

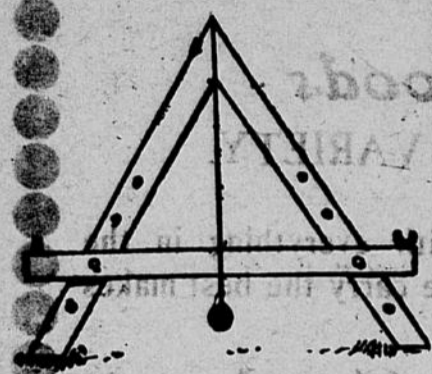
FARM AND GARDEN

A USEFUL IMPLEMENT.

Simple Device for Taking Levels for Tilling or Making Ditches for Irrigating.

I send you a drawing and description of my device for tilling or making ditches for irrigating.

Take three pieces of board, say two or three inches wide, two of them about seven feet long, one for cross-bar of triangle, near five feet long, nailed across two and a half feet from base parallel points of triangle. Hang a plummet and line from top to just below cross-bar. Get the center on the cross-bar by reversing the triangle and make a groove or fine cut in the board, so that the plummet will be in a straight line. Raise one end of triangle half an inch, make a fine mark



DEVICE FOR TAKING LEVELS.

where the plumb line then hangs; that will show a grade of one inch to the rod where the points of triangle are eight feet and three inches apart. For a grade of two inches to rod raise one end one inch. A spirit level glass imbedded in the top edge of cross-bar at the center will be handy to have when the wind blows too much for the plumb line.

To ascertain the fall or average grade of a drain, place the triangle on the surface of the ground at the outlet of proposed drain, sight lengthwise on cross-bar to an object two and a half feet from ground at upper end of drain. Where the plumb line hangs on the cross-bar will show the grade regardless of distance. After the ditch is dug place the triangle in the bottom. Moving it along will show by the hanging of the plumb across the bar the uneven places and grade.

More than 40 years ago near Nevada City, Cal., I used a triangle of this kind for an open water ditch. The points of the triangle were 16 1/2 feet apart. I found the center on the cross-bar, then raised one end two inches. The plumb line on the cross-bar gave me a grade mark. I started on the upper side of intended reservoir and outflow of ditch. I moved the front end up or down hill until the plumb line hung with the grade mark; drove a small stake, then moved the back end where the front end was and so continued around the side hill and ravines for more than a mile, which was done in one day. The ground was thrown out from upper side of stakes to lower side. The water ran freely the entire distance. The same thing can be done on many farms for irrigating, and I often see places as I pass through the country where water from springs and small streams could be conveyed with a small expense to higher ground than its present channel, and stored in reservoirs for irrigating, and not lost as it now is by running off in the creek beds. In sandy, porous soils, puddling the water with clay will form a coating to prevent the water from soaking away so fast.—J. J. Shearer, in Ohio Farmer.

ALL AROUND THE FARM

The squeaking wheel and the squealing pig show a loose spoke in the farming rig.

One of the ways to "keep cool" while working out in the sunlight is to avoid trotting.

Do not refuse to make an allowance for your wife, if you expect her to make allowances for you.

Cowpeas are grown in favor both for hay and for a manure. They are a sure crop. Such a thing as failure seldom occurs.

A farming community is judged by its roads, its fences and its buildings as well as by the crops. Have some neighborhood pride.

When the ground is too wet to plow, turn to the orchard, mend the fences, cut wood. Anything is better than to go to town and do nothing.

It is said that deep plowing in England has doubled the yield of wheat, oats and other crops. They plow as deep as 40 inches. Steam plows are used.

The best managers on the farm are not those who work all the time, but those who find some time every day for a little rest. A man will wear longer and better if he does.—Midland Farmer.

Learn to Know Your Farm. Be able to read your farm. Learn its different soils, its subterranean water levels, veins and storages, its too-wet spots, its too-dry spots and its chemical make-up. Learn every tree, shrub, vine, weed and seed found upon it. Learn its peculiarities. Having learned this much you will be in a position to plow, plant, till, mulch, rotate and fertilize with a sure touch, and to draw with profit on your resources stored in your soil. You already know these things, eh? Then Solomon should no longer hold the throne as "the wisest man." You should succeed him.—Midland Farmer.

GATHERING THE CORN.

Hints on How to Make the Labor as Light as Possible and Best Way of Saving Seed.

The time for gathering corn is upon us, and we must prepare to meet the work and have it done in due season. While the crop in most states will not be as large as last year, we should be thankful for what we have, take more interest in the work, as this job comes to us but once in a year, although it seems that some farmers try to make it extend as long through the year as possible.

I always like to begin just as soon as the corn will do to crib without danger of spoiling, and make the job come to an end as soon as possible. I like to have it out of the field before the bad weather. I want the stalk field for cattle, and I do not like the job of shucking corn in cold, wet and snowy weather. I always try to finish by Christmas; we do not have much bad weather before that time. Last year we had the worst time for gathering corn that I suppose we ever saw—nothing but rain and mud, and in order to get the corn out of the mud, we were required to wade in this mud, and a great many times the wheels would sink to the axle. Besides that, the corn was blown down very badly, and it is down some this year.

As in all other work, there is some danger in gathering corn if we do not provide means to prevent it. In this part of the country (and I suppose it is the same in other parts) during corn gathering time, it is nearly every day that we hear of some neighbor losing his best horse. A common expression: "Mr. A—lost his best horse last night." We ask what was the matter, and get the reply: "Well, he was gathering corn all day, and"—we know the rest. A 15-cent muzzle will often save a \$150 horse. I have lost a \$150 horse by just such carelessness.

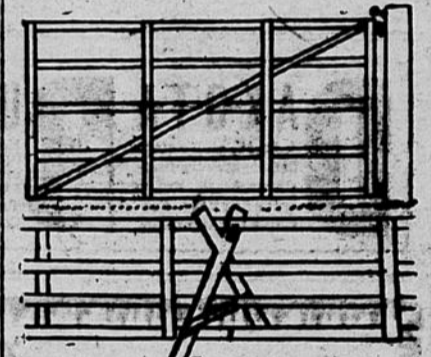
I always examine every ear of corn when feeding a horse. I shake off the worm dust on all ears that contain any. Prevention is cheaper than taking the chances of a cure. If it is convenient to use a low wheel wagon, we do so. Such a wagon is all right when the ground is solid, but always keep it out of the mud. A wide box has several advantages over a narrow. It is easier to shovel out of a wide box than from a narrow one, and we are not so apt to throw ears over as is sometimes the case when gathering on both sides; but very little of that is done, and, of course, every man who gathers alone has a high "bump" board on the opposite side of the box.

I find that while shoveling off the load is the best time to pick seed corn, I have a barrel handy and throw in the choice ears, and later, when I run these through the sheller, I discard the worst. This is a double selection. We cannot select seed corn too closely. More of this work and better work are what the farmers of this country need.—E. J. Waterstorp, in N. Y. Tribune-Farmer.

TIMELY FENCE LORE.

Now is the Time to Replace the Old Gate and to Put in Portable Fencing.

The upper figure shows a gate which an Ohio Farmer correspondent thinks the best for ordinary use on the farm, after trying different styles. The gate is 12 feet wide (long) and five feet high, made of five six by one-inch boards. If for a yard where hogs run loose the two bottom boards should be of oak, and the top one should be of



GATE AND PORTABLE FENCING.

the same wood to prevent horses, if any, from gnawing it. Bars are spaced about four inches for last, six inches for second, nine for third, eleven inches for the upper one. Three-inch strips are bolted on each side of the bars at the ends with 5-16 bolts, two bolts in each end of the upper end of the bar. At the hinge end these bolts should hold the hinge.

On one side of the bars a long tie comes from the top of the gate at the hinge end to the bottom of the other end. This is also bolted through the bars. On the other side two narrow strips are placed so that the bolt goes through the tie, a bar and one of the strips. The gate is hung with hook and strap hinges. The upper hook goes through the post with a nut on it. The lower one is driven into the post and one of the strap bolts goes through the upper end of the long tie, so preventing the gate from sagging.

In the journal mentioned is also sketched a form of portable fence, shown in the second figure. The panels are 12 feet long and the lap rests in the crotch of the X-support and a notch in the crosspiece below. If further support is needed use wire to wrap around the lap and the X. At the ends drive in a stake and wire to it. Make the panels and supports of any size or dimensions to suit your purpose.

New Corn for the Hogs. In nearly all cases in commencing to feed new corn to hogs, it is best to feed stalk and all for a time, starting when the milk is out of the grain and feeding in this way as long as the hogs chew up the stalk with an evident relish, feeding only such an amount as they will eat up clean, gradually increasing the amount as their needs seem to require.—Midland Farmer.

ADMIRAL SCHLEY ENDORSES PE-RU-NA

Pe-ru-na Drug Co., Columbus, Ohio:

Gentlemen:—"I can cheerfully say that Mrs. Schley has taken Pe-ru-na and I believe with good effect."—W. S. SCHLEY—Washington, D. C.

ADMIRAL SCHLEY, one of the foremost, notable heroes of the Nineteenth Century. A name that starts terror in the heart of every Spaniard. A man of steady nerve, clear head, undaunted courage and prompt decision.

Approached by a friend recently, his opinion was asked as to the efficacy of Peruna, the national catarrh remedy. Without the slightest hesitation he gave this remedy his endorsement. It appeared on later conversation that Peruna has been used in his family, where it is a favorite remedy.

Such endorsements serve to indicate the wonderful hold that Peruna has upon the minds of the American people. It is out of the question that so great and famous a man as Admiral Schley could have any other reason for giving his endorsement to Peruna than his positive conviction that the remedy is all that he says it is.

CURRENT TOPICS.

Massachusetts has 1,899 prisoners per million population. The southern states know but little of labor strikes in any line.

Rich asbestos mines have been discovered near Irkutsk, Siberia.

The 27 railway bridges on the Uganda (Africa) road are American.

Nearly 11,000 tuberculosis patients are now in sanatoria in Germany.

There are nearly 650,000 women dressmakers in the United Kingdom.

An elephant's jaw has been unearthed in Halleck Canyon, Wyoming.

Some first editions of Dickens' works were sold for £25 at Messrs. Sotheby's recently.

The economic structure of the Kingdom of Greece rests largely upon the currant industry.

Within eight months we have received enough emigrants from Europe to re-populate Ireland.

Within the last ten years there has been a great decrease in the number of divorces in Prussia.

The Association of Master Plumbers will hold its 1904 convention at the World's fair, St. Louis.

The most powerful automobile ever built is the Gobron-Brille racing car, having 120 horse-power.

Pullman cars passing through Kentucky will be disinfected, by order of the state board of health.

In Scotland in 1893 there were 204 insane persons in each 100,000 population; there are now 250.

Many makers are now building gas engines of 2,500 horse-power, and are ready to double this efficiency.

Henry Horn, one of the few survivors of the charge of the last brigade, has just died in London.

The first life insurance society was started in London in 1698 and another in 1700. Neither was successful.

In the ten city churches administered by the Glasgow corporation, 4,943 sittings out of 8,890 are unlet.

World's fair clubs are organizing in various parts of the country to prepare for next year's trip to St. Louis.

Permanent salvage corps to render aid in cases of accident are about to be organized by the Swiss Alpine clubs.

In the Indian territory 440,000 acres of coal lands are to be sold at auction and the proceeds divided among the Indians.

The amazing richness of the Mississippi bottom lands is due largely to the sediment deposited in times of overflow.

The income of the British post office from money in envelopes having no or insufficient address is \$30,000 or \$35,000 a day.

The postal cable manager in New York city expects, by July 1, to send messages to himself around the world in 40 minutes.

In one of the streets of Vienna workmen have dug up part of the stone flooring of a Roman house dating from the third century.

Shark fisheries on the Nicaragua coast are contemplated by an American company which will trade in shark oil, jelly and skin.

More vandalism has taken place in Lichterfelde, a suburb of Berlin, the colossal bust of Emperor William I. being totally destroyed.

Northern Nigeria is to have a new police force, 1,000 strong, recruited in the territory and on the lines of the royal Irish constabulary.

In Nuremberg, Germany, 800 workmen are employed making lead soldiers and lead toys. They turn out about 100,000 lead soldiers a day.

Gen. M. W. Ransom, a former United States senator from North Carolina, is devoting his time to farming, and this year will run about 250 plows.

Shipments of wheat from Argentina from January 1 to June 5, 1902, have amounted to 40,424,000 bushels. Last year for the same period shipments were 16,060,000 bushels.

The British national pavilion at the World's fair, St. Louis, will be a reproduction of the orangery or banquet hall of the Kensington palace, in Kensington gardens, London.

The statement that the British navy would protect British commerce in time of war seems absurd when taken with the fact that there are 6,500 British merchantmen afloat.

The sultan of Turkey has a curious hobby in regard to carriages. He has been steadily engaged in making a collection of such vehicles for the past 20 years, and now has nearly 500 of all makes and kinds.

REASSURING.

She Expected to Be in the Same "Fix" Herself and Could Therefore Sympathize.

A middle-aged man and his wife decided to take a trip to Washington, and as it was the beginning of the season, they both invested in some new clothes for the journey. Their grown-up children made fun of their "new" appearance, but it was not until they were safely settled in their seats and opened their bags that they discovered the joke that had been played upon them, relates the New York Times.

One of their offspring had filled both satchels with rice, and on taking out what they needed, the tiny grains were scattered broadcast.

Of course there was at once an amused smile on every one's face, and the mother felt herself getting redder than she had ever been in her life before, and was made no more comfortable when a German woman opposite leaned over and said quizzically: "Ach—never mind, I'm a vidder woman now, but this time next week I'll be in the same fix myself!"

Still Another Case.

Frankville, Wis., Oct. 12th.—Many remarkable cures have been reported from all over the country, but there is one right here in Frankville which is certainly worth publishing, and which has not as yet been given to the public.

Mrs. Louis Markison of this place had been a sick woman for quite a long time and could not find anything to give her any help. She suffered all the painful symptoms of what is generally known as female weakness.

Every woman who reads her story will understand these distressing conditions which combine to make the lives of many women one long burden of weakness and suffering.

Mrs. Markison changed one day to hear of a new remedy called Doid's Kidney Pills, and that was said to be a splendid medicine for women's weakness. She determined to try some and soon found herself getting better.

She kept on with the pills and was cured. Speaking of her case Mrs. Markison says: "I can and do praise Doid's Kidney Pills as a remedy for female weakness. They are the best medicine I have ever known, and have done me a great deal of good."

A Doctor's Retort.

Every doctor knows the man and woman who cultivate the habit of accusing him in the street and in the guise of ordinary conversation try to extract free medical advice. She kept on with the pills and was cured. Speaking of her case Mrs. Markison says: "I can and do praise Doid's Kidney Pills as a remedy for female weakness. They are the best medicine I have ever known, and have done me a great deal of good."

"I hear fish is an excellent brain food. Do you think so?" "Excellent," was the reply, "but in your case it is a pity to waste the fish."—London Outlook.

Same Old Bluff.—"This precipice," explained the guide, "is known as 'Lover's Leap.'" "Same old bluff, eh?" remarked the blase tourist.—Philadelphia Record.

"De unluckiest man," said Uncle Eben, "is de one dat site aroun' buildin' castles in de air, when he ought to be patchin' de roof on de summer kitchen."—Washington Star.

A thief loves honesty as a hungry man loves steak, and for the same reason—that he feeds upon it.—N. O. Times-Democrat.

I am sure Piso's Cure for Consumption saved my life three years ago.—Mrs. F. Pinos, Robbins, Norwich, N. Y., Feb. 17, 1900.

People whose nerves are on edge are incapable of cutting much of a figure.—Chicago Journal.

To Cure a Cold in One Day. Take Laxative Bromo Quinine Tablets. All druggists refund money if it fails to cure. 25c.

You cannot reach the heart with the head alone.—Ram's Horn.

June Tint Butter Color makes top of the market butter.

George Sand: Vanity is the quicksand of reason.



For Rheumatism

Neuralgia Sprains Lumbago Bruises Backache Soreness Sciatica Stiffness

St. Jacobs Oil

Price, 25c. and 50c.

PUTNAM FADELESS DYES

are as far ahead of the old fashioned Dyes as electricity is of a kerosene light. Putnam Fadeless Dyes are clean, as they neither stain the fabric nor the hands. They are guaranteed to give perfect results. Putnam Fadeless Dyes are for sale by all good druggists everywhere, or mailed direct at 10c a package. PUTNAM DRUG CO., Unionville, Pa.

Cheaper Than Staying at Home.

The man who wishes to locate in the Southwest this fall has little excuse for staying at home, so far as railroad rates are concerned. The Santa Fe announces very low one-way second-class rates to California—\$38 from Chicago, \$25 from Kansas City, \$30 from St. Louis, and proportionate reductions from the East generally. These tickets are on sale every day until November 30. They are being availed of by those wishing to settle in the San Joaquin and other great valleys of California, likewise Arizona passengers. The same line also offers a rate of about half fare, plus \$2, one-way or round-trip, to the Southwest generally, the first and third Tuesdays of each month; the last semi-monthly excursion filled every available car. On October 20 a special bargain-counting round-trip home-seekers' rate is advertised for \$20 from Chicago, and \$15 from Kansas City to central and eastern Texas and to Oklahoma, also \$5 higher to Pecos Valley, of New Mexico.

The mere sightseer will be more interested in the excursions to Los Angeles and San Francisco that are booked on the Santa Fe the latter part of October, account American Bankers' Association. The rate then, out and back, will be \$22.50 from Chicago, \$30 from Kansas City, and similarly reduced from other points. Anyone may go who has the price in his pocketbook. Special parties will take in the Grand Canyon of Arizona, on the Santa Fe, and will be personally escorted. Those wishing to try an ocean voyage can extend their trip by Oceanic line steamer from San Francisco to Hawaii and enjoy a week's outing in the isles of peace.

Promoters of Courage.

Spartacus—Women are a great incentive to manly courage. On Oct. 20th the Kansas City Southern Ry. (Port Arthur Route) will run a cheap excursion from Kansas City to St. Louis, Missouri and Kansas to Lake Charles, Shreveport, Beaumont and Port Arthur. The rate for the round trip will be \$15, limited to 21 days from date of sale, good to stop over on going trip at all points en route, provided final destination is reached inside of 15 days from date of sale. This exceptionally low rate, together with liberal stopover privileges allowed, should insure a great crowd, especially in view of the fact that this is the most delightful season of the year to visit the Southland. Similar low rates will probably be placed in effect from points north and east of Kansas City. Ask your ticket agent.

A Low Rate to Texas.

October 20th only, the M. K. & T. Ry. will have cheap tickets from St. Louis, Hannibal and Kansas City to Texas, Oklahoma and Indian Territory at rate of \$15.00 for the round trip, final limit November 10th. Rate of \$18.00 will also apply from Cincinnati, \$20.00 from Chicago. No one can afford to miss this opportunity of seeing the great southwestern country in the fullness of its glory and prosperity. For further particulars write George Morton, G. P. & T. A., M. K. & T. Ry., St. Louis, Mo.

Power dwells with cheerfulness—Emer-

International Live Stock Exposition.

Chicago is beginning to consider means for making the International Live Stock Exposition to be held this fall, better than ever held. Over \$3,000,000 of live stock were handled at the Union Stock Yard last year, almost three hundred thousand carloads of live stock being received at the Chicago stock yard during this period. This makes the city one of the greatest live stock centers in the world.

The International Live Stock Exposition has been an educational agency of the greatest value to those who have visited the show in recent years from the cattle ranges and feeding grounds of the west. These sources of supply are placed within easy reach of the city by such trunk lines of railway as the Chicago & North-Western, which brings to Chicago each year 70,000 carloads of live stock, raised and fed in the territories it reaches. The people living in this rich agricultural region, tributary to Chicago, are evincing each year more interest in the betterment of their stock. The exhibition at the Union Stock Yard during the International Exposition this fall will be one of the most notable ever seen, and its chief value will be along educational lines, looking to the improving of breeds and raising of standards, which means just so much more money in the pockets of the producer.

Full particulars as to the program of the International together with announcement of low railway rates via The North-Western Line will appear later.

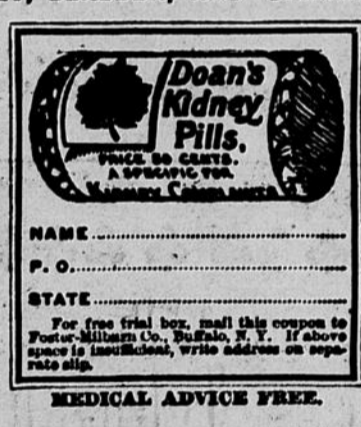
Luck is important. But for luck, the foot might never have any money to part with.—Puck.

Cheap Excursion to the South.

On Oct. 20th the Kansas City Southern Ry. (Port Arthur Route) will run a cheap excursion from Kansas City to St. Louis, Missouri and Kansas to Lake Charles, Shreveport, Beaumont and Port Arthur. The rate for the round trip will be \$15, limited to 21 days from date of sale, good to stop over on going trip at all points en route, provided final destination is reached inside of 15 days from date of sale. This exceptionally low rate, together with liberal stopover privileges allowed, should insure a great crowd, especially in view of the fact that this is the most delightful season of the year to visit the Southland. Similar low rates will probably be placed in effect from points north and east of Kansas City. Ask your ticket agent.

LET THIS COUPON BE YOUR MESSENGER OF DELIVERANCE FROM KIDNEY, BLADDER, AND URINARY TROUBLES.

It's the people who doubt and become doubtful while they doubt who are the cause of the trouble. Aching backs are eased. Hic, back, and loin pains overcome. Swelling of the limbs and dropsy signs vanish. Every correct urine with brick-dust sediment, high colored, pain in passing, dribbling, frequency, bed wetting, Doan's Kidney Pills remove calcium and gravel. Below heart palpitation, depression, headache, nervousness, dizziness, etc. "I tried everything for a week but got no relief until I used Doan's Pills." J. N. Lewis.



The reason you can get this trial free is because our kidneys are the cause of all kidney troubles and will prove it to you. WEST BRONX, N.Y.—"Doan's Kidney Pills hit the case, which was a unusual desire to urinate—had to get up five or six times a night. I think I had a well underway, the feet and ankles swelled. There was an intense pain in the back, the head of which would feel like putting one's hand up to a lamp chimney. I used the free trial and two full boxes of Doan's Pills with the satisfaction of feeling that I am cured. They are the remedy par excellence." B. F. Ballard.

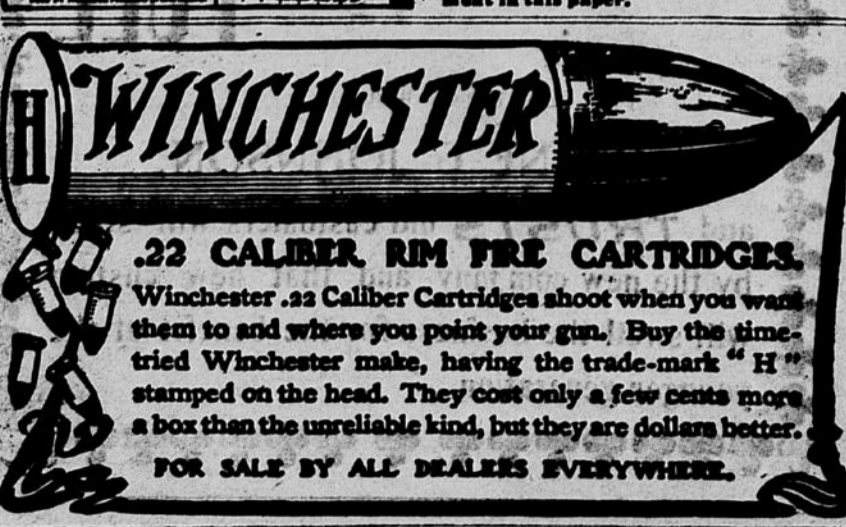


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WOMEN MADE SKILLFUL NURSES, in Midwifery and diseases of Children, by correspondence. WRITE FOR FULL PARTICULARS TO A. AUGUSTUS LINDABURY, M.D., 111 SCRANTON, PA.

PILES ANAKESIS gives relief and positive cure. For free sample address to A. B. Koenig, 1111 Broadway, New York.

LIVE STOCK and ELECTROTYPES in great variety for sale at the lowest prices by A. B. Koenig, 1111 Broadway, New York.



Winchester .22 Caliber Cartridges shoot when you want them to and where you point your gun. Buy the time-tried Winchester make, having the trade-mark "H" stamped on the head. They cost only a few cents more a box than the unreliable kind, but they are dollars better. FOR SALE BY ALL DEALERS EVERYWHERE.