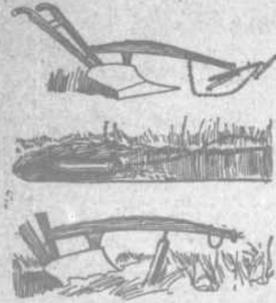


FARM & GARDEN

DEVICES FOR PLOWING.

They Have Been Found Serviceable, Durable and Effective by Those Who Have Tried Them.

When plowing down corn stubble, green crops, tall weeds, manure or straw, a number of devices are used to draw the stalks and litter into the furrow and distribute along so as to be covered by the plow, the most common of which is the chain arrangement shown in the cut. The chain usually is about five feet in length, one end fastened to evener and the other to plow beam at the place where the coupler is attached, allowing the chain to drag along in bottom of furrow and over portion of the unplowed



THREE PLOW ATTACHMENTS.

ground. Some prefer to fasten the chain farther back on the plow beam, or at the standard. In turning under very heavy corn stubble, the chain is sometimes found too light to do its work well, and an extra device, center of cut, is added. This is a round stik of wood, one foot long and two inches in diameter, one end pointed and the other flattened, and wired to chain at point chain leaves furrow to fasten to moldboard falls on the stik, and causes it to hold the chain always in the right position, drawing to the bottom of the furrow the heaviest cornstalks or weeds. A device used in place of a chain is shown below this. It is a round stik of heavy wood, about four inches in diameter, and one and one-half to two feet long, which is attached with a rope swivel to plow beam, about two feet in front of the standard, where it rolls along on edge of furrow, and acts like the chain.—Rural New Yorker.

TRUST OF FARMERS.

Unique Project to Be Proposed at the Coming Agricultural Congress in Paris.

The uniting of all the farmers of the world in a sort of international trust or agreement to restrict the production of wheat and to raise prices is the project which it is hoped to carry out at the International Agricultural conference to be held in Paris July 9 to 16. It is proposed to ask the farmers of the world to reduce their wheat output by 20 per cent., and not to sell a bushel for less than one dollar.

J. C. Hanley, of St. Paul, executive agent of the Farmers' alliance and Industrial union, the National Cotton Growers' association, the Farmers' Federation of the Mississippi Valley, and the National Grain Growers' association, is the chief promoter of the International Agricultural trust in America. Prof. G. Rubland, of the University of Fribourg, Switzerland, is the chief promoter of the plan in Europe. The idea was conceived by these two men independently.

Mr. Hanley has been a worker in the interests of the farmers for years. He has been interested in many hold-your-wool schemes and is prominently associated with the farmers' elevator and various cooperative undertakings. He has for years studied the problem of wheat prices and is at present very active in promoting legislation by congress in the interest of the farmers. He has long been of the opinion that if the farmers would only get together and come to an understanding as to limiting production and would agree to sell only when their price could be obtained they could easily master the situation. As a professor of economics Prof. Rubland had come to the same conclusion. His study of the agrarian problems of different civilized countries led him to believe that the only cure for the widespread troubles of farmers, which are much more severe in the old than in the new world, is to restrict production. Both Mr. Hanley and the professor were hard at work getting the idea into practice when they encountered each other through correspondence. Since then they have been working in harmony with a common idea, namely to persuade the International Agricultural congress to endorse the idea and recommend it to the various associations present at the conference for application next year.—N. Y. Sun.

Prosperity Among Farmers.

I am aware that the idea prevails that the chances are much better for the accumulation of wealth in cities than on the farm. This is a very great mistake. In the city a small class has a great deal of wealth and a large class is in very moderate circumstances or in the depths of poverty. The great mass in the city are not as well off as those on the farm. The average wealth of 99 per cent. of the inhabitants of nearly every city in Illinois is less than that of the surrounding country.—John T. Campbell in Farmers' Review.

CLOVER SUBSTITUTE.

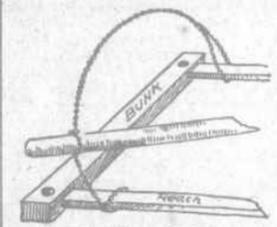
Various Experiment Stations Have Recently Issued Gratifying Reports on the Soy Bean.

The soy or Soja bean is an upright, stiff-stemmed, branching bean, introduced a few years ago from Japan, which is rapidly coming to the front as a most valuable forage plant. It has been grown for several years by the Ohio experiment station with very satisfactory results. Planted on some of our poorest soils, it has produced two to three tons of excellent dry forage or hay per acre, which is eaten with relish by all kinds of stock. As a crop to turn under for green manuring we do not know its equal. As the soy bean is a warm weather plant it should not be planted before the last of May in northern Ohio, nor before the middle in the southern part of the state. When planted for forage it is sown at the rate of a bushel and a half to the acre, on well-prepared land, sowing with the wheat drill with all the runs open. Thus sown it soon covers the ground and there is no trouble from weeds or foxtail. It should be harvested before frost, and cured as hay. The soy bean, like clover, adds nitrogen to the soil, and it is therefore a renovating, instead of an exhausting crop. It is especially suited to take the place of clover in a systematic rotation where the clover has been killed out by severe winters, as is the case at present over a large part of Ohio, or where the spring seeding of clover has failed to catch. The Ohio experiment station has used it in such cases with such good results that it feels justified in urging the farmers of the state to give it a careful trial. There are several varieties of soy beans, some of which will mature in Ohio, while others will not. As a rule, the latter class are more valuable for forage, as they make larger growth. The beans, however, which are produced at the rate of ten to twenty bushels per acre, are a valuable feeding stuff, as they are quite high in protein, and to some extent take the place of such materials as linseed meal in the ration. The Kansas experiment station has fed them to fattening hogs with the result of effecting a large saving in the quantity of food required to make a pound of pork, and others report similar results in feeding them to sheep. The experiment station has no seed of these beans for distribution, but it may be procured of most of the principal seedsmen.

HOW TO BIND TIMBER.

Securing a Load of Wood Is Not Hard Work When One Knows Just How to Do It.

To bind a load of logs to a sled, fasten a chain to the near reach, just back of the forward bunk. Throw the other end of the chain over the load and pass it around and under the other reach; also just back of the bunk. Bring it up and fasten to the main part of the chain either by means of a grab hook or by toggling. Now take a stout, tough sapling two inches in diameter and eight feet long. Insert



BINDING TIMBER SECURELY.

the larger end between the chain and the logs on the near side of the sled, with the smaller end pointing to the front. Raise the smaller end perpendicularly, bring it over and bend it down until it is parallel and nearly on a level with the logs. Then by means of a rope or a small chain fasten it to the reach. Next fasten a chain to the off reach just forward of the rear bunk. Throw it over and fasten in precisely the same manner. Insert another sapling, or "twister" as it is called, from behind, and bring it over to the front where it is to be fastened in the same manner as the first. This method of binding, if the chains are tight enough, will hold a load of logs securely over any road and for any length of time. If the chains are too loose, the smaller ends of the twisters will begin to play up and down. Then they must be taken out and the chains tightened. Then the twisters must be inserted and secured as before.—C. O. Ormsby, in Farm and Home.

HELPFUL FARM NOTES.

Frequent and thorough stirring of the cream while ripening will prevent the white specks so frequently seen in butter.

When sheep gnaw wood and show an inclination to eat substances not on their list of foods, an examination will generally reveal the presence of worms.

See that your seed corn is strong and vigorous. The young plant in the beginning of its growth depends upon the life-giving foods in the grain until its tiny roots can gather nourishment from the soil's fertility.—Journal of Agriculture.

Application of Fertilizers.

When mixing fertilizers no injury will occur if they are applied at once to the soil. Even lime may be added to manure if the manure is spread immediately. It should be the object to work all manure or fertilizer into the soil with the harrow. The soil itself is an excellent absorbent of ammonia, and especially when not too dry, for which reason dry earth or muck may be advantageously used as absorbents in the manure heap.

THE PORT'S GRIEVANCE.

His Lines Were Badly Treated by the Printer and He Was Justly Indignant.

The editor was sitting in his office one day when a man whose brow was clothed with thunder entered. Fiercely seizing a chair, he slammed his hat on the table, hurled his umbrella on the floor and sat down, says Collier's Weekly.

"Are you the editor?" he asked.

"Can you read writing?"

"Of course."

"Read that, then," he said, thrusting at the editor an envelope with an inscription on it.

"That's not a B—it's an S," said the man.

"S—oh, yes, I see. Well, it looks like 'Salt for Dinner,' or 'Souls of Sinners.'"

"No," replied the man, "nothing of the kind. That's my name—Samuel H. Brunner. I knew you couldn't read. Called to see you about that poem of mine you printed the other day on the 'Success of Sorrows.'"

"Don't remember it."

"Of course you don't, because it went into the paper underneath the infamous title of 'Success of Tomorrow.'"

The editor fled.

Few College Students Die.

The death rate in colleges is extremely low. The strict attention to the physique is given as the cause. People outside of colleges, as well, may have health and strength. Hosiery's Stomach Bitters is recommended most highly for preventing as well as curing bodily weakness. It is for the blood, the nerves and all stomach disorders, and its cure of constipation, indigestion, dyspepsia, sluggish liver or weak kidneys, are most remarkable.

A Short Order.

Mr. Dobbs—I tell you, the telephone is a great convenience.

Mr. Robbs—Sure thing. Follow down to Beamer's restaurant gave me a hot roast over mine yesterday.—Baltimore American.

Quick and Convenient Schedules East Via Southern Railway.

Passengers from Middle and West Tennessee points will find the Southern Railway to be the most convenient and desirable route to all eastern cities. Double daily service is afforded from Nashville on following schedule: Leave Nashville 9:30 p. m., arrive Washington second morning at 6:45 a. m., Baltimore 8:00 a. m., Philadelphia 10:15 a. m., New York 12:45 p. m. This train is operated via Chattanooga and Asheville, and passes through that beautiful and scenic portion of North Carolina, popularly termed "The Land of the Sky." Elegant Pullman Drawing Room sleeping car is operated Nashville to New York without change, and dining car service is afforded on all trains.

Another train leaves Nashville at 3:30 p. m., connecting at Chattanooga with train leaving Chattanooga at 10:00 p. m., arriving in Washington 8:30 p. m., Baltimore 11:35 p. m., Philadelphia 2:50 a. m., and New York 6:23 a. m., and carries Pullman Sleeping Car and Day coaches Chattanooga to Salisbury and Salisbury to New York.

For further information apply to your nearest Ticket Agent.

Behind the Scenes.

Ham Lett—Are there any long waits in the piece you are playing?

Sue Brett—Rather. I've been waiting ten weeks for a chance to look at my salary.—Chicago Journal.

Deafness Cannot Be Cured by Local Applications, as they cannot reach the diseased portion of the ear. There is only one way to cure deafness, and that is by constitutional remedies. Deafness is caused by an inflamed condition of the mucous lining of the Eustachian Tube. When this tube gets inflamed you have a rumbling sound or imperfect hearing, and when it is entirely closed deafness is the result, and unless the inflammation can be taken out and this tube restored to its normal condition, hearing will be destroyed forever; nine cases of ten are cured by catarrh which is nothing but an inflamed condition of the mucous surfaces.

We will give One Hundred Dollars for any case of Deafness (caused by catarrh) that cannot be cured by Hall's Catarrh Cure. Send for circulars, free.

F. J. Cheney & Co., Toledo, O. Sold by Druggists, 75c. Hall's Family Pills are the best.

Bad Odors and Catching Diseases

are most cheaply and thoroughly prevented by the use of Bromo Chloralum, the only colorless and non-poisonous disinfectant in use for thirty years. A pint bottle from the druggists makes two and one-half gallons for regular use.

No better, safer or cheaper preventive can be found for deodorizing sick rooms, preventing spread of Typhoid and Scarlet fevers, Measles, Small Pox, Malaria, Diphtheria, vegetable or insect poisons, and purification of cesspools, drains and out-houses. A descriptive booklet and catalogue measure will be sent free to all who send postal card addressed to Bromo Chloralum Co., 81 Fulton St., New York.

Accommodating.

"I am a British subject," he said, as he signed the register with a flourish. "All right," replied the hotel clerk, "I notice any hotel junking about I'll give you the tip to rush to cover."—Philadelphia North American.

The Best Prescription for Chills and Fever is a bottle of Gnov's Tarsalium CHILL Tonic. Its simply iron and quinine in a tasteless form. No cure—no pay. Price, 50c.

Something Practical.

Many a young girl makes the mistake of thinking that because she would die for a man she really loves him. In this restless, thriving age it is necessary for her to ask herself in all seriousness: "Would I take in washing for him?"—Detroit Journal.

To Cure a Cold in One Day

Take Laxative Bromo Quinine Tablets. All druggists refund money if it fails to cure. 25c.

Fortune keeps up such a see-saw that the man for whom a town is named is liable to be found in the parlorhouse 30 years later.—Aitchison Globe.

S. R. Baldwin, Columbus, Ga., writes: I occasionally give a Teethina Powder to keep my teething child's gums softened.

Some men live and learn, while others devote their time to talking about things of which they know absolutely nothing.—Chicago Daily News.

FITTING FADLESS DYES are fast to sunlight, washing and rubbing. Sold by all druggists.

You know how freely and recklessly you talk about other people? Well, that's the way they talk about you.—Aitchison Globe.

Piso's Cure cannot be too highly spoken of as a cough cure.—J. W. O'Brien, 322 Third Ave., N. Y. Minneapolis, Minn., Jan. 6, 1903.

Under the head of "light refreshments" comes everything that feels heavy when it is down.—Aitchison Globe.

The chronic kicker usually kicks himself out of joint.—Ham's Horn.

WALTHAM WATCHES

The best and most reliable time keepers made in this country or in any other.

"The perfected American watch", and illustrated book of interesting information about watches, will be sent upon request. American Waltham Watch Company, Waltham, Mass.

A California Medicine.

THAT IS GUARANTEED TO PREVENT AND CURE

MALARIA and CHILLS and FEVER.

This is manufactured in San Francisco, California, a medicine that is sold under a positive guarantee to cure all forms of malarial poisoning, chills and fever, swamp fever, dumb ague, etc. This remedy is Casca Ferrine. It is not a secret patent medicine, but, instead, the formula of the preparation is made known to all. One of the chief ingredients of Casca Ferrine is Casca Sagrada, the bark of a small tree that grows nowhere in the world but in California. Casca Sagrada has no equal as a liver and intestinal tonic among all the drugs known to medicine. All physicians throughout the world regard it as one of the most valuable of all drugs. It is strictly tonic in its action and effect on the liver and bowels, and there is positively no reaction from its use, as is the case with every other medicine that acts specifically on the liver, such for instance as calomel, aloes, jalap, podophyllin and similar drugs. It is impossible to cure malaria, chills and fever, etc., unless the liver is kept active, and the bowels open so that the poison can be expelled from the body through these natural channels. This is one reason why Casca Ferrine is so effective in preventing and curing all forms of malarial poisoning. It acts as a natural tonic to the liver and bowels, tones them up, and in a short time places them in such a healthy condition that they will act naturally without the aid of medicine.

In addition to Casca Sagrada, the only other ingredients of Casca Ferrine are Cinchona, the bark that quinine is made from, and which is unrivalled in medicine as a general system tonic; Malt Extract, the greatest of nutrient and reconstructive tonics; Iron, the food of the blood, the use of which insures a prolific supply of red cells, and pure California Sherry Wine, one of nature's greatest restoratives.

Whenever once used for Malaria and Chills and Fever, Casca Ferrine will ever after be the accepted specific for, and safeguard against, these ailments, for the reason that it not only cures them, promptly and effectively, but it leaves no after effects.

Casca Ferrine also prevents biliousness, makes digestion perfect, enriches and purifies the blood, gently relaxes the bowels when constipated, and causes their action to become permanently regular. These results, which it can be depended upon with an absolute certainty to effect, render the system proof against malaria. Casca Ferrine not only fortifies the system against malaria, but also prevents and cures all disorders of the stomach, liver and bowels, which so often result from infected air and impure water. If your druggist does not carry Casca Ferrine in stock, write us.

CASCA FERRINE,

The Agent of Health.

Prepared in San Francisco, Cal., for The SIERRA PHARMACEUTICAL CO., of St. Louis, Mo.

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DR. MOFFETT'S TEETHINA

Alays Irritation, Aids Digestion, Regulates the Bowels, Strengthens the Child, Makes Teething Easy. TEETHINA Relieves the Bowels Troubles of Children of ANY AGE.

Costs only 25 cents at Druggists, Or mail 25 cents to C. J. MOFFETT, M. D., ST. LOUIS, MO.

BABY'S BAWLS



MAM-M-MA!! DON'T YOU HEAR BABY CRY? Do you forget that summer's coming with all its dangers to the little ones—all troubles bred in the bowels.

The summer's heat kills babies and little children because their little insides are not in good, clean, strong condition.

Winter has filled the system with bile. Belching, vomiting up of sour food, rash, flushed skin, colic, restlessness, diarrhoea or constipation, all testify that the bowels are out of order.

If you want the little ones to face the coming dangers without anxious fear for their lives, see that the baby's bowels are gently, soothingly, but positively cleaned out in the spring time, and made strong and healthy before hot weather sets in.

The only safe laxative for children, pleasant to take (they ask for more) is CASCARETS. Nursing mothers make their milk mildly purgative for the baby by eating a CASCARET now and then. Mama eats a CASCARET, baby gets the benefit.

Try it! Send for a 10c box of CASCARETS to-day and you will find that, as we guarantee, all irregularities of the little and big children's insides are

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BEST FOR THE BOWELS

10c. 25c. 50c. ALL DRUGGISTS

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Fertilizers containing at least 8 to 10% of Potash will give best results on all fruits. Write for our pamphlets, which ought to be in every farmer's library. They are sent free.

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TO ALL SUFFERERS WITH Headache or Neuralgia

We will send a package of Rogers' Headache Soda FREE. This is the best known cure in the world. It is as reliable as cooking soda. Write your name and address plainly. ROGERS' DRUG CO., Martin, Tenn.

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DROPSY NEW DISCOVERY, gives quick relief and cures worst cases. Buck's Kidney Pills and 10 drops of Treatment. Price 10c. Dr. H. H. O'NEILL'S BLOOD PURIFIER, 50c. AMERICA, Ill.

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