was a favorite form among builders of garden houses in the past. Its proportions are pleasing and, when executed in stone, as in this instance, it becomes an important garden feature.
The Ira house in the garden of U. S. Shonnard, Oyster Bay, L. I., is built of brick and slate. It contains a large fireplace. Donn Barber, architect.

A corner garden house, designed by J. C. N. Forester, is planned as an elaboration of the stucco and tile treatment of the surrounding garden walls.

The Palladian motif has been applied to this summer house in the garden of Mrs. H. W. Croft, Greenwich, Ct. It is paneled inside and furnished with benches.

House & Garden

The sea house in the garden of H. S. Shonnard, Oyster Bay, L. I., is built of brick and slate. It contains a large fireplace. Donn Barber, architect.

Perret
June, 1922

On the country place of H. S. Shonnard, at Oyster Bay, L. I., the tea house is a brick structure, roofed with slate and elaborated with stone inside. It is really a big inglenook, for a huge fireplace is located at the rear and there are comfortable settles on each side.

Of quite a different type is the garden house in the garden of Mrs. H. W. Croft, at Greenwich, Ct. Here is a suggestion of the Palladian motif executed in wood painted white and with lattice filling the pediment. The inside is panelled and there is a seat directly opposite the head of the stone stairs. An interesting detail of the paneling shows a repetition of the entrance arch motif set into the rear wall.

The view that a garden house commands is quite important, but equally important is the manner in which that view is framed. The openings should not be so large that the landscape overpowers one. Lattice can give the same relief to the view from a summer house that small pane windows do to a view from inside a residence. This fact is beautifully illustrated by the glimpse of the summer house on the lower terrace of John D. Rockefeller's estate at Pocantico Hills, New York.

A fourth type is the octagonal design by Delano & Aldrich for the garden of Mrs. Bertram Work at Oyster Bay, L. I. The house stands in a corner of the garden wall and is reached by a flight of steps. The level of the floor is raised sufficiently above the hedge to afford an unobstructed command of the garden. It is a structure simple in design and erection, having rough stucco walls and a slate roof. Such a design might be executed in plain wood with a shingle roof or the walls might be treated with canvas, glue and sand as Mr. Baum treated the pergola house shown on page 38.

The sketches represent designs by M. Forestier, the eminent French landscape architect, and are from his recent book, "Jardins". The first is an interesting projection for a two story summer house, reached by outside stairs. The second shows a corner garden house to be erected at the top of a long flight of stairs leading from a lower garden terrace. In their elements no less than in their details, all three offer many suggestions which we in America can well adopt in our own gardens.
Italian architecture of the 18th Century, modified to meet our living requirements, has been used in the design of the house. The Italian richness of color is also employed—a light buff stucco with cornices and columns of limestone tint, Venetian grills and blinds and shutters turquoise blue, and peacock blue roof.

The first floor is unusual, with a library located in the middle of the house off the sun room, a small curved stairs and guest rooms and service in the wings.

**THE HOME OF ERNEST P. DAVIES, ROSLYN, L. I.**

W. LAURENCE BOTTOMLEY, Architects

The owner's rooms are upstairs, three bedrooms with baths and a fourth chamber. Abundant light and ventilation are available, and maximum space.
Wrought iron, classical urns, Doric columns and circular medallions have been effectively used in the treatment of the entrance portico. A planting of evergreens gives the house comfortable relation to its site.

The view, above, of the front façade shows, in addition to the portico, several uncommon features, especially the wide cornice, the recessed second story and the parapet of the wings broken by decorative openings.

A courtyard is created by the two wings. One steps off the middle sun porch on to a brick paved terrace. There is also an enclosed porch at the end of the guest wing. The middle door leads off the drawing room.
WHEN the June sun gilds the dooryard or the walled garden, the owner of a country house becomes a miniature Caesar. The whole budding, leafing world as far as his eye can reach seems to be his. Over Appenines of wondourment in a litter of his dreams he journeys into summer, although his earthly kingdom may hold only a few colorful perennials and a bed of shy cabbages. Birds and bees play rotes and lyres, and the gist of it all is a very old song from the Songs of Solomon: “Awake O North wind; and come thou South; blow upon my garden that the spices thereof may flow out. Let my beloved come into his garden and eat his pleasant fruits.” When the daughter of Jerusalem in the dwelling place cries out in another strain, not quite so melodious “Haste thee inside for the fish is vanishing in the pan,” or “the roast ox is growing leathery” he tries to lure her from the inner darkness. “Let us eat in the garden” is his plaint, and if she is diffident and there is no garden structure in which to eat, he adds a famous couplet from old Omar which has brought reluctant ones out of doors in all ages.

The wanderer in southern Europe who follows an itinerary of old gardens comes sometimes upon little garden houses, pavilions, gazebos and temples of love with weather-beaten amorini as the decoration. Here lovely ladies and ardent swains fled from the stately dining room in the great house to share a delicate repast with Mother Nature. Today the gentle decay of the places—their faint odor of ancient dampness, makes us forget their period of youth before surrounding trees and shrubs had woven about them a leafy covering. The statue whose smiling marble lips have grown sardonic from the rainfall of hundreds of winters seems to hint that Philomonte or Chole came alone sometimes. The lover had gone to war, or some other charmer; and tempting viands amidst blossoming things might do much to still spring’s desolate solitude. But the mocking Eros does not know all. When the temple was built it was the happy fashion to eat out of doors—a custom of the wise since the Garden of Eden. We find it flowering in the Renaissance, the candles of Ganzagas on their silken table cloths trying to outdo the very stars of Mantua and later, 17th and 18th Century votaries of pleasure wove it as a sweet interlude into days and nights or garish enchantments. One loves a humanized Marie Antoinette as she spreads her own churned buttermilk, and a windowed hou.se at the Hameau of the collegial church. After a century and a half of the sun and rain that plays about a garden house they seem eager for another century of usage. An establishment in New York that copies beautiful and useful antiques has reproduced these chairs and they would be suitable for any garden house that has an 18th-Century feeling. A circular marble topped table, mounted on an iron column, is an excellent permanency in the garden room. A second shelf of iron arranged about 5" below the table top will be found convenient for the course that has not been served, and later, eating utensils that are soiled. A copy of an 18th Century wall fountain in lead or tin can be made of service or left as a beautiful or amusing wall decoration. When it comes to eating utensils, the crockery in lead or tin can be made of service or left as a beautiful or amusing wall decoration. When it comes to eating utensils, the crockery in lead or tin can be made of service or left as a beautiful or amusing wall decoration.
ITALIAN GARDEN ARCHITECTURE

Formality in garden design can be traced back to the Italian. The parterre, the balustraded terraces, the flights of steps from one grade to another, the architectural character of the pergola, outbuildings and summerhouses all originally appeared in Italy. There was no attempt, as today, to make a garden after Nature. The early Italians considered a garden something that man made, and consequently, laid it out and adorned it in the formal manner of the times. An example of such architectural formality is found in this garden in Tuscany, the garden of the Villa Passetini-Bartolommei, near Florence. Other views of it are shown on pages 64 and 65.
WHO has not been surprised into a breathless, "What's that?" by a field of pure blue chicory glimpsed from a hurrying motor car? As likely as not you have insisted upon your husband's stopping the car while you descended to discover what produced that lovely blue veil, and to dig up a few plants to take home for the garden. Then, alas, you had to agree with his superior masculine comment; it was only another weed, for as you approached the field, the blue veil disintegrated, and you found very frail, fringy flowers on the straggliest of stems. Could you have transplanted the contents of the whole field to the meadow beyond your west window, the azure veil would have been yours each August, but chicory blue is indeed a beauty that vanishes with the grasping; it is meant to hang suspended in the middle ground, while the opaque hue and more substantial form of some other flower fills the front of the picture.

Color and form are the two attributes which determine the position a flower may occupy to best advantage in the landscape, and of these, color is perhaps the first in importance. A color which is to be seen from a distance must have carrying-power, and carrying-power is dependent upon intensity and value, and to some extent upon hue. For example, certain glowing bits of color, seen from far off are familiar to all of us—the flash of cardinal flower, the crystal blue of Delphinium bello-donna, the fiery vermilion of scarlet sage; the last of these is the strongest for it is possible to find greater intensity in red than in any other color, this being the reason for its universal use as a danger signal.

On the other hand, it is impossible to produce a very intense yellow; the attempts to strengthen it invariably resulting in a graying down of the color or in changing it to orange.

Flowers for foreground planting should have a pleasing habit of growth, as here below the wall.
Ruth Dean, landscape architect

The neatness of phlox is effective for either near or distant planting and can be successfully massed. Ruth Dean, landscape architect
In this iris garden one can see how the lighter values stand out. Marian C. Coffin, landscape architect

by the right addition of red.

The hues of all of these flowers are of light to middle value and of great clearness, that is to say, they are not dark colors, and they are almost free from any gray. The more a color is grayed the lower its intensity, the poorer its carrying quality, and the more quickly it sinks into the atmosphere. Take for example sea lavender,—a flower with as little carrying power as it is possible to name; it is a lovely delicate cloud of blossoms containing so much gray as to fade into the atmosphere and become practically invisible at a few yards' distance. This, I am bound to admit, is partly due to the finely divided flower, but gypsophila, or "baby's breath," has an almost equally fine flower, and is of an even lighter value, being white, and yet, on account of its greater intensity or stronger chroma—as Munsell calls it in his very illuminating "Color Notation,"—carries considerably further.

Mere size is not sufficient to make a flower's presence felt; larger flowers which fade into the background as readily as sea lavender, are

Stoke's aster, allium, certain of the scabiousas. These are grayed to the point where their color vibrations carry only slightly further than the smaller sea lavender.

This attribute of color intensity is the most important one in fixing the distance at which a flower may be appreciated. This point cannot be better illustrated than by taking two flowers of the same hue and size and of different intensities such as the lovely wraith-like Narcissus "White Lady" with its delicate petals and lemon centre, and the Narcissus Poetarum. Against a background of shrubbery "White Lady" is like a melting snowflake on a wet pavement, whereas her sister, Narcissus Poetarum, flashes intensely white petals like a solid blanket of snow. The intensity of "White Lady" is much weaker, and she must be seen nearly to have her loveliness appreciated, but Poetarum will stand out at a distance, almost as firmly as at one's feet.

Next in importance to color intensity or chroma in fixing the carrying power of a color (Continued on page 96)
Flowers are not enough in the garden. Nor trees. Nor the wide reaches of a lawn. It must have birds. Encourage their presence by providing a bird bath. The preferable style consists of a shallow basin supported by a tall pedestal up which a cat cannot climb. Bath by courtesy of the Galloway Terra Cotta Co.

More and more we are realizing the decorative value of oil jars. They come in reproductions of authentic designs and can be placed for accents along terraces or at the terminus of a little walk, backed by vine covered trellis. Trellis by courtesy of the Hartman Sanders Co., oil jar by the Howard Studios.

SUNDIALS AND GARDEN BIRD BATHS

Good design is an essential in garden furniture. Here the gate in the hedge is a simple arch above an open lattice gate, and the seat a suitable companion for it. Seat and gate by Hartman Sanders Co., bird bath by Howard Studios.
A pergola with flanking garden houses makes an excellent terminus for some gardens. Good architectural lines consistent with the house are essential. Pergola by Hartman Sanders Co., jar by the Galloway Terra Cotta Co., wrought iron sconce, the Howard Studios.

There are three types of sundials used in garden decoration; the horizontal with a raised gnomon, such as that shown on the opposite side of the page, the perpendicular, displayed above, and the spherical, consisting of a combination of brass hoops on a pedestal.

In England and on the Continent one often finds perpendicular sundials set in the wall of the house overlooking a garden. While doubtless accurate in the keeping of sun time, in this era of daylight saving such sundials now serve merely a decorative purpose.

While most of the mottoes carved on sundials are banal—that life is short, time fleeting, and the loveliest things always the most transient—yet a sundial without a motto seems incomplete. On this old English design the motto reads: “Come Light Visit Me”
O be strictly accurate, the so-called Palladian motif is not Palladian at all. Palladio did not invent it, nor was he the first to use it. Neither did he employ it so extensively in his compositions that there is any particular reason why it should be inseparably associated with his name. However, the usage has gradually grown up and become strongly entrenched through centuries of application. Having made our bow to the cause of historical accuracy, it is now in order to define what the so-called Palladian motif is.

The Palladian motif consists of a triple division of openings, of which the central and wider one is arched, while the two flanking or side lights are narrower and have straight tops surmounted by lintels. In its full form the Palladian motif has four pillars or pilasters, with their appropriate capitals, separating the three openings. The pillars or pilasters likewise support an entablature, which traverses the side openings but is interrupted by the central opening whose arched top rises considerably higher than the crown mold of the entablature. Usually the half circle of the arch springs on a line with the top of the entablature.

The Palladian motif may be employed in the treatment of either doors or windows, but so far as architectural practice in America is concerned it is almost wholly applied to the latter. Its appropriateness, of course, is confined to architecture of Classic design.

The Palladian window imparts emphasis, enrichment and balance. Its presence is also intended to convey an appreciable note of elegance and formality. There are various ways in which these ends may be attained and the accompanying illustrations will serve to convey some conception of the diversities of treatment which may be accorded it with advantage in order to produce a telling effect.

The customary practice in America, in the 18th and early 19th Centuries, was to make the Palladian window a central or even a dominating feature, as may be seen in the case of the Chase house at Annapolis, or else to use two Palladian windows, one at each end of a façade, as flanking features and to balance an imposing central entrance. In England, on the other hand, are to be found numerous instances of a much freer use. Both methods are quite justifiable so long as the ensemble is harmonious and no fundamental principles of composition are violated. It may be of interest to note that no less a person than Sir Christopher Wren did not hesitate to place one Palladian window directly over another where he wished to produce a certain kind of emphasis and where the interior requirements likewise were best served by such an expedient.

The Palladian window on the garden front of the Chase House, an especially engaging piece of composition, derives not a little of its charm from the broad unbroken wall surfaces by which it is surrounded. Every refinement of detail is thus displayed at its full value without any distracting influences to draw the eye elsewhere.

Nothing is more disastrous to a Palladian window than crowding, especially if it contains much elaboration of detail. At Crawley House, in Bedfordshire, the four Palladian windows are fortunately separated by ample wall spaces and the design is reduced to the lowest terms, so to speak, all but the most essential items being suppressed.

The method of countersinking the triple window within a framing arch, which one often sees, not only invites attention to the details of the window itself but moreover ensures contrast of planes and the ever-changing play of light and shadow, subtle but potent agencies of enhancement.

One of the most ingenious interpretations of the Palladian motif is seen in the street front of the Friends' School at York, a piece of 18th Century work by John Carr. Without actually using the Palladian motif, he has contrived to produce its effect by introducing an arched door within the portico on the first floor and by using an arched pediment above the central light of the window, although in neither case is the entablature interrupted, as it would be according to the strict definition of the Palladian motif.

Amongst the purely informal and domestic adaptations of the Palladian window:

A rather free and delicate interpretation of the Palladian motif is found in this house at Chipping Norton.
In the doorway, the two flanking bay windows and the window above the door of this house at Pershore, Worcestershire, three different Palladian interpretations are used.

Proper glazing is a requisite of Palladian windows. Compare the modern large and ugly panes in the first floor with the small panes on the second.

An ingenious application of the Palladian motif to a bay window is seen in this house at Buckingham. Additional flanking lights make the window a five-light composition.

A strictly Palladian interpretation is found on the second floor of this 18th Century house, and, on the third, a Chinese version, with peaked middle lights.

The rear of Crawley House, Bedfordshire, contains four symmetrically placed Palladian windows, which, while unusual from the outside, give the interiors much light.
Along the entrance drive are broad borders of iris, with wide plantings of tulips behind, and back of the tulips, massed peonies. The varieties are carefully selected for color harmonies.

On each side of the canal that runs down the middle of the vegetable garden are planted named varieties of a hundred sorts. This shows how attractive a vegetable garden can be made.
The collage and Darwin tulips are far different in effect from the old-fashioned bedding types. They have a certain grace and airiness that puts them in admirable accord with the sunlit charm of May.

Tulips may be planted formally or in irregular drifts or shoals. The formal planting requires a formal setting; for such a country house as this an informal scattering is desirable.

TULIPS IN THE GARDEN OF
H. G. HASKELL, AT COSSART, PA.
From a shaded corner of one of the intermediate terraces, with its cool fountain and marble figure glistening in the sun, its fragrant orange and lemon trees, set in huge pots, one has a view over the rolling Tuscan landscape, across the villa-studded countryside with its wealth of contrasting colors to the skyline lost in haze.

A TERRACED GARDEN IN TUSCANY

The Garden of the Villa Passerini-Bartolommei near Florence Is a Succession of Varying Levels

ROBERT M. CARRERE and MORGAN HEISKELL

THE old Italian masters of the landscaping art knew well the value of varying levels in a garden. Broken slopes and steep hillsides only challenged their ingenuity. They terraced the slopes, supporting them with retaining walls and capped them with balustrades. Even in the fairly flat districts they planned their gardens in such a manner as to avoid the monotony of one vast, unbroken level space.

There were distinct artistic reasons for creating these different levels. With them it was possible for a garden to afford delightful contrasts; passing from one level to another has all the element of surprise and changing interest that one gets in passing from one room to another in a vast and beautiful house. Moreover, the terraces provided the requisite level spaces for layouts of formal character, and the retaining walls, stairs and other garden structures afforded opportunity for the creation of decorative garden architecture.

The gardeners of this time usually showed the influence of Classicism in their designs. There was no effort made to copy the confusion and tangled disorder of Nature. In fact, their ideal for a garden was quite the opposite. This formal, architectural character of the gardens that remain stands in sharp contrast with the naturalistic planting that has become so popular in England and America today. The Italian garden was an extension of the house. The same sort of architecture served for both, thus giving harmonious unity to the entire development. As in all countries where one can live comfortably out of doors, the Italian garden is

The house is typical of the moderate size Tuscan villa built into the terraces on the hillside of the Arcetri. One approaches it through this avenue of potted trees.
Each level gives opportunity for the development of a formal garden. On this terrace there are broad, box-edged walks with potted trees for accent.

These two facts—the varying levels and the architecture—must be understood if one is to grasp the great beauty of the terraced Tuscany garden shown here, the garden of the Villa Paserini-Bartolommei, near Florence.

The very nature of the countryside in the beautiful valley of the Arno around Florence abounds in natural garden sites. On the abrupt slopes of Arcetri, with its unsurpassed view over the historic city that has been the birthplace of so much of the world's romance and art, Nature has to be aided by the construction of terraces, without which there would not be sufficient level space to satisfy the Italians' love of formal gardens. The entire hillside is a succession of terraces formed by high retaining walls that not only hold back the soil but form a decorative support for festoons of flowering vines, climbing roses and fruit trees espaliered in a variety of amazing patterns.

There is always a considerable difference of level between these terraces, necessitated by the steepness of the hillside and the desire to have an unobstructed view over the trees of the terrace below. This difference in levels has been one of the chief causes for the successful development of the garden stairways in Italy. There are, of course, the magnificent triumphs of architectural and sculptural skill in the show gardens of the great villas that every one knows, with their statues, cascades and complicated plans, but even in the smaller and more modest gardens there are always to be found stairways of surprising individuality and charm.
Cray-green ivy leaves on a pale gray and white background makes an ideal paper for a hall. 75c a roll.

Quaint Chinese figures in deep rose and blue are decorative against a ground of pale buff. $2 a roll.

A room needs very little else in the way of decoration if the walls are hung with so attractive a scenic paper as the Isola Bella that tells its tropical story in a series of enchanting colors. In the room above, the woodwork is painted pale green. Gertrude Brooks was the decorator.

The paper above is very delicate and would be charming in a bedroom. Pale blue or pink ground, design in white $2.

A border like an old valance comes in blue, green or lavender. 50c a yard.

Border in lavender, pink or green, 35c a yd. Bowknots, 35c each.

An early Victorian paper has a tufted gray background with blue cord and tassel design $3.

The stiff diamond pattern above is very quaint and effective. In white on a rose or soft green ground, $1 a roll.

OLD-FASHIONED WALL PAPERS

Like an old valentine is this paper with its waving gray lines, stripes in blue or green and flowers in pale nasturtium shades, $2.

Very lovely for a country house bedroom is this old time paper that has a buff ground, blue stripes and deep pink flowers, $1.50.

Which may be purchased through the House & Garden Shopping Service, 19 West 44th Street, New York City.

Wall paper rolls contain eight yards.
The austerity of the early Italian style has been reproduced in the living room in the New York apartment of Robert B. Bowler. Rough yellow plaster walls, wide oak floor boards, a cupboard bookcase, wrought iron and pieces of the period are elements in the creation of this room.

For contrast, is this French living room in the New York apartment of Mrs. Fal de Saint Phalle. Pastel shades are used—ivory paneled walls, hangings of rose faille, a chaise longue in pale green safeta, chairs in petit point, sofa in yellow brocade and a carpet of pale gray.
The solarium on the roof of the New York home of Thomas W. Lamont has been decorated and furnished in a manner that is constantly reminiscent of the country. At one side is a fireplace made of three rough graystone slabs. A brick chair rail and baseboard run around the room, enclosing a low plain plaster wainscot. The floor is of flat flagstones covered with fibre rugs. Reed furniture, Lanchashire chairs and a gate-leg table, chosen and arranged for comfort, are disposed about the room. Walker & Gillette, architects.

The great beauty of the room lies in the mural decorations by Warren Davis. On a pale gold background have been painted birch trees and foliage in greens, violets and blues. The delicate dancing figures that give the room a constant air of spring, are in these same soft tones. The rest of the room harmonises with this color scheme. The reed furniture, for example, is pale green upholstered in maroon taffeta shot with gold. The bricks of the chair rail and baseboard are stained violet, through which the red shows.
As this room is often used for breakfast and luncheon, even for business conferences, there is a table at one end, a convenient gate-leg table with rush-bottom, Lancashire chairs accompanying it. The dark wood of these pieces makes a contrasting note with the other colors in the room. To harmonize with the murals the woodwork has been painted a darker shade of gold than the walls. The grill over the radiator is painted dull green and the corn colored silk curtains filter the light to a golden glow. Plants stand on the radiator covers.

The color effects of the room have been carefully studied by the artist, and nothing is permitted to disorganize the scheme. The light from outside, at some times of the day, is reflected from surrounding brick walls and comes into the room a distinct violet, which tones perfectly with the violets in the mural decorations. Mirror glass in the small side window of one of the corners repeats the painting on the adjoining wall. The simplicity of the furnishing also helps to give the murals the prominence they deserve.
A SMALL COUNTRY HOUSE IN THE COTSWOLDS

This 17th Century Design, Influenced by Classical Traditions Which Were Then New, Is Now Remodeled and Enlarged in the Ancient Style

H. D. EBERLEIN

WYCHWOOD, at Broadway in Worcestershire, presents us with the spectacle of an old house, interesting in its own right to begin with, restored and enlarged in a sympathetic and consistent manner so that its pristine interest is enhanced by the transformation. It was built during the second half of the 17th Century when the fame of Inigo Jones and Sir Christopher Wren had penetrated to the Cotswolds and impressed the imagination of the local artisan or of his employer.

The house as it stood before restoration consisted of the rectangular mass, now constituting the main portion of the road front, and an ell projection back of it. The other parts were added when the dwelling was restored a year or two ago.

Wychwood, like all its fellows, was built of the native Cotswold stone and roofed with stone tiles. There compliance with the long-established local tradition ended, at least so far as the road front was concerned. Bent on pursuing the new mode, the builder carried the old Gothic dripstone molding all the way across the front as a belt course between the first and second floors. He also placed it in such a position that it gave the second floor externally a fictitious appearance of height which, in reality, it did not possess inside, thereby emulating the Italian notion of the basement with the piano nobile above. It is illuminating to follow the process of Classic adaptation employed by this untutored local builder.

Still intent upon the new style influence, he spaced his windows symmetrically, abandoning the old range of mullioned casements and using taller, narrower openings divided vertically by one stone mullion, an approximation to the croisées fenêtres type that had already been used in a great house not many miles distant. Next he added dormers which he topped with the characteristic and time-honored Cotswold ball finial.

When this native builder came to the sides and back he reverted without any compunction to the traditional mullioned range of casements and used roughly squared rubble masonry of the local sort. The mixture, as it turned out, was not in the least incongruous. Front and posterior parts harmonized admirably.

In the south block, which is entirely of new construction and contains a living room occupying the whole first floor, the windows of the upper part are of the same sort as those exhibited by the old road front while the first floor windows are croisées fenêtres, thus fulfilling the original builder’s ideal nearly three hundred years after his death. The mullions and architraves are, of course, of Cotswold stone. In the first floor windows the glass in the divisions above the transoms is stationary; all the divisions below the transoms have casements which open wide.

The living room in the new wing is furnished with English pieces of the 17th and 18th Centuries. The walls are of white plaster.

In the dining room, the oak refectory table, dresser and 17th Century spindle back chairs are in keeping with the Cotswold fireplace.

The fireplace in the living room is made from native Cotswold limestone in a traditional pattern, with a raised hearth and iron fire-back.
From the garden front can be seen the new addition. To the right is a view of the west end with its espalier pear tree.

The service wing is added to the east of the main portion of the old house and is so contrived that while it is readily accessible for service, it is an unobtrusive member of the composition. From the road its aspect is one of modest charm.

One of the most agreeable features of Wychwood is the ample living room, already mentioned as occupying the whole ground floor of the south block, abundantly lighted by large windows east, west and south, those on the south commanding the entire garden and the orchard and hills beyond. On the north side of the room, directly opposite the bow window is the fireplace, of a simple but striking traditional Cotswold design.

In the process of remodeling and enlargement the architect, Mr. Andrew N. Prentice, has been careful of the old fabric and perfectly sane in the spirit of his amplification. While following the precedents afforded him by the nucleus upon which he had to work, he has succeeded in creating a thoroughly comfortable and convenient modern house and has achieved, by logical and straightforward methods, that quality of charm for which the old structure was conspicuous.

The road front is the old part of the house, built in the 17th Century, with many features that were then new.
A SWIMMING POOL IN A CITY GARDEN

The swimming pool of Frederick J. Flach, at Cincinnati, Ohio, is built directly off the rear porch steps, the walls of the house forming one side of the enclosure. Tuttle & Lee, architects; William Pitkin, Jr. and Stewart H. Mott, landscape architects.

Walls of native stone enclose the pool, the corners being elaborately sheltered between which is a pergola. Vines on the walls and pillars and waterside plants at the pool edge soften the stone work with the colorful relief of foliage and flowers.
THE ROCK GARDEN OF AN AMATEUR
RICHARD ROTHE

The steadily growing desire among home owners for sharing in the work of elevating the standard of their outdoor surroundings seems in many respects to be a most propitious sign of a healthy advance. Rock gardening especially proves a field alluringly rich in opportunities for the exercise of personal ingenuity. However, rock gardening selected as a hobby by a mentally hard-working home owner does not spell immediate relaxation. I have seen it mounted by business men, financiers, scientists and professional people and, at the beginning, it usually proved as capricious as a wild broncho. As a rule, it takes a nature lover endowed with subtlety of vision and originality of ideas to tame it, but once broken, it is apt to carry its master into a real wonderland of joy.

Much depends upon whether we have been able to conceive the holiday spirit of nature, when she is playing along the mountain slopes or down in the rocky ravine with its gushing springs and streams. Moreover, it proves of the utmost advantage if we study her various moods when she inaugurates her festive seasons upon wide ledgy plateaux in the invigorating atmosphere of high altitudes.

A naturally undulating site traversed by a little stream made possible the development of water features that add immeasurably to the charm and atmosphere of the garden.

Witnessing the indescribable radiance of her floral carnivals right at the beginning of the growing period strengthens our faculty of feeling what combinations of trees, shrubs and flowering herbs apply best in producing desired effects.

Rock garden building leads to concentration of thoughts and energies. We begin our work with a clear idea in regard to character and rough outline of the whole and soon learn to realize the importance of certain details; for instance, stair work, as a means to heighten the beauty of the total picture. Engaging in rockery building as a pastime never leaves a true devotee without some new and enticing detail problems in his mind.

As a matter of course, results growing out of amateur activity are bound to differ widely. Studying the pictures taken in the rock garden of William H. Llewwellyn in Phoenixville, Pa., enables us to anticipate happy surprises for the future. They represent an object lesson of what a connoisseur of the countryside is apt to accomplish today when he becomes his own landscape architect.

Mr. Llewwellyn had the advantage of an undulating ground formation to work with. For (Continued on page 96)
This old world offers many pleasant places on which to eat. One may fare sumptuously off pressed duck on the Quai de la Tournelle or dine riotously with Bohemians in Soho. But there's much to be said for dining under one's own vine through a lazy, late summer noon. The air is rich with the heavy odor of purpling grapes and the aroma of the earth baked in the sun. Across the table lies a pattern of light and shade. One is fortunate, indeed, to have such a reposeful spot for dining.

With a little ingenuity a shady spot can be created even in a city garden. Here a rear porch made possible this lower terrace. The foundations are latticed and in the farther wall two openings are closed with grills. This is in the garden of Mrs. M. L. Marsh at Chicago.
Every garden should have its chapel of ease, where one can sit down and sit still. It may be an arched terrace, paved with broad flagstones, a part of the house such as this. It should be furnished with lounging chairs and well-pilledow couches that are conducive to repose and it should command such a view as will please the eye and give out the sense of peace.

The best sort of view is a vista of a garden and wooded hills. Between the cool shadows of the spot in which one sits and the stretch of lawn and flower beds outside, between the immediate color and the distant massing of foliage, lies a world of refreshing contrasts. These two views are from the home of Philip B. Henry, Scarborough, N. Y. Bertram G. Goodhue, architect.
Mr. Chanler's screens are highly decorative and deserve to be given prominence in the furnishing of a room. This design has a sweeping movement that commands instant attention.

SCREENS BY

ROB'T W. CHANLER

Courtesy of the
KINGORE GALLERIES

"Before the Wind" is the title of the four-fold screen shown below—a fleet of picturesque galleons in glowing colors driven before the wind through a brilliant, choppy sea.

A study in cream and brown is this screen. A forest foreground filled with bristling porcupines is in fantastic contrast with the moonlit tranquil background of canoes and lovers.

The fantasy of Alice in Wonderland and the exotic colors of a jungle seem to be combined in the screen below. The outstanding features are two snow-white, melancholy cranes.
**THE GARDEN PESTS AS THEY APPEAR**

<table>
<thead>
<tr>
<th>INSECT OR DISEASE</th>
<th>IDENTIFICATION</th>
<th>WHEN TO LOOK FOR</th>
<th>ATTACKS</th>
<th>CONTROL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cut-worms</td>
<td>Single, fat, brown soil worm, 1/4 to 2&quot; long with stripes along side; works underground.</td>
<td>Through season, especially April to June, cutting off young plants and seedlings.</td>
<td>Poison bait before planting, and give plants protection with 4&quot; paper bands 1&quot; in side; also hand picking.</td>
<td>Contact spray, two or three applications, at intervals, between plants.</td>
</tr>
<tr>
<td>Aphids or &quot;plant louse&quot;</td>
<td>Small, green or black, soft-bodied flies about 1/5&quot; long, congregating in large masses.</td>
<td>Throughout season, especially on half-grown plants and in fall weather on under side of leaves.</td>
<td>Sprays or dusts may be used; or Fungus green; hand picked from egg-plant.</td>
<td>Spray with nicotine or kerosene emulsion for young, which resemble lice on under sides of leaves; tobacco dust as a repellent.</td>
</tr>
<tr>
<td>Potato beetle</td>
<td>Common striped beetle or bug 5/8&quot; long.</td>
<td>Throughout May and June; leaves punctured.</td>
<td>Fungus control and re-spraying as needed.</td>
<td>Thorough, careful spraying with kerosene or nicotine.</td>
</tr>
<tr>
<td>Flea beetle</td>
<td>Minute, black, active jumping beetle.</td>
<td>Through season, especially on new growth.</td>
<td>Protect cabbage group with tarred paper gutters; poisonous compound.</td>
<td>Strong arsenate of lead spray; knock bugs in early morning.</td>
</tr>
<tr>
<td>White grub</td>
<td>Large, soft, white, repulsive grub or worm, feeding on roots under ground; 1 1/2 to 3&quot; long.</td>
<td>Throughout season; first indication wilting of plants without apparent cause.</td>
<td>Keep garden surroundings clean; burn old stools, weeds, etc., in fall.</td>
<td>Arsenical of lead with Bordeaux mixture. Screen young plants and spray with tobacco dust.</td>
</tr>
<tr>
<td>Root maggot</td>
<td>Small white worm or grub 1/4 to 1/2&quot; long.</td>
<td>Through season; first indication wilting of plants without apparent cause.</td>
<td>Find and burn stools in fall. Carefully remove, or burn infested parts of plants where possible.</td>
<td>Spray with Bordeaux every week or ten days.</td>
</tr>
<tr>
<td>Corn borer</td>
<td>White, smooth borer; 1&quot; to 1 1/2&quot; long. Second brood in early fall.</td>
<td>Through season; especially after sudden cool weather.</td>
<td>Careful spray forcibly applied; kerosene emulsion.</td>
<td>Arsenical of lead; hand picking into can or pail, or using aspirator.</td>
</tr>
<tr>
<td>Cucumber beetle</td>
<td>Small, very active, black and yellow striped beetle, 1/4 to 1/2&quot; long.</td>
<td>Throughout season; through season, especially as vines begin to run, and in dry weather.</td>
<td>Avoid working when foliage is wet; successive spraying is necessary.</td>
<td>Spray with nicotine or kerosene emulsion.</td>
</tr>
<tr>
<td>Squash buggies (&quot;milk&quot; bug)</td>
<td>Dull black, flat, very active beetle with long legs; 1/4 to 1/2&quot; long when disturbed; 1/16 to 1/8&quot; long.</td>
<td>Usually appears first late in June, remaining until cold weather.</td>
<td>Keep garden surroundings clean; burn old stalks, leaves and stems.</td>
<td>Bordeaux mixture and arsenate of lead; tobacco dust as a repellent.</td>
</tr>
<tr>
<td>White fly</td>
<td>Minute, tan, white winged fly, congregating in large numbers under disturbed leaves.</td>
<td>Through season; especially on legumes.</td>
<td>Fungus control and re-spraying as needed.</td>
<td>Thorough, careful spraying with kerosene or nicotine.</td>
</tr>
<tr>
<td>Squash bug</td>
<td>Very minute, cause yellowish appearance or twigs or leaves.</td>
<td>Through season; especially on legumes.</td>
<td>Fungus control and re-spraying as needed.</td>
<td>Thorough, careful spraying with kerosene or nicotine.</td>
</tr>
<tr>
<td>Onion thrip</td>
<td>Minute, active, whitish insect barely visible to the naked eye, lodging especially down between leaves.</td>
<td>Throughout season; first indication wilting of plants without apparent cause.</td>
<td>Find and burn stools in fall. Carefully remove, or burn infested parts of plants where possible.</td>
<td>Spray with Bordeaux every week or ten days.</td>
</tr>
<tr>
<td>Tomato worm</td>
<td>Large, white, sometimes very numerous in certain localities.</td>
<td>Throughout season, especially on tomatoes.</td>
<td>Cuckoo spit on leaves, stems, or fruit turning brown and drying up.</td>
<td>Spray with nicotine or kerosene emulsion.</td>
</tr>
<tr>
<td>Rust</td>
<td>Minute, 1/4&quot; or so long.</td>
<td>Through season, especially June to August; onion tops twisted and curled, prematurely yellow.</td>
<td>Rust spots in leaves, stems, or fruit turning brown and drying up.</td>
<td>Spray with Bordeaux every week or ten days.</td>
</tr>
<tr>
<td>Mosaic virus</td>
<td>Minute, 1/4&quot; or so long.</td>
<td>From mid-season to early fall; strips of leaves usually conspicuous in young growth.</td>
<td>Rust spots in leaves, stems, or fruit turning brown and drying up.</td>
<td>Spray with Bordeaux every week or ten days.</td>
</tr>
<tr>
<td>Mildew</td>
<td>Whitish coating or spotting of the foliage.</td>
<td>Throughout season, especially on tomatoes.</td>
<td>Rust spots in leaves, stems, or fruit turning brown and drying up.</td>
<td>Spray with Bordeaux every week or ten days.</td>
</tr>
<tr>
<td>Blight</td>
<td>Usually a yellowing of spotting of the foliage.</td>
<td>Throughout season, especially on tomatoes.</td>
<td>Rust spots in leaves, stems, or fruit turning brown and drying up.</td>
<td>Spray with Bordeaux every week or ten days.</td>
</tr>
<tr>
<td>Leaf spot or rot</td>
<td>Minute, 1/4&quot; or so long.</td>
<td>Throughout season; multiples with exceptional rapidity.</td>
<td>Rust spots in leaves, stems, or fruit turning brown and drying up.</td>
<td>Spray with Bordeaux every week or ten days.</td>
</tr>
<tr>
<td><strong>Scale, San Jose</strong></td>
<td>Minute, yellowish, sucking insects covered with white shell or scale, the size of a pin-head; presence indicated by a shiny appearance of bark, and minute red rimmed spots on fruit.</td>
<td>Throughout season, especially through season, especially on legumes.</td>
<td>Rust spots in leaves, stems, or fruit turning brown and drying up.</td>
<td>Spray with Bordeaux every week or ten days.</td>
</tr>
<tr>
<td>Scale, oyster shell</td>
<td>Dark brown scale like elongated oval shell about 1/8&quot; in length, the young giving off a whitish line.</td>
<td>Throughout season; through season; especially as vines begin to run, and in dry weather.</td>
<td>Rust spots in leaves, stems, or fruit turning brown and drying up.</td>
<td>Spray with Bordeaux every week or ten days.</td>
</tr>
<tr>
<td>Apple aphids</td>
<td>Bright green aphids.</td>
<td>Throughout season; especially on legumes.</td>
<td>Rust spots in leaves, stems, or fruit turning brown and drying up.</td>
<td>Spray with Bordeaux every week or ten days.</td>
</tr>
<tr>
<td>Cabbage aphids</td>
<td>Causes dark colored spots on leaves or fruit.</td>
<td>Throughout season; especially on legumes.</td>
<td>Rust spots in leaves, stems, or fruit turning brown and drying up.</td>
<td>Spray with Bordeaux every week or ten days.</td>
</tr>
<tr>
<td>Cabbage rust</td>
<td>Light brown caterpillar, head and legs dark.</td>
<td>Early in spring; &quot;spots&quot; at first inconspicuous, gradually enlarged.</td>
<td>Rust spots in leaves, stems, or fruit turning brown and drying up.</td>
<td>Spray with Bordeaux every week or ten days.</td>
</tr>
<tr>
<td>Coddling moth</td>
<td>Dark green with black spots about 1/2&quot; long.</td>
<td>Early in spring before buds open.</td>
<td>Rust spots in leaves, stems, or fruit turning brown and drying up.</td>
<td>Spray with Bordeaux every week or ten days.</td>
</tr>
<tr>
<td>Canker worm</td>
<td>A &quot;measuring worm,&quot; 1/4 or more in length.</td>
<td>Before blossoms open, usually first seen in April.</td>
<td>Rust spots in leaves, stems, or fruit turning brown and drying up.</td>
<td>Spray with Bordeaux every week or ten days.</td>
</tr>
<tr>
<td>Blister mite</td>
<td>Small blister mite causing leaf blisters turning from light green to red and brown.</td>
<td>In spring and early summer.</td>
<td>Rust spots in leaves, stems, or fruit turning brown and drying up.</td>
<td>Spray with Bordeaux every week or ten days.</td>
</tr>
<tr>
<td>Curculio</td>
<td>Small, grayish beetle, 1/2 to 4/8&quot; long. Dark, mottled, black and white; has a conspicuous &quot;snout.&quot;</td>
<td>May and June.</td>
<td>Rust spots in leaves, stems, or fruit turning brown and drying up.</td>
<td>Spray with Bordeaux every week or ten days.</td>
</tr>
<tr>
<td>Leaf hopper</td>
<td>Small, slim, yellowish hoppers with blunted heads.</td>
<td>Throughout season.</td>
<td>Rust spots in leaves, stems, or fruit turning brown and drying up.</td>
<td>Spray with Bordeaux every week or ten days.</td>
</tr>
<tr>
<td>Rot, black</td>
<td>Minute, purplish brown and become striped.</td>
<td>In early summer when fruits are beginning to form; another generation in August.</td>
<td>Rust spots in leaves, stems, or fruit turning brown and drying up.</td>
<td>Spray with Bordeaux every week or ten days.</td>
</tr>
</tbody>
</table>

**IN THE FRUIT GARDEN**

<table>
<thead>
<tr>
<th><strong>Aphis (plant louse)</strong></th>
<th>Similar to those attacking vegetables described above.</th>
<th>See aphids above. Where foliage is thick, in axes of leaves or growing tips.</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mealy bug</td>
<td>Small, soft-bodied insect covered with number cotton-like saps.</td>
<td>In leaves of plants.</td>
<td><strong>Tree seedlings</strong></td>
<td>See above.</td>
</tr>
<tr>
<td>Rose beetle</td>
<td>Yellowish, active, crawling beetle 1/2&quot; or more long with long hooked legs.</td>
<td>Throughout season, especially May to July.</td>
<td><strong>Rose bushes</strong></td>
<td>See above.</td>
</tr>
<tr>
<td>Leaf spot; rust Mildew</td>
<td>Powdery, dirty white deposit on leaves.</td>
<td>Throughout season.</td>
<td><strong>Wooded plants</strong></td>
<td>See above.</td>
</tr>
<tr>
<td>Aster beetle</td>
<td>Active, long-legged beetle, 1/2&quot; to 4/8&quot; in length, eating flowers and foliage.</td>
<td>Throughout season, especially after sudden changes in temperature.</td>
<td><strong>Soft-wooded pines</strong></td>
<td>See above.</td>
</tr>
</tbody>
</table>

**IN THE FLOWER GARDEN**

<table>
<thead>
<tr>
<th><strong>Tomato</strong></th>
<th><strong>Onions</strong></th>
<th><strong>Grapevines</strong></th>
<th><strong>Apples</strong></th>
<th><strong>Orchard plums</strong></th>
<th><strong>Pear and apple</strong></th>
<th><strong>Roses</strong></th>
<th><strong>Aster flowers</strong></th>
<th><strong>Nicotiana</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Aphis</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mealy bug</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Rose beetle</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Leaf spot; rust Mildew</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aster beetle</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CONTACT**

Spray in early spring or fall, using lime sulphur, miscible oil or kerosene emulsion.

Same as for San Jose; also nicotine or kerosene emulsion as soon as young hard-eye forms.

Dormant spray before leaves come out; nicotine on young foliage.

Dormant spray on leaves, especially under blossoms open; after blossoms fall, and two weeks later; burn leaves and stalks.

Destroy egg masses in winter; wipe out tents as soon as visible with kerosene smudge in spring.

Spray with nicotine or paint with strong kerosene emulsion.

Spray with Bordeaux mixture and arsenate of lead; tobacco dust as a repellent.

Spray with lime sulphur and strong arsenate of lead for matured worms.

Arsenal of lead when leaves appear, before buds open.

Spray with arsenical of lead until fruit forms; after that, kerosene.

Spray with arsenical of lead just before petal fall.

Spray with Bordeaux early morning into can of kerosene and water.

Spray under side of leaves with strong kerosene after petal fall.

**Spray with Bordeaux till mid-July; then ammonical solution copper carbonate; for few vines and cottage gardens may be covered with paper bags; dormant spray with lime sulphur or miscible oil; gather fallen fruit and burn.**
DRESSING THE BED

The Spirit of Repose in a Chamber Is Created by Harmony Between Spreads and Pillows and the Other Decorative Accessories

HANNA TACHAU

Of all the rooms in the house, the bed-chamber expresses the individuality of its occupant more explicitly than any other. Here a woman feels free to satisfy her tastes and whimsies and to reveal the intimacies that are so real a part of herself. It is her own particular sanctuary where she may go for rest and quiet; and she has learned that perfect repose can best be achieved among harmonious surroundings.

Although man had the vision to create the palace and stately mansion, with great ceremonial rooms, much of their human quality was devised by woman, who even in early days managed to contrive little retreats—appartements intimes—where she could cast formality aside and fearlessly attain the comforts that lesser splendors bring.

And so today in our more democratic mode of living. Every woman has the desire for happy, beautiful surroundings and, as her desire grows, it is made even more possible of accomplishment. Though her purse be slim, she has all the wonders of the old and new world to choose from. The exquisite designs of Persia, the fantastic conceits of China and Japan, the primitive daring of Peruvian textiles, the time-honored patterns of England and France, not to speak of the restless, bizarre effects of many present-day productions—all of these are available. And through her own ingenuity she may choose these silks and cottons and linens, and fashion them into the dainty things that give her room both individuality and charm.

In furnishing the bedroom, after the basic points of decoration—the walls, floors, ceilings, windows—have been dealt with, the next most important factor is the bed, which is the dominating feature of the room. In olden days it was raised upon a dais enveloped in trappings and curtains of the richest tapestry, velvets and silks. We now have different notions of hygiene and a different.
way of living. Our problem is to attain beauty through simplicity, through suitability, through practicality. And we have devised ingenious ways of combining all these qualities with our modern love of cleanliness.

The bed at once announces the character of the room—not only through the particular type or period to which it owes its origin but by the way it is dressed. So many women who furnish their bedrooms without the assistance of a decorator lose out in this detail. Time was, when a white piqué or an elaborate lace bed-spread was the last word in a bed covering. Now that we are awakening to keener decorative appreciation, we know that it is essential that every detail be properly handled to accomplish any attempt at harmonious unity.

The great four-post beds of our ancestors, with their delightful hangings of muslin or chintz, immediately conjure up visions of large rooms, rather austere in their stateliness. If we should now attempt to utilize one of these old Colonial beds, however proud we may be of its possession, it would, in all probability, over-flow our rooms of lesser dimensions or dwarf all other articles of furniture. However, our furniture-makers are adapting these beautiful old types to modern needs, making them of lighter build and designing them along slenderer lines, so that they are entirely compatible with old chests of drawers and high-boys that we may be fortunate enough to own.

One of the rooms shown contains a modern Colonial bed with curtains and bed flancings of net edged with a knotted fringe, that can be easily washed. The bed cover is of chintz, delightful in its fanciful design that was so characteristic of these early prints. The same idea is carried out in the window draperies where simple net curtains are used with only a deep valance of chintz and no over-draperies. This is particularly good for a bedroom where light and sunshine are at a premium. Any woman who is clever with her needle can carry out this scheme at small expense.

The 18th Century proclaimed a new note in house decoration which is still well suited to our ideas of hygiene and modern living. The bedroom is no longer used as a salon, as it was as late as the 17th Century. It has now taken on the true character of a sleeping apartment. We can now see that many of the supposed vagaries of house furnishing—"whims of fashion" as they were termed, were truly founded on practical requirements. The petit appartement naturally required lighter stuffs than did the earlier rooms of parade, and the artists of the day, so alive to the beauties of proportion and to a feeling for color and fitness, brought about a change in decoration.

Gay cotton stuffs, imported from the East, found a vogue. This led finally to the establishment of a manufactory at Jouy where the French toiles soon superseded the foreign cottons and linens. Not only do we still use adaptations and reproductions of these and many other of the early hand-blocked prints, (Continued on page 90)
METAL LATH FOR PERMANENT CONSTRUCTION

When Properly Used Metal Lath Can Help Insure Against Fire or Dampness and Make the House Impervious to Heat and Cold

HENRY COMPTON

It is really far more important to create your home than to inherit it or buy it. What can be more fundamentally fascinating (except, perhaps, making a garden) than to plan your house, watch its construction and make sure that it is growing up wisely and beautifully! Not that you intend to dash around, trying to superintend the architect and builder, and irritating both. But you can learn to work with them, understand them, even to appreciate them. And gradually, with a real knowledge of architecture, construction and building materials, houses with cracked plaster, damp rooms, smoking flues will vanish out of architectural history.

There are ways of starting a house on the right road, and one of them is to make it fireproof from the cellar up. To suit this generation, a house must be a permanent structure, practical in every detail. It must also be attractive in design and luxurious in fitting. There are several methods of solving the problems of fire, smoke and dampness, and one of the most satisfactory is a metal lath construction, not only for the exterior walls, but for floors, ceilings and partitions.

Very fine old houses are still in existence that have been built of wood lath, some that were not even furred; but today we would not think of using a wood lath without furring, and even with metal lath construction, the extra safeguard of furring and sheathing is introduced. We insist upon safeguarding our health these days, we like our builders to hold out a guarantee that in our home we are going to be safe from the most of the constructional ills that, in the past, houses have been heir to.

There is very little more expense in wise building than in careless construction. Metal lath in our walls, floors and ceilings gives us almost a complete sense of security, and is in no wise a mysterious and difficult material to handle. There are certain rules in building with metal lath, and if these are obeyed there is no possibility of its not fulfilling its purpose. Properly used in the making of walls, it will not burn, swell, shrink or warp, and thus it protects us against fire and dampness as well as heat and cold.

Metal lath is made from steel sheets which are expanded and punched to form holes. It also comes in the form of a square-mesh wire cloth. The sheets of punched steel or wire mesh are nailed on wooden studs attached to the framework of the house. As these sheets come from 8' to 10' long, they are put on much more quickly than the old wooden lath. Each sheet is fastened to a stud by nailing or stapling every 6". The sheets are lapped not less than 1/2" on the width and 1" on supports.

On this web of steel the plaster is traveled, readily finding its way through the mesh, and clinching itself at the back so that each opening becomes a concrete key as it hardens, locking the plaster to the metal lath. Where furring is not an integral part of the metal lath, furring strips should, of course, be placed on the studs as an additional protection from dampness.

The difference in expense between metal and wood lath is mainly due to the fact that metal lath requires three coats of plaster and wooden lath but two. The metal substance, not being as stiff as wood, sags under the pressure of the trowel and must be stiffened by an evening plaster coat. Some varieties of metal lath are strengthened by ribs, which obviates the necessity of the evening coat.

Metal lath must, of course, be built into the actual construction. It cannot be added afterward unless the entire wall and ceilings are removed. Tests by the U. S. Building of Standards prove convincingly that new stucco buildings should also be back plastered.

Fire-stopping is most imperative in the first stages of planning house construction, yet it is often neglected. It is advisable to include a clause in the lather's contract specifying the installation of metal lath at the juncture of floor joist and walls, so that it forms baskets, which are filled with incombustible material, preventing hollow walls and floors from becoming flues to carry fire.

With all its virtues, metal lath cannot rise superior to faulty construction in foundations and walls.

In studying the drawing accompanying this article, you will notice that sheathing boards have been entirely omitted, as they are not always considered necessary when metal lath is back plastered. However, sheathing boards under metal lath are still considered a wise precaution by many expert builders. Or building paper may be attached directly to the studding.

Many architects who are authority on building feel that stucco should not be run to grade. Not only is there danger from frost, but the bottom of the walls will tend to become stained from dirt and moisture. Attention to the flashing and drips will also eliminate discoloration or even more serious defects. Where downspouts are installed, they should be at least 2" from the surface of the finish. Window sills should project well over the stucco to allow water to drip without running down the face, and the ends of the sills should be stopped by pieces of metal so as to prevent concentration of dripping over the ends.

To prevent unequal settlement of the building, it is essential that the footings for the foundation be made wide enough and be care-

(Continued on page 82)
A GROUP OF FOUR SMALL HOUSES

The gambrel roof, or Dutch Colonial type of house, permits a number of variations. In the home of Frederick Cooke, Tenafly, N. J., the extension of the roof to cover an arched porch and the range of windows above are unusual.

Though economically arranged, the rooms are very livable. A sitting room in an extension adds to the living area. Center stairs of the reverse type save hall space.

R. C. Hunter & Bro., architects

Another variation of the Dutch Colonial is found in the home of Fred D. Oakley, Terre Haute, Ind. Here the middle upper window is advanced and the other two recessed. A wide roof overhang covers the terrace.

Into a balanced disposition of rooms has been introduced such features as a semi-circular stair, a den in the rear and a compact and convenient arrangement of the service.

Johnson, Miller & Miller, architects
In building the home of Miss Mary McKelvie, at Spuyten Duyvil, N. Y., the architect used available materials in a natural way. There is no coloring added to the stucco, no stain on the shingles and very little stain on the woodwork.

The first floor plan is the acceptable style for a small house, a middle hallway with living room on one side and the dining room and service on the other. Large windows with steel casements and leaded panes afford an abundance of light.

The east elevation shows an overhanging bay at the corner. Definite color notes are found in the brick window sills and terra cotta chimney pots. The shingles of the roof are laid irregularly and without the usual sharp metal valleys.

The problem in designing the house was to give a rectangular building an interesting form without wasting any floor space. A compact but livable disposition of the rooms on the second floor shows this to be successfully accomplished.
A dignified Colonial treatment has been given this house in St. Joseph, Missouri. In addition to the beauty of its lines, it is fortunate in the gates and gate posts, and the development of the grounds. Eckel & Aldrich, architects

The plan is given balance on the first floor by a long porch and a service addition which extend far enough to enclose the terrace on each end. Upstairs there are two suites and a single chamber. Servants' rooms are found on the third floor.

French doors open from the living and dining rooms on to the rear terrace. They are repeated in the glass doors of the loggia and the porch. The roof lines on this rear elevation and the simple Palladian window have pleasing merit.
RETAINING WALLS IN THE LANDSCAPE SCHEME

A Garden Adjunct that Simplifies Planting on Difficult Sites and Is in Itself a Feature of Intrinsic Beauty

NATHANIEL E. SLAYMAKER

FEW of us who have a retaining wall on our premises realize what an ancient lineage and pedigree such a garden wall possesses. They never for a moment connect their recently acquired outdoor adornment with the Hanging Gardens of Babylon or the vineyard terraces of Old Jerusalem, about which, if in no other way, we at least learned from our Sunday school picture cards, in days long gone. But the Babylonian gardens, accounted one of the seven wonders of the world, were only an ascending series of superimposed retaining-walls, overhung with the loveliest and rarest of oriental flowering vines, creating an effect that seen from a distance was likened to a gigantic Turkish rug suspended from the azure skies, in a blazing sun. Egypt, too, made her contribution of hanging gardens, as they liked to call them, to say nothing of those in old India that antedate the Syrian walls many hundreds of years. Then there are those of old China and Japan. Many instances of such walls can be seen and enjoyed and marvelled at even to this day in Syria, India, Japan.

In relatively more modern times we find ancestors of our present day retaining walls in Italian gardens, especially, but also to some extent in France and less so in England. The reason for this, while quite obvious, may nevertheless stand explanation. It is a topographical reason that such walls were built, primarily because they were needed, and the need was caused by the topography or surface shapes and forms of the land where the gardens were laid out. Now Italy is pre-eminently a land of mountains and hill country and many of the towns and cities are so-called hill towns. This, coupled with the fact that Italians are an outdoor folk and lovers of gardens, naturally brought about the abundant use of terraces and retaining walls to hold the terraces up. It was a logical step, for only by means of such walls could the people dwell on hillsides and yet have cultivable lands about them, for use and beauty, too.

Traveling about through Italy, one is astounded at the prevalence of such walls (Continued on page 92)
TINware, RUBBER and PAPER for the KITCHEN

Incidental Articles that Help to Complete the Equipment and Lessen the Little Inconveniences and Annoyances

ETHEL R. PEYSER

IN is one of the oldest metals in the world. The ancient Greeks and the ancient Hebrews made mention of it frequently.

Before the advent of the aluminum and enamels, agates, granites, glass, etc., tin was used extensively in the kitchen, but now the cooking utensil is very rarely tin—and rightly so. However, tin still remains a good thing for certain utensils in the home and is well worth employing in many ways.

Everything made of tin today is but steel or iron dipped and coated with tin. Tin melts at a comparatively low temperature and is, besides, affected by acids. This is why baking, stewing, etc., are not to be done with tin utensils—plus acid food. The dark rings on baked apples cooked in a tin dish show very plainly what acid and tin do in combination. Yet we have had delicious chicken pie baked in individual tin dishes.

In buying tin the criterion is its weight. It is wise to buy tinware only in the best shops, because small and out-of-the-way hardware shops can rarely afford to keep on hand the best grades.

Tinware should, of course, adhere closely to the lines of all other utensils in that it must be smooth with no rough glouoles or edges, and without seams (which might catch food or dust particles to create an aftermath difficult to rectify).

When cleaning tinware, place the utensil to be cleaned in hot water and soda. Never keep the utensil more than five minutes in the water because the tin will dissolve a little as the heat and soda meet, and though this will disintegrate the grease it will make the iron or steel base show through. Rub the utensil with a fine powder like whiting, rinse hot, and dry while hot. Tin will rust, so it is best to dry while the tin is hot.

Among the most useful and jaunty things in tin is the so-called japanned ware, which is but painted tin.

Breakfast and cake boxes come in different colors, with and without doors, sliding doors and in varying fastenings to suit your fancy. These are light and easier to manage than the shiny metallic ones and easier to clean out than wooden ones. Some have removable shelves, which adds to the joy of rations.

The less expensive tin cake cutters in their multitudinous designs are very inexpensive and good tools. They are keen cutting and light and durable.

Galvanized ware is usually steel or iron treated to a special finish of tin. Some of the things in this material are most useful and necessary—for example the refrigerator drain pan, garbage pail and ash can. These are extra heavy and withstand wear and jouncing.

For the less elaborate kitchen the tin muffin pans, funnels and pie plates are useful, yet not as good as other kitchen ware materials such as aluminum, enamels and glass.

The ideal Christmas tree holder which keeps the tree fresh for months on account of its simple reservoir for water is something well worth knowing about. It holds the tree very steady and is japanned in a dull green.

For country or suburban homes the outdoor incinerator (a perforated tinned container) permits the burning of rubbish without danger from blowing cinders. Of course, this is not meant to burn fats and animal refuse. Incinerators of another order are necessary for this.

The copper bottom wash boilers whose numbers and designs are legion are extremely good and much in use, as they are light in weight and durable. Remember the finest boilers and washers, copper lined, are of plainished tin.

The galvanized coal scuttle, flour bin—japanned or plain heavy tin—is not a pariah even yet.

There are some householders who have tinware left over from the past. To these, we can say: as they die out, replace them with better, if you care to, but be loyal to what you have used if they have served.

One recommends tin today for cookery when there are on the market more ideal cooking utensils, but what we do wish to convey to you in this article is that tin has legitimate uses.

For example, there are spice, sugar, coffee, etc. canisters in white enamel tin, brown, black, etc. with gold lines. These are not as autocratic as the blue and white china, but they will outlast any such delightful and much to be desired shelf trousseau. A kitchen in white with white enameled tin containers is a very pretty thing to contemplate.

Some of the heavier tinware, as we said above, is but iron or steel dipped in tin and, of course, is very resistant and enduring and not particularly cheap.

Agates, enamels, etc. are merely steel and iron covered with layers of composition that when dry are made up to resist cookery onslaught. So you can see how closely allied the humble tin is to the efficacious first cousin agate, etc.

There are two or three very interesting and effective ice cream freezers made of tin. There is one, in fact, so built as to need no turning.

Tin trays are invaluable as they come in all sizes and are exceedingly light. They come plain, japanned and decorated, but anyone with a sense of paint and form can make an ordinary tin tray a thing of joy; while for the most part the tinware houses excrucially decorate these trays. There are too, very interesting draining sinks, of iron with tinned grates well worth having in any kitchen.

The rubber ware that is used in kitchens is not extensive, but what is used is indispensable.

For preserving, of course, the rubber ring to seal and close jars tightly is a necessity, and the best is none too good to buy. Unless you have the best you will be cheated by breakage and consequently leakage.

Never use kerosene to clean rubber, as it dissolves it. Store all rubber things in as cool and dark a place as possible. Talcum powder brushed over a dried rubber surface will keep rubber things from sticking together.

Rubber mats for the sink take care of your utensils and prevent breakage. They also prevent the sink from becoming pitted with holes.

Some people like perforated rubber mats on linoleum or tiled floors and for kitchen hallways and stairs. These wear for a long time. A few rubber corks in the home often help you out of a dilemma for temporary corkage.

Rubber brushes for sink use in combination with tin are useful and can be well scoured and kept in condition.

Rubber gloves for kitchenette and kitchen use save the hands and are worth their weight in radium. If more women used them the housework problem would be less like martyrdom.

They preserve the hands' health and beauty. Rubber is used for door stops to preserve the door surface and prevent noise. It is also used on the tip end of table and chair legs to preserve floors and rugs and to diminish noise.

This is about the full list of rubber things for the house except, perhaps, the rubber heel for maids' and butlers' shoes and rubber stoppers for sinks.

The uses of paper in the home are not so many.

Shelving in the pantry or kitchen can be kept in renewed health with paper takes. The bungalow, motor trip or picnic can well be supplied with paper or fibre plates.

Rather would we warn you against paper uses: such as wrapping up your ice to preserve it, for it doesn't; wrapping up your food stuff in paper in refrigerator; greasing muffin pan with paper, for which you should use a brush.

Sometimes, however, a piece of paper will clean off the top of the stove very efficiently, yet even here a brush would be far better.

Clean brown paper to absorb French fried potatoes is quite indispensable.

The paper napkin has made its place even in the homes of wealth.

Wax paper is a delight to wrap up sandwiches and keep breadstuffs and cakes fresh for touring or picnics.

Paper lining for drawers is necessary. The pretty paper lace doily for under finger bowls, cake and bread is delightfully pretty and saves the linen, the laundress and the laundry list.
If You Are Going To Build

Take the Trouble to Inform Yourself of Your New Home's Requirements

As to Plumbing, Heating and Lighting

Mary Fanton Roberts

While you are still in the midst of planning your home, before the final architectural drawings are made or the specifications written, three vital problems have to be faced, the constructional side of plumbing, heating and lighting. Anything that involves pipes or wires in the wall must be decided upon when you are still in the fundamental part of your house planning.

The utmost perfection in building equipment is nowadays regarded as absolutely essential even in the smaller and less expensive houses. You must decide upon the kind of heating you are going to employ and have it best suited to your type of house; whether you will light your house with gas or electricity, just how much money you will spend on plumbing and how much you will have. Then you can have this information incorporated in your specifications, and your builder will have a fine start on the plans. Safe plumbing must mean excellent materials, the most practical system and the finest workmanship. It is impossible to install cheap plumbing and safeguard the health of your family. What you eventually pay in repairs will in time bring up the cost of your plumbing to what would have originally given you the best. And if you ever have to sell your house, one of the first things the agent investigates is the plumbing; next, the condition of the cellar, and then the heating apparatus.

Most plumbing is standardized and your installation will, of course, depend upon the type you select to put through your house. Just because your plumbing is going to be hidden behind walls is no reason why you should not have the best you can possibly afford. In planning your plumbing, you must consider not only your bathtub and lavatory, but a separate toilet, the sinks in the kitchen and the laundry tubs in the basement. Study your catalogs before you select your plumbing, and if possible go over them with a plumbing expert, even if you have to pay for his advice, unless your builder is willing to take this responsibility.

An expert on the question of plumbing for the modern home takes up the matter in the following wise way: "Your plumbing system will be no stronger than its weakest joint. It is essential that your stack be absolutely tight from top to bottom. Joints that leak are apt to allow gas and foul odors to enter the living rooms of your home. Joints where the plumbing fixtures are connected with the stack must be tight in every respect. After all joints have been made tight, the piping is tested for water leaks by plugging both ends of the system and filling it with water or air and watching for leaks or seeping through defective joints or flaws in the pipes. To prevent sewer gas and other odors from backing up into the rooms, traps are placed at the bottom of the fixtures. These hold a certain amount of water. The water is a part of the drainage from the fixtures. It is held to a certain level in the trap by a bend or 'S' shaped curve. It thus provides a seal between the stack and the house and is a gas preventive. Kitchen sinks can be provided with grease traps to catch the grease and take it from the water before it reaches the cool pipe, to grow hard and obstruct the easy emptying of the plumbing system."

If there is any danger whatever of freezing, be sure that your pipes are insulated wherever they are exposed to cold. It is possible to purchase what is known as frostproof toilets. These are very important in some countries.

The built-in bathtub represents the highest sanitary efficiency. A few years ago, when the enamel tub first came into use, it was considered a great luxury, but now we not only demand enamel, but the bath is recessed so that it is impossible for even dust to collect under and about it. The bathroom equipment becomes a part of the very construction of the house.

(Continued on page 82)
The ultimate luxury, of course, is the Roman bath, sunk below the level of the floor. It requires a large room and deserves to be finished in a fitting style. In this example the floors and walls are green marble edged with black in planning for the bathroom see that it has plenty of morning light and provide, as in this tiled example, adequate lighting fixtures.

The tub can be partially sunk, as in the room to the right. The floor is covered with composition tiles and the walls with composition stone.

From an English house comes another example—the tub is enclosed in pink marble and a dado of the same material is used on the walls. This gives a wide shelf at the rear for bath salts and dusting powder jars.
One of the oldest garden games is quoits. Four heavy rubber quoits with an iron pin come for $4.69.

To develop one's putting strokes nothing is better than clock golf. Complete with cup, figures and directions for layout $3.24. Putter $2.24.

Tambourinello, a new form of Battledore and Shuttlecock, is played with tambourines and a ball or shuttlecock. $6.

Featherweight dice 3/4" square may be rolled in a garden, on a beach or in the water. $2.50 a pair.

Duck on a Rock is an old game revived and improved. Five painted balls, wooden "rock" and two stakes.

The old game of bowling on the green is as popular now as ever. A set of fine English bowls is $20.

Garden furniture should be informal in type, comfortable and decorative. A relief from the ever-present wicker are the unstained hickory chairs on the right that meet all the requirements of garden furniture. The chair with the fan-shaped back is $14.24. The other is $6.94.

The very attractive group at the left that seems so interested in the outcome of some game are shaded from the sun by an unusually picturesque garden umbrella. It is 8' across, has an interesting scalloped edge finished with tassels and may be had in plain green or green and white striped duck for $28.25.
GAMES TO PLAY
IN A GARDEN

They may be purchased through the House & Garden Shopping Service, 15 W. 44th St., New York City.

This air ball when blown up is 12" high. It is very light and painted bright silver. It may be purchased for $5.

Archery is so attractive to watch as well as play, it should be in every garden. The painted canvas target 10" in diameter is $4.96. Green iron stand $5.44. Wooden bow 51" long $9.40, 39" long $5.99. Feathered arrows 8.19 each.

A splendid set of croquet consisting of four balls and metal bound mallets with handles 21" long, white enamel wickets and wooden sockets is $30.48.

Tether ball makes a charming garden game, immensely amusing to play and one that develops muscle, accuracy and speed. An 8' tether pole (children's size) complete with ball and cord is $4.50. A pole 14' high is $6.50. Racquets $2.50 each.

An excellent training for the eye is the Throw Dart. Cork target 17" x 17" with feathered darts $4. Extra darts 83.15.

Badminton is played with racquets and a net very much the same as tennis, only shuttlecocks are used in place of balls. $22.
This calendar of the gardener's labors is aimed as a reminder for undertaking all his tasks in season. It is fitted to the latitude of the Middle States, but its suggestions should be available for the whole country if it be remembered that for every one hundred miles north or south there is a difference of from five to seven days later or earlier in performing garden operations. The dates given, are, of course, for an average season.

A splendid orchid at the International Flower Show was Mrs. Harding, from Duke's Park.

Princess Mary, a pure white orchid from Julius Roche Co., attracted much attention.

Mrs. Payne Whitney's garden at the International Show was full of the spring-time charm of bulbs, lilacs, etc.

Clerarias, narcissi and hyacinths were features in the foreground planting of Col. W. B. Thompson's exhibit, a prize-winner at the N. Y. Show.

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SUNDAY       MONDAY       TUESDAY       WEDNESDAY       THURSDAY       FRIDAY       SATURDAY

FIGS
1. A top dressing of bone meal or hoof meal is now well worth while. It is a great service to the season, for it adds stability to the ground around the plants, and if applied to the bed of the garden where the vegetation is to happen, it will do great good.

2. Do not dress with manure, and know why not. It is the best dressing for the soil, and not the plant. If we could find a way of dressing around the plant only, we should have dressing enough for it.

3. Look out for the first signs of the potato bug. It is a most destructive insect, and when discovered in the plant should be killed. The best method is to cut out the plants thoroughly around the root and burn them.

4. The climbable roses should be looked over, the plants cut back and staked. The young shoots should be cut back to a bush or bunch of three, and the old wood cut out.

5. If they have not already done, the English roses should be pruned. The best method is to cut out every third or fourth shoot, leaving the plants cut back to a bush or bunch of three.

6. Don't let the roses fall into the mud. Keep the ground dry around them, and where the soil is heavy, use a straw mulch.

7. A splendid orchid at the International Flower Show was Mrs. Harding, from Duke's Park.

8. Keep a sharp look out for the potato bug. If you find them, kill them as soon as possible.

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Another view of the Whitney exhibit shows a sundial surrounded by primroses, set off by azaleas and forsythias.

Exquisite fragrance and bud form mark America, a new, brilliant pink from Cha. H. Totty Co.
DISTINCTION DEMANDS
BOTH QUALITY AND STYLE

Style in stationery is a matter of designing, but distinction goes back of the designing to the paper itself.

Back of the unquestioned style of Crane’s Writing Papers is the quality of the paper, a quality assured by the Crane Mills where paper making has been a fine art for one hundred and twenty years.

EATON, CRANE & PIKE COMPANY
NEW YORK - PITTSFIELD, MASS.

Crane’s Writing Papers
Only Frigidaire can give you Frigidaire Service

FRIGIDAIRE, the electric refrigerator, embodies all the advantages of a modern cold storage plant, simplified and built to operate in the modern home without attention and at a very small cost.

It maintains a constant temperature in the food compartment where fruit, vegetables and meat can be kept for a surprisingly long time in delightful condition.

Its freezing compartment affords a means of supplying ice for table use and of freezing dainty ices, mousses, sherbets and desserts.

With all its advantages, FRIGIDAIRE actually costs less to operate than the average cost of ice.

Such economy is the result of expert engineering. It would not be possible unless FRIGIDAIRE were built as a complete unit with the cabinet designed, insulated and ventilated to exactly fit the capacity of the refrigerating mechanism.

It has given to thousands of home owners complete freedom from the annoyances that have always been associated with the use of ice and can be installed with the absolute assurance that it will prove itself an economy and a source of constant satisfaction.

FRIGIDAIRE is now on display in the show rooms of all Delco-Light distributors. A descriptive booklet will be sent to you on request.

DELCO-LIGHT COMPANY
Dept. H. G. 7 Dayton, Ohio
Subsidiary of General Motors Corporation

Metal Lath for Permanent Construction

(Continued from page 70)

The newer tubs are lower than the old ones that were set on legs. For this reason it is much more convenient to have the water held above the tub rather than at the bottom. The tank and the bowl of the modern bath room must be constructed of hard-fired vitrified clay and be furnished with a hard finished white surface that will not discolor or chip.

Insist that your architect makes a study of the heating systems that are being generally installed consists of two china handle controls for the hot and cold water supply, supplying the mixed tempered water through one spout, permitting the user to wash in running water. In some of the tiny apartment bathrooms a pedestal lavatory is used, which can be hung on the wall with a minimum of space.

One advantage of hot air is that the average builder takes no thought of the unending torture a low sink brings to housewife or servants.

A new feature in bathroom fittings which is being generally installed consists of two china handle controls for the hot and cold water supply, supplying the mixed tempered water through one spout, permitting the user to wash in running water. In some of the tiny apartment bathrooms a pedestal lavatory is used, which can be hung on the wall with a minimum of space.

Insist that your architect makes a study of the heating systems that are being generally installed. An excellent one-piece sink includes a basin, drainboard and back. This is one of the most sanitary sinks you can have.

Shape, location, climate, number of rooms, building material, the way the house is built and the money you spend in construction. If your house is located where there are rapid changes of temperature or if you have to install a heating system that will respond to this condition, you will have to install a system that will respond to the condition.

The expense of putting in a heating system varies in different locations and in different types of houses. In the main you will find that steam heat and pipes are the least expensive, and hot water and the vapor systems the most expensive. The upkeep of any one of these systems depends on the size of house and number of rooms.

The expense of putting in a heating system can be summed up in the sitting room no matter what the heating system is to be located where there is a broad sweep of wind, exposure on all sides.

This is excellently constructed where the room is to be located where there is a broad sweep of wind, exposure on all sides. This is excellently constructed, and the furnace is to be located where there is a broad sweep of wind, exposure on all sides.

Or course nothing is so delightful as an open fire. Every house should have an open fire in the sitting room no matter what the heating system is to be located where there is a broad sweep of wind, exposure on all sides.

One advantage of hot air is that the system requires no space in the rooms.
The basic Graflex features are as valuable when making indoor portraits or slow snap-shots as when catching swift action scenes. The reflecting mirror shows a big, brilliant image of the subject, right side up. You know when the focus is sharp. You see what the view includes. High speed lens and efficient shutter facilitate proper exposure—especially if the lens is the Kodak Anastigmat f.4.5.

Graflex catalog by mail or at your dealer's.

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FREE—This Book on Home Beautifying

The PROPER TREATMENT for FLOORS, WOODWORK and FURNITURE

THIS book contains practical suggestions on how to make your home artistic, cheery and inviting. Explains how you can easily and economically finish and keep furniture, woodwork, floors and linoleum in perfect condition. Fill out and mail coupon below for a free copy.

JOHNSON'S Paste - Liquid - Powdered PREPARED WAX

Every room needs the brightening touch of Johnson's Prepared Wax. It will rejuvenate your furniture, woodwork, floors, and linoleum, and give an air of immaculate cleanliness. Johnson's Prepared Wax imparts a velvety, artistic lustre of great beauty and durability. It gives a hard, dry polish which will not collect dust or show finger prints.

Johnson's Prepared Wax comes in three convenient forms—Paste Wax, for polishing floors and linoleum—Liquid Wax, the dust-proof polish for furniture, woodwork, and automobiles—Powdered Wax, for perfect dancing floors.

Are You Building?

If so, you will find our book particularly interesting and useful. It tells how to finish inexpensive soft wood so they are as beautiful and artistic as hard wood. Explains just what materials to use and how to apply them. Includes color card—gives covering capacities, etc. Enables you to talk intelligently on Wood Finishing to your architect and contractor.

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(Canadian Factory—Brantford)

Please send me free and postpaid your book on Home Beautifying and Wood Finishing "The Proper Treatment for Floors, Woodwork and Furniture.

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Sheer, unalloyed joy in motoring is reserved for the woman who drives a Cadillac.

With every mile of its swift, easy flight the conviction grows that hers is the unique and utterly enviable automobile experience.

Where else could she secure the strong, silken power, the comfort, the distinguished and arresting beauty that so charm her in her Cadillac?

Where duplicate its dependability, which makes continuous, extended enjoyment of motoring pleasures so definite and so serenely certain?

Could any automobile be more responsive, more refreshingly easy to control and to drive?

Is there any equal anywhere for the flawless performance, on the shopping trip or the vacation tour, that she knows is hers in the Cadillac?

Every woman who has had even so much as a single ride in the Type 61 Cadillac is unalterably convinced that it is the great motor car of the world.

And when she becomes an owner, her delight in the Cadillac is quickened by the knowledge that all of her associates concur in acceptance of its leadership.

CADILLAC MOTOR CAR COMPANY, DETROIT, MICHIGAN
Division of General Motors Corporation

CADILLAC
Standard of the World
DECORATIVE LIGHTING FITMENTS

For the Solarium

In the sun-room, where color is such an important element, the rich decoration of Riddle Fitments in Silver Estafado and Gold Estafado is most effective.

The illustrations suggest a Riddle ceiling fitment, wall sconce, aquarium and lamp well suited for solarium or other informal setting.

Whether for this purpose, or for any other room, or for a complete new lighting installation in your residence or apartment, you should be interested in seeing these unusual fittings, sold by the better dealers everywhere.

The Riddle Fitment Book will give you a new conception of the beautiful effects possible in lighting fittings. Illustrated with actual color reproductions of wall and ceiling pieces, lamps, luminors, torchieres, Vellumseque shades, console sticks, etc. Copy sent on request. Please address Dept. 262.

On receipt of plans, with elevation details, we will submit a definite suggestion with estimated cost of fittings installed by your dealer.

THE EDWARD N. RIDDLE CO.
TOLEDO, OHIO
Makers of Lighting Fitments since 1892

If You Are Going to Build (Continued from page 84)

and electricity, for oil and candle light are only used where it is impossible to get the more modern systems. But the different methods of using these two systems and the variety of lighting fixtures and shades are simply countless.

The question of house lighting is one of the most absorbing and difficult and subtle that the decorator and home-maker have to face. Of course at the beginning of building you decide about the kind of lighting you are going to employ and then the exact system that will give you the best results, and, so far as possible, just where you want the lights brought through the walls. Then you decide whether you will employ direct or indirect lighting systems, whether you wish top or side lights, and how many you will need through the entire house in order to judge of the volume of light that has to be introduced into the house. For the reception room you may want some of the new and spectacular chandeliers, some of them amazingly interesting in jet and crystal, or you may want the more quiet diffused lighting. For dining room and bedroom, light from the side walls is preferable, though diffused lighting is also practicable in these rooms. For sitting room and library, you will want not only side lights, but many table lights and a diffused light if you do not care for shadows. In the smaller rooms a sense of light and shadow is more intimate and beautiful. For the kitchen and cellar, a light wherever definite work is to be done. An ample number of electric plugs in the baseboard of all rooms is essential.

Lights are needed in every closet, and the sewing room particularly should be well lighted. You may want to plan some cozy twilight sort of corners, but in the main there are lights, too, for these places. Even your porch in the country, that almost last stronghold of lovers, may be lighted, without warning by pressing a button.

The strength of light for your tables and chairs should be one-half and one-foot candle power.ommended for the hallway, say between one-half and one-foot candle power.

The most important work accomplished by the Garden Club is said to be the complete making over of the grounds of the Erie Station, and knowledgeable improvements being made to the American Botanic Gardens, by placing window-boxes in them. As the Garden Club is constantly interested in village improvement, it is consulted by the Business Men's Club on special and particular occasions.

THE GARDEN CLUB

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If you consistently can.

On the other hand it is delightful to be able to read on a cool porch. As a belated guest it is most comforting to find a brilliantly lighted porch beckoning you into the house. Light is really the handmaid of hospitality. But remember there is a point at which you will find that the more brilliant systems and the variety of lighting fixing and color shade are simply countless.

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Semi-direct lighting alone is not advisable. A home is more peaceful and restful with a certain number of soft lights and with the comforting of occasional shadows. No modern bedroom is complete without reading lights and the strength of light for your tables and chairs should be one-half and one-foot candle power.

If You Are Going to Build (Continued on page 84)

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INTERNATIONAL STERLING
Masterpieces of the Classics
Wrought from Solid Silver

INTERNATIONAL Sterling does more than enrich a home’s atmosphere. It serves in a way quite apart from breakfast, dinner and supper. International Sterling is a form of real property, the most useful and beautiful form of invested wealth. Ages of use do not diminish its intrinsic value; they merely mellow the affection in which it is held.

The Trianon Pattern is massive in form, chaste in spirit—a true example of eternal classic design.

This craftsman’s mark identifies the genuine

A Book of Silver on Request: Write for Book 154, the Trianon Brochure.
International Silver Company, Meriden, Conn.
When knighthood was in flower achievement came at sword points and brawn was idolized. The splendid accomplishments of the craftsmen were for the time being overshadowed by feats of valor. But the skill developed through years of labor was not lost, and now while the days of Chivalry are gone, the splendid traditions of those craftsmen still bear fruit.

And today Hand-woven Fleur-de-lis Irish Linen damask table cloths and napkins portray the ultimate in achievements of the present generation of those men, who faithfully plied their trade even in the face of obscurity.

On sale at better stores in the principal cities of the United States and Canada. An illustrated catalogue on request.

For finer use also are Fleur-de-lis linen towels, linen sheets and pillow cases.

IRELAND BROTHERS
INCORPORATED
102 FRANKLIN ST. NEW YORK CITY

The Palladian Window and Its Use
(Continued from page 50)

The central window and entrance of the Friends School at York, England, designed by John Carr, both show evidences of Palladian adaptation to their designs.

The Palladian Window and Its Use
(Continued from page 50)

Note the Garden Clubs
(Continued from page 86)

The Kent Garden Club of Grand Rapids, Michigan, whose President is Mrs. Phlia L. Hamilton, was organized in 1913, by Miss Grace Griswold, who was recently graduated from Cornell University as a landscape gardener.

The membership of the Club is limited to 65 women doing personal work in their gardens. Beginning with a luncheon in March, meetings were held bi-monthly through October. The program is always attractively printed, and in 1921 included papers on Japanese Flower Arrangement; Observations in Club Rooms; and an exhibition of the West Indies and South America by Mrs. F. Stuart Foott; Life Work of L. H. Bailey, Mrs. Charles H. Garfield; and Mrs. H. Bailey. What the Twentieth Century Club of Detroit does for the Garden Movement of That City; Evergreens and How to Grow Them in Michigan, by Mr. John Martin, and Summerflowering Bulbs, Hardy Primroses, etc. Mr. Edward Freyling spoke on Rock Gardening and Mr. Robert M. Teede on Attracting Birds.

There is a daffodil show arranged annually in the Art Association Rooms, Grand Rapids, and, by permission of the Mayor, flowers have been sold from tables placed in the streets in front of some of the important buildings, and also in a "hut" built for the soldiers.

The proceeds from these sales, and the supplementary receipts from disposing of seeds and bulbs, were partly applied to the support of nine French orphans during the war and after it to five of these children.

The most important work of the Club is encouraging school gardens, prizes of money being awarded for the best exhibits. A principal of one school, who was a member of the Garden Club, designed and developed such a remarkable garden in the school grounds that she lectured about it with slides, as far as Minneapolis. Two members of the Kent Garden Club belong to the Garden Club of Michigan and others to the American Rose Society and the Horticultural Society of New York.

Ellen F. Cunningham.
A Word about Cane, Willow and Rattan Furniture

SOME of our patrons are satisfied to know that a price is particularly attractive — unexpectedly low in comparison with those generally current. Others are interested to know why.

Hence this brief explanation of a merchandising policy that is somewhat unusual.

Summer furniture is what merchants know as "seasonable" merchandise; which means that, early in the season, when there is great demand, cane, rattan and willow furniture sell freely and easily even though marked at very high prices. Many merchants reason that a high price early in the season — beyond the mere profit it entails — offers opportunity for " reductions" later on even though the "reduced" price is normally fair value; and at the end of the season still further reductions may be made.

The cane, willow and rattan furniture shown here, though much more sturdily made, much more carefully finished, much more attractively designed than is usual, is actually less expensive than most of the summer furniture available throughout the season.

This statement is printed because we feel that a frank statement of price policy is due to our patrons who deal with this house on a basis of confidence that is highly gratifying.

A collection of designs and prices will be mailed upon request

W. & J. SLOANE
FIFTH AVENUE AND 47TH STREET, NEW YORK CITY
WASHINGTON  SAN FRANCISCO
An Example from a Collection of Small Tables Faithfully Reproduced from Genuine Old Pieces.

INQUIRIES INVITED THROUGH YOUR DECORATOR

Dressing the Bed

(Continued from page 68)

but we have also revived the enchanting painted furniture then in vogue, applying quaint designs to our own beds and pieces of bedroom furniture. With a gray or cream ground, any color can be introduced as a decorative motif and there are endless possibilities of color combinations.

In the unpretentious room illustrated here, the furniture is appropriate for a young boy or girl. It is of a simple peasant or cottage type painted gray and embellished with gay little garlands of flowers in conventional form. As both the walls and carpet rug are of a neutral tone, the room is enlivened by the introduction of color in the hand-blocked linen which is used as overhangings at the window, as a covering for a roomy winged chair and as the long flat pillow on the bed. The bedspread itself is also of linen, dyed a solid color of old rose which tones in with the old rose and blue of the blocked linen.

In this room an interesting group of windows is curtained with overhangings of the hand-blocked linen and a valance running across the top of the entire width of the windows. This room is a delightful example of simplicity that is harmonious because all of the accessories have been carried out logically and with unerring good taste. Cannot any woman with a little thought and effort achieve similar good results?

A more formal room requires a more formal treatment of the bed. With the help of a vacuum cleaner, we can again revert to richer fabrics and to their more subtle handling. Soft taffetas are particularly effective as a material for hangings and bed coverings. We now have looms in this country that are fashioning silks as rich in quality and significant in design as any that won renown in the old world. There are infinite possibilities in dealing with this material because it lends itself so well to various uses.

Not only must a bed covering conform to the style of the room and the bed it is to adorn, but it must be well adapted to the structural form of the bed itself. For instance, if a bed has a head, footboard and rails of wood, they must not be submerged by hangings or draperies.

There are illustrated here two types of bed coverings of taffeta. The one on the day bed is of striped taffeta edged with a valance of the plain material which is used again as window draperies. This valance does not cover the wooden rail of the bed. The long flat pillow is finished with a fluting of the plain taffeta and it is further embellished with appliques of flowers in solid color repeating the note of the stripe.

The other taffeta coverings are designed for beds that have neither rails nor footboards, so that they closely hug the sides and foot of the beds, revealing the foot posts. The flat cushions are covered with lace and flutings of taffeta. A distinctive note is reached in the hangings at the window where the taffeta curtains are draped over a single fall of chintz. The cornice of the window obviates the necessity of a valance of any kind, which would lower the height of the window.

There are infinite ways of dealing with the day-bed, an institution which, in these times of concentrated space, has come to stay. When a room must do duty as both living and bedroom, the day-bed is an important feature and its treatment must take on the character of the room, whether of a formal or informal nature.

Besides silk, chintz and linen bed coverings, there are the delightful spreads of unbleached muslin and all-over patterns of “French Knots” or tied knots that were a well-known craft in the South of the early days. This old handicraft has been revived. These practical bed coverings look especially well upon Colonial beds of walnut and mahogany or simple painted types. There are also East Indian stuffs of silk or cotton, very soft and rich in color, that are appropriate for certain rooms having something of an Oriental flavor, but in chaste little rooms with white enameled furniture and painted metal beds, dotted muslin or heavy white linen bed coverings will always look crisp and fresh.

It is easier to bring variety into the bedroom than in the other rooms in the house, especially if we delight in the simple, decorative fabrics that are comparatively inexpensive. Every few years we can afford to change our hangings, bed coverings and loose slip covers, for taste, like every growing faculty, develops with the years and it is a pleasant feeling to know that we need not always live with our mistakes.
June, 1922

DARNLEY Inc.


DARNEY

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1892 = 1922

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Genuine Reed Furniture

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There's an atmosphere of refinement and quiet elegance about Reed Shop Designs that makes them pre-eminent in the realm of Reed Furniture. HIGHEST QUALITY BUT NOT HIGHEST PRICED

Our showing of Imported Novelty Cretonnes and Linens for decorative purposes includes Patterns and Colorings to meet every requirement—an unusual line that must be seen to be appreciated.

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The REED SHOP, Inc.

9 EAST 57TH STREET, NEW YORK

"Suggestions in Reed Furniture" forwarded on receipt of 25c postage.
Retaining Walls in the Landscape Scheme

(Continued from page 74)

for both purposes. In fact, they seem to be almost the sine qua non of an Italian layout, and one can study the most simple and elemental form in the peasants' yards in the countryside or the grandiose sculptured stone walls of such far-famed gardens as those of the Villa Lante or Tivoli, outside Rome. But all were built for the same reason and use, and need preceded beauty.

In France, only in the more rugged portions in the south, does one find the best examples of retaining-walls, with logical reasons for their use. In many famous gardens in the central and northern provinces they were used without real need, and hence have a very artificial appearance. In England the garden wall proper, has had far more attention lavished upon it than the retaining wall, and largely for topographical reasons.

In the United States, California, especially the southern part of it, offers natural conditions more nearly approaching those in Italy than any other State, and for that reason one finds there the greatest development in this line. They really have to have them there in most cases, and they look well almost everywhere because the feeling of artificiality is absent. Elsewhere in our country they are but sparingly used, or they should be so used, and in all cases should be determined by topographical fitness.

There being no marked disadvantage except that of possible inappropriate-ness in having a retaining wall, let us consider some of the advantages. Chiefly, they are three in number. We all know how hard it is to keep grass growing on anything more than a very slight slope. The moment you exceed a certain angle, erosion begins to take place, and you can have no good turf, nor even beds of border shrubbery, because the rains cut the loam out and expose the roots. Grading of the lawn, for instance, is a means of avoiding this difficulty but successful grading is not an easy thing to accomplish. The retaining wall will serve in its stead.

In the second place, once you have built the retaining wall, you suddenly discover that beside its fulfillment of a need, you have added to your estate an ornament of the greatest possibilities, other things being equal. This point will be developed in detail later on, but in the rough, you find yourself gazing upon what in many cases plays the role of a garden wall. From the sidewalk or pavement or lane the passerby gets a foreshortened view of the house and grounds, and, depending on the wall's height, considerable privacy, the first aim of the regular garden wall, accrues to the owner of the grounds. Not only may a wall of only 4' bring about this effect, but a lower one, reinforced with shrubs, will do the same.

In the third place, from the windows and porches of the house the owner
The PLATT SHOP

We will gladly supply anything for the home—complete suites or odd pieces of furniture, draperies, etc. at moderate prices.

Write to us
The PLATT SHOP, Inc.
5 E. 46th St.
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A Mission scrap basket is painted black with flowers in brilliant colors. It may also be had in other combinations. The price is $3. It may be purchased through the Shopping Service of HOUSE & GARDEN 19 West 44th Street New York who will gladly help you secure any article necessary to your decorating scheme.

The Nightrack
An orderly attendant for day clothes at night. Each garment has its place—all in one place. Clothing held to form, freshened and ventilated. Racks in mahogany and walnut. Ivory and colored mahonia on maple made to match summer's most useful and attractive service for bed and dressing rooms. For men's and women's clothes. Price $15.

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Rochester. Illinois

Your Summer Porch
This Porto Rican wicker basket fastens on the arm of your favorite porch chair, and conveniently holds books and magazines. The tray would be ideal for serving iced drinks in summer. The little basket lends a charming touch of color to the porch table.

L. B. Lawton, Skaneateles, N. Y.

Your Garden
From the commonplace to the interesting is but a short step. Even the ordinary garden may have charm and individuality through the addition of a bit of statuary, a bird-bath, or a vase; and superb effects can be achieved by those who give a little thought to the harmony that exists between verdure and weathered stone. Study the possibilities of your garden. The fountain illustrated here is priced at $137.50 (F. O. B., N. Y.).

We are the makers of special and distinctive hand wrought metal fixtures.

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New York

No. III
HAND WROUGHT LANTERN
Size 6" x 14" - 36" overall, yellow cathedral glass wired, black finish complete, $10.50, old steel finish, 17.50, hammered fin, 20.50.

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Size 6" x 14" - 36" overall, yellow cathedral glass wired, black finish complete, $10.50, old steel finish, 17.50, hammered fin, 20.50.
Many home builders fail to realize that a home can be made something more than a mere shelter from the elements. When the weather is fine, they are unable to enjoy to the utmost the pleasure of sunshine and breeze.

Even though your plans do not contemplate a sun parlor or sleeping porch, any room can be made to include their advantages through the use of Air-Way Multifold Window Hardware.

Air-Way provides for a full opening of any width—the windows fold back out of the way—no interference with screens or draperies. They may be completely or partially closed in an instant. Air-Way hardware positively insures against rattles and other bothersome features. The windows are absolutely weatherproof.

If you expect to build a new home or remodel the old one, you should make it a point to learn all about the advantages of Air-Way.

Most reliable hardware and lumber dealers can supply you with Air-Way Multifold Window Hardware. If not, it may be quickly secured from any one of our many branches. Write today for a copy of Catalog M-4.

Retaining Walls in the Landscape Scheme

(Continued from page 92)

looks down not on frizzled edges, gullied by the rain, with poor turf at best, but on a lawn or garden in good shape with a definite, clean-cut edge, which in most cases shortens against the street, leaving out of view the sidewalk and even some of the pavement. Quite obviously, also, the more level boundary line due to the wall opens up great plantings, opens up the advantages both in shrubbery and perennial borders or both.

Sometimes a retaining wall will be entirely too expensive, and yet there is the problem of what to do with a steep bank or an outright cut, where, for instance, an avenue comes through. Many home builders fail to realize that a mere shelter from the elements...
Quiet Good Taste

THE evident refinement of Elgin A. Simonds Company Furniture silently creates an atmosphere of dignified elegance in your home. Good furniture must not only be correct in design and beautiful in finish but should harmonize with every feature of the room. For that reason a Department of Interior Design functions especially to help you select furnishings to harmonize good taste. Write directly or through your dealer for advice.

The best furniture establishments bundle Elgin A. Simonds Company Furniture. Be particular to look for the trademark on every piece.

Write for our illustrated booklet "How to Furnish Your Home."

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There is just one "Reedcraft," it can be obtained only from the following dealers:

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Of pure white porcelain enamel—with handsome nickel trimmings—this Electric and Coal Combination Range has been the point of interest at every Better Homes Show where it has been exhibited.

Sexton Combination Electric & Coal

It is intended primarily for those homes of the better type—especially those where gas is not available. Each unit is large enough in itself for the requirements of the average family. The electric unit in actual tests has shown a food saving that averages 15 to 20 percent in cooking or baking. It also assures a cool kitchen in the hot summer weather—or when the added heat is desired. Each is so constructed that they can be used separately or together.

Write for illustrated folder giving full descriptions

509 Block W, Conway Streeet Baltimore, Md.

Flowers for Far and Near

(Continued from page 47)

Flowers for Far and Near

(Continued from page 47)

his rock garden he selected a section traversed by the clear stream of a little brook. In a total area covering approximately two acres we notice that the motif recurring through the principal part of the owner's work consists of an endeavor to perfect a harmonious combination of the beauty of rocks and naturalistic rock grouping with the beauty of a vegetation of trees, shrubs bulky flowers of a light to dark value, and of certain of the asters; of the same sea-lavender I mentioned a while since. Moreover, in the case of many sorts of flowers, desirable to mass them in the distance, because of the beauty of such a misty cloud of flowers itself, or because the individual blossoms are comparatively uninteresting in shape. And this brings us to another factor influencing the near or far character of a flower is its form.

It is the right color which fits a flower to be effective at a distance, and the form that suits it for near by. In other words, the form matters not at all in flowers seen from a distance. The color is of a sort to carry well, but of flowers near at hand the shape must be pleasing, and their habit of growth good, or the most beautiful color in the world will not make them desirable.

The chicory is an excellent illustration of this point; it grows in a fashion so straggling as quite to offset its priceless habit of growth good, or the most beautiful color in the world will not make them desirable. The test which a "far" flower should be able to pass, is does its color carry well? Is it pleasing in quantity at a distance? And that which a "near" flower should fulfill: Is its form interesting and is its habit of growth a good one?

The Rock Garden of An Amateur

(Continued from page 63)

as its value. Flowers of a light to middle value are visible at a greater distance than those below middle value, for below the centre of the scale, so to speak, color intensity ceases to make itself felt. For example, Sper's variety of monkshood is a very clear glowing purple, but the glowing flowers absorb into the background so quickly because of their dark value that it is useless to plant them as a "far" flower. On the other hand, Aconitum Napellus, another variety of the same flower, which is a few degrees lighter in value, and if anything less intense as to chroma,—is effective at considerably greater distance.

Of course, it is quite possible by the use of quantities of these flowers, more especially those of light values, to offset to a great extent the ineffectiveness of individuals, by multiplying numbers into a mass to make an impression on the landscape. This is true of Queen Anne's lace, a grayish-green-white flower; of certain of the asters; of the same sea-lavender I mentioned a while since. Moreover, in the case of many sorts of flowers, desirable to mass them in the distance, because of the beauty of such a misty cloud of flowers itself, or because the individual blossoms are comparatively uninteresting in shape.

Of course, many flowers which stand the strain of a "close" flower are ineffective in the distance as well, the larkspurs, California, Shirley and Oriental poppies, lilac, day-lilies, madonna lilies, Phlox Cocculus, licot and the white and salmon phloxes. The test which a "far" flower should be able to pass, is does its color carry well? Is it pleasing in quantity at a distance? And that which a "near" flower should fulfill: Is its form interesting and is its habit of growth a good one?

As a distinguished creation of the self-active, ambitious type of American amateur, the rock garden of Mr. Llewellyn represents the very best that can be accomplished with love. Picturesque, ruggedness in construction gives us the sensation of a happy and natural growth in its permanent character. Successive banks of foam are shown in the evacuation of flowers and foliage evoke cheer throughout the growing season, while the charm of the evergreen plantation's verdancy during dry, winter days never fails to impart its comforting effect on the human spirit and vision. Adding in this case Nature's priceless gift, the brook, humored down the moonlit path of fanciful suggestions by an artist, we not only feel the communicative joy of our most advanced rock garden amateurs over work compelling general admiration, but we also realize that rock gardens by virtue of their artistic merits will enhance the beauty of outdoor surroundings and in time become the pride of many refined American homes.
Whether the dining room be planned for a summer home, or in the low-toned restraint of wood paneling and tapestries, the furniture and accessories should be in harmonious relationship.

**Gifts for the Bride of June**

The June version of Ovington's Book of Gifts has just been printed. It contains hundreds of new and clever thoughts in gift giving. For Ovington's have gathered all the world over a marvelous collection of comely things which will thrill the heart of any bride.

The edition of this Book of Gifts is not unlimited, so we suggest that you write for it now.

OVINGTON'S

"The Gift Shop of Fifth Avenue"
FIFTH AVENUE AT 39TH STREET

An Enchanting Gift to the June Bride

The Brambach Baby Grand

Suggest the gift of a Brambach Baby Grand to any June Bride and watch her face light up with enthusiastic anticipation. For what new home maker does not dream of owning a Baby Grand?

The Brambach is a real artistic achievement—a compact grand piano—only 4 feet 8 inches long—individual in design and delightful and resonant in tone, at the price of a high-grade upright piano.

Displayed and sold by leading piano dealers everywhere.

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Mark F. Campbell, President
645 West 49th Street New York City

Kindly send me a Brambach Catalog, together with a Paper Pattern, showing the exact floor space the Brambach requires.

Name

Address
Wash and Bathe in Running Water

A Shower

When Fatigued

—proves the value of the shower when you are not

There's no better test of the shower—that it really does relieve fatigue and soothe frayed nerves—than to stand under those rushing, cleansing jets when you are really fagged out. Notice how the ache leaves the muscles, and how you are "toned up." It takes only a couple of minutes. And then again, you are clean, for you used the water only once—and it ran off.

Now, doesn't this instant relief of fatigue prove that the daily shower will build up a resistance against fatigue?

There are Speakman Showers for all bathrooms. The one shown, H-965, is a stall type. The *Mixometer controls the temperature of both the overhead shower and needle bath. Either of these can be used independent of the other.

*Mixometers, both concealed and exposed types have been used successfully for many years in residences, hotels and institutions. The Mixometer is exclusively a Speakman product.

Your plumber knows Speakman Showers. Ask him for a Speakman Shower booklet—or write us.

SPEAKMAN COMPANY
WILMINGTON, DELAWARE

PROMINENT FEATURES OF THE 1922 INTERNATIONAL FLOWER SHOW IN NEW YORK CITY

(Continued on page 100)

The F. R. Pierson exhibit included two distinct but logically connected units—a slope of shrub surrounded lawn and stream and, separated from it by a low hedge, this delightful spring bulb garden, with its sundial, seat and fountain pool. All of the gardens shown on these pages were gold medal winners.

One of Bobbink & Atkins' offerings was a rock garden built on a hillock, the summit crowned by a rustic summer-house. A wide variety of rock plants grew in it.

A glimpse in that part of the F. R. Pierson Co.'s garden which adjoined the bulb garden shown at the top of this page. One could scarcely believe that it was built indoors.
An Object Lesson
On Radiator Enclosures

HERE is a delightful morning room from which alluringly opens a conservatory. The radiators in the latter are carefully concealed behind an especially designed grille, while those in the morning room, being unhidden, stand out like iron sentinels on either side of the doorway.

How simple it would have been to have hidden them with a combination wood and metal enclosure, which is both simple to make and far from expensive.

The wooden part the owner could easily have had made, while we could have furnished the Decorative Metal Grilles, in any finish desired.

The sketches suggest two possible treatments, each using our regular Standard Decorative Grille designs, of which we have at least 500 designs to choose from.

Our booklet called "Radiator Enclosures" is full of help hint suggestions. You and your friends are most welcome to a copy.

Tuttle & Bailey Mfg Co.
2 West 45th St.
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KAPOCK
Silky Sunfast Fabrics

HANGINGS, upholstery, lampshades, wall coverings, all in rich, gorgeous KAPOCK with designs and colorings to match. Can you picture such a room?

Many suggestions for beautiful harmonious effects in our illustrated "KAPOCK SKETCH BOOK".

Send us your dealer's name and get it free.

Don't forget that KAPOCK'S fade-proof, wash-proof colors and its double width for splitting, make it the fabric economical.

Dep't C

Be sure it's KAPOCK. Genuine has name," or white bastng thread on selvage. —

~Crucet
Fan Stands

A BEAUTIFULLY decorative Electric Fan complete, with carved pedestal to match, in Black Enamel and Gold or Ivory Enamel with attractive color stripes. It is a charmingly new setting for an electric fan and fits delightfully into any interior, insuring comfort during the breathless summer hours. The Fan is specially quiet in operation.

It is fitted with a three speed guaranteed Universal Motor, operated on either direct or alternating current. The base is heavily weighted, and the fan, which may be tilted in any position, securely fastened to the pedestal making it safe for any location. Price $75.00, in either finish. 10" blade; height, 6'.

As dealers have not yet been selected in the various cities, you may order from us and we will ship through a New York dealer. When ordering by mail, send check or money order and fan will be shipped express charges collect.

Crucet Manufacturing Co.
292 Fifth Ave., New York
Choosing the Heating System

There are various kinds of heating systems, with much to be said in favor of each, but they are all embraced under two classifications: warm fresh air or reheated stale air.

Steam and hot water systems do not provide for fresh air, and the heat is so dry that the floors and furniture pull apart, veneers peel off, and many a valuable family heirloom is ruined. Then there is also the danger of bursting and leaking.

The Kelsey Warm Air Generator fills your house with warm, fresh air, a special cap forces an extra supply to the room that is hard to heat; the automatic humidifier provides a degree of moisture that produces health and comfort, the exhausted air is drawn off through vents at the floor line, and the cost for fuel is less than any other system.

Before you decide on your heating system, let us send you "Some Saving Sense On Heating" which explains the construction and operation of the Kelsey Warm Air Generator.

Prominent Features of the 1922 International Flower Show in New York City

(Continued on page 102)
IMPORTANT

Mr. Higgs announces the placing on sale of many examples from two important and historic houses of England. There are no less than eighteen Panelled Rooms from one house including superb Mantels and Furniture of the period. Also included are all the Garden Ornaments, Fountains, Lead Figures and Marble Statuary, very important Paintings and rare Chinese Porcelains. A list of the objects will be forwarded on request.

11 East 54th St. New York City

ROOKWOOD POTTERY, TILES & SCULPTURE
give distinction to the house and garden.

THE ROOKWOOD POTTERY COMPANY
Rockwood Place, Cincinnati, Ohio

Danersk Decorative Furniture

IN Danersk Furniture you have a flexible medium, an opportunity for self-expression in the furnishing of your home. You may select and assemble individual pieces in the spirit of a collector and view the result as an achievement that worthily reflects your cherished ideas of fitness and beauty.

For example, the Spanish Group in old ivory and blue may appeal to you. This group was made with full appreciation of beauty in color and integrity in construction. If you are given the opportunity of choosing just the pieces you want for a given room and can have them finished in some delightful scheme that is just what your home needs, does this not mean more to you than mere furniture? Perhaps the reason why the most prominent decorators are constant users of Danersk Furniture is because such variety and completeness of individuality are obtainable in it. Decorators and their clients are always welcome.

Send for Early American Brochure C-6

ERSKINE-DANFORTH CORPORATION
2 West 47th Street, New York.
The House You Will Call Home

EVERY element in it from cellar to roof must live long in order to serve economically. Take the piping system for example—how important it is that the best pipe should be used. How important it is that Reading Genuine Wrought Iron Pipe should be installed throughout.

Reading Wrought Iron Pipe, having the ability to resist corrosion, lives on an average two to three times longer than the best steel pipe. The use of Reading eliminates those frequent tear-up-the-house variety of replacements which are costly and extremely disturbing.

Many huge structures, including the Sears Roebuck Building in Philadelphia, are installed throughout with Reading Wrought Iron Pipe. Materials used in such buildings are bought with extreme care and almost exact knowledge as to the ultimate cost. The same practice should hold true when building your home.

Whatever your building operations may be, Reading Wrought Iron Pipe will best suit your needs. A talk with your architect will convince you of its low ultimate cost.

Write for the booklet, "The Ultimate Cost." It covers many interesting points on pipe installations and costs.

SEND FOR THIS BOOKLET
It contains instructive information on pipe costs and the best installation methods. Also literature on Reading Cut Nails, which hold and prevent squeaking doors.

STEEL IRON
The above are actual un-retouched photographs of vent pipes on Wanamaker’s Store, Philadelphia. Both these pipes were installed in 1907. Under like conditions Reading Genuine Wrought Iron Pipe far outlived the steel pipe. Note conditions of both pipes.

"Reading on every length"

READING IRON COMPANY
READING, PENNA.

BOSTON  BALTIMORE  CHICAGO
NEW YORK  PITTSBURGH  FORT WORTH
PHILADELPHIA  CINCINNATI  LOS ANGELES

World’s largest makers of Genuine Wrought Iron Pipe

Prominent Features of the 1922 International Flower Show in New York City

(Continued on page 104)

(Above) A corner in the headquarters booth of the City Garden Club of New York. It was designed by Ruth Dean, landscape architect.

Cromwell Gardens presented a delightful rose garden which was especially interesting because it was entirely practical to work out under outdoor conditions.

A third view of the Rochr exhibit, where the foreground was filled by a still pool among rocks, reflecting dark evergreens and rhododendrons lighted with the pink of their blossoms.
A Reading Lamp of Refinement and Beauty

This lamp, aside from being an object of beauty in itself, serves many illuminating needs which no other lamp of this type performs.

A lamp for reading; for the bridge table; unique in its flexible ability to throw a proper light on paintings, or on ornamental bindings in a bookcase.

Not a period lamp, but adorned with sufficient ornament.

Finished in any combination of colors; silver and blue enamel being especially recommended. Shade of silk or parchment.

We shall be pleased to submit sketches and advice to those genuinely interested in correct lighting fixtures.

Write for our small portfolio showing a few authentic pieces. Prices on request.

Robert Phillips Company, Inc.
Artisans in all Metals
101 Park Ave. (at 40th Street) New York City

The Tobey Furniture Company

Much of the world's finest furniture is painted furniture. Tobey artists create our furniture design—conceive the idea, work out the details, and execute them. Send for our brochure 4.

The Tobey Furniture Company

Wabash Avenue
CHICAGO

Fifth Avenue
NEW YORK
They Fight Film—They who have pretty teeth

Note how many pretty teeth are seen everywhere today. Millions are using a new method of teeth cleaning. They remove the dingy film. The same results will come to you if you make this ten-day test.

Why teeth are cloudy

Your teeth are coated with a viscid film. It clings to teeth, gets between the teeth and stays. Film absorbs stains, then it often forms the basis of thin, dingy coats. Tartar is based on film. Old brushing methods do not effectively combat it. So most teeth are discolored more or less. Thus film destroys tooth beauty. It also causes most tooth troubles. It holds food substance which ferments and forms acid. It holds the acid in contact with the teeth to cause decay.

Germs breed by millions in it. They, with tartar, are the chief cause of pyorrhea, now so alarmingly common.

Now a daily remover

Dental science, after long research, has found two ways to combat film. Authorities have proved their efficiency. Now leading dentists, nearly all the world over, are urging their daily use.

A new-type tooth paste has been created to comply with modern requirements. These two film combatants are embodied in it. The name of that tooth paste is Pepsodent.

Its unique effects

Pepsodent, with every use, attacks the film on teeth. It also multiplies the starch digestant in the saliva. That to digest the starch deposits which may cling to teeth and form acids.

It multiplies the alkalinity of the saliva. That is Nature's neutralizer for the acids which cause decay.

In these three ways it fights the enemies of teeth as nothing else has done.

One week will show

Watch these effects for a few days. Send the coupon for a 10-Day Tube. Note how clean the teeth feel after using. Mark the absence of the viscid film. See how teeth whiten as the film-coats disappear. Enjoy the refreshing after-effects.

Do this to learn what millions know—the way to whiter, cleaner, safer teeth. Cut out the coupon now.

10-Day Tube Free*
THE PEPSODENT COMPANY, Dept. 927, 1194 S. Wabash Ave., Chicago, Ill.
Mail 10-day tube of Pepsodent to

* Only one tube to a family

First prize in the model garden competition was awarded to Mrs. Charles Willing, Chestnut Hill, Philadelphia

Prominent Features of the 1922 International Flower Show in New York City

(Above) Mrs. Albert R. Ledoux's spring flowering window box won first prize in Class B

Another prize-winner in the window box competition was made up entirely of foliage plants

The miniature garden contest brought out some excellent entries. This second prize winner was only about 3' square
For the Fireplace in Your New Home

With this beautiful gas fire you can save several hundred dollars on each fireplace because it does away with the expensive large flue and ash pit.

You can install a Radiantfire for the price of ordinary fireplace equipment and have double the heat at less cost. See one at your gas company or your local dealers or write for booklet.

GENERAL GAS LIGHT COMPANY

No. 112 Colonial Design
For 24" to 36" openings

June, 1922

105

ICE CREAM without cranking!

In the Auto Vacuum, ice cream literally makes itself.

THIS freezer has no crank! Simply put ice-and-salt in at one end; the cream mixture at the other. Set the freezer aside, and leave it alone (with an occasional stir) — and the ice cream makes itself! It is a neat, all-metal container, white enameled, as light as aluminum ware.

SMOOTH ice cream can now be made in less than an hour with no labor, and with much less ice than before.

Pure, home-made ice cream is a treat indeed! It's a pleasure now from start to finish!

Write for interesting booklet "I"—

Desserts That Make Themselves.

AUTO VACUUM FREEZER CO., Inc.
220 W. 42nd St. New York, N. Y.

EAT WITH YOUR EYES

Acquire this Sixth Sense by Using

The Refined American Paper Doilies

USE your porch more this summer. Aerolux Porch Shades will keep out the sun's glare, but let in plenty of fresh air from top to bottom. Easily hung, substantially made, finished in many pleasing colors.

THE AEROSHADE COMPANY

3130 Oakland Avenue

Eat with Your Eyes

Acquire this Sixth Sense by Using

The Refined American Paper Doilies

Under All Moist Foods
where the use of real linens offends good taste.

Also Under
Fruits, Soups
Rolls, Ices
Meats, Cakes
Candy and 100 et ceteras.

Appetizing Daintiness Without Labor

The American Paper Doily — a Delicate Illusion of Lace and Linen

AMERICAN LACE PAPER COMPANY

MILWAUKEE, WIS.

American Lace Paper Co. Name

Milwaukee, Wis.

Under All Moist Foods
numbers for the enclosed $1.00 bill.

Address

Sat with your Syes
acquire this Sixth Sense by Using

The Refined American Paper Doilies
The flower flies are those swift darting little fellows that have a way of poising motionless in mid-air for seconds at a time.

Mimicry is apparent in some species of flies. Certain kinds resemble bees, others look like wasps, and still others suggest bumble-bees.

**The RELATION of FLIES to FLOWERS**

All flies, generally considered, are a pest. But this superficial opinion is far from the truth, for if their life-history is somewhat closely observed, it must be revised in their favor. Some of the flies may be considered as health police which, wherever a vegetable or animal body is going over to decay, will soon come to remove it. Others are vicious blood-sucking fellows. And, between these two extremes, are found the honey or flower flies, dainty and beautiful insects which have adapted themselves to visiting flowers.

The group of flies is not so very old. The carboniferous period with its flowerless plants could not offer them sustenance. The remains of the first numerous species belonged to the families of Bibionida (March flies), Muscida (house flies and their allies), Syrphidae (flower flies), Oestridae (gall flies and bot flies), Empidae (dance flies), Asilidae (robber flies), Culicidae (mosquito), Cecidomyidae (midges), etc. So one can say that the development of the flowering plants went hand in hand with the development of the flies. Even today the fly and the flower are closely related.

A number of families are specially organized for pollination, while others, lacking this specialization, are still sufficiently numerous to be important in the fertilization of the flower. In the class of Brachycera there are many genera which do this work, as they are just as important as many butterflies. The pollen is usually carried by the hairs of the body and is so transmitted from flower to flower.

The flower flies, thick-headed flies (Conopidae), bee flies, and dance flies are the most important insects in this

(Continued on page 108)
The Porch Beautiful and Comfortable—Is a Vudor Porch

Whether viewed from the exterior or interior, Vudor Ventilating Shades enhance the appearance of any porch,—but their greater service lies in their ability to subdue the sun's heat and glare, keeping your porch cool as a mountain top and shady as an arbor.

Why go away this summer when you can enjoy vacation comfort on your porch enclosed with Vudor Shades. Eat, sleep and entertain on your porch—secure from curious eyes.

Vudor Shades are made of wood slats beautifully stained in permanent colors—arranged so that you are passers-by but they cannot see you. Ventilator woven in top—exclusive Vudor feature—assures perfect ventilation. There's nothing quite like them for appearance, utility and comfort. Write for color illustrations, prices and name of local dealer.

An Unseen Refinement that Banishes the Garbage Can

In hundreds of carefully planned homes of more recent construction there are no unsanitary, unsightly waste receptacles to mar the neatness of well-kept grounds. Their place is taken by the Kernerator, a brick incinerator built into the base of the chimney when the house is erected, that disposes of all household waste—wilted flowers, broken crockery, tin cans, garbage.

This material is dropped into the handy hopper door, located on the first floor in the flue, and it falls to the brick incinerator in the basement. At intervals it is lighted and burns itself up without odor. Non-combustibles are dried and sterilized and later dropped into the ashpit. The Kernerator costs nothing to operate since no coal, wood, gas or oil is required for fuel.

Ask your architect about the Kernerator and write for an interesting booklet we have just prepared, showing some of the fine homes in which it is installed.

KERNER INCINERATOR CO.
1025 Chestnut St., Milwaukee, Wis.

Perfect Protection for Your Walls, Decorations and Draperies

Here is a means of protecting your wall-paper from those unsightly black smudges and reducing the dirt and dust in your rooms to a minimum. The patented Dust Trap, an exclusive Shapco feature, inconspicuously placed under the top of the shield makes a trap for the dust and soot carried by the heated air. The accumulated dust is easily reached and removed with a damp cloth.

Beautifies any Radiator

Shapco Radiator Shields are artistic in design, adding grace and beauty to any radiator—highly ornamental as well as useful. They have metal bases and sides, and metal tops support various colored marbles or plate glass over cretonne, damask or brocade.

Write us for full information and name of nearest dealer

Sodemann Heat & Power Co., 2382 Morgan St., St. Louis
The Relation of Flies to Flowers

(Continued from page 106)

respect.

Some of the other flies use the Gifts of the flower in a superficial manner. The flower is highly vital, but the distinctive flowers of the larvae and dead flowers from the ground. This family feeds on red flowers, little creatures hovers in one and the same spot for seconds on end. This family has more flowers than other families combined, the larvae is a companion, and it feeds on the flowers of a wide variety of plants, and especially on the flowers of the.false. The hairy bodied flies are ideally adapted for fending and transmitting pollen from flower to flower; they are not the only insect that can perform this service. The larvae of the Muscidae and Stratiomyidae also drink nectar and eat pollen, and so become important as cross-pollinators.

Siding, shingles and other parts exposed to soil moisture and the weather are built of Redwood.

Every fibre of Redwood is impregnated during the growth of the tree with a natural, odorless preservative which protects it against all forms of rot and decay as well as against the elements and the attacks of boring worms and insects.

Redwood is not expensive. It gives permanent beauty to your home and keeps down repair expense.

If you are planning to build, send for "Redwood Homes" booklet. To architects, engineers and industrial executives we will gladly send our "Construction Digest" and our "Engineering Digest".

The Pacific Lumber Co.

"The Western wood for Eastern homes"
From Old Virginia famous for its fine old colonial mansions comes Flint-Arrow Blue Slate
THE LATEST AND MOST ARTISTIC SUR-FACING FOR COMPOSITION SHINGLES.
For generations this slate has been the favorite roofing on many southern homes. The soft, charming effect of these old slate roofs can now be obtained everywhere by using Flint-Arrow Blue Slate ON YOUR SHINGLES.
A quiet silver-blue color tone—everlasting and un-changing—Nature's own shade as slate is mined from earth FLINT-ARROW BLUE SLATE SHINGLES LEND DIG-NITY AND OLD TIME CHARM TO YOUR HOME.
Many manufacturers supply shingles of Flint-Arrow Blue Slate Ask your dealer or write us for samples.
BLUE RIDGE SLATE CORPORATION
ESMONT, VIRGINIA

The Welcoming Glow — that Safeguards and Directs

A well lighted driveway is appreciated by your friends and shunned by mischief-makers and evildoers. And the artistic charm of Smyser-Royer Exterior Lighting Fixtures gives your grounds an added beauty by night—and day.

The Smyser-Royer Line Meets Every Exterior Lighting Need

Let us put our experience at your disposal in selecting the fixtures which will best harmonize with your house and its surroundings. Our illustrated booklet—The Lamp of Hospitality—shows a selection of lanterns and lamp posts for estates, country homes, town houses, community lighting and public buildings. The coupon below will bring you a free copy.

SMYSER-ROYER COMPANY
Main Office and Works: York, Pa.
Philadelphia Office: 1609 Sansom St.
SEND US THIS REQUEST BLANK for "The Lamp of Hospitality," a little book containing some interesting information on Exterior Lighting. Every architect and contractor should have our Catalog "E."

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Main Office and Works: York, Pa.
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SEND US THIS REQUEST BLANK for "The Lamp of Hospitality," a little book containing some interesting information on Exterior Lighting. Every architect and contractor should have our Catalog "E."

A Comfortable Home

Proper Heating and Ventilating are important considerations in every home. It is criminal carelessness to ignore them, for pure, fresh air is vitally essential to life and health. Thousands of homes are comfortably heated and amply supplied with an abundance of pure, fresh air through the efficient operation of "FarQuar"
SANITARY HEATING SYSTEM
Health-destroying heat in both illusory and devitalizing. Reheated air is unfit for breathing, and stale air, heated and re-heated, is positively injurious.
The temperature of a FarQuar Heated Home is distinctly refreshing. As one FarQuar owner said, "My FarQuar System produces a coolness that is comfortable."
An interesting booklet, "The Science of House Heating"—discloses some remarkably vital facts about healthful home heating and ventilating. A copy mail-free on request.
THE FARQUHAR FURNACE CO.
766 FarQuar Building Wilmington, Ohio

City Water Service in the Country

Many country homes far beyond the city limits enjoy perfect water service. The Paul System pumps water automatically as it is needed to any part of the property and keeps it under pressure for instant use. The mechanism is simple, compact and quiet.

Write us for interesting descriptive matter. Our nearest branch will be pleased to explain the system fully.
FORT WAYNE ENGINEERING & MFG. CO.
NO. 1724 NORTH HARRISON ST. FORT WAYNE, INDIANA
Learn more about convenience in the home

Send for this free home book

INSTANTANEOUS Hot Water, provided by a Hoffman Automatic Heater, saved an average of seven hours time each week for Mrs. Marion Stanley Adams, in addition to supplying greater comfort than her home had previously known.

Read the interesting story by Mrs. Adams and also the instructive article by Robert J. Kirk in the handsome new book offered in the coupon below. The experience of these two in no way differs from that which thousands of Hoffman Water Heater owners enjoy every day.

The Hoffman is "the heater with 77 less parts" which supplies all the hot water you want at the exact moment you want it, by merely turning the faucet. No waiting. No waste.

Get your copy of this book at once. It contains full information about instantaneous hot water and Hoffman Heaters. Send coupon today.

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LORAIN, OHIO
Branches in all important centers

Hoffman Instantaneous Automatic Water Heaters
For All Homes Using Gas
The Hoffman Heater Co. is an independent organization, not affiliated with any other heater company, paying no royalties.

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Please send me your new "Three Books in One," including full information about Hoffman Water Heaters.

Name
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City
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The set of rope ring toss above may be purchased for $3.50. The four rings have a wire insert making them strong and rigid. Extra rings $3.50 each

MORE GAMES FOR THE GARDEN

Which may be purchased through the House & Garden Shopping Service
19 West 44th Street, New York City.

In Bull Board one tries to throw the rubber discs on the numbers and not on the bull. Board 3' x 4' $20

A set of double court marking tapes with nails, staples and directions for putting down is $7. Net $4. Racquets $2.25 to $14

An unusually beautiful set of croquet of imported English dogwood, has metal bound mallets, balls of solid color and twisted, white enameled candlestick wickets, with painted sockets and caps. The box is fitted with a special compartment for each part of the set. A four ball set is $25, eight ball $38
CRITTALL
Steel Casements
for artistic residences and
other substantial buildings
Made in varied designs to meet all conditions
CRITTALL CASEMENT WINDOW CO.
Manufacturers Detroit Michigan

THE "VISION" OF PEARL WIRE CLOTH
ALTHOUGH Beauty and Economy are the foremost
features of a PEARL Wire Cloth window, another of great
importance is Vision.
Due to its smooth metallic finish and even mesh,
coupled with its color, which turns to an "invisible" gray shortly after installed, PEARL offers practically
no obstruction to the vision, and the occupants of a
PEARL Screened Room enjoy the beauty of the out­
door view.
This feature does not hold with painted cloth. PEARL
requires no painting. It resists against repairs, con­
tinued painting and the petty annoyances that less
durable wire cloth gives.
Buy only the Genuine, which has two copper wires in
the selvage and our red tag on every roll.
Call on our local dealer or write direct for samples
and literature. If you’re interested in screen material.
Address Dept. "G".
New York, Georgetown, Conn. Chicago, Kansas City
G & B Pearl is made in two weights—regular and ex­
tra heavy. The best hardware dealer in your city
sells "PEARL."

The Story of The Cracked Piano
"I had a beautiful mahogany upright piano and by reason of shutting our
house up for several months—with poor climatic conditions—I found that
the surface of the piano had become dull and covered with tiny cracks.
"I tried several polishes but they did nothing more than make the condi­
tion seem more noticeable. Then I tried

LIQUID VENEER
with really astonishing results. True, the cracks did not disappear but
there was a rapid improvement in the appearance of the piano. The cracks
became barely noticeable and the finish seemed to take on new life and lustre.
"I use Liquid Veneer in my daily dusting on all my fine furniture."
The use of Liquid Veneer is a distinct economy. It saves expensive
refinishing.
At all grocers, druggist, hardware, paint, furniture dealers and depart­
ment stores—50c, 60c, $1.25 a bottle.
BUFFALO SPECIALTY CO.
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BOHN SYPHON REFRIGERATOR
The unusual efficiency and economy in preserving food in a BOHN SYPHON
REFRIGERATOR have added a feeling of satisfaction that has expressed
itself in the form of a "pride of ownership" that is difficult for those who do
not own one to understand.
Adapted by the Pullman Company and dining car service of all American Railroads.
New York Exhibit BOHN REFRIGERATOR CO.
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The High Cost Of Tearing Out Corroded Piping

Water pipe that corrodes must be torn out at the end of a few years. Walls must be opened and floors and pavements ripped up to reach concealed lines and service pipes.

Use ANACONDA brass pipe for hot water and service lines and for concealed work, and all the cost of corrosion, all the expense and disorder occasioned by tearing out corroded pipe are avoided.

ANACONDA brass pipe resists corrosion. It is made by a process developed as a result of fifty years' experience.

Every piece of ANACONDA brass pipe is guaranteed against splitting.

THE AMERICAN BRASS COMPANY
GENERAL OFFICES: WATERBURY, CONN.

MILLS AND FACTORIES
Ansonia, Conn. Torrington, Conn. Waterbury, Conn. Buffalo, N.Y. Kenosha, Wis.
Fairy Fuel sprinkled on your log fire gives the beautiful colorings produced by burning driftwood. In the fascinating flames you can see the blue of the sky, the green of the sea and the red and gold of the setting sun. Pack age postpaid, $1.

Fruit Board Tray & Knife

Used and convenient for preparing grapefruit, oranges, etc. Invaluable when preparing salads. Tray has groove to save fruit, oranges, etc. Invaluable when preparing salads. Tray has groove to save

The Permutit Company
440 Fourth Ave., New York

You Can Enjoy Soft Water from every faucet in your house

No matter how hard, how unsatisfactory your present water supply is, a Permutit Water Softener will give you a steady flow of delightful, soft water from every faucet in your house for about 5 cents per day. It is entirely automatic, with nothing to get out of order. No chemicals are used and it operates on regular city pressure without any additional pumps or motors.

Permutit material possesses the wonderful property of absorbing all hardness from water that is passed through it. From time to time it is regenerated by adding common cooking salt, and that is absolutely all the operating expense there is. You just dump some salt into the softener and let the water run through it into the sewer for a few minutes. No salt is carried into your house lines and the Permutit is made absolutely as fresh as new.

Thousands are in daily use everywhere—hundreds of doctors have Permutit in their homes. Ask for our free booklet, “Soft Water in Every Home.”

Build NOW!

Now is the time to build that long-deferred home of your own! Building prices have reached new low levels. Longer delays are dangerous. One modern plan book contains many new ideas and helpful building hints. Will save you dollars. CRAFTSMAN BUNGALOWS, new 1922 Edition. Just off the press! Recognized as the standard plan book on bungalows. 112 pages of new plans, photos, sizes, costs, etc., of scores of attractive homes and bungalows ranging from $800 to $5,500 to build. Adapted to any climate. Most practical book published. New edition sent postpaid for $1.

COLONIAL PLANS, DE LUXE

Unusual, distinctive and worth while should be in the hands of every prospective builder. Recognized as the most magnificent artistic pictures and plans of moderate-priced Colonial homes and residences. Only 50c postpaid.

Order both books today. Money back if dissatisfied.

Your Casement Windows to be satisfactory must not slam

MONARCH

Automatic Casement Stay

holds window so securely that even in a storm it will not slam.

Can be attached concealed or exposed, at right or left, top or bottom. Sold by hardware dealers everywhere.

Our booklet, “Casement Windows,” will prove interesting and helpful—write for copy.

MONARCH METAL PRODUCTS COMPANY
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ANOTHER CABOT HOUSE

Three Cabot products add value to this house

Cabinet Creosote Stain

at the so-called "hard" woods are softer than some of the so-called "soft" woods? They proved that it required 750 pounds pressure on a steel ball to make a dent one-fifth of an inch deep in birch. Birch is beautiful but it is also durable.

Ask us to send you, free, the illustrated birch book showing the beautiful effects you secure with birch and telling you all about this ideal hardwood.

THE BIRCH MANUFACTURERS

219 F.R.A. Bldg., Oakshosh, Wis.

Economical

Beautiful

You know, of course, that you need and want hard wood for the INTERIOR TRIM, DOORS, FLOORS and FURNITURE in your home.

What do you know about hard woods?

Do you know that some of the so-called "hard" woods are softer than some of the so-called "soft" woods? Do you know that the U. S. Forest Products Laboratories has proven by test that birch is one of the hardest of hard woods?

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THE BIRCH MANUFACTURERS
Safely from Ridge to Ground

Your roof catches the rain or snow, but it is your valleys, gutters and leaders (down spouts) that carry the rain or melted snow to the ground. If your valleys or gutters leak, due to rust or corrosion, your decorations and furnishings are at the mercy of the elements, no matter if your roof proper is in perfect condition!

If your Valleys and Gutters are TARGET and ARROW ROOFING TIN your decorations and furnishings are absolutely safe, for TARGET AND ARROW is made to last, and while its first cost is slightly more than ordinary roofing tin you will save many many times your original investment by preventing costly damage to your favorite furniture and fittings.

Send for "THE ACHILLES HEELS OF A BUILDING" a graphic chart showing where gutters, valleys, flashings and other vital spots occur in the roof of a building and explaining how and why "Target and Arrow" assures permanent protection to these important places.

N. & G. TAYLOR COMPANY
Headquarters for good roofing tin since 1810

PLANT GALLS AND THEIR FORMATION

Those peculiar protuberances and growths on leaves, twigs and stems of grasses and shrubs, trees and bushes, in field and woods, are not a part of the normal plants. They are made by the introduction of an egg of a small insect into the tissues of the plant, and the resultant swellings are called galls. Those creatures producing such abnormalities belong to the group of flies, bugs, butterflies, flies, saw-flies and gall wasps.

Now, there are two types of galls, the organological and the histological. The former are growths of the organs, the latter are deformations of the tissues. It is the latter class of peculiar swellings which are most generally considered as galls, but from a theoretical standpoint, the former are much more interesting after one has observed how different such deformed organs are from the natural ones. All the numerous forms and shapes of these abnormalities in both structure and organ show that the gall producing insects possess a certain substance or irritant with which they are capable of producing them. The shapes of such galls are most varied, and the histological galls produce forms resembling burrs, balls, knobs, tubercles, warts, clubs, flakes, etc.

When a gall fly or any other gall producing insect lays its egg in plant tissues, a tiny drop of fluid is excreted with it. If no egg is laid, but the fluid discharge is produced, a gall is produced. As a general rule a chemical stimulus for the development of the excrescence is exerted through the development of the egg, and it is undoubtedly the waste products excreted through the development of the embryo which produce an action. The form and shape of the gall is various, and it varies with the plant upon which it was produced and the animal creating it. Cercidium artemisia produces two different kinds of galls upon two different kinds of plants; the one formed on Artemisia campestris differing decidedly from that formed on A. scoparia. The galls of different insects differ upon the same plant, and two related plants react differently to this same stimulus. But the chemical of related species does not seem to be so pronounced in this respect as in the which are not so related. Those cells of the interior of the gall which have been eaten by the larva soon grow again. Therefore, after the egg has been deposited, a malignant growth is produced in the plant tissues which some times can be mistaken for an organic formation in the plant. Its tissues, just like those of a healthy plant, are provided with the necessary bundles, and can assimilate and grow and take up a reserve supply of food, all of which is absolutely essential for the well being and existence of the larva.

The form of a gall produced by a given insect upon a given plant is almost the same, and from the shape of this gall, the larva inhabiting it can always be definitely determined since each individual gall producing insect is dependent upon one individual, or group of closely related plants where its eggs pass through the normal stages of development. But some gall insects are known which live alternately upon different host plants and produce distinct galls.

(Continued on page 116)

A curiously formed gall that is quite different from the rest is found on the leaves of the wild cherry. These growths are caused by the introduction of an insect's eggs into the tissues of the plant, which swell in consequence.
For Beauty and Utility
When building, whether cottage, bungalow or mansion, your plans for Living Room, Den or other room should surely include a

Brecher Wood Mantel
You may have reproductions of Colonial or Period designs which have been worked out with the skill of artistic craftsmanship, and yet prices are moderate.

A limited edition of 32 beautiful mantles is just off the press, including No. 628 shown above. Let us know your requirements and book will be sent to you free.

LOUISVILLE, KY.

Beautiful Walls You Can Wash
SOFTWARE tinted walls, free from the disturbing influences so common to even the best of wall papers, reflect good taste, produce perfect harmony and make the home beautiful and sanitary.

KEYSTONA—the flat, oil paint that gives a clean linen finish to the walls—will add immeasurably to your pride and home comfort.

Easily applied, does not fade, and can be washed with soap and water, as often as desired, without the slightest injury.

If interested, write
KEYSTONE VARNISH COMPANY
Hull, England Brooklyn, N. Y.

An Artbrass Knocker
Is the pre-eminent feature of your house hardware. It is the hallmark of your personality. It is your certificate of good breeding.

No other essential part of the furnishings of the well-appointed home more completely and harmoniously links history, sentiment and artistic temperament to that of utility than the Door Knocker.

An Artbrass Knocker will give faithful service to you, to your children and to your children's children. Once placed upon the threshold of your home, it is everlasting.

ART BRASS COMPANY, Inc. Dept. H. G. 6
299 East 134th Street New York
Also makers of the Famous SAN-O-LA Bath Room Accessories

Leavens Colonial Furniture
You select the examples you prefer and we carry out your wishes in the matter of finish—supplying you with unfinished pieces which may be finished or decorated to order. This service applies to our modern line as well as to the Colonial Furniture.

WILLIAM LEAVENS & CO., INC.
32 Canal Street, Boston, Mass.

The Furniture of Early America
Every piece of Leavens Colonial Furniture is a true example of the furniture of our forefathers. It is distinguished by its simple beauty, sturdy construction, and adaptability. It may be adapted as the general motif of an interior, or simply as a piece here and there.

HONEYCOMB BOTTLE RACKS
Save space and avoid loss. Made to measure in sheet metal to fit anywhere. Shipped folded and boxed. Illustrated Price Lists

H. SOELLNER
301 E. 56th St., New York City

An Ideal Gift
This Barometer makes a highly prized and lasting remembrance. Fully guaranteed. Permanent to any address on receipt of State finish desired.

Send in your order today.

W. H. WHITE
Dept. H, 419 East Water St.
Milwaukee, Wis.
Anchor-Weld
Gates and Railings

Electric welding of iron gates and railings is a tremendous advance in the art of fence building. In the Anchor-Weld process, grooved square rods as pickets are placed between pairs of similar rods as top and bottom rails, and permanently fused by electro-welding, under great pressure.

The result?—Panels up to ten feet in length, without necessity of center-support; light and graceful in appearance, yet permanently rigid and perfectly aligned. No sagging rails; no rattling pickets.

“GOOD FENCES”

We have prepared this 16-page catalog, an attractive Rotogravure, 8½" x 11", to show you actual installations of representative types of Anchor Post Fences, Gates, and Railings. It is sent free on application to any address below.

ANCHOR POST
FENCES—GATES—RAILINGS

ANCHOR POST IRON WORKS
HUDSON TERMINAL BUILDING
52 CHURCH STREET
NEW YORK, N. Y.

Sales and Erecting Offices in:

BOSTON 42 Marl St.
CHICAGO 600 Dearborn St.
CINCINNATI 60 North Eg.
CLEVELAND Guardian Life
HARTFORD 25 Main St.

PERMANENT—BECAUSE THEY ARE GALVANIZED

An entirely different type of gall is shown here. It is a comfort to know that these extreme deformities are the exception rather than the rule in the well-cared for garden.

Plant Galls and Their Formation

(Continued from page 114)

tive and characteristic galls in each case.

If the galls are closely studied, one always finds that the cells of the plants have developed contrary to normal. Sometimes it is an abnormal growth of the tissues, but not invariably so, and invariably the gall is produced where the tissues are young and susceptible to foreign particles which, when acted upon for a considerable time, influence the meristem—the growing part of the lateral cylinder. This pressure exerts such an influence upon the meristem that it is stimulated to an intensive development of new cells. To this must be added the chemical action produced through the excrements of the larva, which demands a development of the leaf in a certain definite direction. Just what these substances are is not known with any degree of certainty, but it is believed that it must be an enzyme which causes this enormous change both in the tissues of the meristem and sometimes even in the plasma.

The influence which these galls exert upon a plant are manifold. Usually the excrements on certain parts of the plant. Here an abnormal production of wood cells takes place where, under normal conditions, no such change occurs. There are no few cases where, through the sting of an insect, organs are formed. In general it cannot be said that the plant is injured by the formation of galls, but on the other hand, it does not derive any benefit from them.

The simplest galls are the capsule galls which are produced by those animals which are continually on the outer side of the leaf where they also multiply. Through a continual stimulus, a malignant growth is formed which takes the shape of a hollow cell in which the animals are protected. Such galls are usually found on the leaf blade. Some of them rise above the surface of the leaf, and the hollow formed by this growth serves the insect larva for its home. The folded galls also belong here, and these forms are deeply indented and sometimes hollowly curved, the upper side forming a narrow slit and projecting below the under side of the leaf surface. Such homes are usually produced by mites. Wrinke galls are those which are generally produced on the veins. These are not so very prominent, although the upper side of the leaf is provided with buckles and hornlike projections. Wart galls are more or less distinct projections on the leaf surface, often being provided with curious secondary eminences.

Pith galls are simple galls producing local growths and making their appearance on certain parts of the plant. Here the plant tissues are attacked and the wound so made receives the excrements of the larva through a continual stimulus, a malignant growth is formed which takes the shape of a hollow cell in which the animals are protected. Such galls are usually found on the leaf blade. Some of them rise above the surface of the leaf, and the hollow formed by this growth serves the insect larva for its home. The folded galls also belong here, and these forms are deeply indented and sometimes hollowly curved, the upper side forming a narrow slit and projecting below the under side of the leaf surface. Such homes are usually produced by mites. Wrinke galls are those which are generally produced on the veins. These are not so very prominent, although the upper side of the leaf is provided with buckles and hornlike projections. Wart galls are more or less distinct projections on the leaf surface, often being provided with curious secondary eminences.

The cavities thus formed are larval cells, and of these some are one chambered (Continued on page 118)
Walter Camp's New Way to Keep Fit

Walter Camp, Yale's celebrated football coach, has been teaching men and women everywhere how to keep fit—"on edge"—full of bounding health and youthful vitality—and how to enjoy doing it. Walter Camp says that a civilized, indoor man is a "captive animal," just as much as a tiger in a cage. But the tiger instinctively knows how to take the kind of exercise he needs to keep fit—he stretches, turns and twists his "trunk muscles"—the very same muscles that tend to become weak and flabby in indoor men and women. With Mr. Camp's permission the "Daily Dozen" exercises have now been set to spirited music on phonograph records. They supply exactly the right movements to put these vitally important "trunk muscles" into the pink of condition, and keep them there. These twelve remarkable exercises, done to music, with a voice on the record calling out the commands, are all you need to keep your whole body in splendid condition—and they take only 10 minutes a day. You will also receive a set of handsome charts, with actual photographs showing exactly the move to make at each command. It is simple as A-B-C.

RECORD FREE

See for yourself what Walter Camp's "Daily Dozen" combined with the Health Builder System do for you—without a dollar of expense. We will send you, entirely free, a sample phonograph record carrying two of the special movements, with a voice giving the directions, and keep them there. These twelve remarkable exercises, done to music, with a voice on the record calling out the commands, are all you need to keep your whole body in splendid condition—and they take only 10 minutes a day. You will also receive a set of handsome charts, with actual photographs showing exactly the move to make at each command. It is simple as A-B-C.

HEALTH BUILDERS
Dept. 596, Oyster Bay, N.Y.

NAME ____________________________
ADDRESS ____________________________

The free sample "Health Builder System" exercises, giving two of Walter Camp's famous "Daily Dozen" exercises, are yours absolutely free. Also a free chart showing positions, with complete directions. Get this free record, put it on a phonograph, and try it. There is no obligation—the record is yours to keep. Just enclose a quarter (or 25 cents in stamps) with the coupon to cover postage, packing, etc. Send coupon—today—now—to Health Builders, Dept. 596, Oyster Bay, New York.

FREE SAMPLE RECORD AND CHART

SUNNY HAIR DRYER

makes Hair Drying Easy & Comfortable!

Dry your own!

Simple as turning on the light—Delightful as expert treatment! A convenient base socket attachment leaves your hands free and saves your arm from a tiring, cramped position. You may read, sew or manicure while your hair is drying.

Comfort—relaxation—speed! $19.50.

At your Electrical Dealer, or direct for $19.50.

John Jorgensen Co.
120 Liberty St. New York

FRECKLES

Now Is the Time to Get Rid of These Complexion Blemishes

There's no longer the slightest need of feeling ashamed of your freckles, as Othine—double strength—is guaranteed to remove these homely spots. Simply get an ounce of Othine—double strength—from any druggist and apply a little of it night and morning and you should soon see that even the worst freckles have begun to disappear, while the lighter ones have vanished entirely. It is seldom that more than an ounce is needed to completely clear the skin and gain a beautiful clear complexion.

Be sure to ask for the double strength Othine as this is sold under no other name.

Health Builders, Dept. 596, Oyster Bay, N.Y.

REDUCE Easyli... Naturally

Three Slices of Basy Bread a day, Help reduce your weight in a natural way.

Doctors' Essential Foods Co., Orange, N. J.

Gentlemen: Herewith please find check for a course of Basy Bread for my sister. I have ordered for my friend, hoping that thirty pounds. Your advice as to how to retain my present weight will be appreciated.

Mrs. E. W. New York

DOCTORS' ESSENTIAL FOODS CO.
35 Oakwood Ave.
Orange New Jersey

BASY BREAD

REDUCED REGISTERED TRADE MARK

FREE Trial strip of Tirro. Mail coupon below

Tirro Protect your fingers this new way

Tirro protects the fingers from callouses and blisters. Just the correct width to do the job right. Better, by far, than a glove. Keep a spool always in your golf trousers.

Use Tirro, too, for a grip on a tennis racket; to hold torn cloth together; for repairing quickly the things ordinarily discarded. Sticks to anything—and water-proofed. "Wonderful!" you'll say.

MAIL THIS

Tirro MAIL THIS

For Free Strip

BAUER & BLACK
2500 Dearborn St., Chicago

Name ____________________________
Address ____________________________

City ____________________________ State ____________________________
An Alluring Reward for Promptness!

Our Special Border Collection of Gorgeous Darwin and Cottage Tulips (as pictured above in order from right to left)

<table>
<thead>
<tr>
<th>Variety</th>
<th>Per 100</th>
<th>1000 Bulbs</th>
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<tbody>
<tr>
<td>Pride of Charming lavender Darwin</td>
<td>$4.00</td>
<td>$35.00</td>
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<tr>
<td>Golden Beauty color 4.00 45.00 Darwin</td>
<td>$5.00</td>
<td>$45.00</td>
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<tr>
<td>Queen-Buff tinged with golden bronze</td>
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<tr>
<td>La Tulipote Enormous size Darwin</td>
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<tr>
<td>Golden Beauty yellow Cottage</td>
<td>$4.50 4.00</td>
<td>$40.00</td>
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</tbody>
</table>

25 Bulbs at 100 rate; 250 Bulbs at 1000 rate

Very Special
100 bulbs each of 7 varieties above (700 in all) $30.00
1000 bulbs each of 5 varieties above (7000 in all) $275.00

Special 5% discount if you send cash with order

Schling's Bulbs
26 West 59th St. New York

C O U P O N

An alluring reward for promptness is offered by the early arrival of Darwin Tulips, which are available from September 10th. The Darwin Tulips, known for their long-lasting blooms and grace, are a favorite among gardeners. A special discount of 10% is offered for提前 orders. Orders can be placed through the coupon provided, or by sending cash with the order.

Plant Galls and Their Formation

(Continued from page 100)

While others may have a number of them, the galls show all kinds of types and degrees of ornamentation and it is reasonable to suppose that they protect the larva living within. In many cases, at that particular spot where the insect has wounded the tissues, no swelling takes place, a canal being left open. When it does close, corky tissues are formed. The larva is then completely cut off from the outside world, and pupates within the gall.

Some of the first galls open by means of a cover, as is the case with Cedrosia corys found on the Turkish oak. Here, the gall forms tiny pointed eminences, the under surface carrying a flat disk thickly covered with fine hairs, bosoms in the fall and falls off. The larva fall to the ground and pupate under the soil. Another gall-fly, Hormomyia reaumuriana, produces a gall on the leaf of Tilia europaea, the European linden or basswood, in which a second gall is found by forming a compartment within the gall. The tip of the outer gall turns yellow in July at the same time that a groove is produced about it. The inner gall is now completely boxed in. The tissues at the bottom of the outer gall begin to grow and swell and soon eject the inner gall with its larva, both falling to the ground.

E. Bane.
Order before July 1st and Obtain Special Prices on IMPORTED DUTCH BULBS

Let us include your order with ours this Spring, thereby saving money for you. If you order now, we can give you the benefit of our Special Import Price. We cannot do this after July 1st, when we make our selections and place our orders.

It has been our custom for years to have our representative visit the leading growers in Holland. Because of our extensive purchases and prompt payments, we obtain for our customers, at most reasonable cost, the choicest varieties of these wonderful Dutch Bulbs.

Holland Bulbs The Best In The World!
No other country has been able to produce such bulbs as those grown in Holland. They are famous the world over. From this toyland of painted roofs, wandering dikes, and sky-blue tiles the Elliott Nursery Company for thirty-five years has been the largest importer of these unequalled Dutch Bulbs.

Grown By Generations Of Specialists
Just think of the satisfaction of crowing in your own garden or home these beautiful flowers—Tulips, Hyacinths, Narcissi—many of which actually represent the life-work of generations of specialists. Our catalog lists a vast number of varieties, many not usually obtainable in this country at any price.

A FEW SPECIAL PRICES

<table>
<thead>
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<th>Variety</th>
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<tr>
<td>La Blanche Pure White</td>
<td>$2.00</td>
<td>$5.00</td>
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<tr>
<td>La Vicarite Blush White</td>
<td>$2.00</td>
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<tr>
<td>Rosea Maxima Delicate Blush</td>
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<tr>
<td>Enchantress Light Blue</td>
<td>$2.00</td>
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<tr>
<td>City of Haarlem Best Yellow</td>
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<tr>
<td>Second sized Hyacinths</td>
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<tr>
<td>Miniature Hyacinths</td>
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Tulips
- Mon. Tresor Yellow .65 .35 .15
- Belle Alliance Saucer .70 .50 .25
- Lady Boreel Pure White .70 .50 .25
- Keizerkroon Red & Yellow .65 .50
- Rose Grindel Beautiful Pink .65 .50

Narcissus or Daffodils
- Paper White Monster Sizes .75 .50
- Golden Splendor Rich Yellow .75 .50
- Emperor Mont. Yellow .75 .50
- Empress Year White & Yellow .75 .50
- Von Stolz S. Double Yellow .75 .50
- Poeticus Ormsby White .55 .50
- Sulphur Phoenix Yellow & White .80 .50

Booklet lists many other varieties

You Can Easily Grow These Flowers In Your House
From Christmas until Easter you can have these beautiful flowers blooming in your home. Think how the yellow Narcissus will brighten the dark library and the pink and blue hyacinths the dining room. Think of enjoying the glow and fragrance of these spring flowers in your home! Best of all, remember you can grow them yourself for a few cents each and with almost no care—flowers that often cost $1.00 or more a plant in retail shops. Our catalog will give you full instructions.

Write At Once For Beautifully Illustrated Catalog
Send us a line today—use coupon below if more convenient—and obtain our catalog at once. It shows thousands of varieties,—many in their natural colors. It will fascinate you and prove to yourself how simply and inexpensively you can grow these bulbs in your garden and house. Complete directions for planting bulbs are given. They require very little care.

Make Your Garden Beautiful With These Gay And Sympathetic Companions
These bulbs will bring color and fragrance to your garden at small cost and give you untold pleasure and satisfaction. In order that you may not fail to have these exquisite flowers blooming around you next season, write today for our catalog, make your selection of bulbs, and send in your order before July 1st in order to obtain the special prices.

Order Now—Pay When Bulbs Are Delivered In Fall
You obtain special import price by ordering now and, if you prefer, you may pay for bulbs when delivered during September or October. All bulbs are selected and packed in Holland and reach our customers in perfect condition soon after we receive the shipment.

Elliott Nursery Co.
514 Magee Bldg. Established 35 years Pittsburgh, Pa.

Our bulb business is one of the largest in the world.

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Read What These People Say:

Admiration of the town! "I want to tell you how magnificent my daffodils are. They are the admiration of the town, and have given us splendid pleasure. Numbers of my friends have asked me to order for them. Each daffodil is the size of a teaspoon. Many bulbs have four flowers, and not one has failed to produce two."
—R. D., Uniontown, Ala.

Beyond Expectations: "I must tell you what excellent results I have had with the bulbs I ordered from you. By Easter, all the hyacinths and tulips showed large, healthy buds, which have matured far beyond all expectation. The quality of bulbs offered by you, even in cheaper mixtures, far surpasses that often sold at much higher prices."—I. G. A., Kansas City, Mo.

Nothing short of wonderful! "I have to my front window, as the admiration of all the passersby, the finest group of tulips ever seen in this city. With these gorgeous colors, old shapes and exquisite shades of color, they are nothing short of wonderful."—J. R., Portland, Me.

---

MAIL THIS COUPON TODAY

Elliott Nursery Co.
314 Magee Bldg., Pittsburgh, Pa.

Kindly send me Free Booklet about Import- ed Dutch Bulbs with full directions how to grow them in house and garden.

Name ____________________________

St. and No. or R. D. ______________________

City ____________________________ State   ____________________________
The birds are all my friends. Knowing them makes me happy. They are an inspiration to better living. They can make your life happier.

---

See the flycatcher house hanging from the pear tree. Eight bushels of pears with not a worm was this one house's record! The birds will help you.

---

Facts found regarding the food of birds have originated nation-wide legislation. Note the composite diet of the birds attracted by Dodson Bird Houses. Season after season, these houses afford a protection that allows valuable birds to multiply more rapidly.

---

Quaint houses ready for you to put up

All the good folk in America are helping to house the birds. You have seen these picturesque little houses of green or white. Each is made under the patient eye of Mr. Dodson, beloved friend of the birds. His life-time study has perfected these houses. They attract the birds. They insure your trees and shrubs and gardens against insect pests. You will be fascinated by their quaint shapes, their intricate workmanship so necessary to success.

Write to Mr. Dodson! Let his experience guide you.

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Cement Bird Bath

Birds must have water. If you supply it, you may be sure that fruit, berries and other garden delicacies will not be harmed. If the scientific bath which the birds have approved. Including basin and stand $24.20 Other baths as low as $6.00

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Get this valuable Book on Better Lawn Care

Every one interested in the care of large, beautiful lawns should have a copy of this book, which tells all about Ideal Power Lawn Mowers. It shows many photos of well-known homes, parks, golf clubs, cemeteries, colleges, etc., where the lawns are cared for the “Ideal Way.” It tells about the Ideal Junior, a moderate priced power mower for medium-sized lawns, the 30-Inch Ideal Power Lawn Mower for large lawns, and the Ideal Triplev Power Mower for large parks, golf clubs, etc. Write for this book today—learn how to keep your lawn in better condition at lower cost.

Ideal Power Lawn Mower Co.
R. E. Olds, Chairman

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SOLVAY
GRANULATED
Calcium Chloride

DUSTLESS DRIVEWAYS

Firm, clean, moist, dustless driveways and walks are especially desirable on private estates and country clubs. The economical method of obtaining these conditions is to use

SOLVAY Granulated Calcium Chloride

"The Natural Dust Layer"

Solvay is a white chemical salt, particularly adapted for use near or around the house, owing to its lack of objectionable features such as odor, tracking, discoloration, etc. It is harmless to men or animals and not injurious to auto tires, vehicles or vehicle pivots. A combined dust layer and surface binder, it is by far the most effective method of road treatment.

Extensively used on private and public roads and walks and tennis courts.

The new Solvay Book will interest you. Write for it today!
We Offer You Late Tulips of Matchless Beauty

For color in the spring garden no flower equals the late Tulips. They are unsurpassed for delicacy of the pastel shades and the richness of the brilliant tones. They are ideal flowers for borders, for groups among shrubbery, and for more elaborate color effects in any garden design.

To Introduce Our "Cream of Holland" Bulbs to Your Garden

Garden lovers everywhere recognize the quality of our offerings. To encourage you to procure a representative grouping for your garden, we have arranged the following assortments.

**SELECTION A**
"De Luxe Set"

- Afterglow— a fairy combination of colors.
- Salome— our favorite pink of this form.
- Louisa— the finest blue-purple.
- Louis De La Valliere— a glowing series.
- Louis XIV— the finest Tulip in existence.
- Muscat— apple-blossom pink with deep blue base.
- Marconi— the finest golden brown.
- Salome— the finest lavender Tulip.
- St. James— a fine example of the Breeder colors.
- Walter T. Ware— the dearest yellow of all.

**SELECTION B**
"Newer Varieties"

- Galatea— glowing cherry rose— very large.
- Great Pearl— daintiest blue-purple.
- Lord Cockburn— a fine color in the best Breeder.
- Melotte— a charming lavender.
- Pictorium— the best light brown.
- Roi D'Inland— a rare rose similar to any other. Hours of speculation.
- Sir Harry— an exquisite rose.
- Sancia— our novelty in pale pink Darwin.
- Sophie— a pink of very fine habit and color.
- Viking— a huge, lall, dark violet.

**SELECTION C**
"Standard Varieties"

Antiola— our favorite pink Darwin.
- Bronze Queen— the best standard light.
- Clara Butt— the most popular pink Darwin.
- Dream— a seed lavender.
- Edith— the best of the two-toned plas.
- Ida May— a good darker brown.
- Marcia— a filly blurr in the dark purples.
- Nleton— the best of the mixture.
- Suzan— our favorite pale pink Darwin.

Send your order to reach us before June 20th and the bulbs will be delivered in time for planting this fall.

**CHESTER JAY HUNT, Inc.,**
Mayfair Garden, Dept. K.
Little Falls, New Jersey

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**RAIN WHEN YOU WANT IT**

It Makes Your Garden Water Itself

A TURN of a valve and at once comes a gentle rain-like watering, that thoroughly and uniformly waters every square inch of your garden. Not just wet on top, but wet down below the roots, so they can draw on it for days. It neither puddles nor packs the soil.

Increases your soil's fertility by uniformly converting into liquid form the soil foods, which are otherwise totally unavailable to the roots.

No watering system waters like the Skinner System. It waters equally well, a small garden or acres. Even so little as $9.75 buys one of our 18 feet Portable Rain Makers.

Nothing to get out of order. Lasts a lifetime. Catalog if you wish.

The Skinner Irrigation Co.
231 Water St., Troy, Ohio

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**Grow Your Own**

It's Lots More Fun!

EVERYBODY wants Perennials—and wants them in generous measure, to secure the desired effects in color and charm. If you delay and finally buy plants, the cost amounts high; an attractive perennial border may require several hundred dollars' worth of plants.

Exactly the same results can be secured with a few dollars' worth of SEEDS! And aside from the money saving, you have the fascination of growing your own plants, nursing them from the beginning, and loving them all the more! Sow your seeds now, and the plants will bloom next year.

**A Garden of Perennials for $2 (Regular Price, $4.90)**

- **Achillea, The Pearl**, 3 ft.
- **Alyssum saxatile, Yellow**, 3 ft.
- **Aguilera (Columbine)**, Giant Long-Spurred, 3 ft.
- **Campanula pyramidalis, Blue**, 4 ft.
- **Coreopsis grandiflora**, 2 ft.
- **Delphinium, Finest Hybrids**, 4 ft.
- **Dianthus, Hardy Double Garden Pink**, 1 ft.
- **Digitalis (Foxglove), Spotted**, Mixed, 3 ft.
- **Gaillardia grandiflora**, Mixed, 1 ft.
- **Geum, Mrs. Bradshaw**, 18 in.
- **Gypsophila paniculata (Baby's Breath)**, 3 ft.
- **Hollyhock, Chater's Double, Mixed**, 5 ft.
- **Lupinus, Excelsior Hybrids, Mixed**, 2 ft.
- **Lythrum Haagana hybrids**, 18 in.
- **Lythrum roseum superbum**, 3 ft.
- **Peonismon, Large-Flowering Hybrids**, 2 ft.
- **Platysepalum granniflorus**, Blue, 2 ft.
- **Pyrethrum roseum hybridum**, 2 ft.
- **Stokesia cynnea**, Blue, 18 in.
- **Sweet Rocket**, 3 ft.
- **Valeriana (Garden Heliotrope)**, 3 ft.
- **Viola cornuta (Tufted Pansies)**, 6 in.

Our "Book for Garden-Lovers" (25 cents a copy) FREE with above offer.

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**Schilling's Seeds**

26 West 59th St.
New York
The Most Greenhouse—For the Least Money

By the least money, we mean, the least that is consistent with lastingness and the making of a happy healthy home for your plants.

It's just a clean cut, thoroughly practical greenhouse, in which the ornamental touches and extra refinements, so to speak, have been eliminated.

Still it is decidedly good looking, and will grow just as many and just as fine quality of flowers, as any house that costs more.

It is a house we have been building for years. But the times have made so many folks want to strip things for the running, as it were, that they quickly buy this Practical Purpose house, when they would not buy our regular one with its curved eaves and other features.

Glad to send you fullest of particulars, or one of us will come and talk it over with you.

Mr. Farr Selects Ten Tulips for House & Garden Readers

Amateur gardeners, and those of long experience, fasten their faith to Farr's Selected Dutch Bulbs just as they do to Farr's Hardy plants.

Many gardeners have asked me to name ten Tulips for outdoor growing—here they are, in Single Earlies and Darwins—

Special Group of Single Early Tulips

<table>
<thead>
<tr>
<th>Variety</th>
<th>Price</th>
</tr>
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<tr>
<td>Artus</td>
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<td>Chrysolora</td>
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<td>Pink Beauty</td>
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<tr>
<td>Keizerkroon</td>
<td>$0.65</td>
</tr>
<tr>
<td>White Hawk</td>
<td>$0.50</td>
</tr>
</tbody>
</table>

A special discount of 10% will be given on these varieties if your order is received before July 1, 1922, and you mention House & Garden. Cash should accompany your order.

“Better Bulbs by Farr” is the title of my 1922 catalog of the most desirable Tulips, Hyacinths, Narcissi and Crocus for garden and house culture. I will gladly send you a copy on receipt of your name and address.

Bertrand H. Farr, Wyomissing Nurseries Co.
106 Garfield Avenue, Wyomissing, Pa.

Wyomissing is famous the world over for Peonies and Irises. Thousands of people visit us during the blooming season, not only to see the display, but to select for their own gardens the varieties that are most appealing in loveliness. Our Peonies are usually at their best from June 5 to 15th, according to the season. Therefore, visitors should write or wire for the best days on which to visit this wonderful display.
IMPROVING NATURE

It's not enough nowadays to seed a lawn, set out shrubs and plants and then let nature "do the rest." Only in rare seasons does nature supply sufficient moisture to impart full vigor to a lawn or garden and make it lastingly beautiful.

The early gardeners soon learned the value of constant watering by hand, to supplement nature. And the modern gardener carries the improvement still further by the use of Cornell Irrigation Systems. Like having rain when you want it, where you want it and as much as you want.

A Cornell system is absolute insurance against dry weather, and quickly pays for itself in the losses it prevents.

We are prepared to make complete surveys and submit plans and specifications covering the installation of piping systems and pumping units.

Safe Economy IN A POWER MOWER
Strength is not sacrificed to lightness, nor durability to price in this mower, yet it is the handiest and most economical power mower on the market. Not built to meet a price but to fulfill a need in a highly satisfactory way. Compare the new low price of the Jacobsen 4-Acre Mower with the work it performs, look at its finished, sturdy construction, and you must admit it is a rare value.

The "4-Acre" Power Mower
The Pinnacle of Perfection in Power Lawn Mowers
Here are just a few of the outstanding advantages of the "4-Acre."

Motor specially designed, air-cooled, forced draft, magnetic ignition, throttle control, powerful, and reliable. Will cut on 25° incline.

Gear Drive enclosed. Transmission and clutches run in both of oil. Entirely dirt, dust and foot proof.

Independent Control of Power on Cutting Unit and Traction Wheels so operator may travel over stony road-ways, up and down curbstones, etc., without revolving cutting unit.

Differential in Wheel gives power on both wheels, yet allows easy steering for turning in and out of flower beds, bushes, paths, etc.

Capacity—due to five acres a day at fuel cost of less than 40 cents.

BEAUTIFUL CATALOGUE SENT FREE
Reduced 1922 Price $270 F. O. B. Racine.

Jacobsen Manufacturing Co.
Dept. A.
Racine, Wisconsin,
U. S. A.
"Unvarnished Facts About Peonies"

OUT in Kenosha, Wisconsin, there is a real peony fan, Henry S. Cooper, whose love for the flower has led him over many years to the fullest understanding and appreciation of this beautiful flower.

Last year Mr. Cooper issued a catalogue of the peonies he offered for sale from his collection. The book is titled "Tips and Pointers for Beginners with Peonies," which he sends out free, created a great deal of interest. It contained much helpful information about the peony never before published.

Letters from enthusiastic readers all over America testified to the help and inspiration of its pages.

If you will be satisfied only with the best peonies in your garden, you will want to read this book, and thus partake of the knowledge of one of the most enthusiastic peony lovers.

At the request of friends, Mr. Cooper has this year published a more elaborate book,

"Unvarnished Facts About Peonies"

which he offers to readers of House & Garden at this time,—in describing the book, Mr. Cooper writes:

"This year I am publishing a larger book with much more information for peony growers and with colored plates, which, I am told, are the most real and natural pictures of flowers ever published. It cost me a raft of money, and I have to make some kind of a nominal charge for it. So I charge twenty-five cents and you can keep the book. You can also deduct the twenty-five cents from your first order amounting to $5.00, so the book won't cost you anything. I think it will be worth more than it costs you, as it has so much new matter that has never before been published."

You can't possibly catch twenty-five cents better.

-- Henry S. Cooper
Peony Fan
KENOSHA, WISCONSIN

A Home Well-Liked Through a Lawn Well-Kept

Only through exceeding care may the lawn about your home be kept in the good health necessary to make it the desired setting for your beautiful house.

Proper trimming is essential to a vigorous grass growth and light rolling of the lawn immediately after is also needed to impart that velvety softness of appearance.

The Model "L" Roller and Motor Lawn Mower combats all in one handy little machine these two good-lawn necessities—and in so doing effects a great saving in time and cost.

Powered by a sturdy Fuller and Johnson motor especially designed for this machine, the Model "L," cuts and lightly rolls a 25-inch swath to the total of six acres per day—if needed.

We have an interesting little book about lawns, which was written by a man who loved their beauty. Shall we send you a copy?

COLDWELL LAWN MOWER CO.
NEWBURGH, N.Y. U.S.A.

DAHLIAS

"Plant in June for Finest Bloom"

Special Introductory Offers:

Five beautiful Cactus Dahlias, $1.00
Five grand Decorative Dahlias, $1.00
Two giant Century, Two unique Collettes, Two Ball (6 in all) ........................................ $1.00
Five Fancy Dahlias. $1.00
One root each: Mrs. C. H. Breck, yellow and carmine; Queen Mary, best pink, and L. Kramer Peacock, best white. ........................................ $1.00

Above 5 offers, each Dahlia carefully labeled, true to name, and my book on The Dahlia, all post-paid for $5.00.

OUR NEW CATALOGUE, THE WORLD'S BEST DAHLIAS, not only shows the gorgeous dahlia Queen Elizabeth, and Golden West Cactus Dahlias, but TELLS THE PLAIN TRUTH about the best new and standard varieties, including 12 WONDERFUL NEW CREATIONS now offered for the first time.

THE LEADING DAHLIA CATALOGUE FREE.

Write today. A post-card will bring you a copy by return mail.

The finest blooms can be had with dahlias planted up to July 1st.

PEACOCK DAHLIA FARMS
(Largest in the World)
BERLIN NEW JERSEY

There must be a reason for leadership—and there is.

Pennsylvania Quality has proven in actual service to mean longest lived, most efficient and most economical of all lawn mowers.

At Hardware Dealers and Seedsmen

BEAUTIFY YOUR HEDGE with the LITTLE WONDER HEDGE TRIMMER

The Model "L" is the work out of hedge-trimming. Trims 5 to 10 times as fast as by hand—various adjustments and attachments add to it every shape and cut desired.

$27.50 PREPAID east of the Mississippi
$30.00 west of the Mississippi

The Simpson Foundry & Engineering Co.
NEWARK, OHIO

BIRD BATH AND LAWN SPRAY

ATTACH YOUR HOSE
Spray easily adjusted from small single stream as fountain up to wide spread of 30 feet for lawn.

PORTABLE
CAST IRON CEMENT COLOR
Diameter Bowl 10 in. Height 10 in.

East Mississippi .................................. $12.50
West Mississippi ................................ $13.50

The Simpson Foundry & Engineering Co.
NEWARK, OHIO

Pennsylvania Quality has proven in actual service to mean longest lived, most efficient and most economical of all lawn mowers.

At Hardware Dealers and Seedsmen

BEAUTIFY YOUR HEDGE with the LITTLE WONDER HEDGE TRIMMER

The Model "L" is the work out of hedge-trimming. Trims 5 to 10 times as fast as by hand—various adjustments and attachments add to it every shape and cut desired.

$27.50 PREPAID east of the Mississippi
$30.00 west of the Mississippi

The Simpson Foundry & Engineering Co.
NEWARK, OHIO
Floats over the uneven Ground as a Ship Rides the Waves

The Greatest Grass-cutter on Earth—Cuts 100 Acres a Day
Cuts a Swath 12 feet, 114 Inches or 86 Inches Wide

ONE unit may be climbing a knoll, another skimming the level and another pausing a hollow.

Not an assembly of tractor and mowers but a single, compact machine like an automobile with 3, 4 or 5 cutting units.

Driven by a 17 H.P., four cylinder, water-cooled gasoline motor of great power and quality with Sprocket Drive, Dixie Aero Magneto, a wonderful radiator, sliding gear transmission, two speeds forward and reverse, etc.

Can also be drawn by horse, the motor being removed, or converted into a powerful tractor by detaching the cutting units.

Send for catalogue illustrating all types of TOWNSEND MOWERS.

S.P. Townsend & Co., 244 Glenwood Avenue, Bloomfield, N. J.

A New Invention
For Your Garden

THE Empire sprinklers, connected with an ordinary garden hose to a faucet with average water pressure will sprinkle your garden evenly and without waste of water. Made in three sizes:

Empire Model—portable and compact with brass nozzle, having forty-seven holes. Portabke 50 foot circle. Suitable to grow vegetables of all kinds; flowers and ornamentals; also to water trees and shrubs. Price $3.00. RS. P. O. N. Y. City.

Empire Adjustable—This sprinkler embodies a new idea in irrigation: that of having two nozzles on adjustable arms which may be set to throw at one time two fan-shaped sprays in any direction. Each of the two nozzles may throw a spray of 45 feet in diameter for spraying the same area, or if desired the two may be thrown in opposite directions for spraying the area of 90 feet. Height 2 feet. Weight six pounds. Price $5.00. P. O. N. Y. City.

Empire Rotary—This is universally adjustable—its arms, its nozzles, its direction, the height of its throw can all be adjusted. Will cover a circle of 15-foot circle. By turning the nozzles in opposite directions the area may be thrown in a circular pattern to a stationary. All essential parts are of the best brass. Brass spear, backward flanged, slender to each nozzle, cannot get out of order. Height 22 inches, weight ten pounds. Price $10.00 F. O. B. New York City.

The confidence of our thousands of customers is our best recommendation. Do you want shade, tell us the conditions and we will make suggestions or, you come and pick them out—some are ready in boxes and tubs. If you want more color, let us serve your needs.

Architectural Decorating Co.
"Make Your Garden as Attractive as Your Home!"
1600 South Jefferson St.
Chicago, Ill.

Enjoy a Month of Peonies

YOU can easily arrange a full month of Peonies with every day unfolding new beauty. The color and season chart of our Peony Catalog will show you how.

Be sure to visit our peony fields between May 25th and June 15th, when the iris, followed by the peonies, will be worth coming miles to see. In any case, send for our catalog of peonies and iris, for the pages of which the camera has preserved charming glimpses of these varieties.

S. G. HARRIS, Peony Specialist
Box H
Tarrytown, N. Y.

HOW many folks will be saying "How will I do it?" Summer "How I wish I had planted some shade trees there on the lawn" or "I should have planted some flowering shrubs, perennial or annuals to complete my color scheme but I'll have to wait until next year."

You came to live in the country to enjoy the clean air, the beauty, comfort and quiet of natural living. You came to secure natural playgrounds for your children, home-grown fruits and vegetables for your family and guests. I wonder if you are getting full measure—taking full advantage of your opportunities?

Why delay longer? Why regret amissness? By our tried and tested methods, we can add to your planting in June, just as we are doing for other folks and as we have done for many years.

There is no reason why you should not add another your pass without color, without the charm and peacefulness of shade trees, flowering shrubs and evergreens on your home grounds. Just tell us what you want and depend on us to do all the technical thinking.

We have been growing nursery stock for nearly seventy years and our experience is at your disposal. We have supplied the stock and done the planting on some of the big estates in the East as well as supplied well-grown nursery stock for many John Joneses and Jim Smiths through North-eastern America and others who trusted us with their orders.

If you want shade, tell us the conditions and we will make suggestions or, you come and pick them out—some are ready in boxes and tubs. If you want more color, let us serve your needs.

Don't envy a beautiful place—have one. We have shade trees and evergreens fifteen and twenty years old that we have been growing for you to sell for. By using them you get immediate results. In other words, we will give you a ready-made garden and express your taste in that garden.

Do you want to enclose your lawn, your flower garden, your laundry yard? Do you want to shut off the street or the next place? A blend of evergreens and shrubs will do it even 1,000 miles away. The confidence of our thousands of customers is our best recommendation.

If you haven't yet received a copy of "Home Landscapes", send for one. We have just issued a new edition, illustrated with some beautiful colored paintings of actual gardens 10 years for the asking. Our list of rare plants is extensive. Have the pleasure of looking them over. The chart in our catalog gives you volumes of information on hardy flowers in the most understandable manner.

And remember—if you love a plant, you can make it live anywhere.

(Signed) Henry Hicks

HICKS NURSERIES
(Morton House & Garden)
WESTBURY, BOX H. LONG ISLAND, NEW YORK

YOUR GARDEN NEEDS A SUN DIAL
To add to its completeness

No garden is complete without robins, wrens and other cheery native birds to give it song and life.

The greatest inducement you can offer them to visit you this summer is a good bird-bath.

Our bird-baths, fountains, benches and all kinds of garden furniture and ornaments are made of artificial stone properly designed, attractive, and as durable as stone.

Catalogue G describes and illustrates them interestingly. We shall be glad to send it upon request.

Architectural Decorating Co.
"Make Your Garden as Attractive as Your Home!"
1600 South Jefferson St.
Chicago, Ill.
Make A Clear Cut Edge to Your Lawn 

WITH A 

Richardson Border Machine 

(1922 MODEL) 

THE use of the Richardson Border Machine is conducive to a better kept lawn, in that while the lawn is being mowed the edges can be trimmed quickly and easily. The inclination to neglect the edges is removed by the facility with which this machine does that work, with little effort and fatigue. Please Write for Booklet 

THE STANDARD SAND and MACHINE CO. 

5151 St. Clair Avenue 

Cleveland, Ohio 

Attractive!

A PRETTY home, a delightful lawn and entrancing garden may be made doubly attractive and kept that way by a suitable fence enclosure—one that will be beautiful and yet possess utilitarian value. The designs available in Afco Fences and Gates possess the elements of strength and permanent attractiveness, combined with a properly moderate investment.

The Service Staff of our Company is available to help you plan and select the enclosure suited to your needs. 

American Fence Construction Co. 
30 West 34th St., Address: Dept. B New York 

Before Building See Your Home in Miniature

THE book, "Small Homes of Character," contains fifty examples of four, five, six and seven room homes. One of them is sure to meet your requirements or afford you valuable suggestions. It is yours for one dollar.

DEFINITELY visualize your home after selecting the plan you like best by sending for a card-board model. The models are on a scale of 1/8 inch to equal one foot. Done in colors to illustrate to you attractive color combinations.

Send for book now and select the model you want.

Price Postpaid. $1.00. 

Architectural House Planning Service Company 
20 S. 10th ST. 

PHILADELPHIA, PA.
scented flowers of the most intense and secret. Follow it and have the largest branches.

foot all art along the row.

nitrogen; 12 per cent phosphoric acid combined in material that has no fertilizing value. Most fertilizers are far below this average.

IT)

and per cent potash—clean and treated. Immediately available plant food, containing 11 per cent nitrogen; 6 to 10 per cent phosphoric acid and 8 to 10 per cent potash, combined in material that has no fertilizing value. Most fertilizers are far below this average.

Science has produced a tablet, rich in plant food, containing 11 per cent nitrogen; 12 per cent phosphoric acid and 15 per cent potash—clean and odorless.

For crops in rows, set the tablets a foot apart.

For Bush Fruits and Shrubbery, use three tablets, one every ten days. In Flower Beds and Borders, place four tablets dissolved in a gallon of liquid manure.

The makers—

The better grades of commercial fertilizers contain only 2 to 5 per cent nitrogen; 6 to 10 per cent phosphoric acid and 8 to 10 per cent potash, combined in material that has no fertilizing value. Most fertilizers are far below this average.

Three tablets, one every ten days. In Flower Beds and Borders, place four tablets dissolved in a gallon of liquid manure.

Power to Push Your Mower and Cultivate Your Garden

BOLENS POWER HOE and Lawn Mower Tractor

$180.00

Perfect Control of tools so you can work crooked rows of plants like a wheel hoe. Cuts plants 14 in. high. Differential drive permits turning at the end of row without exertion. Snip Hitches on all attachments enable operator to instantly change from lawn mowing to seeding or cultivating. Does the work faster and better. Gives you time for pleasure gardening.

A boy will run it with delight. Write

GILSON MANUFACTURING CO.

112 Park St., Port Washington, Wisc.

Complete Your Garden with Delphiniums

A VarieTy Rainbow of Cheerful Color

THE present day Hybrid Delphiniums (Hardy Larkspurs) offer a wonderful range of colors, varying from royal purple to the most marvelous shades of azure, gentian blue and sapphire. Many of the varieties have a large, distinct, bee-shaped center of a different shade of color than the surrounding petals, making thus a gorgeous contrast. Many of the light blue varieties have a black contrasting center, and the deep blue a brilliant Rose colored center against the dark blue ground.

DELPHIINIUM SEEDLINGS

Totty's Special Hybrids

As the result of years devoted to their culture, we can offer for spring planting seedling clumps of the very finest named types and challenge comparison with any other house in the country with our seedling Delphiniums. We, they grown in Europe, many of them would be named and sold at a high price. Dozens of letters were received by us the past year complimenting us on our superior seedling Delphiniums and many of them stated that though the writers had been growing Delphiniums for years, they had never received plants that gave so much satisfaction and pleasure as our seedlings.

We offer for immediate delivery plants from three-inch pots. They will give quantities of flowers this coming fall, and be in splendid condition for flowering continuously next summer, giving a splendid display all season.

$3.00 per dozen; $29.00 per hundred.

(Immediate Delivery)

CHARLES H. TOTTY CO.

Madison - - New Jersey

Please mention Home & Garden in writing
Consider the Resale Opportunities!

A man builds a home with two objectives: enjoyment and investment. Usually the first is paramount, but changing business conditions must be taken into consideration and the home built with the idea, “just how substantial an investment will this prove to be ten or twenty years hence?”

A home built of stone will have a surprising increase in value over the original expenditure. The resale opportunities are greater than of homes built of other materials.

Home builders find Indiana Limestone the most economical building stone. When they select it they have the advantages of splendid production and transportation facilities and an unlimited supply of material, assuring a home for which the same stone will be available for any future addition or alteration to the original structure. This is frequently not possible with the product of small and undeveloped quarries.

If you are interested in receiving further information regarding this low-cost, natural stone, address Indiana Limestone Quarrymen’s Association, Box 782, Bedford, Indiana.
EXCEPTIONAL TULIPS FOR YOUR GARDEN

Scheepers' bulbs have always stood for highest quality. To extend their enviable reputation, we offer this collection of beautiful tulips at a special price.

The collection consists of twelve bulbs each of the eight varieties pictured (96 bulbs), catalogue price $14.40, sent prepaid for TEN DOLLARS if ordered now.

Each variety labeled and packed individually with planting instructions. Delivered in time for Fall planting.

Our Guarantee:
As bulb specialists of twenty-five years' experience, we supply only bulbs of the finest quality. We guarantee to replace gratis any bulb which does not produce a perfect flower under ordinary care.

LOUIS XIV
Height 32 inches. $3.00 a dozen, $24 a hundred

PRINCESS ELIZABETH
Height 28 inches. $1.15 a dozen, $7.50 a hundred

GESNERIANA IXIOIDES
Height 24 inches. $1.00 a dozen, $6.50 a hundred

BRONZE QUEEN
Height 28 inches. $1.10 a dozen, $7.00 a hundred

BACCHUS
Height 33 inches. $3.25 a dozen, $26 a hundred

VELVET KING
Height 31 inches. $1.90 a dozen, $15.00 a hundred

LUCIFER
Height 30 inches. $1.90 a dozen, $15.00 a hundred

FLAMINGO
Height 28 inches. $1.10 a dozen, $7.00 a hundred

Four Gold Medals have been awarded us by the Horticultural Society of New York and two Gold Medals by the Holland Bulb Growers' Association for bulbs of the same quality as those offered on this page.

Catalogue on request
John Scheepers
522 Fifth Avenue
New York

Four Gold Medals have been awarded us by the Horticultural Society of New York and two Gold Medals by the Holland Bulb Growers' Association for bulbs of the same quality as those offered on this page.

Catalogue on request
John Scheepers
522 Fifth Avenue
New York
The Prudential in 1921

Paid-for business (issued, revived and increased) .................. $1,139,784,232

Over $107,000,000 greater than in 1920, The Prudential's best previous year—an achievement testifying to the constantly increasing confidence of the public in The Prudential.

Total insurance in force ................................................. $5,668,080,870

Including an increase of over $572,000,000 made during 1921.

Number of policies in force ............................................ 22,143,233

Representing insurance on one out of every eight persons in the United States and Canada.

Number of death claims paid since organization .................. 3,191,139

Including 175,023 claims paid in 1921, at the rate of $5 for each business day.

Paid policyholders in 1921 .............................................. $68,970,512

Total paid policyholders since organization, plus amount held for their security, now exceeds $1,538,342,000.

Dividends paid policyholders in 1921 .............................. $16,537,822

Since mutualization became effective in 1916, policyholders whose contracts contained no provision for dividends have received $27,000,000 in dividends, which would not have been paid under the Company's previous practice.

Reserves, held to protect policy contracts ......................... $717,824,358

Held for policy dividends, payable after 1921 ...................... 20,752,077

Other liabilities .......................................................... 17,680,126

Surplus, including capital stock ...................................... 33,251,662

Assets ........................................................................... $789,508,223

The savings of Prudential policyholders, securely held and busily working in loans upon homes, farms, schools, railroads and other industries, as well as in municipal, state and government securities.

ALL FORMS OF LIFE INSURANCE ISSUED

The Prudential Insurance Co. of America

Incorporated under the laws of the State of New Jersey

Forrest F. Dryden, President

Home Office, Newark, N.J.

Founded by John P. Dryden, Pioneer of Industrial Insurance in America