

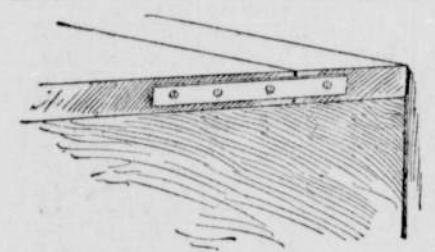


Homemade Hinges.
One frequently needs a great number of small hinges in making chicken and other coops. The two sketches given herewith show homemade hinges that are better than leather and cheaper than the hardware dealer's steel butts. The one shown first is made of screw eyes, inserted with a round rod of wood



SCREW EYE HINGE.

or wire running through them. Screw eyes come in all sizes so that almost any strength of hinge can thus be made. The two eyes can be placed close together and wired with fine wire if desired. Occasionally a bit of hard wood and a few screws will make a very serviceable hinge, attached as shown in the second picture, which tells its own story. Have the wood stout enough so

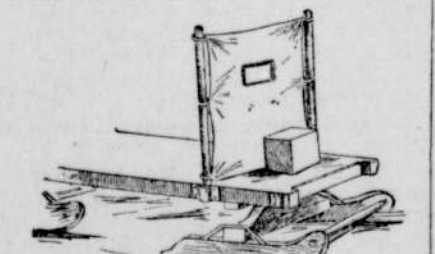


STRAP HINGE.

that the screws will not split it, and use round-headed screws for the pivot if possible.—New England Homestead.

Apple Pomace as Feed.
There is considerable nutriment in pomace as it comes from the mill. Stock will eat it quite readily if fed before it begins to ferment. This, however, it does very soon if exposed to the air. Consequently it is best to place the pomace in air-tight barrels or hogsheads, so as to keep air from it, and cover the pomace with something that will hold down the carbonic acid gas and prevent its escape as it forms. This is really ensilage. The pomace itself has not nutritive value to make this worth while. Its chief value is its succulence, and it should be fed with grain, hay or meal, so as to give the proper proportion of nutriment. When put up in air-tight barrels and kept slightly below freezing temperature there will be no more fermentation in the pomace than there is in the silo, and it can be used till late in the winter.

Windbreak for the Driver.
Drivers in winter often suffer severely and unnecessarily from the cold winds. Returning home without a load the wind has a chance to blow upon them unhindered. Have two small stakes and four holders for them, as shown in the sketch. Provide a stout piece of duck and sew rings to it as suggested. A small glass with its wooden frame can be inserted, and two small openings made for the reins. If the wind is in front, at either side or at the driver's back, he has simply to change the stakes and his sheet of duck to escape its fury. When not in use the sheet can be folded, with the glass in-



DRIVER'S WINDBREAK ON SLED.

side, and placed in the box used as a seat. Such a contrivance will save much suffering and can be had at a very slight cost.—Orange Judd Farmer.

Why Fattening Stock Eat Straw.
Domestic animals like variety in feed as much as does man himself. Possibly they are more partial to variety than are men and women, because the taste of animals is less vitiated. A fattening steer or sheep which is fed highly nitrogenous food will eat a good deal of bright grain straw, so as to supply the proper proportion of carbonaceous nutriment. When animals are fed corn, less straw will be eaten, as the corn is itself chiefly starch, which is only another form of carbon. For sheep that are fed beans and bean straw, the straw of wheat or oats will be eaten almost as readily as hay. It is needed to prevent the nitrogenous ration being too concentrates.

Ordering Nursery Stock.
To make sure that an order can be filled it should be sent in at as early a date as possible. It is best to order for spring delivery in the early winter. The order will be filled, and the rule in all nurseries is first come first served. In the North all nurserymen take up their

out-of-door stock early, and hill it in so as to be able to fill orders from the South during the winter season. This is really much better than taking stock from nursery rows. When the trees are hilled in and properly protected from frost their roots will begin to start before winter is over, and they can be planted much more safely than stock recently dug.

Corn on One Acre.
How much corn will an acre of land produce? The Illinois State Board of Agriculture offered prizes for the largest crop on one acre, and twelve persons succeeded in raising over one hundred bushels each. The first prize was won by Mr. John Powers, with a yield of 166 bushels per acre, Mr. E. S. Fursman coming second with 160 bushels. The next ten persons produced, respectively, 150, 144, 143, 142, 116, 110, 108, 103, and two others 100 bushels each, the average of the twelve being 128 1/2 bushels per acre. The best fertilizer for corn was conceded to be a previous crop of clover, depending upon deep and early plowing, fine seed bed and shallow but thorough cultivation.

Experiments with Fertilizers.
The New York experiment station made some experiments in the use of fertilizers on potatoes, twenty-two plots being tested, on which fertilizer was applied at the rate of from 1,000 to 2,000 pounds per acre, two plots receiving 1,500 pounds per acre and one plot received no fertilizer at all. The 1,000-pound application increased the yield over the unfertilized plot 48.4 bushels per acre the first year and 33.6 bushels the next season. The 2,000-pound application increased the yield only 4.4 bushels over the 1,000 application of the first year and 14.1 bushels the next. The tests demonstrated that the use of over 1,000 pounds of fertilizer per acre would be at a loss.

Take the Cow on Trial.
When purchasing a cow always endeavor to take her on trial. No one can judge of the capacity or characteristics of a cow by appearance. Pure bred stock, however, is more uniform than scrubs. A cow may be a hard milker, a kicker and her milk may be deficient in solids or fat. No one sells a good cow unless compelled, and the purchaser takes risk in buying. Every cow brought on a farm should be known to the purchaser, as she may have disease or some other fault.

Protector for Shrubs.
A convenient method for protecting rose bushes and many small shrubs is shown herewith. All barrels that have lost both heads are saved and used for this purpose. Two small stakes are driven down, and a string attached, as shown in the sketch, to keep the wind from blowing them over. Straw is then put inside about the bush, making very warm and wind-tight winter quarters. A board, or a piece of burlap, can be tacked over the top to support the weight of the snow, if desired.

Cottonteed Meal for Fertilizer.
It is told in the New England Homestead that a New Hampshire farmer has proved beyond doubt that cottonteed meal is superior to phosphate as a fertilizer on light, warm soil. He uses less of the meal than of phosphate in a drill, and has raised from 200 to 300 bushels of potatoes to the acre and the heaviest crop of silo corn ever grown in his locality. Mixed with hen manure and ashes, the meal has proved excellent when seeding down.

A Hen's Egg Production.
About 150 eggs per year is estimated as the production of a hen, if the flock is small and well cared for, but with large flocks an average of 100 eggs per hen for one year is about correct, as disease, lice and mismanagement cause loss. The fowls on farms give larger profits in proportion to capital represented than larger stock, but are more neglected, and, therefore, do not give as large profits as could be derived from them.

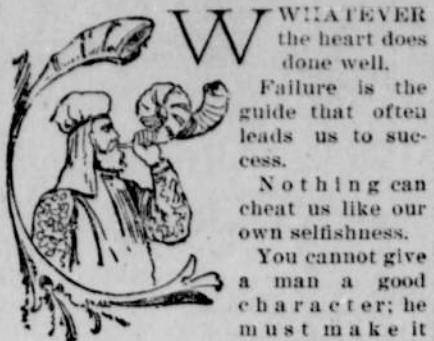
Preparation for Winter.
Summer farming is but a preparation for winter. Food is cheaper in summer, but prices are lower. While the pasture is a valuable aid to the dairyman, it is sure to cheapen prices at times when grass is abundant, the market being regulated by the supply. The best dairymen grow crops for use on the farm in winter, preferring to feed their produce at the barn and convert it into milk and butter in winter, when higher prices rule.

Cement.
If you have a cement floor with breaks that must be mended, don't expect to get the new cement to adhere to the old without chipping out all loose parts of the old, cleaning it all out carefully and soaking it well with water. Then the new work will be good and stay good in connection with the old.

Potatoes to Be Higher.
The average per acre of potatoes for 1897 is less than seventy bushels, and prices will be much higher than for several years.

RAM'S HORN BLASTS.

Warning Notes Calling the Wicked to Repentance.



WHATEVER the heart does done well. Failure is the guide that often leads us to success. Nothing can cheat us like our own selfishness. You cannot give a man a good character; he must make it himself.

Can any good come out of Chicago? Just as much as is put into it. Honor your wife and your honeymoon will last a life time.

Put out a fool's eyes and he will say that the world is blind. Heaven is not altogether like society; fewer people want to get into it.

What a world this will be when all the children are as well cared for as the cattle and pigs. The devil likes to hear the man talk in church who treats his mule better than he does his wife.

Were the Golden Rule enforced by some competent authority what a wave of commotion would rock the world. "All things work together for good to them that love God." Even the devil had to work with all his might to help double Job's riches.

INTERPRETED LAW.
The use of the words "I hereby assign the within note" is held in *Markey vs. Corey* (Mich.), 36 L. R. A. 117, insufficient to prevent one who signs his name to such a statement on the back of a promissory note from being held liable as an indorser.

On the other hand, it is held, in *Spencer vs. Halpern* (Ark.), 36 L. R. A. 120, that one is not liable as an indorser where he places over his signature the words "I hereby transfer my interest in the within note." With these cases are collected the other authorities on the liability of the assignee of a promissory note as an indorser.

The fact that a train was running at high speed in violation of law and in breach of the promise of the engineer made to a boy who intended to jump off it, held, in *Howell vs. Illinois Central Railroad Company* (Miss.), 36 L. R. A. 545, insufficient to render the railroad company liable for injury to the boy, when he attempted to get off, knowing the danger.

Negligence in pointing a gun at another and pulling the trigger is held, in *Babel vs. Manning* (Mich.), 36 L. R. A. 523, to be unaffected by the fact that the person doing it had used the ordinary means himself of unloading the gun and satisfied himself that it was unloaded. But the fact that the person injured failed to protest or get out of the way when he saw that the gun was about to be snapped and had time to do so was held to constitute such contributory negligence as would preclude his recovery of damages from the other.

An aged woman riding in a funeral procession in a carriage driven by her daughter-in-law, when it was struck by a street car at a crossing, is held, in *Johnson vs. St. Paul City Railway Company* (Minn.), 36 L. R. A. 586, to be not chargeable with negligence, although she did not look or listen for approaching cars, but relied entirely upon the driver.

A conveyance to a railroad company, releasing all damages sustained or which shall be sustained by reason of the "construction, building or use" of the railroad is held, in *Fremont, E. & M. V. Ry. Co. vs. Harlin* (Neb.), 36 L. R. A. 417, insufficient to preclude the grantor from recovering damages for the negligent maintenance and operation of the road; but the release is treated as equivalent in this respect to a judgment of condemnation.

An Ugly Missile.
Lord Salisbury still keeps as a souvenir in a cabinet at Hatfield an ugly-looking stone of over a pound in weight, with which the window of a carriage in which he was seated with his two daughters was smashed at Dumfries on the evening of Oct. 21, 1884. His lordship had been delivering a series of political speeches in Scotland, and in the streets there was an attempt at rioting. The occupants of the carriage were, fortunately, unhurt, but the ladies took the missile home with them.

Wouldn't Be Insulted.
"That is a curious custom they have in some of the South Sea Islands," said Mr. Wallace, "of marrying a girl to a tree or some inanimate object, which is supposed to act as a sort of scapegoat for the shortcomings of the real, live husband." "It is not absolutely unique," said Mrs. Wallace, "for a woman in this country to be married to a stick." But Mr. Wallace, with the calm superiority of the masculine mind, refused to deem it a personal matter.

The Sunflower.
City farmers should give attention to the possibilities of the sunflower. A man in Brooklyn who owned a suburban tract planted it in sunflowers and obtained 100 bushels of seed to the acre. He expects to get from each bushel two and one-half gallons of oil, worth \$1.25 a gallon, or over \$300 an acre. The pressed seeds and fiber also have a value.

Sea Life.
The forms of sea life in the upper portion of the ocean waters may descend to a depth of 1,200 feet or so from the surface; but there then succeeds a barren zone, which continues to within 300 to 300 feet from the bottom, where the deep sea animals begin to appear.

KNOCKED OUT.

It knocks out all calculations of attending to business in the right way for a day when we wake up in the morning sore and stiff. The disappointment lies in going to bed all right and waking up all wrong. There is a short and sure way out of it. Go to bed after a good rub with St. Jacobs Oil and you wake up all right; soreness and stiffness all gone. So sure is this, that men much exposed in changeable weather keep a bottle of it on the mantel for use at night to make sure of going to work in good luck.

Long Distance Signaling.
The Greenwich observatory has been put into telegraph communication with that of the McGill college, Montreal, and the signals can be flashed between the two places, a distance of 3,300 miles, in three-quarters of a second.

THE LAST MAN ON EARTH
To recklessly experiment upon himself with hope of relief is the dyspeptic. Yet the nostrums for this malady are as the sands of the sea, and pressure, about as efficacious. Indigestion, that obstinate malady, even if of long perpetuity, is eventually overcome with Hostetter's Stomach Bitters, an appetizing tonic and alterative, which cures constipation, fever and ague, bilious remittent, rheumatism, kidney complaint and febrileities.

An even cubic foot of average soil was weighed and analyzed at Cornell University. It was found that the soil in one acre one foot deep weighed 2,082 1/2 tons.

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 fac-simile 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.

Lightning rods may be valuable if large enough and insulated sufficiently to carry a way a bolt of lightning. The common lightning rod is not of much use.

HOME PRODUCTS AND PURE FOOD.
All Eastern Syrup, so-called, usually very light colored and of heavy body, is made from glucose. *Ten Garden Syrup* is made from sugar cane and is strictly pure. It is for sale by first-class grocers, in cans only. Manufactured by the PACIFIC COAST SYRUP CO. All genuine "Ten Garden Syrup" have the manufacturer's name lithographed on every can.

In a recent lecture Professor Bergmann, of Berlin, stated that in 50 cases of perforating the skull for epilepsy, he knew of only one permanent cure.

"King Solomon's Treasure," only Apophthalmic Tonic known. (See Dictionary.) \$5.00 a box, 3 each's treatment. Mason Chemical Co., P. O. Box 747, Philadelphia, Pa.

Firelighters are made in Germany by twisting wood into a rope, cutting it into short lengths, and dipping the ends of the pieces into melted resin.

I believe my prompt use of Pisco's Cure prevented quick consumption.—Mrs. Lucy Wallace, Marquette, Kans., Dec. 12, 1895.

Try Schilling's Best tea and baking powder. The oyster is one of the strongest creatures on earth. The force required to open an oyster is more than 900 times its weight.

Awful Warning.
A Spanish woman kissed her pug dog and died of hydrophobia last week. The retributions of Providence for lack of sense are often mysterious and severe.—Pomona Progress.

MRS. PINKHAM'S VICTORY

Mrs. Sidney Hamlet. Cured by Lydia E. Pinkham's Vegetable Compound.

RED HOUSE, VA.—To Mrs. Pinkham: "My heart goes out in sympathy to all who are suffering with troubles peculiar to the female sex.

"I would like to express my gratitude for what your Vegetable Compound has done for me. I have been a sufferer since girlhood; did not then know the cause of dreadful sick headaches and other troubles. I could not take long walks, lift or carry anything heavy, and was very nervous. "Last summer I was almost an invalid; could not walk across my room without pain. I sent for your physician. He pronounced my case a bad one of 'Prolapsus Uteri,' congestion and ulceration of the womb, and said I was to be laid up. I was so distressed to find myself so helpless and useless to my family; I saw your Compound advertised and thought I would try it. I took several bottles, and used the Sanative Wash and Pills as directed, and now I am as strong as I ever was, and do all my own housework. I can walk more than a mile without any inconvenience. Oh! I am truly grateful. I cannot write the good you have done me. Words are inadequate to express it. May God bless you for the good you are doing."—MRS. SIDNEY HAMLET, Red House, Va.

MEN WHO ARE WEAK BROKEN DOWN DISCOURAGED
Men who suffer from the effects of disease, overwork, worry, from the follies of youth or the excesses of manhood, from unnatural drains, weakness or lack of development of any organ, failure of vital forces, unfitness for marriage, all such men should "come to the fountain head" for a scientific method of revivifying power to vitalize, develop, restore, and sustain. We will mail without charge in a plain sealed envelope a pamphlet that tells it all. Nothing sent unasked. No expense, no deception. Address ERIE MEDICAL CO., 65 NIAGARA STREET, BUFFALO, N. Y.

PISCO'S CURE FOR
CURES WHERE ALL ELSE FAILS.
Best Cough Syrup. Tastes Good. Use in time. Sold by druggists.
CONSUMPTION

Last Chance!
The \$2000.00 missing-word contest closes December 31st. Result will be announced about January 15th.

Schilling's Best baking powder and tea are because they are money-back.

What is the missing word?—not SAFE, although *Schilling's Best* baking powder and tea are safe.

Get *Schilling's Best* baking powder or tea at your grocers'; take out the ticket (brown ticket in every package of baking powder; yellow ticket in the tea); send a ticket with each word to address below before December 31st.

Until October 15th two words allowed for every ticket; after that only one word for every ticket.

If only one person finds the word, that person gets \$2000.00; if several find it, \$2000.00 will be equally divided among them.

Every one sending a brown or yellow ticket will receive a set of cardboard creeping babies at the end of the contest. Those sending three or more in one envelope will receive an 1898 pocket calendar—no advertising on it. These creeping babies and pocket calendars will be different from the ones offered in the last contest.

Better cut these rules out. Address: MONEY-BACK, SAN FRANCISCO.

POWER ...FOR... PROFIT

Power that will save you money and make you money. Hercules Engines are the cheapest power known. Burn Gasoline or Distillate Oil; no smoke, fire, or dirt. For pumping, running dairy or farm machinery, they have no equal. Automatic in action, perfectly safe and reliable. Send for illustrated catalog.

Hercules Gas Engine Works
Bay St., San Francisco, Cal.

Hercules Special
(2 1/2 actual horsepower)
Price, only \$185.

Cooking by Solar Heat.
The various experiments made with solar engines by the French in Algeria, where the sun is never overclouded and shines with great power, have been attended in some instances with marked success. The best apparatus is stated to be a simple arrangement of boiler and concave mirror, the steam generated being condensed in a coiled tube surrounded by water, this being intended merely for distilling water. But in India an inventor has contrived some machines with which more varied results are accomplished. One of these, says the Philadelphia Record, is what is termed a cooking-box, made of wood and lined with reflecting mirrors, at the bottom of the box being a small copper boiler covered with glass to retain the heat of the rays concentrated by the mirrors upon the boiler. In this contrivance any sort of food may be quickly cooked, the result being a stew or boil if the steam is retained, or if allowed to escape it is a bake. The heat with this device may be augmented indefinitely by increasing the diameter of the box.

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 is 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 out of ten are caused 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.

Only one person in 15 has perfect eyes, the larger portion of defectiveness prevailing among fair-haired people.

Germany and China.
The foreign office at Pekin says that when the bandits killed the two missionaries it ordered the governor of Shanghai to arrest the culprit, and the capture of four of them was effected, but meanwhile, indeed only one day before, the Germans landed troops and occupied the forts.

The Germans still occupy Kiao Chau, a place of great strategic and commercial importance, and show no disposition to abandon it, but, on the contrary, appear to have seized upon the murder of the missionaries as a pretext for obtaining and permanently occupying a very desirable position upon the Chinese coast, and so clear is this determination that China has appealed to Russia to interfere in her behalf against Germany. Germany reinforced her squadron in the Chinese waters on the heels of this seizure of Kiao Chau bay, and it is reported that as long ago as 1895 one of our warships on the Chinese coast was applied to by a German vessel for charts of these waters, and particularly requested detailed charts of the harbor of Kiao Chau. The Germans verified these charts, and made more extended surveys of the place, and when "the German naval officers at that time discussed the probability of their occupying that port, the murder of German missionaries was not mentioned."

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grow paying crops because they're fresh and always the best. For sale everywhere. Refuse substitutes. Stick to Jerry's Seeds and prosper. 1898 Seed Annual free. Write for it. D. M. FERRY & CO., Detroit, Mich.

Kodaks
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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.

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. DOWNING, HOPKINS & CO., Chicago Board of Trade Brokers. Offices in Portland, Oregon and Seattle, Wash.

NORTHERN SEEDS ILLUSTRATED CATALOGS FREE
Buell Lamberson 180 FRONT ST. PORTLAND, OR.
GROWN \$681
Mrs. WILLOW'S SOOTHING SYRUP should always be used for children's coughing. It soothes the child, softens the gums, allays all pain, cures wind colic, and is the best remedy for diarrhoea. Twenty five cents a bottle. It is the best of all.
RODS for tracing and locating Gold or Silver Ore, lost or buried treasures. \$2, 12, 20 W. L. E. K., Box 25, Southington, Conn.
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