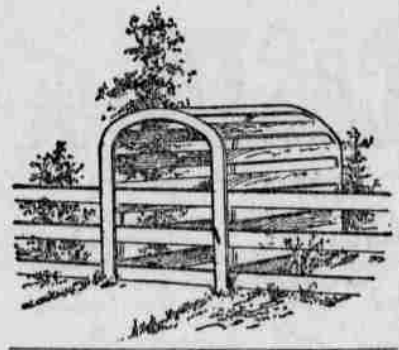




An Arbor Gateway.
The sketch herewith, from the Orange Judd Farmer, gives a suggestion that can be adopted in many situations both as to utility and beauty. Where there is a path through a farm fence near one's buildings, necessitating a narrow gate, this gateway can be combined with an arbor, as shown in the cut. This gives the ornamental part of



the device, or will when covered with vines. If the vines bear grapes the useful part will be very apparent. When such ornamenting of one's premises can be combined with that which is purely useful, there is small excuse for not having farm premises more attractive.

Guessing Weight of Stock.

It is surprising how many farmers who grow live stock which they sometimes expect to sell on the hoof take so little care to ascertain its weight. Their ignorance in this matter often costs them dear, as the butcher or other person who buys of them generally is supplied with scales, and can generally guess within a few pounds what an animal will weigh. In the writer's boyhood, his father frequently bought cattle and sheep to be fed awhile, and then butchered, to supply his customers with beef and mutton. It does not take long to learn how to guess on the weight of a beef. The size alone is not always a criterion. Old cattle, and especially old cows, will not weigh so heavy as they look, and will usually have more of their weight in inside fat, now worth very little, owing to the competition of cotton-seed oil and other vegetable oils.—American Cultivator.

Horns on Domestic Animals.

All the reason for horns on any domestic animal ceased when they came wholly under man's protecting care. It was all right for the animal to defend itself with horns while exposed to predatory animals, like wolves and bears. When cattle run wild, as they long did in the State of Texas, and as they still do on the plains of South America, their horns constantly increased in length and formidableness. But under civilized conditions there is no need for horns. In some breeds they have already been bred off. This will doubtless become more general, as dishorning at least the cows has become a quite general practice. Calves may be prevented from ever growing a horn by applying a stick of potash on the head where the horns would start, and removing the hair, so that the potash will make a slight sore on the skin.

Substitute for Roller.

An easily made substitute for a roller is shown herewith. It is from the Farm Journal. The sides are cut from two planks, and narrow strips are then nailed to the lower edges. This contrivance can be weighted to any degree desired and will do good service in fluffing or firming the soil. A roller is one of the most valuable implements that a farmer can use in making a fine



SUBSTITUTE FOR ROLLER.

seedbed, but scarcely one farmer out of ten owns a roller. The cost of the trouble to make one is the excuse given for their absence from the farm tools.

Lice and Mites.

For preventing lice and mites, more depends on the care of poultry than upon the style of the building. The hen house should be sprayed inside with kerosene once a month during the summer, paying especial attention to working the oil into the roosts and down into the crevices, also around the nest boxes. Clear out the droppings at least once a week. Lice and mites breed in the droppings. After cleaning put in a little fresh earth. It will be a good plan to smoke the inside with sulphur if the house is tight enough. Give the hens a box of earth to dust in and add some powdered sulphur. Keep the inside of the house well whitewashed.

First Work for Teams.

After their winter's rest, if it has been such, horses need to be broken into work very gradually. Their necks and breasts, where the harness chafed, and which had been toughened by a whole season's work, have grown tender again, and it will require several days of light work to renew the cuticle which disuse had allowed to disappear. There should be frequent rests, and at such

times the collar should be pulled forward so as to allow the air to strike the part. On no account should the horse for the first week or more be allowed to work in the rain, or be hard pushed when he is sweating. Care in the beginning of the season will save the horse perhaps from being disabled for work during a large part of the summer.

Parsnips for Late Use.

The parsnip is not only one of the hardest of garden vegetables, wintering in the open ground without injury, as also does salsify or vegetable oyster, as it is generally called, but, like the last mentioned plant, it starts to growing very early in the spring. So soon as the leaves start on either, the roots should be pulled up and carried to a cool cellar or pit, as the growth of leaves will very quickly make the roots unfit for use. All the first leaf growth is taken from the root, and is the beginning towards seed formation. The root rapidly shrivels and loses its succulence when the leaves grow larger. The part of the parsnip at the surface of the ground will taste acrid, and it doubtless possesses some poisonous qualities, as is the common belief among farmers. No kind of roots which are biennials are fit to eat after their second year growth has begun.

Tomato Grafting.

Replying to an inquiry about grafting tomato slips on potato vines, the Philadelphia Record says: "As tomato cuttings will take root, it is not difficult to handle them. The process of grafting tomato on the potato is as yet experimental, and is not always successful. Whole potatoes should be planted, removing all eyes but one, so as to get a stocky plant. The tomato slip should be only large enough to be of service (about three inches), and may be inserted into the potato vine by slitting the vine, leaving no bud of the potato vine. If the bark of the potato and tomato are united it will be better, but it is claimed that such is not always necessary. Keep the vines moist at the ground and shade the plants if necessary.

How to See Plants Grow.

To observe plants growing under the microscope the American Monthly Microscopical Journal says: "Procure a little collumina seed. Take one of the seeds, and with a razor cut off a very tiny slice, cover with a cover glass and place under the microscope. The instrument must be in a vertical position. When it is well focused and lighted moisten it with a drop of water. The seed will absorb the moisture and throw out a very large number of spiral fibers, giving the appearance of veritable germination. Beginners will find it easier if one applies the moisture while the other looks through the instrument."

Milking Device.

Slovenly milking is often to be accounted for by the small size of the pail's top. A good deal of the milk will persist in running down the outside. To make easier milking, have a top made as shown in the cut. The flaring sides will catch the stream of milk and conduct it into the pail. It will be well to tie a piece of muslin over the bottom of this top piece, thus straining the milk as it goes in to the pail. Let this flaring piece just fit into the top of the pail.—American Agriculturist.



MILK PAIL.

Seeding Clover.

There are customs which are rigidly adhered to in the sowing or planting of the staple crops. Clover is usually sown on the wheat land in the spring, the seed being scattered over the ground when it is covered with snow in order to facilitate the work. One of the rigid rules is to sow a certain quantity of seed (as little as possible if seed is high), and should the stand be light the cause is ascribed to everything but the seed. The fact is that seed should be used more liberally, as much of it is destroyed in various ways before germination, the saving in seed causing a loss of clover. Another point is to harrow the wheat, seed down the clover and then use a roller on the land. The better the preparation for clover the more seeds will germinate and the more perfect the "catch."

Fertilizing.

But few farmers accumulate as much manure as they desire. Instead of spreading the manure over too much land, it will be better to use only one-half of the farm for crops and grow green material on the other half to be turned under. In this manner it will not be many years before every acre will double its average yield, and the profits will be larger because the expenses will be correspondingly reduced.

Rhubarb.

One of the garden crops that thoroughly understands how to take care of itself is rhubarb. If planted in earth that is not very dry, it will continue for many years without receiving any particular attention. It is, however, very fond of high living, and those who desire to have large and succulent stalks should give a good top-dressing of manure every season.—Meehan's Monthly.

Lima Beans.

Pole varieties are preferred by those who grow Lima beans for market, as there are "old standards" that are favorites. The bush Limas are probably to be preferred, as they may be planted in rows and be easily worked. They require no supports, and are usually earlier than the pole varieties, and are fully equal in quality to the others. They make a valuable addition to the garden crops.

How Are You This Spring?

Tired, nervous?
Can't get rested?
Tortured with boils, humors?
That is not strange. Impurities have been accumulating in your blood during winter and it has become impoverished. This is the experience of most people. Therefore they take Hood's Sarsaparilla to purify their blood in spring.

I. M. White, Salem, Or., says: "The members of our family have derived much benefit from the use of Hood's Sarsaparilla. My father was severely troubled with humor, but it readily yielded to Hood's Sarsaparilla."

Thomas A. Coleman, Davidson, Or.: "Four or five years ago I had sores on my feet so that I was unable to wear shoes. I saw Hood's Sarsaparilla advertised to cure scrofula, and I procured two bottles. By the time I had taken them my feet were well."

Hood's Sarsaparilla
Is America's Greatest Medicine. Sold by all druggists, 25c per bottle. Be sure to get Hood's.
Hood's Pills cure liver ills; easy to take, easy to operate. 25c.

Swallowing His Words.

"While I was at Moscow," writes a traveler, whose words are reproduced by the Detroit Free Press, "a volume was published in favor of the liberty of people. In this book the iniquitous conduct of the public functionaries, and even of the sovereign, were censured severely. The book created indignation, and the offender was at once taken into custody. After being tried in a summary way, he was condemned to eat his own words. A scaffold was erected in a public square, the imperial provost, the magistrates and the physicians of the czar attending, the book was separated from the binding, and the margin cut off. The author was then served, leaf by leaf, by the provost, and was obliged to swallow this unpalatable stuff on pain of the knot, more feared in Russia than death. As soon as the medical gentlemen were of the opinion that he had eaten as much as he could with safety, the transgressor was returned to prison. This punishment was renewed the following days, until after several hearty meals, every leaf of the book was actually swallowed."

IT WILL PAY.

It will pay to carefully read the descriptive advertisement of Alabastine appearing in this paper, explaining the difference between these goods and Kalsomines. Consumers should bear in mind that Alabastine is unlike all the various Kalsomines sold on the market under different names. Alabastine stands pre-eminent and alone as a durable wall coating, and all consumers in buying should see that the goods are in packages and properly labeled.

Captain Cuttle in Safety.

Many are the prayers that are breathed for those that have gone forth to brave the dangers of the open ocean, remarks a writer in The Illustrated American, yet catastrophes on record have occurred in still water within sight, almost within touch of land. The Episcopal prayer book contains a formula of prayer for those at sea, which may perhaps include those that are upon the waters of rivers or anchored in harbors. The horrors that have occurred within close range of land make more grewsome than humorous the remark of Captain Cuttle, who, when in a stress of weather, under close-reefed foresails, with the hatches battered down, used to retire to his cabin and murmur as he sipped his grog, "God help the poor creatures on shore tonight!"

HOME PRODUCTS AND PURE FOOD.

All Eastern Syrup, so-called, usually very light colored and of heavy body, is made from glucose and is strictly pure. It is for sale by first-class grocers, in cans only. Manufactured by the PACIFIC COAST SYRUP CO. All genuine "The Golden Drop" have the manufacturer's name lithographed on every can.

King is the most ancient of titles.

It, or its equivalent, is found in every known language.

I believe my prompt use of Piso's Cure prevented quick consumption.—Mrs. Lucy Wallace, Marquette, Kans., Dec. 12, '95.

Pictures can be adjusted at any height by a new device consisting of a rod with a flat hook at the upper end to fasten it on the molding and a series of ratchet teeth on the back side of the rod, with a sliding member to engage the teeth and support the picture.

SHAKE INTO YOUR SHOES.

Allen's Foot-Ease, a powder for the feet. It cures painful, swollen smarting feet and instantly takes the sting out of corns and bunions. It's the greatest comfort discovery of the age. Allen's Foot-Ease makes tight-fitting or new shoes feel easy. It is a certain cure for chilblains, sweating, damp, callous and hot, tired aching feet. We have over 30,000 testimonials of cures. Try it today. Sold by all druggists and shoe stores. For mail for 25c. In stamps. Trial package FREE. Address Allen S. Olmsted, Le Roy, N. Y.

The largest hotel in the world is the Waldorf-Astoria, in New York city, a \$10,000,000 establishment, built by millionaires for millionaires.

Work in the Patent Office.

In 1897 there were received 45,661 applications for patents, and in addition a large number of applications for designs, trade-marks, etc. Patents granted numbered 23,729, including designs; 65 patents were reissued, 1,671 trade-marks registered and 14 labels and 16 prints. The number of patents that expired was 13,936. The total expenditures, \$1,22,843; the receipts over expenditures, \$252,793. The total balance to the credit of the patent office in the treasury of the United States January 1, 1898, was \$4,970,438.

In proportion to population more patents were issued to citizens of Connecticut than to those of any other state—one to every 786 inhabitants. Next in order are the following: Massachusetts, District of Columbia, New Jersey, Rhode Island, New York.

To residents of England 706 patents were issued; to residents of Germany, 551; Canada, 286, and France, 22.

The number of applications received for examination during the year was greater than for any other in the history of the office. Applications awaiting action December 28 last numbered 11,382, due to the inadequacy of the office force. For the 10 years beginning in 1840 the average number of application was 1,186, and for the eight years beginning with 1890 it has grown to 41,479 per year.

THAT SETTLES IT.

With the bloom and beauty of the season, its balmy airs and delightful temperature, we feel like living with new life, and are therefore often very careless in taking care of ourselves. It is this forgetfulness that lays us liable to attacks of rheumatism, the more liable because we think there is little danger of its coming on, but rheumatism is an easy thing to take and sometimes a hard thing to get rid of unless we take the advice of others and learn that the best way possible is to use St. Jacob's Oil. It has been used so long as a sure cure that this advice is given in good faith from the testimony of thousands.

If an Egyptian dies before noon the funeral must take place the same day. If death occurs after noon the funeral may not be delayed after the next day.

ABOUT CHANGE OF LIFE.

"I suffered for eight years, and could find no permanent relief until one year ago. My trouble was Change of Life. I tried Lydia E. Pinkham's Vegetable Compound, and relief came almost immediately. I have taken two bottles of the Vegetable Compound, three boxes of Pills, and have also used the Sanative Wash, and must say I have never had anything help so much. I have better health than I ever had in my life. I feel like a new person, perfectly strong. I give the Compound all the credit. I have recommended it to several of my friends who are using it with like results. It has cured me of several female diseases. I would not do without Mrs. Pinkham's remedies for anything. There is no need of so much female suffering. Her remedies are a sure cure."—MRS. ELIA KENZER, Knightstown, Henry Co., Ind.



By the way, the leading druggists tell us that the demand for Lydia E. Pinkham's Vegetable Compound is simply beyond their power of understanding; and what is best of all, it does the work promptly and well.

There died recently in the village of Mauvages, Alsace, a man by the name of Becu, who is the last of the family from which Mme. du Barry sprang. Her real name was Becu, and she was born in Vaucouleurs, a short distance from Mauvages.

It is said that one person in 800 is blind to the X rays; that is, when looking through the fluoroscope they cannot see the bones of the hand, coins in a book, etc. This is no doubt analogous to color blindness.

AN OPEN LETTER TO MOTHERS.

We are asserting in the courts our right to the exclusive use of the word "CASTORIA," and "PITCHER'S CASTORIA," as our Trade Mark. I. Dr. Samuel Pitcher, of Hyannis, Massachusetts, was the originator of "PITCHER'S CASTORIA," the same that has borne and does now bear the facsimile signature of CHAS. H. FLETCHER on every wrapper. This is the original "PITCHER'S CASTORIA" which has been used in the homes of the mothers of America for over thirty years. Look carefully at the wrapper and see that it is the kind you have always bought, and has the signature of CHAS. H. FLETCHER on the wrapper. No one has authority from me to use my name except the Centaur Company of which Chas. H. Fletcher is President. March 5, 1897. SAMUEL PITCHER, M.D.

George Sewell Bontwell, the youngest man ever elected governor of Massachusetts, and now the oldest of her ex-governors, has just celebrated his 80th birthday. It is 47 years since he was chosen governor.

There are 305 miles of street railways in St. Louis now, and they carry 100,000,000 passengers a year.

Ask Your Doctor

what effect alum has upon the stomach. Then make up your mind whether you will put any more low-price baking powder into your husband's or children's food.

Schilling's Best is pure cream of tartar and soda. Nothing else.

Want to Feel What They Are Eating.

The inhabitants of Sikas, Turkey, owing to the oppression of the tax gatherer, who, the more industries he finds them the more he demands, and that out of proportion to the means, have no ambition to lead other than a hand-to-mouth existence. Their principal food is made from unsifted whole wheat, that has been threshed on the ground by means of a drag drawn repeatedly over it by oxen, and usually has a large admixture of dirt and stones. The people prefer this to fine grade flour, because they say they can feel they are eating something.

GREAT BENEVOLENCES.

In the great cities of the United States the condition of the metropolitan poor is constantly being ameliorated by the grand benevolence of wealthy people. Sanitary reforms are frequently suggested and carried out with earnestness and intelligence. Among sanitary reforms those produced by Hostetter's Stomach Bitters in dyspeptic stomach, disordered liver, bowels or nervous system are very conspicuous.

The Sadsbury river aqueduct in 359 days, has delivered 15,837,300,000 gallons to Chestnut Hill reservoir, and \$5,500,000 to Lake Cochituate.

HOW'S THIS?

We offer One Hundred Dollars Reward for any case of Catarrh that can not be cured by Hall's Catarrh Cure.

F. J. CHENEY & CO., Props., Toledo, O. We the undersigned, have known F. J. Cheney for the past 15 years, and believe him perfectly honorable in all business transactions and financially able to carry out any obligations made by their firm.

West & Traux, Wholesale Druggists, Toledo, O. W. L. DAVIS, Wholesale Druggist, Toledo, O. Hall's Catarrh Cure is taken internally, acting directly on the blood and mucous surfaces of the system. Price 75c per bottle. Sold by all druggists. Testimonials free. Hall's Family Pills are the best.

An Oregon inventor has devised a steam plow which he thinks capable of plowing 15 acres a day.

FITS Permanently Cured. No fits or nervousness after first day's use of Dr. Kline's Great Nerve Restorer. Send for FREE 2400 trial bottle and treatise. DR. R. H. KLINE, Ltd., 300 Arch Street, Philadelphia, Pa.

Waterloo, Ind., has a church for which one glacial boulder furnished practically all the material.

After being swindled by all others, send no stamp for particulars of King Solomon's Treasure. The ONLY renewal of manly strength. MASON CHEMICAL CO., P. O. Box 77, Philadelphia, Pa.

The law which at present governs the practice of law in France forbids the simultaneous practice of medicine and pharmacy, even by a person who may be in possession of diplomas in both subjects.

Use Dr. Pfunder's Oregon Blood Purifier now.

They Rejected Money.

In this country and in the civilized world generally we are so accustomed to the circulation of coins that we are apt to forget that there are millions of human beings who know nothing whatever of coins, and conduct their transactions by means of cowries, brass rods, pieces of cotton or cloth and divers other articles. On the West coast of Africa brass and copper rods are in vogue, and form an important article of commerce from the Birmingham district of England. Recently an effort has been made to displace this form of currency by forcing the natives to use silver coins, but without success.

"A Perfect Type of the Highest Order of Excellence in Manufacture."

Walter Baker & Co's

Breakfast Cocoa
Absolutely Pure, Delicious, Nutritious.
Costs Less Than ONE CENT A CUP.

Be sure that you get the Genuine Article, made at DORCHESTER, MASS. by WALTER BAKER & CO. Ltd.

ESTABLISHED 1780.

PISO'S CURE FOR
CURES WHERE ALL ELSE FAILS.
Best Cough Syrup, Cures Croup, Whooping Cough, Sore Throat, etc.
Consumption

Improved Plumb-Rob.

In a new plumb-bob the center is hollow and contains a horizontal shaft carrying a spring drum on which the cord is wound, with a central hole in the top for its passage in unwinding.

In the spring cleanse your system by using Dr. Pfunder's Oregon Blood Purifier.

Good Health
Is the working capital of humanity. He who loses that is wrecked indeed. Is your health falling you, your ambition, vigor, vitality wasting away? When others fail consult
DOCTOR RATCLIFFE,

For the speedy, safe and permanent cure of all Nervous, Chronic and Special diseases, even in their most aggravated forms. There is no man in the world who has effected so many permanent cures in both Men and Women of troubles which other physicians of acknowledged ability had given up as hopeless as this eminent specialist.

NERVOUS DEBILITY and all its attending ailments of YOUNG, MIDDLE-AGED and OLD MEN. The awful effects of neglected or improperly treated cases, causing drains, weakness of body and brain, dizziness, falling memory, lack of energy and confidence, pains in back, joints and kidneys, and many other distressing symptoms, afflicting one for study, business or enjoyment of life. Dr. Ratcliffe can cure you, no matter who or what has failed.

WEAK MEN. He restores lost vigor and vitality to weak men. Organs of the body which have been weakened through disease, overwork, excess or indiscretions are restored to full power, strength and vigor through his own successful system of treatment.

VARIICOCELE, hydrocele, swelling and tenderness of the glands treated with unflinching success. **SPECIAL DYSASTHY,** inflammation, discharges, etc., which, if neglected or improperly treated, break down the system, cause kidney and bladder diseases, etc.

DISEASES OF WOMEN. Prompt and special attention given to all their many ailments.

WRITE if you are aware of any trouble. Do NOT DELAY. Call on Dr. Ratcliffe today. If you cannot call, write him. His valuable book free to all sufferers. CONSULTATION FREE and confidential at office or by letter.
E. M. RATCLIFFE, 715 First Ave., SEATTLE, WASH.

Pfunder's OREGON BLOOD PURIFIER HEALTH RESTORER USE IT!

THE BEST LEAD IS THE LEAD THAT WEARS LONGEST.

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Write to us about it. Our book on painting SENT FREE.

Cleveland Oil & Paint Mfg. Co., PORTLAND, OREGON.

FACTS and FIGURES

...ABOUT...

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How to go, when to go, where to go, what to take and where to get it.

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WHEAT Make money by successful speculation in Chicago. We buy and sell wheat on margins. Fortunes have been made on a small beginning by trading in futures. Write for full particulars. Best of reference given. Several years' experience on the Chicago Board of Trade and a thorough knowledge of the business. Send for our free reference book. **DOWNS, HOPKINS & Co.,** Chicago Board of Trade Brokers. Offices in Portland, Oregon and Seattle, Wash.

YOUR LIVER Is it Wrong? Get it Right. Keep it Right.

Moore's Revealed Remedy will do it. Three doses will make you feel better. Get it from your druggist or any wholesale drug house, or from Stewart & Holmes Drug Co., Seattle.

WILL & FINCK CO'S SPRING EYE GRAIN BACNEEDLES

Plain or with Cutler. The best needle in the market. Used by all sack sewers. For sale by all general merchandise stores, or by

WILL & FINCK CO., 220 Market Street, San Francisco, Cal.

RODS for tracing and locating Gold or Silver Ore, lost or buried treasures. M. D. QUINN, 614 W. 12th St., Seattle, Wash.

N. F. N. U. No. 15, '98.

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ALABASTINE

ALABASTINE IS WHAT?

Alabastine is a durable and natural coating for walls and ceilings entirely different from all Kalsomine preparations, made ready for use in white or twelve beautiful tints by the simple addition of water (latest make being adapted to mix with cold water) put up in dry powder form, in 5 pound packages, with full directions on every package.

MUCH SICKNESS

Particularly throat and lung difficulties, wrongly attributed to other causes, is the result of unsanitary conditions of walls and ceilings. Think of having bedrooms covered with layers of moulding food pests to feed vermin,

with paper to hide them and absorb the moisture of respiration, and an animal germ culture ground on its face for disease germs; this having strong colors added, like a colored shirt, to hide the dirt; then think of "the nasty practice" of repeating this papering, without removing the old, and a number of times, as that is many do. Then think of a room coated with pure, porous, permanent Alabastine, which is retinted with but little trouble or expense, and is purifying and sweet-smelling and fills cracks. Wall paper free would be dearer than Alabastine if cost of removing paper is considered.

Alabastine is sold by paint dealers everywhere. Ask your dealer for card of title.

TO DEALERS.

Do not buy a law suit or an injunction with cheap Kalsomines, which are all imitations of Alabastine. Dealers assume the risk of a suit for damages by selling an infringement. Alabastine Company own the right, covered by letters patent, to make and sell wall coatings adapted to be mixed with cold water. Alabastine Co., Grand Rapids, Mich.