Bringing the Bathroom Up to Date

Published by Doubleday, Doran & Company, Inc.
This charming study in the home of Rollin Chapin, architect, of Minneapolis, is the result of good architectural design applied to Shevlin Knotty Pine. Recessed bookshelves, quaint cupboards with butterfly hinges, square paneled windows, arched ceiling, combine to create a Colonial ensemble of unusual distinction. You can achieve an equally satisfying result by having a competent architect or decorator plan your room of Shevlin Pine for you.

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MAN PROPOSES
GOD DISPOSES

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Your home... suppose some day it becomes necessary to sell it... will it bring what it's worth? That depends upon salesmanship, how well it's built, is it insulated, and can you prove it? Remember, insulation is built into the walls... once the home is completed, the insulation can't be seen.

That is the reason for the Insulite Metal Plaque. It is "enduring evidence of enduring insulation". It shows how well and how much insulation is built into your house. It means greater resale value for your home.

EFFICIENCY! 3,000,000 WOOD-LOCKED AIR CELLS TO THE SQ. FOOT

It's important that you use Insulite insulation because of its strength, durability, and above all, its efficiency. All thermal insulation materials achieve their efficiency through dead air cells which act as non-conductors of heat and sound. Insulite, a full half inch thick insulation board, made from strong, tough wood-fibers, contains more than 3,000,000 wood-locked air cells to the square foot.

Think of it — in every square foot of your Insulite insulated walls and roof, there are 3,000,000 wood-locked air cells defying the winter cold and summer heat, reducing fuel bills and deadening noise.

INSULITE INSULATION IS ECONOMICAL

And Insulite is an economical board form insulation... not an expensive "extra". Insulite, easily handled and quickly applied, takes the place of non-insulating materials, and insures fuel savings through all the years to come.

Made from strong wood-fibers, Insulite is chemically treated to resist moisture, fire, vermin, and rodents. Insulite Sheathing has several times the bracing strength of lumber horizontally applied. As plaster base, Insulite guards against unsightly cracks and grips plaster with more than twice the strength of wood lath.

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At comparatively small expense charm and convenience were combined in this bathroom in the home of Mr. H. E. Matz, Port Washington, New York. Green and cream are the predominating notes. The tile is cream with a green strip at the base and at the top. Above the tile is a washable wall covering of a soft light green and light buff. The floor is of light cream tile and the fixtures and hamper are jade green. (Fixtures by Crane Co.)
Bringing the bathroom up to date

Modern equipment combines beauty and convenience

TYLER STEWART ROGERS

Up to a certain degree, one can tell the age of a house by its bathrooms, taking into consideration both their number, and their design and appointments. It is strange that this should be so, and the reason for it is not readily discerned. But the result of the trend is that bathrooms—and to an almost equal extent, kitchens—assume tremendous importance in the planning of a new house, or the modernization of one that has gradually become obsolete. It is not unduly difficult or expensive to introduce new bathrooms into a home that is already built. The values created by this form of modernization are usually much in excess of the investment required. Not only is the market value of the house increased, but the owner can enjoy the conveniences of a really up-to-date home without going through all the bother of selling the obsolete house and building or buying a new home in another location.

There are four ways of introducing extra bathrooms or lavatories in existing houses. One is to build an addition to the house which will give the required floor space without involving vast internal changes in the plan. The practical problems of making such additions were discussed in the December issue. The second method is to take the necessary space out of some one existing room, making that room correspondingly smaller, but adding the convenience of an extra bath to the adjoining or near-by bedrooms. The third method is to place the new bathroom between two adjoining rooms, taking part of the required space out of each. The fourth scheme utilizes some existing closet of fair size to house an extra toilet and lavatory, and possibly a shower or small tub.

Almost inevitably, space limitations are the first considerations in planning new bathrooms within the walls of existing houses. If an addition is to be built, the size of the new bathroom need not be constricted. I have seen a closet two feet deep and four feet long equipped with a lavatory and closet to add these essential toilet facilities to a guest room. Of course, the closet was situated so that a small window could be cut through the outer wall. The lavatory was placed beneath the window and the closet was at the opposite end.

By very careful planning, a complete bathroom, including lavatory, tub, and closet (with a shower over the tub, if desired) can be placed in a space measuring 5' x 5½', providing only one door is required for access to the room. A bathroom between adjoining rooms, with two doors,
It is wise economy to install first-quality plumbing fixtures and fillings for they will appear as well after many years of use as they did when new. Fixtures which do not stain or craze and fillings that do not tarnish are a boon to the housekeeper. (Courtesy of the Kohler Co.)

In addition to attractive finishes and colorful fixtures and fillings the up-to-date bathroom calls for a complete assortment of lotions, soaps, creams, and bath salts for the perfect grooming and the comfort of all those who are to use the bathroom. (Courtesy of The Bath Shop)

A simple method of planning a compact bathroom is to cut out sheets of wrapping paper to the exact size of the fixtures wanted, arranging them to fit. The tub usually establishes one dimension of the room. If a 5' tub is required rather than the very short 4' 6" tub, this will need one dimension at least 4' 11" long. A tank-type closet requires a wall space varying from 20" to 24" and a floor space of from 26" to 31" from the wall. Lavatories come in various sizes, from the most compact corner lavatories which use 17" on each side, to the generous-size pedestal lavatories that take up from 24" to 30" of wall space and project into the room from 20" to 24". These units of wrapping paper can be laid down on the floor and one can readily estimate the amount of space required between them for proper access.

Always bear in mind that space must be left in one wall for a door.

There are two simple rules to bear in mind when planning the arrangement of bathroom fixtures. The first is to avoid a window over the tub, if possible. This is because the window, if so placed, is quite inaccessible, and if a shower is used, the curtains are constantly soaked with water. The second rule applies when all three major fixtures are lined up on one wall. With such a layout, place the lavatory between the closet and the face of the tub, because this gives more room around the lavatory and enables the mirror to be centered on the wall. It also improves the lighting by permitting fixtures to be installed on either side of the mirror.

Another good rule is not to cramp the bathroom unless it is absolutely necessary because of space limitations. At least one bathroom in every home should be reasonably commodious. Every mother knows the importance of having space for an infant’s portable tub and dressing table. When extended, this requires a clear floor space of not less than 20' x 30'. Secondary bathrooms, such as those associated with guest rooms, do not need to be so large.

When working out plans for introducing new bathrooms in an existing house, it is vitally important to solve the problem of concealing the pipe lines. Thought must be given to the drainage line which must be carried down to the basement and which is usually of such size that it will not fit into a normal 4' partition. This line should be sound-insulated as it passes through the walls of the living room or dining room. The pipe, plus insulation, requires a space about 6' square. Along with this pipe, space must be found for the hot- and cold-water lines, and for the necessary steam or hot-water pipes to the bathroom radiator. These three sets of pipes, comprising from three to five lines in all, must
be carried down to the cellar, and their installation should be so arranged as to involve a minimum amount of patching of the first-story walls. The cheapest and most satisfactory arrangement is to carry them down through some closet where they can be boxed in and forgotten. But in addition to the lines above mentioned, one must not forget the vent line that is carried up to and through the roof. This pipe serves to ventilate the traps and cannot be omitted. By all means consult an experienced plumber before finally determining upon the location of new bath rooms and the disposition of these all-essential pipes.

It is advisable to sound-deaden all water and drain pipes, except vent lines. The insulation commonly used consists of several layers of hair felt wrapped around the pipe and wired or tied in place. For maximum dampening of the sound of water rushing through pipes, it is advisable to use over-size supply pipes, eliminate all unnecessary sharp bends, and employ felt pads to isolate the pipe from the framework of the structure in order to stop transmission of sound vibration to the walls or floors.

While introducing new bathrooms into a house that is not equipped in the modern manner, one should give a little thought to modernizing the existing bathroom if its layout or fixtures are out of date. It may be worth while to tear out all of the old bathroom details and plan on the installation of new floors, new wall finishes, and new fixtures arranged for the maximum amount of comfort and convenience.

One must not approach a problem of this kind without appreciating that the work will involve more or less turmoil. The methods of rearranging partitions, of patching plasterwork, and of refinishing rooms affected by the new construction have been discussed in previous articles in this series, notably in the November and December issues. Once this basic planning has been accomplished, the selection of fixtures, the choice of floor and wall finishes, and the decorations of the bathrooms are matters common to new or old houses with but few minor exceptions.

Of first importance are the fixtures. A nationally recognized expert on plumbing equipment recently made the statement that home owners seldom appreciate the economy of first-quality plumbing fixtures. He pointed out that the labor of installing a cheap fixture is the same as that for the best on the market. The difference in first cost between the cheapest and the best is not very great; but the differences in life, in sanitary qualities, and in lasting satisfaction between the cheap grades and those of superior quality are very marked. The low-grade fixtures will begin to show fine hair-cracks, stains, or their finish will chip away after only a few years of service, and the meticulous housewife will wish she could replace them after five or six years of use. The better-quality fixtures will appear as well in ten years as they did the day (Continued on page 320)
A style of architecture popular in Florida is this bungalow of Mr. Eland Jordan, Granada, Florida. Although the house is small the bedrooms are given complete privacy by being in a wing by themselves. The architect was Bernard W. Close.

The woman speaks to the architect

BETTY THORNLEY STUART

A MAN may be a loving husband and father, to say nothing of the finest check signer developed by his firm, but when we read that "Mr. So-and-So has just built a house in the such-and-such section of Blankville," we know that he hasn't done anything of the kind.

The architect made the plan. The contractor and his men did the job. The man of affairs paid the bill. But if Mrs. So-and-So wasn't the general of the embattled army, then it must have been because she is dead or not yet found. It is her desire for the smart location near the country club, the healthful spot for the children, or the section just round the corner from mother's that has dictated the change of address. And, though her husband may have stated the amount of money to be spent, it is she who has been most interested in the spending.

The trouble is that she does not always go about it as efficiently as he would, if the thing were primarily in his field. She knows she has to live in it, entertain in it, and fit her furniture to her house, but so often she thinks of it as a magazine illustration rather than as a working plant. When the result is disappointing, she is too apt to blame her architect. But he, poor man, never had the necessary
data by which to plan what was re-
quired.

Only the woman in the case can
draw the picture for which the
architect is to make the frame. Only
with this picture pinned firmly in
mind can he get his spiritual as
well as his physical dimensions right.
If he had known his client for
years, this wouldn't be necessary.
As it is, she will be wise if she
puts down on paper for her own
mental clarification her husband's
income and whether she expects it
to go up or remain as it is, the
number in her family and whether
this is to be a stationary figure, the
servants she now keeps and those
she thinks she will have in the near
future, her method of living and
entertaining and whether this, too,
is likely to change.

To begin with, women so often
build houses too large or too small,
because they have an inveterate
habit of living in the present. Per-
haps all women are afraid of age—
they hate to look ahead.

So the woman whose children will
soon be away from home moves
into a house in which she and her
husband are due to rattle round
like two lonely peas in a pod—a
lonesome house to live in, an expen-
sive house to keep up, a difficult
house to sell. Then there's the
woman whose house is too big be-
cause she won't say what she really
thinks about her husband's future
income. She builds one that calls
for two servants—and perhaps she
has to run it herself. She has a liv-
ing room, a dining room, a library,
Brighter breakfasts

Tasty meals for leisurely people

ELIZABETH MACRAE BOYKIN

BREAKFAST in bed is surely one of the most tranquil of pleasures and one which, contrary to the general impression, may be a very modest luxury. Indeed, in small families it is sometimes considered simpler and easier to prepare breakfast trays than to set and serve the table. And even in more complicated households where trays are the exception rather than the rule, Sunday breakfast in bed is a leisurely agreeable interlude for those whose week day breakfasts are speeded by trains or business. For invalids or convalescents the breakfast tray is quite essential.

In selecting the appointments for trays, there is the widest latitude, for the word “breakfast” has many meanings. To some it is the continental roll and coffee, to others a hearty repast of several courses, but to all it is an intimate, personal meal. Its service may therefore be more individual and informal than for any other meal during the day.

Whether breakfast is actually served in bed or whether it is served at the table is not, for the purpose of this article, of prime importance. The fact is that breakfast, as a meal, requires certain serving dishes and certain menus not to be...
found in the preparation of other meals. We shall describe, then, some of the new breakfast sets of china and linen and give some menus for the various types of breakfasts.

Informal breakfast tray services may be purchased in sets of thirteen to twenty-three pieces, some with service for two but usually for but one, or they may be made up from open stock patterns. The prices for the sets range upward from $3.95 for a charming dull glazed American porcelain breakfast set of simple modern outlines. There are several attractive sets below ten dollars in price, and between ten and twenty dollars are some really lovely ones.

The breakfast things are sometimes a docile part of a dinner service but at least one breakfast tray set in a family would seem a justifiable investment. Because the bright little tray sets permit one to go off at such delightful decorative tangents—tangents which may be twentieth century, Victorian, French Provincial, Colonial, or nautical with impunity. In the latter case, the yachting motifs are found in very, very modern porcelains as well as in the gayest of Quimper ware in which small sailing boats share the scene only with the traditional Breton man and maid.

A tray for a man is suggested by a breakfast set (Continued on page 312)

This prancing painted soldier and the wise looking bunnies should keep a small person good company at breakfast. (Tray, Ovington's; porcelain, linen, and silver, R. H. Macy & Co.)

A breakfast tray for a man of modern inclinations is appointed with plaid china, polka dotted glass and very, very simple silver (China, linen, and tray from R. H. Macy & Co.; glass from Fostoria Glass Co.; silver from International Silver Co.)

An old chintz pattern inspired this Spode breakfast service which is arranged here for a hearty English breakfast. (Porcelain, linen, and tray from John Wanamaker, New York; glass from Fostoria Glass Co.; silver from International Silver Co.)
B E A U T Y has entered the kitchen by way of the front door and turned the home maker's workshop into a model of attractive efficiency. No longer is the pot safe in calling the kettle black. It is much more likely to be silver or white, green, blue, or red.

These modern utensils are sturdily beautiful, designed for long service provided they are used and cared for properly. They repay careless treatment by becoming inefficient or wearing out long before their logical time. You have seen them sitting dejectedly on pantry shelves. So have I. Worse yet, I have seen them coming back to the retail stores from which they were sold in mechanical perfection, now battered wrecks. Broken glassware, cracked wooden bowls, chipped enamelware, warped aluminum, rusty skillets. Such unnecessary waste!

A few manufacturers have been farsighted enough to enclose instructions with their merchandise, but too many items find their way into kitchens with no such helpful introductions, and their future service is dependent alone upon their ability to take hard punishment or upon the tender mercies and general knowledge of their users.

Kitchenware made of different materials requires different treatment. After all, only a few simple facts kept in mind will insure good care and the proper use of equipment necessary in the modern kitchen.

G L A S S baking ware plays a dual rôle, that of cooking utensil and acceptable serving dish. Reputable manufacturers guarantee the glass against breakage in the heat of the oven, but along with this assurance come these words of caution:

Don't place the glassware directly over the blaze.
Don't handle with a wet cloth when the glass is hot.
Don't let the hot glassware come in contact with water or cold metal.

Why all the don'ts? You cannot expect the impossible. Oven glassware is tempered against heat, but sudden changes of temperature are quite likely to cause breakage. It is not wise to remove a pudding from the oven and take it at once to the refrigerator to cool.

A sharp blow breaks oven glassware, and so will dropping it on the floor, unless you are lucky.

Glass measuring cups are common household utensils but they cannot all be treated the same way. Some are heat proof, others merely thick ordinary glass. You should be sure the cup is heat proof before pouring hot liquids into it.

In the well-equipped kitchen utensils of a variety of materials are represented as shown here—electric waffle iron of nickel, cast iron frying kettle, heat-proof glass casserole, stainless steel knife, earthenware casserole, enamelware pans, and a wooden butter mold. For cleaning these utensils there is a pot scraper, copper cord mop, scouring powder, and utensil soap.
Glass mixing bowls deserve the care of table glassware, with due respect paid to their fragile nature.

Glassware can be kept clean and clear easily by washing in warm water and suds. If food adheres to a baking dish, remove it with a gritty scouring powder.

There are certain baking dishes on the market made of a hard fired porcelain china guaranteed against cracking, crazing, or changing color in the oven heat. These attractively colored dishes may go directly from the refrigerator to the oven, or the other way around, without damage. They can also be used for top of the stove cooking when an asbestos pad is used to protect them from direct contact with the blaze.

Some of the French drip coffee pots are made of this porcelain china, and the same rule holds good for a coffee pot as for a roaster—the dish must not come in direct contact with the blaze.

Earthenware is a mixture of clay with other substances, and subjected to molding, firing, and coating. This is the material from which many of the decorated bowl sets, cookie jars, and refrigerator dishes now in use are made. Some of them are of domestic manufacture; many come from foreign ports showing the artistry of Germany, Japan, Italy, and Czechoslovakia. Despite their fancy garb, they have the porous body and are closely akin to the earthenware found in the old-time crocks and jars and bean pots.

All of these require the same care as given to dishes. Some of the earthenware, such as the bean pots and casseroles, are heat proof for baking, but they need to be guarded against sudden changes of temperature.

The process of enameling belonged for centuries to the field of art and only of recent years has it been applied to the humbler use of coating kitchen utensils. Enamelware is the modern beauty of kitchen utensils. It comes in such lovely colors—shining white, warm ivory, apple green, tangerine, rose, blue, sunshiny yellow, and flaming scarlet.

The difference between low and high priced enamelware lies in the quality of the work and the thickness and number of coatings. Porcelain enamel has the same composition as glass and it is fused into the utensil foundation, usually steel. For instance, the triple coated ware has three applications of porcelain enamel with a firing after each. The best enamelware is as smooth as china and free from irregularities. That of second or third quality shows certain defects, a tendency to bumpiness and a coating not quite up to standard in its thickness and workmanship.

Will enamelware chip? Yes, even the best of it will do so when it receives a sharp blow or is dropped. Enamelware chips off the metal foundation, but with careful handling and barring accidents, such utensils last a long time.

They are easily kept clean with hot water and suds and they are slow to stain and discolor. They should never be scraped. If food sticks to the pan, add bicarbonate of soda to the warm water. In a stubborn case of sticking, the water should be brought to a boil in the utensil. Cold water added to a hot pan is likely to cause the enamel coating to check or craze, forerunners to chipping.

Many of the modern kitchen stoves are covered with the same porcelain enamel. It is (Continued on page 314)
Sprightly finches become very tame with kind treatment and there is constant delight in watching their unusual habits. They will enjoy the spacious cage furnished with a tree limb. The cage may be placed on a pedestal base of wrought iron or on a table or suspended from a wall bracket. (Courtesy of Shoemann and Mayer)

Another modern departure from the conventional bird cage of square or cylindrical shape is this egg-shaped affair which must be suspended. (Courtesy, Ovington's)

Bird cage architecture here takes a circular turn in a cage that may hang from a suspension stand or rest on a table. (Courtesy of John Wanamaker, New York)

The up-to-date bird demands sanitation in his home and the cage on the left, of pyroline, the new composition that will not chip or corrode, meets with his approval, for it may be easily cleaned and cared for. (Courtesy of B. Altman & Co.)

To be smart, the bird cage should harmonize with the color scheme of the room. It adds that note of decoration which cannot be supplied in any other way, for it almost becomes animate with the cheerful warbling of its happy occupant. (Courtesy, Hendryx)
A blithe note in decoration

Birds add brilliance to the interior

HORACE MITCHELL

SONG, a darting flash of color, a merry mood—what spontaneity and dynamic charm living, growing things contribute to a cordial room! There are many bright birds which may be used in the home to complement the decorative treatment of various settings and add to them interest, affection, and life.

Birds considered as decoration suggest all sorts of possibilities. In addition to color effect, they bring the "fourth dimension" to decorating—sound. The trill of a canary, the tender song of a nightingale, or the jocular impudence of a parrot are often inspired touches that lighten the atmosphere of rooms inclined to be ponderous or introduce a naive bit of music to a quiet corner.

Their sunny color and melodious voices make canaries the most popular of all cage birds, but the loveliest looking birds are not usually the sweetest singers. In making a selection, therefore, it is well to decide which quality you wish emphasized in your bird—beauty or music. The Hartz Mountain canaries are bred for voices by German peasants who carry bird training to the most minute perfection, and often teach their canaries a range of several octaves of clearest flute-like tones.

The English canaries which are bred for brilliant color and large size include the vivid reddish yellow Norwich, considered the most beautiful in the world, and the giant of the canary family, the crested Manchester copy. The most elegant relation is the gold and silver spangled lizard canary with its gorgeous metallic feathers shining among the yellow. The Belgian canary has a very aristocratic body, slender, graceful, and well formed, while the French canary is treasured for fancy plumage. But all these beautiful birds must bow before the superior musical talents of the little Germans. Since male canaries are the singers they are more expensive than the females.

Love birds or parrakeets are pleasant birds to have about the house though they do not sing. They are happier in twos or threes than alone, and because of their exquisite green plumage they are often used as color accents in exotic interiors. But there are other colors, too—including a lovely aquamarine—all of them delicate and lovely enough for the daintiest of rooms as well as the bazaar. The best parrakeets are the Australian, now being bred in California.

For those who wish small birds less commonly seen than canaries and parrakeets, there are goldfinches richly splashed with scarlet and gold, crimson-breasted bullfinches, green and yellow sikins, green-backed chaffinches, twittering white Java sparrows, long-tailed Wydah finches, cut-throat finches with their bright red throats and soft fawn bodies, resplendent zebra finches, glossy black and orange weavers, affectionate white and black-capped nuns, and the plain plumaged but rapturously melodic skylarks, shama thrushes, and nightingales. All of these birds are agreeable to keep in small cages or a contrasting selection of them makes a scintillating aviary. They seem to offer the range of the spectrum in choice of colors and they are equally versatile of voice, some being jubilant singers, others vivacious chirpers or sprightly whistlers. Amusing and sometimes intelligent to a disconcerting degree are talking birds such as the sly, clownish magpie, the glinting raven, the crow, the talking myna, and the parrot. Of these, the parrot is the most familiar because of his brilliant coloring and entertaining moods. A paradoxical bird is the parrot, sarcastic and good natured, and one can become as attached to his scolding and teasing as to a devoted dog or other affectionate animal.

The oldest variety known, the African gray parrot with his bright red tail and shining gray body, is an intelligent, meticulous talker and usually a better whistler than singer. But more popular is the double yellow head parrot which acquires a remarkable repertoire of mimicry, critical comment, slang, and animal noises and may be taught to sing with a real operatic flourish. His colorings are green with yellow, red, and blue markings, and as a native of Mexico he has been treasured since the earliest recorded history of the Aztecs. The Amazon parrot of green, blue, and yellow; the Cuban parrot of green, white, scarlet, and blue; the Carthagena parrot so closely resembling the double yellow head—all are friendly birds for the home and colorful to have about. But the largest, the longest lived, the most gorgeously plumaged parrots are the macaws. They enjoy admiration with almost human delight and are not in the least diffident in demanding attention though they are not as fine talkers as the smaller parrots. The scarlet macaw is one of the most spectacular looking of the species, having beautifully preened feathers of scarlet with touches of indigo blue, yellow, and green. Another striking macaw is of brilliant blue and yellow.

The cockatoo, a gentle bird of the parrot family, is very pretty though he seldom learns to talk well. A beautiful crest of either lemon colored or red striped feathers gives his vividly marked white body a regal appearance. But no matter how gorgeous the bird, the cage is seen first, and if it does not harmonize with both the bird and the room, it may ruin the effect of exquisite plumage. Therefore, it behooves one to ponder thoughtfully over the choice, which is governed by only a few "musts." For most small birds, regular canary cages are adaptable, while finches require larger cages with the wires closer together, nightingales broader, lower cages, and parrots more capacious ones. The cage may be selected for a bracket which is screwed to the wall, for a floor stand from which the cage is suspended, or for a pedestal base on which the cage rests. Most cages can be used with wall brackets, suspension stands, pedestal bases, or tables.

Among the interesting wall cages is one of hammered metal in antique finish which takes its (Continued on page 314)
That ounce of prevention

Look before you build if you would save money

MILTON TUCKER

If an ounce of prevention was ever worth its proverbial "pound of cure" it most certainly is in the construction of homes. A little more care in the selection of materials, and a little better workmanship to put them together into a completed house, will prevent a great deal of the unnecessary expense and trouble which ensues when the house starts to deteriorate prematurely.

Many of the defects which, all too often, appear in comparatively new houses could have been prevented at the time of building. In fact, practically all the repair work which we see going on about us day in and day out, year after year, could have been prevented by the use of more durable materials and sounder methods of construction. And often these better methods and materials—these ounces of prevention—cost no more than those which produced the poor results. A great many times they cost but little more, at any rate, a great deal less than the cost to replace the defective work with durable construction.

On this page are photographs showing a few of these better ways of building your house. And with each is another photograph showing the rapid depreciation which takes place if these better methods are not used. Each pair of photographs tells a whole story at a glance but beneath each pair is a description of the "ounce of prevention" which would have saved many dollars and much disappointment.

Small openings should be provided in the bases of wooden columns to permit continual ventilation so that the wood will not remain damp for a long period after rain storms and eventually rot at the base. The top photograph shows a typical example of what happens when this ventilation is not provided. Cast iron bases are also successfully used to prevent rotting.

Chimneys receive the full force of storms, the scorching sun, the hot gases from within the chimney, and the disrupting action of frost. Their tops must be protected by a solid stone or cement cap, as below, which will prevent water from saturating the chimney, freezing and expanding and causing the damage seen at the left.

Why label your home as an inferior piece of workmanship by placing on the front door a cheap piece of plated steel hardware which is bound to rust? Solid brass or bronze hardware will give your home an air of distinction; a permanent label of quality. These two pictures show the great difference a few extra dollars can make in the appearance of the entrance.

The masonry over doors and windows must be supported on suitable beams or lintels or on carefully constructed arches as shown below to prevent the settling and cracking which occur if the masonry is allowed to rest on the wood frame of the window or door.

At the right is seen what happens when the precautions are not taken.
The inexpensive window seat

Add greatly to the comfort of a room

WILLIAM GERMAIN DOOLEY

WINDOW seats are inexpensive. It costs little to add one to a house already built, and even less to include them in the blueprints of a new house. Cost depends, as in other things, on the specifications, the size, and the elaboration of the decorative work. It is important to follow closely the style of interior trim, remembering that built-in seats are an integral, architectural feature of the house. By judicious planning of construction details in a typical house with a base price of $14,500 two window seats were included at a cost of $16. If built from stock woodwork this would have been less. In the estimate, the wood was pine or whitewood, painted. Oak would probably have been more than twice as expensive.

Those handy persons who have a knack for carpentry may add window seats with very little effort. The more progressive lumber companies now furnish blueprints and advice for the construction of all sorts of built-in furniture. The simplest form of window seat (the bench) may be built and upholstered at a cost, for lumber, of $7.45, and $5.25 for the cushion, assuming a typical length of fifty-five inches. The price mounts upward with the degree of finish and

The combination window seat and radiator enclosure is one of the most modern developments. These enclosures throw the heat out into the room and protect the draperies from dust in addition to providing a comfortable place from which to gaze at a favorite vista.
The plainest type of seat, of course, is the bench form, open underneath and covered with plain seat cushion. If well made, this type does very nicely in a room of modest pretensions. The degree of refinement should vary with the interior woodwork when you are considering the next possibility—the built-in seat. This is either a continuation of the dado or harmonious with it. It is really a development of the bench with a closed-in front, often with paneling and molding and a hinged top, making a chest or storage space. Lined with cedar this makes a splendid place for storing clothes. To avoid the bother of lifting the top, hinged or sliding doors may be used, making a cabinet. There is also the bookcase type, with one or two long shelves underneath, commonly used in the library. Finally, and the most modern development of all, is the combination window seat and radiator enclosure. These enclosures are of steel or wood, the wooden ones being usually made to measure. These radiator shields have many advantages: they hide ugly radiators, they throw the heat out into the room and protect the window draperies from dust, they have moisture pans to humidify the air, and they are insulated. Some may be used as window seats winter or summer.

Once you have decided to have a window seat, the next thing is the selection of the best window. Two things are important; the interior comfort, and the exterior view. It is not always possible to have a charming view, but a little forethought will assure you of comfort. Accessibility is one requisite. It should not be necessary to climb over and around furniture to reach the window seat. Windows, as immovable accents of a room, need an unobstructed position. Suitable dimensions make for comfort. The seat should be as wide as possible without jutting out into the way for people to stumble into. The width should rarely be less than fourteen inches, while the length must suit the available space. Ranges of double and triple windows allow long loungy seats, especially fine for bedrooms. They afford chances for afternoon naps without mussing crisp bedcovers.

Dormer windows, bay windows where small floor space precludes the use of furniture, always suggest a location for window seats. Having none of these, and your walls not thick enough for deep recesses, if you must have window seats, there are ways of avoiding undue projection into the room. The best of these is to flank the seat with book cases.

A prime requisite for window seat comfort is upholstery. Sectional cushions are the best. They come in many standard widths, and can be made to order. There are different grades of filling, and here the law protects you by requiring the manufacturer to label the type and grade of filler used. Look for this label when buying. The use and exposure should determine your choice of material. Durability and sunfast color are most important; waterproof surface is sometimes necessary. Through leather, rubberized fabric, and denim, through the mohairs to the cretonnes and lighter colors there is ample choice.

A beautiful exterior view, if you are fortunate enough to have one, is a distinct asset. We all have a favorite vista of rural countryside, or picturesque city skyline. Perhaps the chosen window will face a park, or avenue promenade. Window-sitting, like angling, is a meditative, philosophic sport, lacking, as yet alas!—its Izaak Walton.
This house, in a style which is becoming increas-
ingly popular in California, was designed for us
by Winchon Leamon Risley, a well-known architect
of Los Angeles. The popularity of this style is due
not only to its ease of adaptation to modern needs,
but also to the fact that it is native to California.

A CALIFORNIA HOUSE

Designed for The American Home

Mr. Risley estimates the cubical contents at 30,000 cubic feet, and
says that in those regions where
this house rightfully belongs, it
could be built for $15,000. The
charm of the house is due not
only to its admirable architecture
but also to its skilful landscaping.

The maid's room and bath and a guest
room and bath are both on the first
floor. There is a large pantry and also
an enclosed servants' porch. The two
rooms on the second floor open on to the
balcony, and each has its own bathroom.
For the walls of this attractive house in what might be called the modern American manner, the architect, Jonas Pendlebury, suggests common brick painted white, with shutters and all exterior woodwork including the doorway painted in a cream color. The roof might be of dark blue slate, which would form a pleasant contrast with the white walls and woodwork. The low, walled forecourt leading up to the entrance could be attractively developed as a small formal flower garden.

**GOOD PLANS AND PROPORTIONS**

An attractive nine-room house of effective design

by JONAS PENDLEBURY

The floor plans deserve special consideration. The front hall is easily reached from the dining room, kitchen, or maid's room. The kitchen has good cross-ventilation, and a pantry serves to keep the odors of cooking out of the main part of the house. The garage is situated in a wing of the house and, in those parts of the country where the fire laws permit, it may be entered by a door directly from the service part of the house. There are five bedrooms on the second floor and a large number of closets. The architect estimates the cubic contents at 40,000 cubic feet, which, at 60¢ a cubic foot, would cost $24,000.
The charming cottage pictured above, in a modified English style, was designed by Harry L. Wagner, an architect of Kansas City. Mr. Wagner suggests that this house be built of stucco in a rich buff color, with the half timbering and other exterior trim of cypress, rough sawn. This trim should be stained and weathered gray-brown. The roof is of wood shingles, irregularly laid. Mr. Wagner estimates the cubic cost at $23,000 cubic feet, and in those parts of the country where this type of construction costs 60¢ a cubic foot, the house could be built for $13,800. The sizes of the rooms, which are not given on the floor plan, are as follows: living room, 13' x 22'6"; dining room, 10' x 10'6"; kitchen, 9'6" x 9'6"; rear bedroom, 11'6" x 12'; bathroom, 7' x 6'6"; front bedroom, 11'4" x 12'6"

A CONVENIENT COTTAGE

Designed for a Middle Western home

by HARRY L. WAGNER

The floor plans have been well worked out to afford a maximum amount of light and ventilation. Each room is a corner room, except the dining room, which has three big windows. There is a large fireplace in the living room, and double doors open on the porch.
TRUE EARLY AMERICAN

A style three centuries old

There has recently been a decided revival of interest in the earliest type of American architecture which is illustrated in this house designed for us by Theodore Whitehead Davis. It has much to recommend it to modern needs. The floor plan is of the square, economical type; the second floor overhangs, and is slightly larger than, the first; the details are of the simplest. Mr. Davis suggests that in his house the first story walls be finished with natural vertical siding laid with V joints and that the second story be of clapboards, also stained a natural color. A chimney of common brick, roof of red-brown shingles, and bottle green shutters complete the color scheme. In the cellar, which is fully excavated, he has planned a large game room with a fireplace. The cubic contents is estimated at 20,000 cubic feet, which, at 55 cents a cubic foot, would make the house cost $11,000 to build. Below are shown the rear elevation and one side elevation.
This lovely electric clock is suitable for wall or mantel use. It comes in natural mahogany with gold plated medallion and is Chippendale in its design. Large Roman numerals and simplified hands make the readability very easy.

Signs of the time

Decorative clocks for modern homes

DOROTHY STACEY BROWN

NO HOME to-day is complete without its clocks. They get us up in the morning, send us out of the house in time for work or school, and warn us when the cake is baked and when dinner is ready. We are so accustomed to regulating our lives by their advice that if some unkind power suddenly removed them all we would be quite at a loss without these familiar aids to count the intervals we call seconds, minutes, and hours.

With each advance of human knowledge has come an improvement in the way of measuring time. Clock making began in Europe as early as the thirteenth century, but it was not until the seventeenth, the great century of scientific achievement, that Christiaan Huygens in Holland made the first pendulum clock. After this invention one improvement followed hard on another until by the early nineteenth century clocks ceased to be a luxury and began to be considered as household necessities. In 1808 Eli Terry, Seth Thomas, and Silas Hoadley formed a partnership to make clocks in Connecticut. Terry had started business with a small collection of clocks made by himself, which he slung round his saddle and journeyed on horseback to sell to the New England farmers. From this beginning grew a great industry, which at last made clocks in such quantity and at such reduced prices that they were brought into every home. Our own century has seen the greatest contribution of all to the keeping of accurate time—the electric clock.

There are clocks to-day for every room in the house, for every style of furnishing, every space, every purpose, and all of them, large and small, may be depended on to give an honest account of the passing of time.

In the average home the clock in the living room is the most important, the most frequently consulted, and the great demand for clocks of this type has caused them to be made in a wide variety of styles. Rooms in Early American style are especially well favored, for many clocks of modern manufacture reproduce the designs of Eli Terry and his
upright models, or a timepiece in modern design may add an effective decorative note. One square mantel clock shows the modern influence in its dull black case with gold dial and frame and gold-tipped set-back decoration at the sides; a still simpler pattern uses a contrast of black and silver. A very modern electric table clock has a case of beetle, a synthetic material which is washable and non-inflammable, with silvery chrome metal feet and ornamentation, and is very moderately priced at $15.00. An Early American reproduction costs as little as $20.00 and for $60.00 there are models of the very finest workmanship and design.

If you are not so fortunate as to have a genuine old grandfather clock to stand gravely ticking the hours away in the hall or at the turn of the stairs, there are very satisfactory modern versions to take its place. These have not the complicated ornamentation of their ancestors, nor do they tell the days of the week, the months of the year and the phases of the moon as did those which fascinated many of us when we were children, but they have finely designed and finished cases, engraved metal dials and announce the time with a musical chime. If your hall or pocketbook is not sufficiently expansive to permit a grandfather (Continued on page 323)
A well-equipped hearth must have andirons of a style in keeping with the proportions and type of the fireplace. The fixtures—longs, hooked poker, fork, shovel, and brush—are essential. The long fireside matches with their colored heads are both decorative and useful. The bellows in foreground is helpful in stimulating a draft.

Helpful hints for the hearth

Fixtures play an important part

EDWARD LONGSTRETH

In considering the fireplace—and who is there who wouldn’t consider it on these cold winter nights?—one realizes that andirons are the foundation of an open wood fire. They are really necessary aids for a good fire and fortunately are obtainable in every shape, size, and style at prices to suit everyone’s purse. The style, of course, will depend on that of the fireplace and room; the size, on the proportion of the whole. But whether andirons are made of iron or embellished with brass or silver they must rest firmly on their bases and not be easily overturned.

At the back of the fireplace we can place an old cast iron fireback for it not only makes a good decorative adjunct to the opening but it retains the heat of the fire.

Fire tools are selected according to the work they have to do. A wood fire is best arranged and rearranged with a long-handled fire fork, or a long hooked poker which is dull both on the point and on the barb, for otherwise it will stick in the

A fire screen is a necessary adjunct in protecting against flying sparks. Above is a pair of amusing andirons. The trivet, fuel holder, and Cape Cod lighter at the left are all well designed. (Courtesy, Todhunter. Other equipment on this page from the S. M. Howes Co.)
wood and be more of a hindrance than a help. A brush to keep the hearth clean and a shovel to keep the ashes neatly piled under the logs will complete the set.

Tongs with a very wide spread may be preferred to a fork by some people, but ordinarily tongs are for coal fires and nubbles of wood. Nubbles, are short chunky pieces of wood that some people like to burn in the old-fashioned coal grates. They have the advantage over coal in that they give a quick, hot fire. Coal also has advantages—but more about these later.

Stands come ready made to hold fire tools upright on the hearth, but for the larger tools jamb hooks will be more convenient and, in any case, take up less room and look more decorative than stands. The jamb hook fastens onto the wall beside the fireplace and holds the tool securely in place and out of the way.

In some houses window seats are used for wood boxes, but in most cases the fuel is stored in a container right by the hearth. All kinds of things serve this purpose—wicker baskets, decorated brass-bound boxes and hods, and chests of every description. The newspapers for kindling are kept in a corner of the fuel box.

Near the tools and opposite the fuel box is the place for the lighting appliances. Cape Cod lighters in dull bronze, silvered, or wrought-iron pitchers, rest in shallow saucers so their combustible liquid contents will not be in danger of spreading over the hearth and catching fire. The best lighters of this type have the porous burner bound with wire so that if it cracks it cannot fall in pieces. The long and slender fireside matches are a great convenience and come in two styles—the domestic sort are plain, the imported ones are gayly colored. The boxes are often decorated with old prints and some very valuable ones are on the market for a surprisingly small amount of money.

There is another group of fire appurtenances which add greatly to the pleasures of the fireplace. The group comprises a slender toasting fork for marshmallows and raisin bread, a corn popper, and a chestnut roaster. They may be held by jamb hooks on the side of the fireplace opposite the fire tools.

Only the old-fashioned colonial or baronial type fireplaces are equipped with cranes and crane hooks. On the crane the kettle is hung to boil water for tea or to heat a punch of cider, lemon, sugar, and cloves.

But one is not dependent on cranes for the pleasure of heating the beverage for a congenial sup around the blaze. There are trivets, little metal stools on which the kettle can be placed close to the fire. Some trivets are made with hooked brackets and a handle so that they can be hooked onto the bars of an open grate.

Old iron grates, such as those used in Georgian fireplaces and found almost everywhere in the last century, make a cheery focal point for a chummy gathering of friends or family. They burn nubbles of wood, cannel coal, or briquettes.
Less than a present
—more than a card

MOLLIE AMOS POLK

ABOUT this time every year the Christmas greeting question becomes acute. Those nice little cards bearing a thumb nail etching of the new house with the engraved bit about the latchstring that's always out stand in neat piles waiting to take their chance with the rest of the Christmas mail. But the problem of how to deal with the neighbors on Christmas morning quite probably is still unsolved.

Shall we lurk behind the living room chintz while the postman bears a greeting to them in which the words “holly” and “jolly” twine in joyous confusion? Or shall we recognize the seriousness of the situation with a large, haughty square which carries a faint flavor of “all the news that’s fit to print” in its chaste line of greeting? As an alternative we then consider, perhaps, one of those cards that show the whole family descending from a scarlet stage coach amidst a flutter of snow and hearty sentiments. Reason asserts itself, however. A stage coach is all very well for the folks back home; the card carries a romantic touch when we

These bridge playing cards have colorful backs, concave sides, and tinted edges. Two decks packed in a colorful box cost $1.15. (Courtesy of B. Altman & Co.)

For less than $1.50 there are sets of lotion bottles and jar, a dainty doll for holding powder puffs, and another for holding handkerchiefs. (Courtesy, R. H. Macy & Co.)
At the right is a gaily colored modernistic box of harlequin matches, cloisonné ash receivers and match box holder, all under $2.00 each. (Courtesy, Ovington's)

Below: scrapbook, Tony Sarg painted tin tray, replica of Miles Standish’s cutlass, library set, and a globe all less than two dollars each. (Courtesy, R. H. Macy & Co.)

Starting at the top row the articles are as follows: Pompeian Italian pottery vase, Czechoslovakian flower pot and candlesticks to match, Italian pottery cracker jar, German pottery cigarette holder and four ash trays with monkey head, Italian powder or candy box with della Robbia design, tile or wall plaque, cigarette and match holder with black cat, gay English earthenware dessert plate, pottery wall pocket, pottery bowl for flowers, all under $1.50 each. (Courtesy, Stern Bros.)

send it off across two hundred miles or so of snowy countryside. But after all, we’re too close to the neighbors for that sort of thing. Our fellow suburbanites know quite well that a stage coach is quite beyond our ken. We travel on the 8:15 and we shall all meet on it the morning after Christmas.

Why not, then, drop the card idea entirely for those nearest neighbors and give instead, some useful little thing that one could scarcely dignify with the name “Christmas present” but that is just a little more than a card. Something that costs, let us say, about a dollar, which will prove a pleasant continuation of the amenities exchanged over the lawn mower in the more leisurely summer days. It is amazing, too, what a diligent Christmas shopper can find within this price range.

Small gifts to dress up the guest room and bath are always welcome, so let us begin in the linen department of some of the stores and see what they offer for a dollar or less. Wash cloths might seem at first thought to be a rather prosaic sort of thing to give for Christmas and yet those bundles of eight or a dozen pastel cloths wrapped in celophane and tied with tinsel ribbon which all the stores are offering are as gay as confetti and, being color-fast, will lend their gaiety throughout the year. They are priced at sixty-eight cents to one dollar.

This is also a good year for buying guest towels, for many of the stores are offering extraordinary bargains in small linens to attract the Christmas trade. The little Italian linen towels with embroidered cutwork for which one had to pay at least a dollar and a quarter last year can now be bought for a dollar. Guest towels in this price range vary all the way from these in heavy linen, to (Continued on page 323)
Fruit trees and the like as ornamentals

A good bet that is being overlooked

CLARENCE E. BAKER

The great joy of growing fruits and vegetables in one's own garden is lost, as a general rule, after the customary landscape planting has been completed, because no room is available for bush or tree fruits.

A partial solution may be found by incorporating a few fruit bearing trees, shrubs, and vines into the landscape planting. True, this plan presents some difficulties, especially the inability to provide the fruit with the best cultural attention. One must be satisfied with smaller yields and, perhaps, even inferior fruit in some instances, but if the optimum cultural requirements are duplicated as far as is possible the growth and yield of the fruit may be maintained in a very satisfactory manner. Mulching serves well as a substitute for cultivation and the liberal use of fertilizers may aid in overcoming soil deficiencies. Artificial watering also during dry periods is, of course, very effective.

Previously the greatest objection to growing trees and shrubs subject to scale insects in the vicinity of painted buildings was the necessity of spraying with lime-sulphur sprays to kill the scale. This spray ruins painted surfaces, causing discoloration of the parts with which it comes in contact. As the newer oil emulsion sprays now employed for scale control may be used without harm to painted surfaces this objection has largely been removed.

Some of our common tree fruits and vines have very valuable landscape qualities and when so used fill the double purpose of beauty and utility. What New England farm home would be complete without the picturesque beauty of a group of gnarled, old Apple trees? When in blossom the trees are especially lovely, but at any time they present an informal, homey aspect that is always fitting in such a scene. A single Apple tree used alone or as a part of a group planting with shrubbery presents many possibilities. In choosing the variety for landscape work avoid Yellow Transparent, Jonathan, Spitzenberg, and such varieties that are subject to fire blight, as this disease cannot be controlled by spraying, and it quickly spoils the beauty of the tree.

Pears also may be used. The varieties that tend to grow tall and conical are pleasing where such a shape is desirable. The more spreading varieties, likewise, have their place. In choosing pear varieties the blight factor must be given.
Finding the plant to fit

Furnishing the outdoor living room

L. W. RAMSEY

This is the season of the year when one's thoughts turn toward the home grounds and the goal of every home owner is the creating of a truly private area about the home where one can enjoy the amenities of gracious living out of doors. Such an area is really a room out of doors with all the privacy of a room within the home. Here the trees form a roof of shade, shrubs and flowers the walls of living green, and the grass of the lawn is a luxurious carpet beneath one's feet.

Then we plant gay flowers for color notes, just as we secure color within the home by the use of pictures, tapestries and odd pieces of bric-a-brac. We, of course, add garden furniture and equipment for games and other features in order to make our out-of-door living room truly liveable and a place where the children may play safely. To achieve such a charming addition to the home is not difficult. In fact, if one proceeds with a little thought and study the final results are certain to exceed one's expectations. All one needs is a pencil and a piece of paper and the garden of your dreams can take form just as you would like it. There is almost as much pleasure in planning a garden as in enjoying the final results. And it is well to remember that it is easier to move a tree or shrub with an eraser upon your sketch pad, than to move with shovel and spade after it is established in your garden. Whether your garden is being planted for the first time or whether you are adding to or remodeling old plantings, the following suggestions will assist you in choosing the proper trees, shrubs, and evergreens for every purpose.

Let us assume that we have determined the outline of our private area and we are concerned here in selecting the very best trees and shrubs to assure the privacy we desire and at the same time, through leaf texture and blossoms, add to the beauty of our garden. Of course, we cannot plan our border plantings unless we take into consideration the view to be screened and vistas to be framed. Quite often there is an unpleasant outlook and by the proper selection of plants it can be completely hidden from view. (See illustration at top of page.) At other times, our border plantings can be arranged to frame interesting vistas and bring them into the garden picture. It is not the object of this little article to attempt to select the exact varieties to use for this or that purpose in each locality—this is impossible. It has been our purpose to show a method of determining the plant material suitable for each use. Growing conditions vary greatly and the plants which thrive in Boston may not do well in Illinois, while in portions of the South and on the Pacific Coast the planting materials vary to an unbelievable degree from that area over the greater portion of the United States.

If we first sketch out a plan of our outdoor living room, we can then study the planting which makes up the walls, much as we study the wall elevations of a room. (See illustration on next page.) Study this illustration for a moment and you will see how easily the completed garden reveals itself.
Once we have determined upon the form and type of planting material desired, it is an easy matter to select from the nursery catalogs just the tree or shrub to correspond in character with the planting desired. Or, again, one can present one's ideas, thus roughly sketched, to the landscape man or nurseryman and he can assist in choosing just the right plant for each location. The modern nursery is a veritable storehouse of interesting trees, shrubs, and flowers and so beautiful are some of them in themselves that one is tempted to plant a garden to enjoy them alone.

So, you see, it is much more sensible to proceed with some definite idea of what one desires rather than plant just anyhow; and it is certain to prove more satisfactory in the end, for when the trees and shrubs reach their maturity, they will accomplish just what we expect of them. (See illustration at right.) If one plans correctly on paper, the final planting will be right—there is no question about this.
The mode in the small garden

Limiting desires to fit limitations of space

ROMAINE B. WARE

I WANT a small garden that will be easy to care for, one that will be simply overflowing with flowers, you know, the kind of a garden that one can really live in.”

Thus speaks milady as the subject of the garden for the new home is broached. It is not to be a large garden, as the lot is just the average size, but the garden is to be complete and livable. Ideas about the home itself had changed many times as plans were drawn and redrawn, and now the garden, not hitherto given a thought, looms up as a new problem.

Modern home planning has removed the porch to the rear or garden side and is now locating the garage as a unit of the house itself, bringing it closer to the street with a great saving in space formerly given over to and wasted in driveway. Modern garden planning has developed a vogue particularly adapted to the most complete utilization of the small garden area. In this day when efficiency is the keynote of the modern home, the garden should also be planned and planted to give the best results with the least expenditure of time. Attention of the plant producers has concentrated greatly on smaller plants fitted to the modern small garden. But before thought is given to the kinds of flowers or shrubs, the plan by which the garden is to be built must be decided upon.

Garden planning as we know it to-day is the result of a long evolutionary process. There has been much controversy as to the most desirable type of design to meet modern conditions and a rather definite style has been developed for modern use. Time was when many of our gardens were simply created to look at and walk through, but to-day most of them, especially the smaller ones, are planned to be lived in. We have learned to appreciate the outdoors much more, to take the greatest advantage of the life-giving sunshine, and in doing so we seek to beautify the yard adjacent to the house so that it may be in keeping with its better and more personal use. (Continued on page 332)
Linen Damask is Charming at Luncheon

FILIGREE
Filigree, the fairylike ornamentation loved by Florentine silversmiths, is delightfully appropriate to the airy gaiety required of a luncheon cloth. The venturesome little tendrils of a luxurious vine were the inspiration for this strikingly modern filigree design.

Luncheon glows with the color of a day in its prime. And Linen Damask on the table enters blithely into the vivacity of the occasion. There are many patterns in Linen Damask made by Irish and Scottish weavers that are exactly suited to the warmth of laughter and gay talk, when the mellow mood of noon pervades the air.

LOVELY LINEN
DAMASK TABLECLOTHS & NAPKINS
impressively correct

SEE THE NEW IRISH AND SCOTTISH WEAVES AT LEADING STORES
For health in house plants

Difficulties of modern living conditions

GEORGE H. DACY

SUCH bugaboos as desert-dry atmosphere, excessively high temperatures, inadequate daylight, and contamination of the air with gases, fumes, soot, and dirt complicate the culture of house plants.

The atmosphere in your home, or mine, during the artificial heating season is as dry as the air of the Sahara Desert. The evaporation of from twenty to twenty-five gallons of water daily would be necessary in the average six-room home to humidify the air properly during the winter. The ordinary living room temperature is from fifteen to twenty-five degrees too high for all except a few house plants when exposed to full sunlight. The commercial florist has determined by experience that the most favorable green-

Of all the red-berried plants of the holiday season Ardisia is the most practical. The berries endure a whole year, house temperatures are from forty to sixty degrees by night and approximately ten degrees higher by day.

Your flowering plants will prosper best indoors in an unshaded south or southeast window provided with shelves or stands close to the glass. Many of the ferns, palms, and other foliage plants, however, flourish in strong reflected light as when exposed in a north window, although a little sunlight daily is usually more satisfactory even for such ornamentals. Some plants do well in subdued light. Gas, however, is fatal to all plant life. A minute leakage of illuminating gas so small as not to challenge detection by human senses, or gas escaping from a furnace, range or heater are very harmful to indoor plants.

The smoke and soot of manufacture, industry, and commerce seep into modern homes and collect on the foliage, of house plants. The customary plant relief afforded outdoors by drenching rains and in the greenhouse by forceful watering is denied the ordinary house plant. Hence you must bathe your indoor plants occasionally even as you would wash a pedigreed poodle or pet feline. Lather the foliage thoroughly with rich suds made from a good grade of soap and then rinse completely. This treatment not only removes the dirt but also eliminates such pests as the mealy bug, red spider, and plant lice.

Potted plants demand receptacles large enough to accommodate their roots to insure normal healthy growth although flowering plants will not blossom in pots that are too large. Flowering plants which are “pot-bound” with all the earth occupied by roots are the heaviest bloomers. Similar conditions are injurious to foliage plants. The recommended practice is to transfer them to larger containers whenever indications of “pot-boundedness” develop. All plants require occasional re-potting for most satisfactory growth. In the case of the slow-growing kinds, one potting a year, at most, is sufficient. You can always determine the potting requirements by examining the roots of the plant. Where the ball of soil is entirely interwoven with roots, the plant needs re-potting.

Potting soil is obtainable from a florist or nursery. If prepared at home, it should consist of equal parts of good loam, compost, and sand. The best compost consists of cow manure and good turf rotted together for twelve months. Well decomposed leaf mold can be used as a partial substitute for compost. A five per cent addition of bone meal also is profitable. (Continued on page 332)
Wasted Space Transformed with Celotex

The old pre-war attics with their dust and darkness are going through a complete transformation.

For fuel saving you need only to nail Celotex to the attic floor and roof rafters. The finishing of the room, can be as elaborate or as simple as you choose.

Can we shut out winter chill from the home we live in now?

This beautiful room grew from wasted space with $46.00 worth of Celotex...and pays for itself in fuel saved.

Through uninsulated roofs millions of dollars worth of heat will soon be leaking away.

Don’t try to heat all outdoors with your furnace. Put an end to this extravagance by remodeling your attic with Celotex insulation.

It’s a quick and easy job—that gives you six very definite results.

1. With Celotex you shut out dampness and cold, prevent the illnesses that health authorities charge directly to drafty houses.
2. You save hundreds of dollars in future fuel bills. For Celotex pays a big dividend each year in fuel saved.
3. The risk of fire from an over-worked furnace is materially reduced. Only hard-to-heat houses make over-firing necessary.
4. When summer comes, Celotex stops scorching sun’s rays—keeps rooms cool and pleasant.
5. Now once-wasted attic space stays comfortable all year 'round—becomes instantly available for pleasant, useful rooms. You can have a delightful new living room, an extra bedroom, or a healthful playroom for the youngsters.
6. You increase the resale or rental value of your home.

Celotex builds as well as insulates, makes rigid, permanent walls and ceilings. The natural buff color and fibrous texture make a charming interior finish. And for plastered surfaces there is Celotex Lath, designed to protect against plaster cracks and eliminate lath marks.

Get in touch with your local Celotex dealer. He can tell you how to insulate your new home—how to remodel your attic or your garage, quickly, easily, inexpensively—with Celotex. He’ll furnish you the facts and figures you want—and recommend architects, contractors or carpenters to handle the work. He’ll give you our interesting new booklet “Celotex Cane-Fibre Insulation.”

Curtains of flame in Florida gardens

Spectacular midwinter color where frost is lenient

ELIZABETH ROBINSON

In mid-January a miracle of blossoming occurs in Florida. Already riotous with scarlet Hibiscus and Turks'-cap, gardens flaunt huge banks of red Poinsettias. Purple and crimson Bougainvilleas cascade over walls and trellises until it seems the whole garden has gone mad in one delirious burst of color.

But Nature—a good stage manager—has reserved one more magnificent gesture as her last for this midwinter blossoming before tropical foliage yields to the more delicate flowers of spring. When the stage is set and the hour arrives—then comes the Flame-vine—most exotic and loveliest of Florida's winter blossoms.

Difficult it is to convey in words the spectacular, breathtaking quality of this vine when seen to its greatest advantage. Though sensitive to frost and occasionally damaged by a night of unusual cold, the vine grows so rapidly that in a season it recovers its former glory so that no year passes without at least a short period of bloom.

Bignonia venusta, by reason of its vivid intense orange hue called Flame-vine, has a color like the shade that glows in the heart of blazing logs, and is of particular interest to a Florida winter garden. It may be grown from cuttings and a single root will send a mass of vines one hundred feet.

An interesting method of using it is to train the plant up the length of any dead, unattractive tree. All through the summer, aided by frequent rains, the delicate, close-leaved vine climbs, weaving itself naturally into a complex and intricate pattern, sending off long trailers that fall gracefully into space. Soon the trunk is covered with this blanket of green, and toward the end of January hundreds of the long trumpet-shaped flowers, burst into bloom and the entire vine is hidden by this swirling mass of flame.

Still another method in which the vine grows readily and one capable of endless variations and adaptations is what is called the "curtain of flame." This may be used to great effect in large spaces where many Pines grow. Stout ropes or wire are stretched from one tree to another ten or twelve feet above the ground and the vine is induced to send itself along the rope. The vine, with its marvelous adaptability does the rest. So gracefully does it adapt itself to the dictates of gravity that the trailing ends grow down, down, down, each branching out anew until after a few months the vine has made a thick impenetrable curtain.

The plant may be purchased as a root from any nursery for a small sum. A high, sunny location is desirable, and if one wants to assure a quick growth and a well-covered trellis within eighteen months, one will do well to put in a number of roots. Not a great deal of water is needed, the natural rainfall almost sufficing for the plant's needs.

But for the more adventurous gardener—one who has the "growing hand"—the plant may be easily rooted from cuttings. Pieces of vine from a foot to a foot and a half in length with numbers of eyes are set in ordinary white sand in the manner customarily employed in rooting cuttings.

It is best to root the vine in a pot or box which can be moved from place to place as weather varies. A goodly portion of water is needed as the plant is being rooted. After three or four weeks with good luck, or from six weeks to two months with less favorable conditions, the vine should be sufficiently rooted to be transplanted to the ultimate location.
"What should I expect of the home I build?"

As the first essential you will probably consider the safety and security of loved ones and possessions. Only firesafe walls and floors can meet this requirement.

As the second essential comfort will suggest itself—the comfort of a warm home in winter and a cool home in summer. Only walls that keep out temperature extremes can meet this requirement.

Certainly, you should expect your home to be good looking and substantial, and inexpensive to maintain throughout a lifetime and more.

Now, then, of what material other than concrete can you reasonably expect all these qualities? Walls of the hollow type that insulate interiors from exteriors. Walls and floors that are firesafe, rigid, upkeep-free, long-lasting. (Concrete becomes stronger with age!) A distinguished appearing masonry exterior at relatively low cost. Build your home of concrete and secure what you should reasonably expect of the home you build.

PORTLAND CEMENT ASSOCIATION
Concrete for permanence and firesafety

33 W. GRAND AVENUE
CHICAGO
Three generations have trusted this name

GOOD BUILDINGS DESERVE GOOD HARDWARE

P. & F. CORBIN "38® NEW BRITAIN, CONN., U. S. A.

The American Hardware Corporation, Successor

NEW YORK  CHICAGO  PHILADELPHIA

Makers of the world’s most complete line of builders’ hardware

Brighter breakfasts

Continued from page 283

with decoration of English hunting scene. A bread border of forest green strikes the colonial mood; when used which is completed with a tray cloth of rough ivory linen and silver, silver plate, or pewter in one of the new hunt club designs.

Another masculine breakfast service may be built around a plaid Limoges china set and smartly combined with severely simple modern silver and a tray cloth of colored linen to match the plaid of the china. For this a menu to a man’s taste would include tomato juice, dry cereal and cream, waffles and maple syrup, little pig sausages, and coffee.

For those who begin the day in the continental fashion with rolls and coffee, the service of breakfast is simple. A small tray with an Italian linen doily and napkin, peasant pottery in brilliant orange and blue green and provincial patterned silver has a charm quite charming for breakfast. A honey jar or a small glass dish will hold the jam.

The tray breakfast is a noble ally of the woman who is reducing, for her diet may be more rigidly maintained when she is not tempted by the forbidden delicacies which the rest of the family are enjoying at the breakfast table. Since there is a small breakfast and sometimes dull, an especially pretty tray is her due. Wedgwood in palest powder blue with a raised white face in classic motif, set that furniture may be grouped around the walls—the ideal place for the kick-pieces parties that the ‘teen age adores. For more formal affairs, rooms on the main floor, too small to be considered one by one, will be just the thing if placed in a room so that they can be opened up and thrown together.

In all the rooms, see that the doors and the windows are symmetrically placed, if possible, unless you’ve chosen the romantic English cottage or Normandy farmhouse type of architecture. Even here, do not forget that an asymmetrical layout may be either bad or good from the standpoint of furniture arrangement. Similarly see that the fireplaces are so set that furniture may be built around them. A wise plan is to get an extra copy of the blue prints, where windows, doors and fireplaces will all be indicated, and then proceed to arrange your furniture in every room with little pieces of white paper, cut to scale.

There is no sense in giving a blanket order for hardwood floors if we have chosen the romantic English cottage or Normandy farmhouse type of architecture. Even here, do not forget that an asymmetrical layout may be either bad or good from the standpoint of furniture arrangement. Similarly see that the fireplaces are so set that furniture may be built around them. A wise plan is to get an extra copy of the blue prints, where windows, doors and fireplaces will all be indicated, and then proceed to arrange your furniture in every room with little pieces of white paper, cut to scale.

The woman speaks to the architect

Continued from page 287

object to informality. If she simply had to have a dining room, she might have planned one with a fireplace and built-in bookshelves to make an agreeable downstairs study, all the more apt to be used because it was easy to get at.

A different sort of mistake is made by the young woman with every expectation of more money—and more family. She should be frank with her architect as to present lacks and future hopes, and ask for a plan that begins with a small house to which a wing or wings can be added. She must plan for the extension when the original house is built, otherwise she may find that an addition would be prohibitively expensive on account of key construction that would have to be torn out. Or, if the new wing does prove possible, the whole effect may be spoiled because the original house was so placed on the lot that the extra unit crowds the lines of the house.

The amount of income and number of servants are not the only things that change. If Junior has arrived, it is a question of time alone till he will demand a baby sister, or Normandy farmhouse type of architecture. Even here, do not forget that an asymmetrical layout may be either bad or good from the standpoint of furniture arrangement. Similarly see that the fireplaces are so set that furniture may be built around them. A wise plan is to get an extra copy of the blue prints, where windows, doors and fireplaces will all be indicated, and then proceed to arrange your furniture in every room with little pieces of white paper, cut to scale.

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The American Home

Continued from page 285

\* Pamplona Design, Entrance Door Handle

P. & F. CORBIN "38® NEW BRITAIN, CONN., U. S. A.

The American Hardware Corporation, Successor

NEW YORK  CHICAGO  PHILADELPHIA

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Squares of Blue Linoleum No. 43, framed by Linestrips of Plain Red Linoleum No. 40, form the floor for this slumbertime room.

There's a pleasant thrill as you sit back and watch the sun's last light throw shadows into that room you call your own. This room is yours. It came out just the way you planned it. Everything in it expresses your own ideas. Particularly are you proud of the floor. What a happy inspiration to fashion it yourself with plain colors of Armstrong's Linoleum.

It did look a bit difficult when you first read about the idea. How simple, after all! Even though you never could draw a straight line, you did know what your favorite colors were—and found them in Armstrong's Linoleum. Then it was merely a matter of telling the experts to trimly tailor it to every nook and cranny and deftly cement it in place over linoleum lining. Watching them install it in less than a day seems to make you understand just why Armstrong Floors are called permanent.

Is it any wonder you are now planning to have Armstrong's Linoleum Floors for every room in the house? Why not make this pleasant experiment in your own home? Begin it right now by sending for Hazel Dell Brown's book, "New Ideas in Home Decoration." Then see the floors pictured and described by Mrs. Brown at local linoleum, furniture, and department stores. Ten cents to cover mailing costs brings the book promptly. Address Armstrong Cork Company, Floor Division, 937 Pine Street, Lancaster, Pa. (Makers of cork products since 1860.)

Armstrong's Linoleum Floors

For Every Room in the House

Plain • Inlaid • Embossed • Jaspé • Printed • and Armstrong's Quaker Rugs
Charming fireplaces—BONDED smokeless

All risk of having an unsatisfactory, smoking fireplace is now removed. The strongest guarantee conceivable—a formal Bond issued by the Bennett Fireplace Corporation and underwritten by the National Surety Company, assures the home owner of a correct-burning, smoke-free, satisfactory fireplace.

To be assured of such a fireplace you need the Bennett Bonded Fireplace unit—unalterably perfect in performance, and so guaranteed by Bond to protect you in case of failure. We furnish it with every Model F Bennett Bonded Fireplace unit.

The outward fireplace design may be as you wish. And to give you authentic suggestions we have had an eminent architect design a series of beautiful fireplaces, easily built around the Bennett Unit by any mason.

All these are usably reproduced in an intensely informative free book which explains the Bennett Bonded Fireplace—and the BOND—in detail. Send for a copy. It costs nothing and puts you under no obligation.

If you want a fireplace that works and will give you both pleasure and comfort—read that book.

BENNETT FIREPLACE CORPORATION • Norwich, New York

A blithe note in decoration

Continued from page 289

Upon proper feeding of birds depends their health, their song, and their beauty, and so it is necessary to ascertain the exact diet and schedule of feeding for your particular variety. Birds with cartilaginous stomachs such as canaries eat grain and seed which require grinding and for them gravel is absolutely necessary; while birds with membranous stomachs such as nightingales eat fish, insects, and flesh. For each group there are prepared foods upon which the birds will thrive, and for most satisfactory results one should follow these formulas.

Well to remember that a hot stove should never be wiped off with a damp cloth. Wait until it cools, otherwise crazing and checking will result.

Cooking utensils made of aluminum are either stamped from sheet aluminum, or cast in molds. The latter is known as cast aluminum and is thicker and heavier than the sheet stumps. Their wearing qualities are practically the same. They are rust proof and splendid conductors of heat. Food will cook in aluminum with a much lower flame than used for iron or enamelware.

Strong alkalis attack aluminum, corrosive and pit it. Soaps and cleaners containing powders containing such ingredients as sal soda, caustic soda, potassium, and ammonia are harmful and should be avoided. Aluminum-ware can be kept clean and bright by washing in hot water with a good soap and scouring with a metal wool sponge.

Minerals in water and foods tend to discolor aluminum. Iron deposits account for the dark appearance of the inside of aluminum kettles. This is removed by boiling an acid vegetable, such as tomatoes or rhubarb, in it, or by using a vinegar solution. This tendency to turn dark and then bright, depending upon the food cooked in it, has led to the erroneous conclusions by some people that aluminum is not a safe cooking metal. Scientific tests, however, have proved its reliability.

Sheet steel rusts easily, and utensils made from it should never be left soaking in water. Before using a new sheet steel roaster, place it empty in a hot oven for fifteen minutes. Upon its removal, scour with a gritty pow- der, dry near a warm stove, and wipe with a clean cloth upon which has been sprinkled some linseed oil.

Stainless metals are rapidly coming to the fore. Cutlery and pans made from these new metals will not rust. Neither will they discolor unless heated far above the normal cooking temperature. They can be kept bright by washing in hot water and soda.

Woolens are not hard to breed, and the children will be fascinated to watch the birds build their nest and see the baby birds hatching and growing.

Kitchen highlights

Continued from page 287

The American Home

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Now the hustle and bustle of Christmas is over we are showing a group of seven household devices of the labor saving or practical nature, which go far toward lessening the burden of everyday tasks. For prompt attention send orders, with checks or money orders attached, to names and addresses given here.

THIS new Edge-Lite is a complete bathroom cabinet and adjustable light fixture, combined. Places light right where wanted. Lights slide singly; never stick or become loose. This model at $26.50 has mirror size 16\" x 20\"; over all box dimensions 19 x 23 x 5\"; wall opening required, 16\" x 20\" x 4\". Bevelled fine plate glass mirror; green enamel, ivory door; die cast brass door with integral hinges; close quietly and smoothly. Several other models, moderne and otherwise; vanity model also. All by Henkel Edge-Lite Corp., 900 No. Franklin St., Chicago. Orders given prompt attention.

NEW, stoutly made, moderately priced: The Magic-Maid combines kitchen mixer and juice extractor. Changes from one to the other in 30 seconds easily. At $19.50 paid complete The Fitzgerald Mfg. Co., Torrington, Ct., mention that this is often the price of a mixer alone! $22.50 in Canada. Mixes batter and dough, whips eggs, etc., mashes potatoes. This is truly an amazing outfit. Rustproof; 110 v. Guaranteed.

THE last word in chopping bowls—cut from a solid square block of wood so it can’t tip over while using. Stoutly made, cleans in a jiffy; nothing to take apart or put together. The Chopette Manufacturing Co., Inc., N. Y. offers it to readers for $1 postpaid USA.

THE modern housewife takes the guess out of baking or roasting, reducing labor and uncertainty to a minimum. This white enamel portable Bake-O-Meter stands in any oven. A complete cooking guide on the enamel dial lists all average foods and temperatures. Registers from 100 to 500 degrees F. Mr. Schreiber in the New York office of The Cooper Oven Thermometer Co., 200 W. 34th Street, lists it at $1.25 postpaid USA. It makes an ideal gift for young housekeepers. Helps save fuel. No more wondering if the roast will burn before it is cooked through! Absolutely guaranteed.

TRAVELERS will adore this little padded ironing board in its case of blue, green, rose, or peach moire. Barton Studio, 2 West 43d St., New York, have it at $5.25 p’paid USA. Size 9 x 26\" just fits the average suitcase. Fine for delicate things one doesn’t care to send to commercial laundries. Switches on like a light; heat when you want it; 13 Kw per hour. Price $99.50 complete. Three degrees: (1) Cold air from 15 amp. motor, silent, non-interfering with radio. (2) Half heat. (3) Full. Made in hot water or steam style; also a neat smaller portable model, which is shown at right view.
It Can't Be Done

TRYING to drive two cars into a one-car garage reminds us of the old law of physics—that two objects cannot occupy the same space at the same time.

And this is exactly why your steam radiators are so often cold at one end. They are half full of cold air, "air-bound" (usually due to faulty valves that stick,) and steam simply can't get in.

With a Cadwell No. 10 when the steam comes on, the valve remains open till all the cold air is out; then closes tight and stays closed. We will send you (if not at your dealer's) one or more of Cadwell No. 10's for $1.00 each, and you can prove it yourself.

If you wish to go further and have a vacuum system, order Cadwell No. 20 Vacuum Air Valves instead of No. 10. They increase the heat response, save fuel, completely modernize your heating plant, $3.00 each. Order one for each radiator and one No. 20 Basement Return Valve at $3.50. All valves guaranteed for five years. Please use the coupon below.

The Beaton & Cadwell Mfg. Co.
New Britain, Conn.

CADWELL No. 10 AIR VALVE

With GAS or OIL for HEATING—what will you do with RUBBISH?

MAIL THIS COUPON

Send No Money

The Beaton & Cadwell Mfg. Co.
Dept. 10, New Britain, Conn.

Gentlemen: Please send me.......... Cadwell No. Air Valves at $.... each. I will pay postman when received.

The Unwelcome Gifts that Santa Claus Left

BOXES, crates, wrappings and packing materials! What to do with them? If you heat with coal, then you can feed this after Christmas litter to the furnace slowly, little by little — a bothersome, laborious job. But if you heat with gas or oil, you have a real problem. The heating plant is out of the question, rubbish in the basement is UNSAFE, a bonfire is contrary to fire ordinances in most cities . . . A Kernerator is the real solution. It is built to completely destroy all rubbish and garbage. It flame-sterilizes cans and unburnable materials. No additional fuel is required—the air-dried waste furnishes the fuel for its own destruction. . . . You simply drop rubbish and garbage in the handy hopper door—located in the kitchen or hall—occasional burning destroys this waste. Wouldn't YOU like this daily convenience? Ask your architect or write for booklet.

KERNERATOR INCINERATOR COMPANY
3543 N. Richards St.
Milwaukee, Wis.

Riverside Boiler Works, Inc.
Cambridge, Mass.

SEND FOR THIS BOOKLET

. . . if you are interested in automatic or manual hot water service for household use. . . . for laundry, dishes, baths, etc.

"Hot Water Service for the Home" discusses every phase of domestic heating of hot water so that the home owner can talk intelligently with his plumbing contractor and architect.

Emphasis is quite properly laid on the advantages of the All-Copper Packo Automatic Storage System . . . which insures dependable, unfailling, constant hot water service year in and year out, with clean, rustless water at all faucets.

Copper always costs less in the long run, for it is impervious to rust and wear.

Your local master plumber can safely and correctly install the system you select. He knows Riverside products, for Riverside is one of the country's largest manufacturers of steel and copper tanks for every purpose in the modernized home.

Kernerator Incinerator Company
3543 N. Richards St.
Milwaukee, Wis.

KERNERATOR INCINERATION
FOR NEW AND EXISTING BUILDINGS

Riverside Tanks

Like the Temple at Karnak, Riverside All-Copper Tanks defy time and the elements.
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**ARE YOU faced with some problem in constructing, remodeling, furnishing, or equipping your home? There are many helpful ideas and suggestions contained in the literature of reputable manufacturers.**

Read the advertisements in this issue carefully and request literature direct from the advertiser wherever possible. Then, if you do not find what you are looking for, scan this list. The American Home acts as a clearing house between reader and manufacturer. You can order the booklets you wish on the coupon at the bottom of page 319. We will forward your name and address to the manufacturers involved, and they will send their literature direct to you.

—HEARTHSTONE EDITOR

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**The American Home**

**Burnham Boiler Corporation**

**IVRINGTON, NEW YORK**

Representatives in principal cities of United States and Canada

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  Constant Radiant 609

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   Name
   P. O. Address
   City. State. Year. Day.
Buy your home direct from our great mills at wholesale. Get the benefit of our rock-bottom prices, and successful experience with 225,000 home owners. Write for complete details.

Choose from modern American, Colonial, English or Spanish homes; bungalows or two-story designs; 4 to 8 rooms. Wood, brick or stucco.

Get highest quality features and material, including beautiful oak floors throughout, open closets, phone pockets, clothes chutes, built-in kitchen cases, solid bronze hardware, comfortable houseways. Thermally-isolated insulation saves 1 fuel cost.

Extraordinary savings! No extra! You know cost in advance! With Plan-Set materials, Easy-to-follow Plans and Complete Instructions, you can build your own home. Machine-sawing at our mills saves labor cost and 10%, lumber waste. Meets building codes. Satisfaction guaranteed. Write:

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Send Free Books. I am interested in: Houses, Garages, Cottages, DO Remodeling.

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Building Plans
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A startling new book of home plans, 1930 edition, size 8 x 11 inches, over 200 designs for English and American Colonial homes, two-story dwellings, coping houses, dormer houses, colonial four-plan and all variations with plastic and approximate cost to build, a real book for the home builder. $1.00 postpaid. Book size 5 x 7 inches, 16 now designs of English and American Colonial homes, two-story dwellings. Furnished in 24 pages. Best books for $3.00.

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101 Tremont Street Boston, Mass.

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Saves Furniture, Plants, Paintings, Plants, and Makes Air More Healthful
Fill with water, hang up any kind of your bathroom or office, and it produces constant moisture to suit any room. Ideal for office. Office, School, Hospital, etc. Use with any modern method. Write for FREE Booklet.

SAVO MANUFACTURING COMPANY
160 North St. Street Dept. H-1 DREADON, N. C.

The well equipped bathroom calls for fixtures and fittings that are both attractive and easy to care for. (Courtesy, Standard Sanitary Mfg. Co.)
Perhaps the most interesting Christmas list we have ever issued...

Here are as striking a number of outstanding books as have ever appeared over one publisher's imprint. Books for Christmas. Books for all time. Best sellers now. Beautiful books, reasonably priced.

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Mr. Bennett at his best in a long novel of the complicated and exciting world contained in a big hotel. As important as Clayhanger and The Old Wives' Tale

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Her book since Three Pilgrims and a Tinker—an odd novel embroidered in "a letter to no one"

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A fascinating novel of the English canals—"A book to chuckle over during and after"—Louis Bromfield

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"As fine as Alice Adams," say George Ade and others. A novel of Maine sketched on a broad social canvas

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The romantic novel of the struggle between a founder of the British Empire and History's most tragic and exquisite heroine

Dorothy Walworth Carman
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EDITED BY BLANCHE COLTON WILLIAMS. Chosen as the twenty best short stories of the year. Representing the rich variety, the amazing colors that are America

At your bookseller...or direct from DOUBLEDAY, DORAN

Garden City, N. Y.
Change to the Coal Burning MULTI-FLOW
HOT WATER HEATER
with Aqua-Matic REGULATOR
if you are interested in a substantial cut in your fuel bill each month. The MULTI-Flow assures you of an abundance of steaming hot water day or night. With the new Aqua-MATIC REGULAT-
TOR, heat sensation is necessary. In the average home, every 20 or 30 minutes rapid circulation through copper coils. Fittings of bronze. No rust. Connects to boiler. Send today for descriptive folder and prices.
The National Pipe Bending Co.,
200 River Street
New Haven, Conn.

HELPFUL HINTS FOR THE HEARTH
Continued from page 500

Sonn in 10 pre Healthy Heated Air Oven in the home and add a dash of fleeting interest to your furnishing, for in a well-maintained home, the hearth is harder to keep going and it has absorbed. There are too many powders and crystals manufactured to make these colored flames and give out less heat.

CONTINUED FROM PAGE 322

hearth, build up the small kindling, in a closed room a small bellows hung behind the fire so that the burning timber is shut off easy draft. To help the draft interlacing it with plenty of open wood on with two small logs on top of all, but do not overload or it will shut off easy draft. To help the draft in a closed room a small bellows hung on a jamb hook will come in handy.

At least three logs are essential to a fire still holds good to-day. It runs fast in wood burning on a clean vent. Railroad ties when they are available make excellent firewood because they received a surface decoration of paint, or over a backing of wood floor, or in new houses, over existing houses, the old wall finish is re
discarded, and shed a warm glow over the entire room.

CAUTION is somewhat soft and comes in large chunks. It requires less attention than a wood fire, burns more conservatively for the cubic foot of fuel used and, therefore, requires less storage space per unit of heat produced in it. Briquettes are economical because they are nothing more nor less than coal dust reclaimed, compressed, and bound into form with a resinous substance in small pieces about the size of hen’s eggs. They can be used for kindling.

In selecting wood for an open wood fire, beech and oak are best and should make up the major portion of any lot of firewood. It goes without saying that there must be no green wood of any kind for the sap is still wet in it and will sizzle, steam, and smolder, but give no clear flame. Firewood must be dried out before cutting—"seasoned" it is called. Chestnut can be used but is apt to throw out sparks, and all the resinous woods like spruce, hemlock, fir and cedar must be avoided absolutely because they explode into showers of sparks and even blow sizable frag-
ments out into the room. The hard
woods are all good and maple is plentiful in America. Elm is a dull wood that burns sluggishly alone. Pine burns quickly. Among the fire-
woods are apple, birch, and pinon, but give no clear flame. Firewood
must be dried out before cutting—"seasoned" it is called.

In laying the fire, put the largest logs on the dogs first at the back of the fireplace. This is the backlog. Then, with plenty of paper on the hearth, build up the small kindling, interlacing it with plenty of open vents, so that the burning timber is toward the room and the weight and bulk is at the back. Let the ashes and smoke and heat rise. Do not remove them until they pile up to within less than an inch of the logs resting on the dogs. Ashes give base to a fire, hold the heat, and foster the combustion. A fire burning on a clean hearth is harder to keep going and gives out less heat.

When three logs are on the dogs and well kindled, your fire will burn briskly over glowing ashes. There is always a pleasant amount of poking after breakfast. Then the logs burn through, but your fire will respond to your affectionate care and its cheerful friendliness will foster the comfort and happiness of those who are gathered before it.

Bring the bathroom up to date

continued from page 322

concrete is poured and finished off to a level somewhat below the final floor grade. Ceramic tiles are then set in cement on this concrete slab.

Other home owners prefer a resili- ent floor of linoleum or rubber tile. These can be laid over the original wood floor, or in new houses, over an inexpensive hardwood top floor. Ceramic tile is also much used for wainscots, because their sanitary quality and ease of maintenance are unquestioned. Their installation in- volves much the same sort of work as that described for tile floors. In exist-
ingen houses, the old wall finish is re-
moved to the studs. Then metal lath is applied to the studs and plastered with Portland cement plaster. The latter is then cemented to the floor. Other and less expensive wall fin-
ishes include various forms of sheet tile, ranging in type from those made of cement with an enamel or large finish to porcelain and en-
amelled metal tiles, pressed composi-
tions boards, and even linoleum or rubber tiles. Most of these are ap-
plied over the original plaster in ex-
isting houses, or over a backing of wallboard in new work.

Still further economy can be achieved through the use of hard plaster, either marked off in tile form before it sets, or left smooth ready to receive a surface decoration of paint, wall fabrics or waterproof wallpapers. Ceilings, of course, are usually fin-
ished in ordinary plaster, but should be painted or enamelled rather than left exposed. The advantage of greatest 
durability and cleanliness.
Signs of the time  
Continued from page 298

Clocks for the modern kitchen are not only a dollar. One of the stores is offering, include some very new ones in a linen which are marked "DOG" in no uncertain terms will surely please the dog's master quite as much as the dog.

Less than a present—more than a card  
Continued from page 502

Doherty-Brehm Humidifying Radiator, the only successful inexpensive humidifier, can be installed in a few minutes, with little fuss or bother. It fits into any steam, hot water, or vapor radiator heating system like an ordinary radiator, and requires as little attention. It evaporates the right amount of water for health and comfort automatically. Evaporating up to 100 gallons a day, as needed, one provides moist air for an entire house or apartment.

Easy payments on the CRANE Budget Plan

Spring outside is months away, but you can have it in your home now. All the comfort and health of a refreshing June day, instead of the dry, parching air that comes with winter and radiator heat, and which makes both children and adults susceptible to colds, bronchitis, sinus infections, and other ills.

You can have healthful moist air almost as easily and quickly as you could buy a piece of furniture. The Doherty-Brehm Humidifying Radiator is sold by CRANE through dependable heating and plumbing contractors everywhere. You can buy it under the Crane Budget Plan and pay only 10% down, the rest in small monthly payments. Call in your nearby heating and plumbing contractor and tell him to equip your home now.


Please send me your instructive booklet giving full information about humidity and the Doherty-Brehm Humidifying Radiator.

I have rooms in my house. I use steam hot water vapor heat.

Name__________________________Address__________________________
ONE of the most novel cigarette boxes we’ve seen. Turn bakelite knob to “Camels,” “Chesterfields,” “Old Gold,” “Luckies,” or “Melachrino,” lift the lid, there they are! Holds about 15 of each brand. Heather-Matthews, 411 5th Avenue, consider it at $5 one of their smartest gifts—red, black, or mahogany; gold-tooled leather top. For $10 it is covered in fine gold-tooled red or black leather.

WE ANNOUNCE this new home microphone outfit as one of the cleverest entertaining ideas this year. Press a button you cut out the regular broadcasting station, and can speak, sing, or play music yourself—thus amazing your friends. The 75-foot cord makes this possible in another room. Newest thing at Mayfair Plaything Stores, 9 E. 57th St., New York; $5.50 p’paid USA.

B. PALESCHUCK
"The House of Metal Ware"
22 Allen Street New York City
Send for Catalog M-13

THIS entirely new and different lamp is the discovery of one of the very smartest shops in the country, Brecky Shop of Gifts, 31 East Adams Ave., Detroit, Michigan. It is a quaint copy of an old "Pancake" oil lamp with luscious jade green or antique ivory glass base molded in tiny flower design, 10% diam.; nice antiqued 14" parchment shade matches. Complete: lamp, shade, chimney, brass pull-cord fixture, $10.50 FOB Detroit. A fine item.

Near East Industries
149 Fifth Avenue
New York City

Beautiful tray cloth, hand embroidered on white linen in pastel shades, 11 1/2"x18" $1.75 ea. 14" napkins to match 1.00 ea.

Many other designs and sizes at equally attractive prices are now available from the Near East Relief work shops in Greece, Turkey and Syria.

NEW YORK SCHOOL OF INTERIOR DECORATION
Established 1916
578 Madison Avenue - New York City

INTERIOR DECORATION
Study at Home
FOUR MONTHS PRACTICAL TRAINING COURSE
A delightfully arranged Course for Home Study. No previous training required. Unlimited opportunities in a fascinating profession. Full instructions in Color Harmony, Period and Modernistic Furnishings, Fabrics, Curtains, Lighting and all principles of Decoration. Conducted by foremost authorities. Start at once. Send for free booklet 12-J.

For Day Classes send for Catalog 12-D. For Evening Classes send for Catalog 12-E. For Summer Term see our Summer Term Catalog, 12-T.

NEW YORK SCHOOL OF INTERIOR DECORATION
Established 1916
578 Madison Avenue - New York City

COPPER... PEWTER... IRON...
Quaint...!
No. MC430—A Russian hand hammered brass or copper coffee set, pewter lined and made for actual use. This set will delight the most sophisticated guest. The coffee pot has a capacity of eight cups. The tray is 12" in diameter. Set complete. Express collect. $7.50

This entirely new and different lamp is the discovery of one of the very smartest shops in the country, Blecky Shop of Gifts, 31 East Adams Ave., Detroit, Michigan. It is a quaint copy of an old "Pancake" oil lamp with luscious jade green or antique ivory glass base molded in tiny flower design, 10% diam.; nice antiqued 14" parchment shade matches. Complete: lamp, shade, chimney, brass pull-cord fixture, $10.50 FOB Detroit. A fine item.

THE MILLER SPECIALTIES CO.
Dept. R, VAN VERT, OHIO

TRANSFORM YOUR RADIATORS
PROTECT WALLS AND DRAPERIES
Quality and Elegance Combined
MILLER RADIATOR BRACKETS AND SHELVES OR SEATS
Steel Brackets—easily attached to any radiator—supporting attractive shelves or seats. Use them for your favorite plants, flowers or other decorations. Or order them to match your draperies or curio cabinet. Properly designed for your needs. Shelves and Seats 1 foot wide, any length, $2.00 per pair. Shelves or Seats 1 foot wide, any length, 50 cents per linear foot. Special widths to order.
THE MILLER SPECIALTIES CO.
Dept. R, VAN VERT, OHIO

BREAKFAST FOR TWO
Beautiful tray cloth, hand embroidered on white linen in pastel shades, 11 1/2"x18" $1.75 ea. 14" napkins to match 1.00 ea.

Many other designs and sizes at equally attractive prices are now available from the Near East Relief work shops in Greece, Turkey and Syria.

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New York City

DOUBLE RUDDER TABLE
A very practical piece to own. With leaves extended, the top is 46" x 53" (28" high)—large enough to use as a dining table. Drop one leaf and it becomes a spacious living room table; with both leaves down, a hall or serving table. Solid Maple throughout, hand-rubbed to a dull finish in a choice of four shades. . . . . . . . . . $39.50

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TODHUNTER
119 East 57th Street, NEW YORK
WORKERS IN METAL

\[\text{The Standish Lamp} \]
A very attractive table or desk light, in antique brass, wired $17.00

THE AMERICAN HOME, a new quality home-making magazine that sells for only $1 a year, will grace your table and supply you with some practical, helpful suggestions you've never found elsewhere. $1 a year.

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Invest your Christmas money in years of happiness. There is nothing that will give you or your family more pleasure than a rugged pedigreed pup.
The leading breeders are represented in COUNTRY LIFE which for twenty-seven years has maintained the outstanding Kennel Directory of the Class magazines.
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You like Colonial things, of course, and a real old-fashioned American home. But the name, the exact period, of some fine piece you come across escapes you.
This book has been written to solve your predicament. Concise, informative, handy, you will find it an invaluable reference book and an entertaining guide.
Illustrated with over 250 drawings by Ernest Stock
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UNUSUAL WALL SCONCES
These quaint and graceful reproductions of authentic old wall sconces will appeal strongly to the lover of better craftsmanship. They are entirely handmade in the primitive methods of the early artisans. Due to their tasteful simplicity these sconces may be used in complete harmony with any color or decorative scheme. They may be had in pewter, copper, brass or tin as your choice may dictate.
Supplied with or without electric attachments at reasonable prices. Send for illustrated brochure.

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INSURE
All Metal Surfaces Against TARNISH
Keep tarnish from your silver slippers, metal fabrics in hats and gowns, brilliant metal ornaments, etc., by wrapping them in Staybrite Tissue. Staybrite is a patented, chemically treated tissue which, when wrapped around silver or other brass surface, provides positive insurance against tarnish. Eliminates tedious polishing or use of chemical baths.
At department and drug stores in rolls of 24 large sheets, 50c. a roll. Or write for special 48 sheet package, $1.00 prepaid.
C. H. DEXTER & SONS, INC., Dept. G-6
Windsor Locks, Conn.

STAYBRITE NO-TARNISH TISSUE

GALLOWAY POTTERY
2214 Walnut Street, Philadelphia, Pa.

STAYBRITE

NO-TARNISH TISSUE

9 Decorative pottery of high-fired, beauti- ful Terra Cotta will add grace and color to your garden, sun-room and porch. Send 10c in stamps for catalog.

GALLOWAY POTTERY
2214 Walnut Street, Philadelphia, Pa.
SOIL CONDITION NOT COMPOSITION

DDELPHINIUMS and Lupines, two of the love-
liest of all plants, are also the two most
exasperating. One writer has said in giving five
different methods of growing Delphinium,
"Now you know six ways, for you surely have
a way of your own."

We have used perhaps ten different methods
of soil preparation, and seeds and plants from
that many growers, with about the same re-
results. Fifty to seventy per cent loss, not in the
winter, but directly after first blooming in the
summer. This past season we planted out about
one thousand plants, using four methods of
soil treatments, and one lot of plants made up
of seedlings from seed bought of five of the
better known growers planted in untreated soil
which had been well manured two years pre-
viously. Imagine our surprise when at the end
of the season the planting in untreated soil
came through with about twenty per cent loss,
while the other plantings had a loss of from
about fifty per cent to ninety per cent! Our
soil is neutral or slightly acid.

We have over a period of years built up a
small lot of Delphinium plants which seem to
be hardy; some are six years old.

We have come to believe that soil itself does
not matter, so long as it is in good condition
and well worked. We think the stock of Delphinium in the coun-
try is not completely perennial. If we have a plant the
second year, it seems to be with us for good, we divide the
old plantings into two parts and transplant
one part to a fresh soil in the early spring. This would tend to show that Delphiniums love my
alkaline soil, while Lupines do not, whatever they may do
for others.

This is a highly alkaline soil, and the Lupine
plants do much better than the Delphiniums. Lupines are
also the more vigorous and the more compact in growth.

I have found wild Lupines in numerous other places here in
Ontario but they were far the best in the alkaline soil.

—Laura Gaskell Hammersley, Sandwich, Ontario

The modern large-flowered Delphinium embracing the
whole range of blue tones and shades is indeed some-
thing worth worrying over. What conditions do you
find to give the best results?

HERE LUPINES RESENT ALKALI

I was interested in your question raised about Delphin-
iurn and Lupine in the November issue of The American
Home. Now, if there is such a thing as soil affinity, the Lu-
pine certainly repudiates us. I have never been able to make
even one plant grow large enough to bloom, though I have
tried seeds from various places at various times. In fact, I
have begged and pleaded with them. Our soil is decidedly
alkaline—so much so that little white patches often come to
the surface. Delphiniums thrive here; they grow with great
vigor six or eight feet tall!

This would tend to show that Delphiniums love my
alkaline soil, while Lupines do not, whatever they may do
for others.

—Ruth Gipson Ploverhead, Caldwell, Idaho

Additional letters will appear in a later issue.
HENDERSON'S SPECIAL OFFER

1931 Seed Catalogue and
25-Cent Rebate Slip
—Only 10c

MAIL the coupon with only 10 cents, and we will mail you "Everything for the Garden," Henderson's new seed catalogue, together with the new Henderson 25-cent rebate slip, which will also entitle you, without charge, to the Henderson specialty offer of 6 packets of our tested seeds with your first order amounting to $2.00 or over.

These 6 packets are all seeds of our own introductions, and are among our most famous specialties—Ponderosa Tomato, Big Boston Lettuce, Early Scarlet Turnip Radish;—Invincible Asters, Brilliant Mixture Poppies and Giant Waved Spencer Sweet Peas. These, like all Henderson's Seeds, are tested seeds.

For 84 years, HENDERSON'S TESTED SEEDS have been the standard. Year after year, our constantly improving methods have enabled us to maintain our supremacy among American seed houses. The initial cost of your seeds is the smallest item in your garden's expense, and it is of advantage to plant seeds of recognized quality from a house of reputation and standing.

Everything for the Garden

This is a beautifully illustrated book with 16 full-color plates and hundreds of illustrations direct from actual photographs of the results from Henderson's seeds.

It offers many special collections of vegetable seeds arranged so as to give a continuous supply of fresh vegetables throughout the Summer, and collections of flower seeds especially arranged for harmony of color and continuity of bloom.

It is a complete garden book, and should be in the hands of every lover of the garden beautiful or bountiful—Clip the coupon now.

Every Rebate Slip
Counts as Cash

With every catalogue will be sent our Henderson Rebate Slip which, returned to us, will be accepted as 25 cents cash payment on any order of two dollars or over.

In addition we will include with your order, without charge, the Henderson specialty collection of three packets of Vegetable and three packets of Flower seeds as described above.

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35 Cortlandt Street
New York City

Enclosed is 10c for Henderson's 1931 advertising offer of Catalogue and 25c Rebate Slip.

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**The Rainbow Paints the Garden**

Could you but see the thousands and thousands of Antirrhinums massed in the formal garden at Longford Castle, England, you would marvel that such a glorious blaze of colors could be produced by flowers, however beautiful. It is as if each exquisite spike had been painted by a rainbow brush. Longford Castle is but one of the many large English estates where Sutton's Seeds produce such wonderful floral effects. At Battle Abbey, Blenheim Palace, Bishopthorpe and other places of historic interest Sutton's Seeds have been given the preference over all others. His Majesty King George V has by appointment made Sutton & Sons Seedsmen to the Royal Family. This preeminent has extended through the reigns of former sovereigns.

Sutton's Seeds enjoy an international reputation for purity, uniformity and sure germinating qualities. They grow in any part of the world with proper care. These high standards of excellence were established by the founders of Sutton & Sons in 1806 and have been scrupulously maintained through four generations of the family. To plant Sutton's Seeds is to plant the finest seeds grown.

In the United States, Sutton's Seeds are being used increasingly by the owners of large estates and by thousands of flower lovers throughout the country. Gardeners have learned by experience that Sutton's Seeds always produce sturdy, thriving plants with masses of flowers of large size and glowing colors. Sutton's Seeds will make a show place of your garden. Try them next season. Write for Sutton's Amateur's Guide in Horticulture and General Garden Seed Catalog.

You will find this book of inestimable help in growing better flowers. It pictures many varieties and describes them faithfully, at the same time giving detailed directions for planting and care. Problems that vex the amateur are anticipated and answered. The book will be mailed postpaid on receipt of 35 cents in stamps or International Money Order. Address Sutton & Sons, Ltd., Dept. P., Reading, England.

**Sutton's Seeds**

**ENGLAND'S BEST**

---

**Garden reminders**

**North**

Make a plan. Go over your records for last year, and plan now to start those improvements that you ought to make. Write a list of things to be done, and check the items off as they are taken care of.

Take cuttings of hardy shrubs. It is not hard, and propagation by cuttings is a simple, effective way of increasing your stock.

Shrub branches, if brought into the house, will bloom in water.

Bulbs which have been rooting in the cellar may be brought into the living room or sun porch for forcing.

Make frames for hotbed and cold-frame. Get some new flats.

Look at your tools, repairing those that need attention.

Order spray material. Read all the catalogues and decide what nursery stock, etc., to order.

Do the necessary winter spraying.

Prune trees, but wait until the weather gets warmer before pruning.

Don't let your plants have too much water. House plants should be so watched that steam does not dry leaves.

Transplant large trees with large ball of earth.

Don't let evergreen or shrub branches bend too much because of the weight of snow.

Mushrooms may be started.

In the greenhouse Pansies, Snapdragons, etc., may be started from seed. Repot plants as they begin growth. Take leaf cuttings of Loraine Begonias. Dibud Carnations and Roses. Take hardy perennials into greenhouse for early forcing.

Don't throw away ashes from the furnace. Use them to mix with the heavy garden soil.

Try to start some perennial seeds indoors. Some will bloom this year.

Continue to keep vegetable trenches well mulched.

If you failed to mulch bulb beds last month do it at once.

**The West Coast**

Continue pruning Roses and other shrubs, climbers, and hedges.

In the South sow Snapdragons, Centaurea, Coreopsis, Marigolds, Alyssum, Nigronette, and native (wild) flowers. Also set out seedlings started in October and November.

Mulch the bulb beds with grass clippings to protect blossoms from rain splashing.

Keep the Ipa cretensis (styroa) free from snails and pick the blossoms in bud.

Plant Jonquils in rich soil, along coast region and in northern California.

If the house plants are potbound, repot in next size larger pots in fresh soil.

In coast regions south of Santa Barbara, cut back the Poinsettias and make cuttings.

Plant Agapanthus (African Blue Lily), Tuberous Begonias, and Gladiolus.

Complete planting of Anenomes and bulbs that need protection. A single window-sash is a great help in carrying tender young plants through the cold.

Chumps of hardly perennials may be divided if this has not been done earlier.

**The Flower Garden. Time to put in bulbs for spring and early summer bloom. Easter and Calla Lilies, Lilium speciosum, Iocanes, Ochid, Hemerocallis, Gladiolus, Tuberos, and Montbretia.**

It is not too late for the last of the Dutch bulbs, but they must be set shallow, their tops just below the surface. In the Far South, this is said to be the best way to prevent Hyacinths, Tulips, Narcissus, and other bulbs of this class from going too much to leaf.

Freesia, Anemone, and Ranunculus may also have been planted now.

Sow more annuals for spring blossoms: Daisies, Coreopsis, Pinks, Phlox, Salvia, Stocks, Snapdragons, Columbine, Corellower, Petunias, Verbena, Zinnias, and scores of others, in boxes or hotbeds, or in a sheltered place in the house. If Violets fail to grow, try Begleweed (Ajuga reptans) as an evergreen edging plant for the border. It does not mind shade, and spreads by runners. (Continued on page 334)
DON'T confuse Dreer's Garden Book with ordinary catalogues. For nearly 100 years it has been acknowledged a standard work on gardening and has been used as a guide book by the most successful amateur and professional gardeners in all parts of the country.

For flower lovers there is no more fascinating way to spend winter evenings than in planning next summer's garden from our 1931 book. It is literally crammed with true-to-life pictures of flowers and vegetables and cultural articles which are interesting and helpful. It lists the fertilizers and tools required and is a very mine of information.

For a free copy mention this publication and be sure to address Dept. D

HENRY A. DREER

Isn't this the Hardy Plant Catalog you have been looking for?

Have you been looking for a Hardy Plant Catalog that you can absolutely depend on for all these four things?

1. Accurate information as to size of growth, time and color of bloom, and full cultural directions for each kind to insure you best results.
2. That each plant shall be field-grown, husky, full-sized clumps, that will surely bloom the first year.
3. That everything will be so carefully packed that it will reach you in perfect condition, whatever you live in Portland, Maine, or Portland, Oregon.
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If these then are the satisfaction insisting things, that are this season going to govern your carefully made purchases of Hardy Plants and Rock Plants, then it looks like our Catalog is the one you are looking for. Glad to send you a copy at once.

WORTH NOTING
Orders are filled in sequence received. Meaning that if you want to plant early, send for catalog at once; then order early.

NEW VEGETABLES AND FLOWERS
A brand-new and entirely distinct Tomato ''Burpee's Tangerine"—the color of a fully ripened tangerine—with luscious sweet flesh of an appetizing golden orange color. As distinct in flavor as in appearance. Among the new flowers, you will be interested in the four new Burpee Sweet Peas, including "The Burpee"—the loveliest ever introduced—chamois-cerise, suffused salmon . . . and Ruffled Orchid, the newest of the Ruffled Sweet Peas. Read about the new Giant Dahlia "Asbury Park"—strawberry-red, shaded salmon and old gold.

Burpee's Annual Garden Book will be mailed to you free—write for your copy today.

W. ATLEE BURPEE CO.

Send me a free copy of Burpee's Annual Garden Book.

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State .................................................
Fruit trees and the like as ornamentals

Continued from page 305

due consideration as this disease is even more serious upon Pears than upon Apples.

The Cherry is one of the most adaptable tree fruits for landscape purposes. The Sweet Cherry tree possesses a dense, symmetrically-formed head with dark green foliage that is pleasing beyond description. A group of Sweet Cherries on a large lawn produces a beautiful effect and the dense shade serves as an ideal location for lawn furniture. One variety of Sweet Cherry grown alone will seldom bear fruit as most Sweet Cherries are self-sterile, requiring the pollen from another variety to insure the setting of fruit. Sweet Cherry crops are irregular at best, but any fruit secured from them should be considered as a premium for their landscape beauty alone justifies their presence in any planting.

Sour Cherries are much more dependable fruit bearers and nearly all varieties are self-fertile. The beauty of Sour Cherries, however, is not equal to that of the Sweets.

Plums also may be grown about the small home. With reasonable care plums frequently yield abundantly even when grown as dooryard trees.

The Mulberry is used occasionally as an ornamental. Its rapid growth and informal aspect are its chief attributes.

Hazel bushes have many desirable qualities as a shrub or border plant and frequently yield an abundance of nuts as well. They are native shrubs in many localities and require the minimum amount of care.

Of the fruit bearing vines desirable for landscape uses, the Grape and Wild Grape are, of course, outstanding. Either the wild or cultivated species may be used to excellent advantage upon porches, walls, outbuildings, or other places where supports or trellises may be provided. As screens, as covers for unlighted fences, or as shade plants for pergolas or arbors, few plants surpass.

The bush fruits, too, have their place in the home landscape plan. A border or hedge of Gooseberries about a vegetable garden, permitted to assume its natural shape, presents an ensemble to dogs and children that might be tempted to cross the cultivated area. If a higher growing barrier of more formal appearance is desired use a planting of Red Raspberries grown in the hedge-row fashion. Currents serve admirably as a hedge or border planting where a dense barrier is not required. Currents and Gooseberries both thrive in partial shade.

Even Strawberries are used to good advantage as an outline planting about a vegetable garden or on either side of a graceful pathway.

The growing of espalier trees presents many interesting possibilities where space is at a premium. In this system of culture the tree is trained upon a wall, fence, or trellis, according to a formal plan, a given number of branches being permitted to develop and these are trained against, the support so that the body of the tree is all in one vertical plane.

There are numerous forms of training. The plant may be trained to a single upright stem from which branches are formed at right angles in both directions, at intervals of six or eight inches. The central stem may be cut back near the base and a lateral branch carried horizontally in each direction along the bottom of the wall, from which vertical shoots are permitted to arise at frequent intervals of approximately equal distance. A fan shape, with or without a central stem, is another common form of espalier. From these more or less simple forms numerous other designs may be developed. The young branches are fastened to their supports in the shape they are to acquire and held in this position until they become of sufficient size to maintain the desired form. The side shoots are pinched out as soon as they begin to grow with the exception of those needed for additional units in the framework or such as are to be saved as fruit spurs.

This form of training has been used in Europe for hundreds of years and is gaining in popularity in this country. Full exposure to the sun is permitted by this system and high quality fruit may be produced. The landscape value, also, is large especially in formal arrangements. An Apple, Pear, or Cherry tree grown as an espalier is exceedingly beautiful when in bloom or when in fruit. European gardens many espaliers are grown for their flower display alone.

D. HILL NURSERY CO.
EVERGREEN SPECIALISTS
Largest Growers in America
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HILL'S EVERGREENS

With espalier trained fruit trees, which occupy very little space, a variety of orchard fruits can be had on a small lot. Garden of H. Luthardt, Port Chester, N. Y.
The New Book for Garden Lovers
— a guide to better gardens in 1931—is just off the press and your copy is waiting, ready for you! Beautiful of the latest and most charming flower novelties as well as many specialties exclusive with Schling. Richly illustrated with hundreds of fine photographs, many of them in full color, and bound in attractive cover in also in colors. Truly a book for
up to be proud of and for you, a veritable treasure-house of garden lore. Send for it today!

3 GREAT SCHLING SPECIALTIES
A Charming Introduction to Schling Seeds
(1.) Indian Summer (Illustrated). Latest and loveliest of Schling’s Giant American Snapdragons. Marvelous not only for size, though its flower spikes rival the gladioli in height and vigor—but also for its color, a rich, velvety copper-red hibiscus unknown in snapdragon, and indisputably beautiful—no other snapdragon remotely approaches it—a "First Prize" winner wherever exhibited.
1 pkt. $1.00; 6 pkts. $5.00
(2.) Mrs. Pierre S. du Pont—A new Pansy, pure golden apricot flushed with salmon, unmarred by any trace of the usual center lines—stunning contrast to the purple varieties. Be sure to plant a bed this Spring—the effect will delight you.
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(3.) Giant Scabiosa, Loveliness—An abundance of loosely arranged petals gives the flower a full and fluffy appearance, but its crowning glory is its soft, delicate salmon-rose color considerably larger in size than the ordinary Scabiosas, on long stiff stems.
1 pkt. $2.00; 5 pkts. $2.00

SPECIAL OFFER—For 20¢ in stamps we send a large packet of Harris’ New Pompon Zinnias, all colors mixed and also The Interesting Text Book.

Pompon Zinnias
Something New For Your Garden
These remarkable little Zinnias have round, double flowers like Button Chrysanthemums. While the slender stems make them especially attractive for bouquets, the low-growing, compact plants produce a gorgeous display of brilliant, unusual colors along the edge of the garden. They are sure to bloom profusely from early summer until frost from seed sown outdoors in spring.

SPECIAL OFFER—For 20¢ in stamps we send a large packet of Harris’ New Pompon Zinnias, all colors mixed and also The Interesting Text Book.

In this Free Book even advanced amateurs will find valuable hints on garden planning and the control of garden pests.

Try Harris’ northern-grown seeds direct from our own seed farm. We have many new and improved varieties of both annuals and hardy perennials you can grow from seed, such as Harris Monarch Delphinium, New Hardy Carnation, Pink Larkspur, etc.

We are also large growers of Vegetable Seeds, Gladioli, Hardy Perennials, and many other flowers, plants, and bulbs. Our 100-page catalog in color, given just the information you want about each variety and offers you the opportunity of buying seeds of a very superior quality direct from our Farms at Growers’ prices.

Ask for Catalog today. It’s free.

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J U S T off the press—the beautiful new catalog of America’s Oldest and Largest Departmental Nurseries!

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The Outdoor Living Room and Rock Garden
There are chapters giving specific, easy-to-follow instructions on how to make an Outdoor Living Room and Rock Garden. How to plan them—what to plant and how to care for your plantings to assure success.

Just the kind of a catalog you will find most helpful, and it’s FREE to you.

Whether you plan to landscape your entire place—or make one of the new Outdoor Living Rooms—build a Rock Garden, or merely set out some new plants, you need this catalog. SEND FOR IT NOW!
The mode in the small garden

Continued from page 506

It is important that the plan for the new garden be considered before a selection of plants is made. First of all, one should plan for the new garden as a whole, and then divide the whole area into sections. The plan should be as simple as possible, and should take into account the existing landscape features, such as trees, shrubs, and existing structures.

For health in house plants

Continued from page 508

Broken bits of crocks to the depth of one half an inch should occupy the bottom of the pot or window box and should be covered with turf or moss to prevent soil. This arrangement provides efficiently of the surplus water fed to the plant. Jardinières are objectionable as they provide reservoirs in which moisture can accumulate. Once a plant thirst varies with season to the extent that one demanding daily water service in April will be sufficed by a drink once weekly in July or August. The size of pot, rapidity of growth, and type of soil influence moisture requirements measureably. The pot soil must be kept moist enough so that the plant does not wilt. It is advisable, once or twice a month, depending on the plant variety, to immerse the entire receptacle in tepid water for about one half an hour, allowing the surplus water to drain away quickly. The plant should not be watered subsequently until the soil in the pot shows signs of drying. You can usually tell by the feel of the soil when the plant needs water.

House plants because of their restricted opportunity for root development are benefited by applications of concentrated food. Manure-leaching is best done with a manure and water solution. A well-balanced solution of nitrate of soda at the rate of one teaspoonful to a pint of water or one tablespoonful of aqua ammonia to one quart of water may be used advantageously. Special care is necessary not to wet any of the plant foliage with either of these chemicals as they will burn the plants. These soda waters for house plants may be applied beneficially once a month.

General delotion of your house plants usually results from gas poisoning, abrupt fluctuations in temperature, change in position from bright sunlight to a dark exposure as well as from the shock of transplanting when in vigorous growth. A brown coloration of the plant leaf tips may be a warning of improper watering, insect attacks or exposure to drafts of cold air. Insects that attack Ferns not only cause disfigurement of leaf tips but also prevent the development of new shoots. Aspidistras develop brown leaf tips due to lack of plant food, overwatering or damage resulting from exposure to too much sunlight when the plants are not accustomed to such light.

Foliage may lose its normal color due to lack of plant food, overwatering or by the action of injurious pests as the red spider, mealy bug, or scale. Spotted foliage in house plants usually suggests overwatering or damage resulting from exposure to too much sunlight when the plants were accustomed to much light.
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What you ought to know about cuttings
I. GEORGE QUINT

15 so easy to propagate plants and shrubs by taking cuttings of them that it is a pity more people do not take advantage of this method. It is economical, satisfactory, and by no means difficult.

1—What cuttings can be taken in January?

This is the best time to take cuttings of hardwood shrubs. For example, Weigela, Dentzia, Privet, Tamarisk, Mockorange, Honeysuckle, Forsythia, Hydrangea, Viburnum, Kerria, Ninebark, Spirea, Clematis, and Sweet-shrub may be propagated by cuttings taken now. It is possible, also, to take cuttings of Grapes, and Currants.

2—What procedure should be followed in taking cuttings at this time?

Use the whiplike branches of shrubs, cutting them into eight-inch lengths and burying them in boxes of moist sand or peatmoss. They will be rooted by spring.

3—How should the cutting be made?

Use a sharp knife, making certain that there is a node or eye at the base of the slip. There are a few exceptions, like Forsythia, that root better from internodal cuts.

4—How warm should be the place where the cuttings are to be kept?

A temperature of 68 degrees is ideal, though cuttings of some plants may be rooted at 45 degrees. Plants which have thinner stems should be propagated by shorter cuttings.

5—Should cuttings have sunlight?

They should not. They should be kept out of the direct sun until they are rooted.

6—Can evergreens be propagated by cuttings at this time?

Yes, if you have a greenhouse available. Otherwise it is safer to wait until July, when the cuttings can be put into sand in the coldframe.

7—In taking cuttings of evergreens, what is the procedure?

Make cuttings about six inches long, placing them in clean sand, in boxes with nine small holes at the bottom of the boxes. Three inches from the base of the cutting before putting same into the box. Evergreen cuttings should be placed in a greenhouse where low temperature can be maintained—not above 45 nor below 40 degrees. After about a month the cuttings will commence to callus, and in about four months they should be rooted. At that time, place the cutting boxes in coldframes, shading them for a short period, after which the cuttings may be set out.

8—When should cuttings of plants be potted?

Pot them up when the roots have become about a half inch long.

9—Are there other kinds of cuttings besides stems?

Cuttings may be taken (in some cases) from leaves and roots, also; but those made from stems are the most practical and for the home gardener the most satisfactory.

10—In taking cuttings of flowering house plants should they be made from young plants or those about to bloom?

Take them from the plant which is about to blossom.

11—What about the length of the cutting?

The length of the cuttings will depend upon the thickness of the stem. The thicker the stem the longer the cutting, using as a basis the common Geranium, which should be about four inches long. Plants which have thinner stems should be propagated by shorter cuttings.

12—What plants can be propagated by leaf cuttings?

I derive a great deal of pleasure from Begonia leaf-cuttings. This plant is about the easiest to produce in this way. An old leaf may be taken, cut through the veins on the reverse side. Then place the leaf, right side up, on moist sand, keeping the leaf in position with match sticks, toothpicks, etc. Keep the leaf shaded, and it will not be long before new leaves will start to grow from every small hole at the bottom of the leaf. After the cutting has had a chance to grow two or three small leaves, separate them from the old leaf and place in sandy soil enriched with leaf mould. Besides the Begonias, it is possible to take leaf cuttings of Umbrella plant, also Gloxinia.

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