

WANT HELP TELLING.

...village so small.
...so large.
...the Atlantic to the Pacific.
...known for all that is truthful,
...that is reliable, are attached to the
...thankful letters.
...come to Mrs. Pinkham, at
...Mass., and tell the one story of



...salvation gained through the
...of Lydia E. Pinkham's Vegetable
...sound.
...the horrors born of displacement or
...of the womb:
...ache, bearing-down, dizziness,
...of coming calamity, distrust of
...friends.
...all sorrows and sufferings of
...The famed "Vegetable Com-
...bearing the illustrious name
...has brought them out of the
...of suffering to that of happiness
...fulness.
...one advertisement alone we re-
...published thirty testimonials
...women in one small town who
...gained health through its use.

SAVES YOU MONEY

...as Restoring Your Strength
...and Giving You Health to
...Enjoy Life.



...OF ALL CURES—real
...and so-called—
...none is so certain
...in its effects as Dr.
...Sanden's Electric
...Belt.
...YOU HAVE SQUANDERED YOUR
...money feeding the quacks who live upon
...it, it is hard to make you believe
...advised remedy is good. Some men
...judge against anything advertised.
...only the cures shown to have been per-
...fectly cured by Dr. Sanden's Electric Belt must com-
...pulsorily suffer. They prove that it
...is all else fails. It would be better to
...every simple and highly recommended
...before spending time and money with
...because a fair trial of it will make it un-
...nary to use any other remedy. Dr. San-
...den's Electric Belt costs no more than one
...dollar bill, \$5, \$10 or \$15, according to
...and hundreds in this city say it is
...as much. Call and see it, or
...the book, "Three Classes of Men." It
...is sealed by mail, free.

SANDEN ELECTRIC BELT CO.
...West Washington St., Portland, Or.
...Please mention this paper.

Portland Agricultural College...
...OF OREGON

SCIENTIFIC EQUIPMENT
...THE BEST IN THE STATE.
...training by United States officer,
...many instructors.
...soundings healthful and moral.
...No incidental fees!
...rooms, including board, room, clothing,
...ing, books, etc., about \$130 per school year.
...Full Term Opens September 20.
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...THOMAS M. GATCH, Pres.,
...Corvallis, Oregon.

Portland Business College
...Portland, Oregon...

ARMSTRONG, L.L.R., Prin. J. A. Wesco, Sec'y
...THE BUSY WORLD OF BUSINESS
...employment to hundreds of our graduates, and
...to thousands more. Send for our catalogue,
...tells what and how we teach. Verily,
...A BUSINESS EDUCATION PAYS

BALL GOODS Special Rates TO CLUBS.

...the most complete line of Gymnasium
...and Athletic Goods on the Coast.
...UNIFORMS MADE TO ORDER.
...Send for Our Athletic Catalogue.

WILL & FINCK CO.,
...Market St., San Francisco, Cal.

WORM expelled in from 17 minutes
...two hours with head, requiring no
...or after treatment, such as fasting,
...ing, dieting, and the taking of nauseous
...vomitous drugs, causing no pain, sick-
...ness or bad after effects. No loss
...or detention from business.

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A Summer Milkhouse.

In the summer time a milkhouse built like the one in the illustration is very convenient. It is adapted to situations where there is no natural spring, but where the water must be pumped around the milk. A man who has tried a small house of this kind says of the one he built: It is 6 feet square and 6 feet high at the eaves, which is large enough for the milk of two or three cows. The house is built under a large grape arbor, about 20 feet from my kitchen pump. The milk tank, which is 12 inches deep and 14 inches wide at the top, extends along the north side. It has a screen cover, which may be covered with cloth in



SUMMER MILKHOUSE.

very hot or dusty weather. A table with a shelf underneath occupies the southeast corner. A space just above the level of the tank, 2 feet wide and extending on all sides of the house, is covered with wire screen. Shelves above the screen and below the tank give sufficient room for milk and butter dishes. The milk is set in pails. A galvanized iron pipe leads from a small tank at the side of the pump down 18 inches below the surface of the ground, across the 20 foot space and up again to the level of the milk tank. An overflow pipe at the other end of the tank carries off the water after it has reached the proper height in the tank. Another pipe, at the bottom of the tank, is used for emptying it when desired.

Handling a Bulky Fodder-Cron.

In cutting ensilage or fodder, a little work transferred from hand to horse power often goes a great way to lessen expense. In the illustration, which is taken from Farm and Home, a simple method is shown of unloading fodder or hay. Two ropes about 50 feet long, depending on the length of the rack and height of load to be drawn, are used, one end of each being fastened to the hind axle of the wagon. They are then passed back and over the top of the rack between the two outer boards on either side. While loading, the ropes may be brought back under the outside of the rack and fastened almost any place on the rear part. When the load is completed, the ropes are drawn over the fodder and tied to the back of the rack, acting in the capacity of a binding pole. To un-



UNLOADING FODDER MADE EASY.

load, fasten the ropes to a beam, and with the team draw the wagon slowly out from under the load. The first few times may not always prove success-ful, but with a little practice the wagon may be unloaded in a few minutes.

Injury from Over Pruning.

Most of our American varieties of grapes are very strong growers, and will not bear the severe pruning to which German and French vineyard-ists subject their vines. We plant our vines farther apart than do European vintners, and must leave proportion-

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soil, and the cost is repaid by the in-crease in weight of the animals. If the farmer can make the gain from the animals pay for the feed there will be a fair profit left in the manure heap. But this profit is valuable according to the manner in which the fertilizing elements are preserved while in the heap. It is in the management of the manure that the profit is retained and future crops increased.

Straighten the Stream.

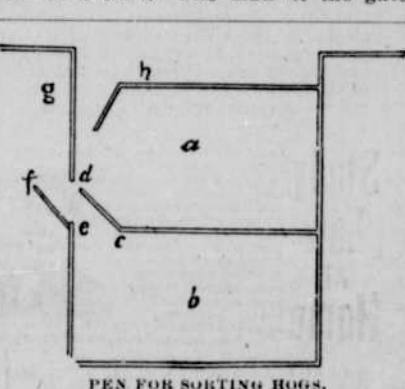
It does not matter much how crooked the little stream may be that meanders through pasture lands. But if the field is to be cut for hay, or especially if it is desired to use the land for plow-ing, it is important to have the brook straightened, so as to take as little room as possible. In many places a straight, deep ditch, cut to lead off a stream that only runs in the spring, may be profitably turned into an under-drain. A space a foot square each way, with an even fall, will carry off an im-mense amount of water. If large, flat stones can be got for covering and heavy stone for siding such a drain is not expensive. The convenience of plowing over it and the land saved will make it pay.

How Plants Get Water.

The fact that in wet weather the soil dries slowly even when covered with plants that ordinarily drain the soil rapidly, leads some to think that when wet the leaves absorb moisture on them. But the fact can be equally well accounted for by the knowledge that water on the leaves prevents them from evaporating the moisture brought from the soil by roots. This soil con-tains some mineral elements which unite with carbonic acid gas from the air in forming plant tissue. While the leaves are wet they cannot absorb car-bonic acid gas. This with the effect of stopping evaporation, makes the sap growth which many, jumping too quickly at conclusions, think must be caused by the direct absorption of wa-ter through the leaves.

For Sorting Hogs.

A sorting pen is most convenient when a herd of hogs is to be divided. Mine, says a correspondent of the Or-ange Judd Farmer, is built alongside a partition fence; a and b represent the two compartments. The hogs are driven from the pasture through the gates at d and e into b. To sort them, one man stands at d and operates the gates d c and e f. Another man gets into the pens and drives the hogs out, one at a time. The man at the gate



PEN FOR SORTING HOGS.

turns them into the pasture, g, or into the pen, a, as desired. If the hogs are coming in a string three feet apart, they can be put where wanted by simply swinging the gates. Recently we started in with a bunch of about 100 and sorted out 55 in 15 minutes with-out a mistake.

Fancy Farmers.

"Fancy farmers," or the owners of "fancy" stock, are frequently ridiculed, but it is due to their willingness to im-prove stock and their persistency in ad-hering to their belief in something bet-ter than scrubs that the farmer is bene-fited. The man of capital goes on with his improvement of stock, and may suffer loss at first, but after a while he begins to make profits, the farmers be-ing lifted up with him, as the farm on which improved breeds are specialties becomes a fountain source from which superior animals are distributed in all directions.

Farm Notes.

In all breeding defective points are more easy of reproduction than desir-able products.

One great help in killing out weeds is not to allow any to mature seeds. Look after this now.

The triple income from a flock of sheep, wool, lambs and mutton come in at different seasons.

System in feeding and breeding to and for correct standard is essential in the management of all stock.

Allowing weeds to grow is robbing the soil of needed plant food and moist-ure. Keep the weeds down.

A hog is not necessarily a filthy ani-mal, and if he is to make meat for food it is essential that he should be cleanly raised.

Keep the young pigs growing during the summer while on good pasture, and it will be much easier to fatten them in the fall.

When wheat is to follow corn it will lessen the work of seeding very ma-terially if the cultivation of the corn has been clean and thorough.

Cut wheat when the grain begins to harden well, and shock up as fast as cut. Wheat requires but little curing and should be stacked soon after cut-ting.

The sprouts which grow up around the base of a tree from the roots should be cut out as fast as they appear, as they appropriate plant food that should nourish the tree. They are also un-sightly and destroy the appearance of an orchard.

Growers who raise cucumbers for market say the first crop from a par-ticular field is better than any subse-quent one. The soil becomes filled with enemies of the crop and a change is necessary. Some growers find it ad-visable to take new soil every year.

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HAD A VERY QUICK EYE.

A Man Surprises Another Man Who Writes a Letter.

The typewriter was clicking away at a great rate, and a man was sitting near watching the flying fingers of the operator. He was waiting to see the attorney who was the employer of the operator, and when the attorney finally entered the visitor did not observe his approach.

"Hello," exclaimed the proprietor of the office, "what are you looking at my typewriter so absorbingly for? Have you been dreaming that he was a lovely maiden in disguise, or some other fairy story like that?"

"No," replied the visitor, "I was just trying to realize how difficult a feat I saw a man perform yesterday, down at one of the hotels, where there is one of the fastest operators in town."

"What did he do? Jump a board bill?"

"No, that's easy. What he did was different. A man who was with him had some sort of trade on, I don't know what, but just before they proceeded to conclude it, the other man said he wanted to write a letter to his partner in Chicago. He had it already drafted in pencil, and he took it over to the far side of the writing room and handed it to the operator, saying to be care-ful, as it was very important, and to get it done at once. Then he joined the other man, but before they began talking a third party called the first man aside for a short talk. As these two talked, the operator at the machine clicked at the letter, and the man who was waiting for some reason, watched the operator very closely as her fingers flew over the keys.

"The letter was finished at least three minutes before the talk was, and when that was done the operator handed the man the letter in an envelope duly addressed and went back to her ma-chine. The man put the letter in his pocket just as it was handed to him.

"I hope you will pardon me," he said, turning to the waiting man, "for so much delay, but it was unavoidable. However, I'm ready now to close with you at the prices named."

"And I'd see you hanged before I'd sell to you at any price," said the other man in a suppressed tone, greatly to the surprise of the man with the letter in his pocket.

"In another minute there would have been a fight on, but I rushed in, as did another party, and in the excitement the man with the letter got away and disappeared. In response to our in-quiries as to what it was all about, the man told us that he had made a study of training the eye to quickness, and that he practiced it whenever he saw a typewriter at work. He had so per-fected himself in it that he could fol-low the fingers of the fastest operator, and he could read whatever he might happen to be writing. In this case he had done the same without thought, because the man with whom he had the trade on was engaged for the mo-ment. Before he had read five lines of the letter, however, he discovered that the man was making arrangements with his partner in Chicago to swindle him out of \$5,000. It was a cold-blood-ed case of steal, and the wonder to him was that he hadn't hit the scoundrel first and told him why afterward.

"That was all there was to it," con-cluded the visitor, "except that we tested him and found he could do what he said, and now, if you don't think it is a difficult feat, you watch your op-erator as she flies along some time at sixty words a minute, and see if you can read the letters her fingers dance among."—Washington Star.

"Sure Cures" for Hiccoughs.

For the common afflictions, such as colds, everybody knows a "sure cure." When it was announced that a New Jersey farmer was dying of hiccoughs, which had lasted a fortnight, though the doctors tried fifty different medi-cines, two or three scores of persons wrote to volunteer advice. He was told to inhale nitrate of amyl; to drink the juice of canned huckleberries; to rely on the "faith cure"; and other odd remedies were offered, for example:

1. Lie down, stretch your head back as far as possible, open your mouth wide-ly, then hold two fingers above the head so high that you have to strain the eyes to see them. Gaze intently upon them, and take long, full breaths.

2. Drink vinegar, or warm pit of stom-ach.

3. Eat a raw onion while drinking a bottle of old stock ale.

4. I suggest that you do something to make yourself sneeze.

5. Draw air into the stomach through the throat.

6. Good drink of fresh, warm milk, drink with breath at intervals.

7. Brandy and laudanum at frequent in-tervals, or very strong calamus tea.

8. Swallow a few lumps of butter slowly.

9. Fortunately, the sufferer did not have to take everything that the well-mean-ing public proposed. He was cured by eating a small dish of ice-cream.

Statistical Item from Texas.

It is estimated that 124,000 babies have been born in Texas so far this year. If all the colic they have suffered could be gathered together in one pain-ful car loads of soothing sirup would not be sufficient to relieve it. Estimat-ing that each baby has been walked twenty miles, it appears that the com-bined distance walked has been 2,480,000 miles. If one parent had been com-pelled to do the walking for this in-fantile crop of 1897 it would have been necessary for him to average twenty miles a day for 339 years eight months and twenty-five days, and the distance would have equalled ten times the cir-cumference of the earth.—Galveston News.

Snow at the Equator.

At the equator the limit of perpetual snow is 14,700 feet.

Morphine Fiends in America.

A Parisian work on the morphine habit says it is most prevalent in Ger-many, France and the United States, and, strange to say, that the medical profession furnishes the largest number of morphinists, 40 per cent. Men of leisure come next with 15 per cent, then merchants, 8 per cent. Of 1,000 fiends 650 were men and of the female victims women of means furnished 43 per cent and wives of medical men 10 per cent.

NEXT TO AN APPROVING CON-SCIENCE.

A vigorous stomach is the greatest of mundane blessings. Sound digestion is a guaranty of quiet nerves, muscular elasticity, a hearty ap-petite and regular habit of body. Though not always a natural endowment, it may be ac-quired through the agency of Hostetter's Stomach Bitters, one of the most effective invigorants and blood purifiers in existence. This fine tonic also fortifies those who use it against ma-laria, and remedies biliousness, constipation and rheumatism.

A magnetic well of great power has been struck at Bowersville, five miles south of Jamestown, Ohio. The well was drilled 140 feet deep, and at this depth the drill became so magnetized that particles of iron clung to it.

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 constitu-tional remedies. Deafness is caused by an in-flamed 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 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.

We excuse our selfishness by assum-ing our greater need.

Piso's Cure for Consumption is our only medicine for coughs and colds.—Mrs. C. Beltz, 439 8th Ave., Denver, Col., Nov. 8, '95.

John Pratt wore at his funeral in Holden, Me., the other day, a fine pair of calfskin boots made for him in 1862 and worn every Sunday since.

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 bottle of 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 *Chas. H. Fletcher* on the and has the signature of *Chas. H. Fletcher* wrap-per. No one has authority from me to use my name except The Centaur Company of which Chas. H. Fletcher is President.

March 8, 1897. *Samuel Pitcher, M.D.*

Do Not Be Deceived.

Do not endanger the life of your child by accepting a cheap substitute which some druggist may offer you (because he makes a few more pennies on it), the ingredients of which even he does not know.

"The Kind You Have Always Bought" BEARS THE FAC-SIMILE SIGNATURE OF *Chas. H. Fletcher*

Insist on Having The Kind That Never Failed You.

THE CENTAUR COMPANY, 27 MURRAY STREET, NEW YORK CITY.

"A perfect type of the highest order of excellence in manufacture."

Walter Baker & Co.'s

BREAKFAST COCOA

Absolutely Pure—Delicious—Nutritious.
Costs Less than One Cent a Cup.

Be sure that you get the genuine article, made at

DORCHESTER, MASS.

...By...
WALTER BAKER & CO. LTD.

Established 1780.

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

Hercules Special (2 1/2 actual horsepower) Price, only \$135.

Bay St., San Francisco, Cal.

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.

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Send for illustrated catalog.

Hercules Gas Engine Works

Hercules Special (2 1/2 actual horsepower) Price, only \$135.

Bay St., San Francisco, Cal.

August 31st

is the last day of the \$1000 missing word contest.

Schilling's Best tea is wonderfully fresh and fine.

Rules of contest published in large advertisement about the first and middle of each month.

Nicola Tesla, the electrician, says that he has practically perfected an ap-paratus by which telegraph messages may be sent without wire. He pro-poses to give a demonstration of his mastery of the electric currents.

Paris harbors a widow, Mme. Jules Lebaudy, who inherited from her hus-band \$25,000,000. As she disapproves of the way in which he made his for-tune, she refuses to use it contenting herself with an income of 6,000 francs.

Make money by suc-cessful speculation in Chicago. We buy and sell wheat there on mar-gins. Fortunes have been made on a small beginning by trading in futures. Write for full particulars. Best of references given. Several years' experience on the Chicago Board of Trade, and a thorough knowledge of the busi-ness. Downing, Hopkins & Co., Chicago Board of Trade Brokers. Offices in Portland, Oregon, Spokane and Seattle, Wash.

WHEAT

Make money by suc-cessful speculation in Chicago. We buy and sell wheat there on mar-gins. Fortunes have been made on a small beginning by trading in futures. Write for full particulars. Best of references given. Several years' experience on the Chicago Board of Trade, and a thorough knowledge of the busi-ness. Downing, Hopkins & Co., Chicago Board of Trade Brokers. Offices in Portland, Oregon, Spokane and Seattle, Wash.

PORTLAND UNIVERSITY

LITERARY, normal, busi-ness, musical, art, theological and preparatory courses. State diplomas (or normal course). Twenty-eight in-structors, 327 students. Location beautiful, slightly, in the suburbs, with all the advantages of a great city and none of its disadvantages. Free from saloons and immoral places. Board-ing halls connected with school. Government mild but firm. Expenses for year from \$100 to \$200. School opens September 21, 1897. Cata-logue sent free. Address, THOS. VAN SCOY, D. D., University Park, Or.

CHILDREN TEETHING.

Mrs. Widdow's Soothing Syrup should always be used for children teething. It soothes the child, soft-ens 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.

RUPTURE AND PILES cured; no pay un-til cured; send for book. DR. MANFIELD & PORTERFIELD, 338 Market St., San Francisco.

N. P. N. U. No. 33