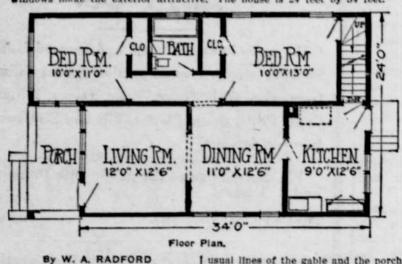


Shingles have been used effectively on the walls of this five-room bungalow. The unusual lines of the gable in the porch roof and the well-balanced windows make the exterior attractive. The house is 24 feet by 34 feet.



By W. A. RADFORD Mr. William A. Radford will answer questions and give advice FREE OF COST on all subjects pertaining to practical home building, for the readars of this paper. On account of his wide experience as editor, author and manufacturer, he is, without doubt, the highest authority on all these sub-jects. Address all inquiries to William A. Radford, No. 407 South Dearborn Street, Chicago, Ill., and only inclose two-cent stamp for reply.

When city builders devised the apartment building to provide for several families on one building site, the fact that all rooms of the home were on one floor made a very pronounced impression on housekeepers. There were no stairs to climb and the rooms were arranged in a manner so that work could be done with the least amount of effort. It was because of the popularity of the city apartment that architects designed what is now known as the bungalow house. In the bungalow as in the apartment all of the rooms are on one floor and are arranged so that the housework is sim-

Shown in the accompanying illustration is a design for a shingled bun-galow that is most effective. The un-

Stippled Wall Modern Method of Decorating How many housewives face house-

cleaning season with the wish: "If only I could think of some way to renovate these old walls!" Various paints, papers and fabrics

may have been used, one after another, when something novel but not too expensive is wanted. Today the tendency in wall-treat-

ment is toward stippled, paim-finished, texture-and-glazed, "antiqued" and other rough-surfaced effects for walls and cellings. These can be produced with sand-floated or lime-putty-fin-Ished gypsum plaster. But what is wanted is a material that will give these effects without replastering, over old walls, that is washable and possible for the housewife herself, or ber husband, to apply.

There are several materials available which meet these specifications. They are paints which come as dry white powders which, when mixed with water, become plastic. Then dry pigment or oil paint of any desired hue or shade or tint is stirred in, and the material is brushed onto the wall.

But, while flat wall paints and calcimines are liquid, these materials have body.

So, before they dry, these can be stippled with an ordinary stippling brush, or given a scroll texture with the fingertips, or a palm finish can be produced with the palm of the hand, or the brush, putty-knife or even the heel of a kitchen spoon to produce any distinctive texture that may be wanted.

If one of these plastic paints is to be applied over new plaster or wallboard, it is best to size the surface first with a good grade of varnish size. If it is to be put onto old papered walls, the paper should be removed first; cracks should be patched and the sizing brushed onto the walls

when they are dry. Where it is desired to make the walls washable, a final coat of size should be added to the outside of the roof and the well-balanced windows make the exterior attractive. This house is 24 feet by 34 feet and is of frame construction set on a concrete foundation. It contains five roomsliving room, dining room and kitchen on one side and two bedrooms with a bath between on the other. The gables set in the roof are high

enough for a great amount of attle space which through the use of socalled wall boards or insulating boards can be partitioned off into a playroom or bedrooms that will be available

when needed. The floor plan which accompanies the exterior view of the house shows the arrangement of the rooms and their sizes. It will be noted that the three rooms which are used in the daytime are together and are separate from the bedrooms. The bathroom is located in the center of the house and opens off a hall which connects the two bedrooms. This hall is reached

by a door through the dining room. An unusual feature of this home is the bedroom at the front. This is an unusually attractive room having five windows.

and higher hatchability. water will not affect either the texture or the color of the plastic dec-The variety of texture-tone combinations possible with such materials is limited only by the imagination and skill of the decorator. They also lend themselves to "two-toning," glazing and similar rich effects.

Check Losses of Heat

Through Room Ceilings Engineers have found that 62 per cent of the heat escaping from houses leaves through the roof or top story

That is where the great heat losses occur in winter, and where the excess heat of summer penetrates to make upstairs rooms unbearably hot. The roof is the place that is cheating home owners of comfort and of fuel money

every year. It is only necessary to hold one's hand over a hot radiator to establish the fact that heated air rises, and as this heated air strikes the ceiling It transmits its heat on through to the attic. Because the heated air is always found at the celling line the temperature difference between the outside and the inside is greater there than along the walls. And this temperature difference is the factor that governs heat losses,

Furthermore, there is less resistance to the flow of heat at the ceiling line than in the walls, for only a thin layer of plaster separates top floor rooms from the attic, and above this there is little to stop heat from escaping. In many otherwise wellbuilt houses one can actually see daylight through the spaces between raft-

ers at the eave line in the attic. It is very difficult to make construction tight at this point, and when winter comes the cold air enters through these openings and the heat

created at great expense is lost. Not only does heat pass through openings, it penctrates readily the layer of shingles and roof boards. which offer only a meager bar to its passage, and seeps out over the whole decorated surface. Then sonp and l roof surface.

Chimney Must Be High

Enough to Draw Well Fireplaces that do not draw well may not be in fault themselves but may be suffering from a poorly built chimney. If the top of the chimney is lower than the highest ridge of the roof, or if it is near to a much taller tree or house wall, air currents that should lift out the smoke from the chimney may instead be forced down the chimney and puff smoke out into the room.

It is impossible to give absolute rules as to the height of a chimney, but the minimum height is 3 feet above a flat roof and 2 feet above the highest ridge pole of a sloping roof. This will not be enough, however, in case the chimney is near tall buildings or trees. Sometimes it is necessary to add as many as 8 feet to a chimney in order to get the top of it above unfavorable air currents.

Sometimes chimneys that draw badly can be helped with some sort of topping that will prevent wind from force the smoke out sideways. The | imation.

most picturesque of these toppings are made of terra cotta tile, in an arched shape. Stone caps are sometimes used, and of course, metal ones that are more efficient looking than pleturesque.

Good-Looking Sidewalls

and Roof Are Important Every home is more or less beautiful while the materials are new and paint is fresh. Too many soon look shabby and need continued repainting. The condition of sidewalls usually determines the appearance of a home. Then, too, nothing is shabbler than a cheap-looking or dingy roof. Stained shingles laid over old sidewalls cost less than two good paint

Color Schemes in Homes Woods vary in shade from light to dark brown or red. The color scheme of the room should be kept in similar many lice and still return a profit over tones or warm colors. Contrasting colors can then be used in some of blowing down the chimney and will the furnishings to give the room ap Use one ounce of sodium fluoride to p



CHICKEN HOUSES NEED IMPROVING

Lack of Light or Ventilation Discourages Hens.

Many old poultry houses are lackfng in light or ventilation or both. Where ample light is already provided through windows but ventilation is inadequate, it is often best to remove the upper sush of the windows. If there are not enough windows, additional openings should be cut in the

upper part of the front wall. "Under Kansas conditions it is destrable to make these openings equal to about one-tenth of the floor space. Hall screen over these openings will serve to keep the poultry in and rodents out," suggests Walter G. Ward, extension architect. Kansas State Agricultural college, in giving hints on improving the old poultry house. "Frames covered with a light weight of muslin may be provided in the front openings to protect the flock during very cold or stormy weather."

Many old chicken houses are unnecessarily high and are very cold during the winter months, continues the building specialist. He says a simple remedy is to construct a straw celling or loft. The straw is preferably carried on inch mesh poultry netting. For supports 2x4 inch cross ties placed every 4 feet will be practical. About 1 foot of loose straw is placed on the netting and small openings in each end above the straw serve to keep it dry. The straw is left in the poultry house throughout the

Find Sour Milk Good

Ingredient of Protein Sour skim milk in unfimited quantitles gives a higher total and average egg production, higher profit over feed cost, and produced eggs at a lower feed cost than semi-solid buttermilk, dried buttermilk, meat scrap or sour skim milk whey. The dried buttermilk and semi-solid buttermilk pens gave a smaller percentage of large eggs and a larger percentage of small eggs than did the sour skim milk pen. Some skim milk whey is inferior to the other feeds in every way. The dried buttermilk pen gives the highest hatch-

A comparison of semi-solid and dried buttermilk shows the semi-solid pen gives higher per cent production and eggs per pullet. The dried pen, however, gives slightly higher yearly average profit over feed cost per pulet, cheaper feed cost per dozen eggs

The results of experiments indicate that a vegetable protein supplement to sour skimmed milk, such as peameal, alfalfa meal, and beanmeal, is productive and profitable. In production and profit over feed cost, the supplements ranked: Peameal, alfalfa meal, beanmeal, then no supplement.

******** Poultry Hints

**************** Shut up or sell male birds.

Cleanliness is the best preventive of poultry diseases.

Brooder houses should be placed where the drainage is good.

Store the eggs in a cool cellar if possible. Market them twice a week.

Feed poultry yellow corn, cod-liver

oll, milk and leafy feeds for vitamines. Young chicks should be encouraged to roost at an early age. The chicks will become accustomed to roosting if a low roost which slopes from the floor back of the hover to the rear of the house is provided.

What kind of eggs are going to market this summer? Demand for them may be increased by proper care. Be sure the hens have plenty of clean, to a point from which their call for airy nests well filled with litter-one nest for every five or six hens.

Round out the corners of the brooder house to keep the chicks from

Artificial brooding of chicks involves the problems of providing a suitable shelter for them on ground which is free from worm parasite infestation.

Be sure the old hens and young stock have plenty of ventilation during the hot summer months. Open the rear ventilator in the house and take out the windows.

Small eggs produce small chicks. The size of next year's eggs depends first upon breeding, second upon feed-

Encourage chickens to roost while they are still young to prevent crooked breast bones and crowding and to aid ventilation. Barley is considered a very good

feed for poultry. It is richer in protein and carbohydrates than oats, and has less crude fiber. In some sections it is made a substitute for corn. A simple outdoor shelter for chicks will relieve crowded conditions in the

brooder house. It will also provide ample ventilation and cool roosting quarters during the summer months. A sanitary range shelter should be provided. The price of eggs at this season will not allow the old hens to carry

feed costs. Sodlum fluoride dip is the zallon of water.



CHAPTER X

"Fie, Sir Percy!"

Little Madeleine Deseze was very shy. She had been brought by her father to pay her respects to Monseigneur le Prince de Galles because

maman was too ill to accompany her. "I don't remember much, monselgneur," Madeleine said shyly. "Maman and I were too frightened to notice anything. There was so much shouting and fighting It was terrible."

"Shall I tell you what happened. little one?" his royal highness was pleased to say.

"Your highness, steaming pucch is served in the yellow drawing room," a pleasant voice interposed, with the assurance of privilege.

"Fle, Sir Percy!" exclaimed pretty Lady Alicia Nugget, "would you spoll his highness' story?" "Rather that than let good punch

spoil with cooling, dear lady," Sir Percy retorted with a smile. "Selze him and garrotte him," his highness broke in with a laugh, "as our gallant hero and his friends seized and garrotted a chief of sec-

tion, whatever that may be, and his powerful friend from Paris." "Selze hlm! Garrotte hlm!" cried many a pair of charmingly rouged

The next moment Sir Percy Blakeney, that prince of dandles, saw himself fettered by a number of lovely arms, while gay voices chirruping like birds cried, "The story, your high ness, we entreat! He cannot interrupt now."

"I have the story from one who knows," his highness resumed with a smile, "and our little friend Madeielne shall hear it. It was thus Our gallant Scarlet Pimpernel, in one of his happiest disguises as a drover from Aincourt, did, with the aid of two of his followers, egg on a number of young louts into the bellef that they were being cheated out of the reward due to them for the capture of the noted English adventurers in their district. Full of enthusiasm and excellent wine, they came on the chief of section, who, I imagine, answers to our chief constable of a county, together with a gentleman from Paris whom some of us have known in the past. Well, the young louts, eager for the fray, and always egged on by the drover from Aincourt, seized and garroted those two worthy gentlemen them along with them. In the forest of Mezieres they came upon the dillgence, in which were our little friend Madeleine and her parents. The vehicle was ostensibly guarded by four troopers only, but our Scarlet Pimpernel and his friends had already ascertained that as a matter of fact there were half a dozen more men inside the coach, and that all were armed to the teeth. Altogether too many for three men to tackle; and since the chief motto of our band of heroes is never to attempt where they cannot succeed. stratagem had here to come to the aid of valor."

"And what did they do?" one of the adles queried breathlessly. "The drover from Aincourt, our galant Scarlet Pimpernel," his highness replied, "brought" the cart to a standstill about a quarter of a mile from the crest of the hill where the dillgence had come to a halt prepared for an attack. Then he allowed the louts to rush the vehicle, and a general melee ensued. But he and his two followers in the meantime lifted the chief of section and his friend out of the cart and carried them up the road help would presently be heard. Here

they left them in the ditch, but care fully took the gags from their mouths. "Immediately the two worthy gentlemen started to shout. Nor could they be blamed, for their plight was indeed pitlable. At first there was so much din in the melee at the top of the fill that their cries could not be heard. And in the meanwhile one of our gallant heroes had crept up through the thicket to the crest of the hill. Then presently the fighting ceased. The enthusiastic captain of gendarmerle heard the cries for help. accompanied by a good deal of shouting and clash of metal carried on by the Scarlet Pimpernel bimself and his I their companions.

second follower. Now do you see what was the result of this maneuver?" "No! No!" the ladies exclaimed. And the men, no less enthusiastic and interested, cried, "Will your bighness

proceed?" "The prisoners let out the secret that the chief of section and his friend were lying bound with ropes in a ditch, while one of our heroes-the one who had gone back to the scene of the fight and mingled with the crowd-was able to put in a word that no doubt those two great and worthy citizens were being attacked and murdered by the English spies. The English spies! You have no conception, ladies, what magic ites in those three words for every soldler of the republic. They mean hopes of promotion and of big monetary reward. in an instant the enthusiastic captain had called to some of his men to follow him, to go to the rescue of their chief of section, and incidentally to capture the Scarlet Pimpernel.

"And that was the immediate outcome of the clever stratagem. The captain divided his forces. Three he took with him, two were left to bring the prisoners along, another had been sent as courier with a message. Three only were left to guard the diligence. The gallant Scarlet Pimpernel had made a clever calculation. Already by a small ruse he had rid himself of the cart. Under cover of the darkness his two equally gallant followers had crept underneath the vehicle, while he waited in the thicket for the

right time to strike. "I leave you to guess the rest. The three remaining soldiers taken unawares, the horses unsaddled, the dillgence finally driven down the hill by our hero, while inside the coach his two followers were doing their best to assure little Madeleine and her parents that all was well. Soon they abandoned the cumbersome diligence and took to the road. That part of the story is perhaps less exciting though no less heroic. The Scarlet Pimpernel has nineteen followers: It was their task to be on the road, to ald the fugitives with disguises, to belp in the great task of reaching the coast in safety.

"And that, ladles and gentlemen, the story," his highness concluded, ris-"Let us go and drink some of my friend Blakeney's excellent punch. But after we have drunk our toast for the king, let us raise our glasses to our national hero, the Scarlet Pim-

With a courtly bow and a smile he offered his arm to Marguerite Blakeney who, with a glistening tear in her beautiful eyes, gave his highness a glance of gratitude.

'Are you coming, Blakeney?" the prince said with a merry laugh. "You must drink our toast, too, remember. To the gallant Scarlet Pimpernel!"

All the ladies laughed, partly with galety, but also with excitement. Then with one accord they cried. "Come and drink, Sir Percy, to the gallant Scarlet Pimpernel." "I'll come, dear ladies," Sir Percy

said with a sigh, "since his highness commands, but you'll forgive me if I cannot drink to that demmed, elusive

Laughing still, the ladies cried, "Fie. Sir Percy! Jealous again?" And little Madeleine, with her great childish gaze fixed upon the hand-

some English gentleman, cried in her piping little voice "Fle, Sir Percy!" THE END.1

Anta' Fire Brigade Who are the fire fighters of the in sect world?

Tests carried out by a French womin scientist, Mme, Marguerite Combes, have proved that red ants organize themselves into fire brigades and are able to extinguish flame by the application of formic acid.

When Mme. Combes placed a lighted cigarette on an ant bill, the alarm was given immediately, and the insect firemen set about their task successfully. The experiment was repeated several times with the same result, and a lighted taper was also extinguished. Finally a lighted candle was used, and this was put out in about a minute.

When ants were in danger of burn ing, they were dragged to safety by

World Levied On for Materials for Candy

uses almonds and filberts from Spain and Italy, walnuts from France, coconuts from the British West Indies. Brazil nuts from Brazil, figs and dates from Turkey, Persia, Arabia. Tunis. Algiers or Morocco; cherries from France; pineapples from Cuba, Porto Rico, Hawaii or Singapore; honey from Cuba and this country, vanilla beans from Mexico, cacao beans from which chocolate for coating is made from British West Africa, Trinidad. Tobago, the Dominicao Republic

many South American countries. Cane sugar comes from Cuba, Ha wall or possibly Porto Rico, and beet

Community Weeds

In every garden there are the weeds and in every human community there are the individuals who correspond to easiest and best way to control lice. the weeds in a garden, fattening off of the substance of the useful-Ex change.

The modern candy manufacturer | sugar from native-grown beets. Then raspberries, strawberries, grapefruit, apples, pears, peaches from our own country, in addition to millions of galons of milk and cream; thousands of tons of butter, corn sirup, molasses and gelatin are used yearly by American candy manufacturers in producing the candy we have today.

River's Despest Part

The deepest point of the Ohlo river between Pittsburgh, Pa., and Wheeling, W. Va., is at a pool at Dam No. 10, Steubenville, Ohio, which is 65.7 miles from Pittsburgh. From the pool level to the bottom of the hole it to 41 feet. This is at low water.

Sound Advice

For the love of a number of things that are desirable, take the advice of an old chump, young man or young woman, and put at least a fittle money away whenever you are paid your wages .- Portland Oregonia.

Much Wood Swallowed

Up by Printing Press Any large dally and Sunday news paper with its many sections and supplements is one of the chief consumers of the forest resources of the nation, according to a survey of reforestation needs by Farm and Fireside.

One week's publication uses enough paper to represent the pulp from 400 acres of trees, or 20,000 acres of forest in a year. At least 10 square miles of forest go to the pulp mills every day in the year to keep the presses of the country running.

The United States uses more wood per capita than any nation in the world. More than two-thirds of the 822,000,000 acres contained in the country's original forests have been culled, cut over or destroyed by fire. About 26,000,000,000 cubic feet of material are taken out of the forests every year for all purposes, while only about 6,000,000,000 feet are growing anew in them. All kinds of trees are being consumed faster than they are being grown

Since 1909 the United States has used more wood pulp than it has produced. Two-thirds of the present supply is being imported from Canada.

Great Geyser Exhibit The most comprehensive geyser exhibit in the world has been placed in the new Yellowstone Park museum bullding at Old Faithful, under the supervision of Dorr C. Yenger, park naturalist. It consists of specimens of the various types of geyser and hot springs deposits and of diagrammatic paintings showing how a geyser works, and of the evolution of a geyser through the geological ages. The museum has been located at Old Faithful because that is the geyser capital of the earth More active geysers of the first order are to be found within a ten mile radius of this spot than in all the rest of the world put together.

Gold Stream Reduced

It has been a long time since the "forty-niners" made their rush for the gold fields of California, but still the mines continue to pour out a stream of precious metal, though the stream is lessening somewhat, judging from the 1928 figures.

The production of gold, silver, copper and lend for the year reached a total value of \$15,381,783, a decline of about 9 per cent from the preceding year. This does not take into consideration the stream of gold pouring in to Hollywood.

Mystery

Making fun of the present-day modes for women is a favorite indoor and outdoor sport, but it has remained for a clergyman to put out one of the prize bons mots of the season. Rev. W. E. Biederwolf declares:

"Nowadays, when you look at women from the back it is often hard to tell whether they are daughters of fourteen or Daughters of the Revolu-

Birds, Alligators, Her Pets

Miss Beatrice Harrison, whose cells playing induced nightingales to sing for the radio in England, is gathering a unique collection of pets at her beautiful home at Oxted. A number of alligators live in a tank in the dining room, basking on a tree trunk during the day. The room also contains a number of birds, including a singing parrot, and seventeen dogs.

Better to Keep Mum

"My wife never listens to me," com plained a newly married man. "Don't let that worry you, son," said the old married one, "Mine did once,

and it got me in a peck of trouble." "How was that?"

"I was talking in my sleep."

Equal Obligations He who blds us leave the gift on the altar and be reconciled to our brother would have us go back and be reconciled to any duty with which we may have quarreled .- Mark Guy Pearse.

First requisite in "being somebody" is a public that will concede that

Young man, beware of the peach who is the apple of your eye. She may prove to be a lemon.

of 4.5 persons each. Use Russ Ball Blue in your laundry. Tiny rust spots may come from inferior Bluing. Ask Grocers.-Adv.

It pays to be honest-but the pay sometimes goes to the other fellow.

Rheumatism may be a joint affair when there is only one party to it. It is easier to take good luck as it

One must remember that the swine haven't asked that any pearls be cast.

Gossips know how to make even the little things tell.

world-at that time. No man approves of firting-un less he is in on the deal.

The smaller the hole a man gets into the louder he howls.

shead unless he has a head.

No man can get ahead and stay



The Right Way to Redye Fine Silks ways use special dyes for silk or wool. They know that is the best way. The makers of Diamond

makers of Diamond Dyes are the first to enable home dyers to follow this plan.

Next time you want to dye some of your more valuable articles of silk or wool, try the special Diamond Dyes in the Blue Package. They will give these materials clearer, more brilliant colors than any "all-purpose" dye. And they are just as easy to use as ordinary dyes. Like the white package Diamond Dyes, these dyes contain an abundance of the highest quality anilines. The blue package dyes silk or wool only; the white package dyes, or tinte, any material. Either package; 15c, drugstores.

Uncle Eben

"De way of de transgressor," said Uncle Eben, "Is hard, but sometimes it 'pears like a concrete pavement fol balloon tires."-Washington Star.

MEDITERRANEAN SECTED AT 1 New SS. "Transylvania", 66 days, Ma-deira, Canary Islands, Morocco, Spain, Greece, Palestine, Egypt, Italy, etc.

EUROPE CRUISE June 28 CUNARD LINE, 82days, \$600 to \$1250 Madeira, Morocco, Spain, Algiera, Italy, Riviera, Sweden, Norway, Edinburgh, Holland, Belgium, Paris, (London, Rhine, Oberammergau, Fas-sion Play). Hotels, drives, fees, etc. included.

Frank C. Clark, Times Bldg., N. Y.

Forehanded Some people think that providing for the future is having a spare tire. -Kansas City Journal Post.

Very few men are able to appreciate the humor in a practical joke that comes to them point first.

25.000.000 Sold All wearers can't be wrong LEVI STRAUSS

Overalls the Leading Brand for over 56 years

Every pair sold with This guarantee ANEW FREE IFTHEY



At Least That "Yes, Albert has drawn an awful

picture." "Only one?"-Madrid Buen Humor. A gentle voice sometimes indicates





W. N. U., PORTLAND, NO. 39-1929.