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acis sentify her brombility on the bowels; cleanses the system effectually; assists one in overcoming habitual constipation permanently.

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rets' for three months and being entirely cured of stomach catarrh and dyspepsia, I think a word of praise is due to 'Cascarets' for their wonderful composition. I have taken numerous other socalled remedies but without avail, and I find that Cascarets relieve more in a day than all the others I have taken would in James McGune,

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piece of the latest sheet music or a beautiful col-ored picture of the A. A. P. Exposition. Include a 2c stamp for postage. PACIFIC COAST MERCANTILE ASSOCIATION 98 Union Street. SEATTLE, WN.





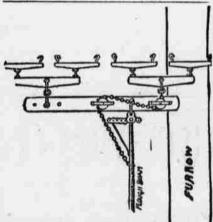
Four-Horse Evener, This particular form of four-horse evener is entered to work with one horse in the furrow and the other three on the land. To get an even draft will perhaps require some adjustment of the left hand double tree and the proper place to attach the chain to the plow beam can be found by experiment. The two double trees are of the ordinary length and the Mothers will find Mrs. Winslow's Soothing syrup the best remedy to use for their children stick used for evener needs to be tough oak and five feet four inches in length. The two pulleys should be large enough to allow a small link log chain to work through them. Two bolts are required for the pulleys, and two pieces of strap iron two inches wide, used as braces. The illustration does not indicate exactly the distances between the different points which should be as follows: From the right end to the first •••••• pulley, 7 inches; from the point of attachment of the plow to the center of right hand pulley, 151/4 inches; from the point of attachment of the plow to the center of the left hand pulley 81/2 inches. This places the two pulleys almost 24 inches apart. At the

times, may try this treatment with a certainty of astonishing results.

The ingredients can be obtained separately at all well stocked drug stores.

At any leading drug store get three sunces are any up sarsaparila compound in a half-pint bottle. Get one ounce each of the following in separate packages: Compound fluid balmwort, compound essence cardiol, and tincture cadement compound (not cardamom). Add balmwort to sarsaparilla; let stand two hours, then add other two, shake well and take a teaspoonful after each meal and one at retiring.

For an even distribution of the draft the proper point of attachment of the left hand double tree will depend sole-left the point of attachment of the chain to the plow. If the chain is carried far back, its draft will be different from what it would be if it were attached closer to the nose end of the plow. Assuming that the angle of at-For an even distribution of the draft plow. Assuming that the angle of at-



PLAN OF FOUR-HORSE EVENER. tachment of the chain to the plow is 30 degrees the left hand double tree should be attached to the main piece of the evener at a point about 261/2 inches from the point of attachment of the plow to the double tree. There is no reason why this evener should not work on any kind of plow provid ed that the lengths of the parts are adjusted to suit the distance of the point of attachment of the main tree from the furrow and that there is a rigid brace to which to attach the chain.

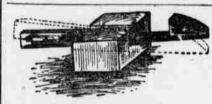
Treatment for Potato Scab. It is true that as early as 1842 a German investigator suggested that the trouble was caused by a parasitic organism, but later it was definitely determined that the fungus, Sorosporium scables, which he had isolated, was not invariably the caues of the trouble. It was not until 1890 that Prof. Bolley definitely determined that potato scab was caused by a fungus parasite. Until resistant strains could be bred up it was necessary that some temporary preventive be applied, says Farm. Stock and Home. Treatment of scabies may be made by the use of formalin or corrosive sublimate (bichloride of mercury). The latter is perhaps the most effective, but it should be handled with the greatest caution, as it is a very powerful poison when taken internally. The solution is prepared by dissolving two ounces of corrosive sublimate in two gallous of hot water. When the poison is well dissolved, add twelve gallons of water, making fourteen gallons in all. The potatoes, which should be reasonably clean, should be put in a gunny sack and the whole suspended in the solution for an hour and a half. Then empty them out on a floor to dry thoroughly before cutting and planting.

Wash for Nursery Stock. Dipping nursery stock in lime-sul-

phur wash or other insecticides has recently been much advocated as a substitute for fumigation with hydrocyanic acid gas. The station at Geneva, N. Y., finds, however, that this treatment, if used at all, must be handled with care to secure scale destruction without injuring the trees. With the sulphur wash, exposure of the trees for too long a time or at too high temperature resulted in injury; while with any of the materials used, exposure of the roots to the mixture resulted in serious injury to the stock. For nurserymen the station still recommends fumigation as most effective and least liable to injury, and would advise orchardists to use the lime-sulphur as a spray after the trees are set, rather than as a cip when they are received .- Farm

Don't use binder twine or any other kind in tying fleeces save the regular wool twine. The trade generally made extra efforts last year to have this detrimental custom discontinued, and did do much then to eradicate it. This year most of the mills and leading dealers reiterate their determination not to handle wool tied with sisal twine, as it renders the wool unfit for dyeing; hence, if growers or those preparing wool for market expect to find ready sale and top prices for their wools, they must adhere to this advice. Higher prices and active competition for the receipts, if properly and carefully handled, is confidently anticipated in this market the coming season, and shippers are also advised that in order to realize the best results consignments should be sold here on the open market, where all buyers can compete for them.

To Hold the Gate Open. A piece of timber 4x6 two feet long. with a notch in one end 3x6 inches, a piece 2x4 two feet long with one end beveled and a notch 21/2x6 inches cut in position as shown in sketch serves



HOLDS THE GATE OPEN

to hold the gate open. lines show the position of the holder as the gate is forced over the bevel. The post should be set to correspond with the height of the gate when open. If the gate drags on the ground there is something wrong; hang the gate a little bit higher. The end opposite the notch of the holder should be the heavlest so as to keep the notch in position on the gate.

Concerning Hogs. A hog is a hog frequently because he is given no opportunity to be cleanly and decent. There are farmers who believe a hog would die if not allowed to wallow in mud and filth, while others are of the opinion that the hog should have plenty of clean water. The hog needs a great deal of water in hot weather, and if he cannot get it he will take mud as the next best thing. A hog rushes to a mudhole to cool off. He comes out and the mud dries on his skin. The next mud bath he takes adds another layer to that already dried on, and in a short time the pores of his skin are completely clogged with mud. Now, a hog cannot thrive with his pores all clogged up any better than a man. If a hog has access to a deep pool of water, as he should in hot weather, he will keep dean and thrive much more than if he lies around in a mudhole made filthy by continued use. Most farmers who supply a bathing place for their hogs make them so shallow that they are soon converted into mudholes. On our farm we usually keep from thirty to fifty pigs, and they have a pool of water fed by a stream, and it is deep enough for them to swim in. The sides are dug down sharply, and were laid with cobblestones for a distance of four or five feet from the water's edge. The pool was always clean; we never have trouble with mange or lice, and when on two occasions cholera swept through the country our hogs were not affected. The hogs never used the pool unless the weather was extremely hot.

A Smooth Field. It worries the good farmer to see ris neighbors plowing the fields round and round the same way year after year. He knows that by-and-by there will be deep furrows all over the farm, and all the while these might be avoided. How? Change the order of things this spring by going out into the center of the field where the dead furrow is and turning it full the first thing. Then gee around instead of haw, as is usually done, plowing back to the place of beginning. Keep this up to the end and you will have no ditch in the middle, but a field that is nice and smooth and good to look upon. It may be a little awkward turning round to the right where one has always been in the habit of turning to the left, but you will soon get accustomed to it, and so will the horses.

Champion Holstein Bull.



Applying Lime to the Soil, As a rule all compact clay solls may be greatly benefited by the application of one ton of lime per acre, just after breaking up, either in fall or spring, and thoroughly mixed with the earth. Lime should not be applied with manure of any kind, but the latter (manure) may be applied as a top dress- be tolerated on the clothing is also ing and worked in by cultivation of emptied on the ground to drain into the crop. One application of lime the well. Most of the open wells situ-

Save the Babies.

NFANT MORTALITY is something frightful. We can hardly realize that of all the children born in civilized countries, twentytwo per cent., or nearly one-quarter, die before they reach one year; thirtyseven per cent., or more than one-third, before they are five, and one-half before they are fifteen!

We do not hesitate to say that a timely use of Castoria would save a majority of these precious lives. Neither do we hesitate to say that many of these infantile deaths are occasioned by the use of narcotic preparations. Drops, tinctures and soothing syrups sold for children's complaints contain more or less opium, or morphine. They are, in considerable quantities, deadly poisons. In any quantity they stupefy, retard circulation and lead to congestions, sickness, death. Castoria operates exactly the reverse, but you must see that it bears the signature of Chas. H. Fletcher. Castoria causes the blood to circulate properly, opens the pores of the skin and allays fever.

Letters from Prominent Physicians addressed to Chas. H. Fletcher.

in many cases and have always found it an efficient and speedy remedy." Dr. E. Down, of Philadelphia, Pa., says: "I have prescribed your Castoria in my practice for many years with great satisfaction to myself and benefit to my patients."

Dr. Edward Parrish, of Brooklyn, N. Y., says: "I have used your Castoria in my own household with good results, and have advised several patients to use it for its mild laxative effect and freedom from harm." Dr. J. B. Elliott, of New York City, says: "Having during the past six

years prescribed your Castoria for infantile stomach disorders, I most heartily commend its use. The formula contains nothing deleterious to the most delicate of children." Dr. C. G. Sprague, of Omaha, Neb., says: "Your Castoria is an ideal

medicine for children, and I frequently prescribe it. While I do not advocate the indiscriminate use of proprietary medicines, yet Castoria is an exception for conditions which arise in the care of children." Dr. J. A. Parker, of Kansas City, Mo., says: "Your Castoria holds the esteem of the medical profession in a manner held by no other proprie-

tary preparation. It is a sure and reliable medicine for infants and children. In fact, it is the universal household remedy for infantile ailments." Dr. H. F. Merrill, of Augusta, Me., says: "Castoria is one of the very finest and most remarkable remedies for infants and children. In my opinion your Castoria has saved thousands from an early grave. I can furnish hundreds of testimonials from this locality as to its efficiency,

and merits." Dr. Norman M. Geer, of Cleveland, Ohio, says: "During the last twelve years I have frequently recommended your Castoria as one of the best preparations of the kind, being safe in the hands of parents and very effective in relieving children's disorders, while the ease with which such a pleasant preparation can be administered is a great advantage."



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Water Supply in Many Cases Found Unnecessarily Polluted. E. F. Pernot, Oregon Agricultural College, Corvallia.

The condition in which I find water received from various parts of the state warrants my calling the attention of the public to the unsanitary conditions which must exist surrounding their water supply. Some samples of water taken in storile bottles under asceptic precautions, contain as high as 63,580 germs per cubic centimeter (a teaspoon holds about five cubic centimeters of water and an ordinary drinking glass about 225 cubic centimeters). A glass ful of such water would therefore contain 14,305,500 living germs. While it is true that many varieties of these germs are not directly disease producing, the continued introduction of such large quantities of them into the system lowers vitality and increases susceptibility to the disease producing types when they gain access to the body. Water containing so many organisms carries also, in solution, the ptomaines from the putrefaction of the organic matter in which they grew. These large number of organisms generally find their way into open wells by surface drainage and where they can pass, so may the disease producing types pass also.

The waters from driven wells are comparatively free from organisms. An open well is an abomination and is not in keeping with our present understanding of the laws of sanitation.

The question arises, how can we betwall it up with brick laid in cement water from such a well is as pure as moisture and suppress odor. can be obtained from the locality in which it is situated.

There are many families living in of health, but who are always ailing. The cause of ill health may, as a rule, be traced to their use of polluted water produced by the unsanitary condition of their surroundings. But few homes have proper drainage from sinks and baths, dish water is thrown out of the eack door on the ground near the well, garbage is similarly disposed of to decompose and drain into the well. Wash water containing filth that would not every five years is usually sufficient. sted near the house or barn are but

RESCENT THAT ANY POWDER WILL AKING POWOL Get it from DO AND A FULL POUND 25c. your Grocer

cesspools. It is the lowest point in from the eggs deposited by flies, from its vicinity into which liquid's drain. this they pass into the pupa stage and Frequently a privy is located within a again emerge as flies with the return stone's throw of an open well. When of warm weather. These flies enter the water table rises to the surface of our iwellings, walk upon our food and the ground, as it always does during directly transmit the organisms from the winter in Western Oregon, all sur- excreta to our food. Contanimation face water is contaminated, and, as the does not cease at that, for we have water level lowers, the open wells become reservoirs for the drainage.

of preventing the caving in of the bodies with the excreta the germs utilearth and in no sense acts as a filter. We have received samples of water from open wells, situated near barn- germs will increase its numbers fiftyyards or dwellings, which were loaded fold. with organisms that are instrumental in decomposing manure. The samples gave strong reactions of ammonia by upon an apple, or other food, will chemical analysis and were even tinted eventually contain thousands of germs. with the color of liquid manure. One This we have conclusively demonparticular sample was thus polluted strated by hatching flies in a sterile from a flower bed near the house, the box, then feeding them with bread or flower bed having been heavily manured.

In localities where water is piped into the house and there is no sewer, the other material that gives off moisture. toilets should be connected with a properly constructed septic tank and the effluent should be piped a long distance from the well and empty on the surface ter our condition. Where a well is the of the ground, where sun and air may through the fly uninjured and had mulonly means of obtaining water, let it still further purify it. If an open closbe dug to the water bearing stratum, et must be used, a concrete vault, well cemented, should be constructed, infor ten feet, arch it over with the stead of a mere hole in the ground, and pump pipe and arch well cemented in, lime frequently thrown into it to prefill the remainder of the hole, which vent the breeding of flies. Earth closmay be 15 to 20 feet, with clay well ets have been very successful and contramped down and the result will be a sist of galvanized iron trays or tubs bottomless brick jug, deep under that may be emptied away from the ground, into which no surface water, premises; dry earth or ashes should be worms nor animals can penetrate. The used in connection with them to absorb It is well known that flies breed in

human and animal manure; for example, the deposits of human excreta are the country who should enjoy the best often seen to be a crawling mass of maggots, these are the larvae hatched

definitely proven that the organisms which the flies take into their bodies The ordinary stone or brick wall of from the excreta are not destroyed by an open well only serves the purpose their digestion, and passing from their ize this excreta for food and multiply. Therefore a fly speck containing fifty

> If perchance the organism happens to be the typhoid bacillus, a fly speck sugar saturated with cultures of the typhoid bacilli, then allowing them to excrete upon apples, cabbage leaves, The fly speck, after some time, assumes the form of a colony and is found to be loaded with living typhoid bacilli, showing that they had passed tiplied abundantly in the fly's deposit.

> It is well known that milk is an ideal food for typhoid bacilli, and for that reason should be well guarded from the invasion of flies. Keep flies out of the house, especially that part where food is kept.

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