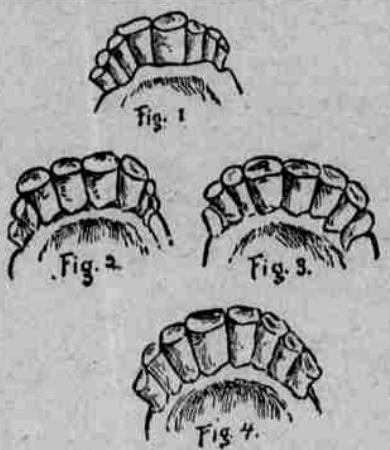




FARM AND GARDEN

A country cannot continue to be populated or highly civilized when its forests, or their equivalent in coal, are lost to it. But this loss has been experienced by many nations. The whole Eastern world was once well wooded. Roman and Greek writers assure us of this. Vast regions of Europe and Asia, by wars and wantonness and imprudence, have been stripped of their forests. A belt of woodland stretching from the Pyrenees to the Himalayas has been swept away, and that whole region, once fertile and populous, now barely sustains a people scanty in numbers. It is a significant fact that great deserts now occupy the original seat of the human race, and extend on every route of their migrations. Humboldt is reported as saying "Men in all climates seem to bring upon future generations two calamities at once—a want of fuel and a scarcity of water." The two come alike from the destruction of the forests.

How to Tell a Sheep's Age.
The Breeder's Gazette, in reply to a correspondent, says that a sheep's age cannot be determined with precision from the appearance of the animal's teeth. Periods of dentition vary a few months. In general, the lamb has eight small teeth for from 12 to 16 months. At the end of this time he cuts two large teeth, as at Fig. 1, when he is said to have "a yearling mouth." At something less than 2 years (generally) there are four large permanent incisors, as at Fig. 2. At about 30 months there are six permanent incisors, as at Fig. 3, and the other two come at about 36 to 42 months, as at Fig. 4, when the sheep is said to "have a full mouth."



TEETH OF SHEEP AT DIFFERENT AGES. From this date the age is guessed at by the amount of wear on the grinders.

Hoed Crops on Sod.
So far as possible the farmer ought to have sod land on which to grow all hoed crops. He cannot usually make nearly enough manure to fertilize all that he wants to plant to corn or potatoes. If there is a sod to be rotting during the summer a moderate dressing of commercial fertilizers will insure as great success as he could usually depend upon with a dressing of manure on land that has been naked through the winter. Possibly the sod may not equal in value the plant nutrition furnished by a dressing of stable manure, but the sod will be more sure to rot if the season be dry, and thus make up in availability what it lacks in fertilizing power. If the sod be mainly of clover, the fertility it will add to the soil will be as great as is given with the manure dressings, especially if applied just after the land is plowed.

A Poultry House Device.
Where fowls are kept in confinement whether the season be summer or winter they must be furnished green food in the form of cabbage, turnips, beets or cut clover. These should not be



POULTRY HOUSE DEVICE.

thrown loosely into the pen to become quickly soiled, but put into a rack with sloping sides, like that shown in the sketch. The hens reach through the slats and eat what they desire. The top slopes so that they cannot roost upon it. If filled with cabbages, etc., they will come down to the hens as fast as eaten.

Dwarf Peas and Apples.
Thin fruit, allowing not more than forty to sixty specimens to remain on each tree. The fruit will grow to a fine size, and the strength of the tree will not be taxed. Pinch the forward branches in, keeping the tree compact and symmetrical in form. Fruit for exhibition should be carefully grown, allowing not more than one peck to the

tree. Fork the earth up all around the tree, and then cover the ground as far out as the branches extend with one inch in depth of rotted horse manure. If the weather should prove dry, water freely every evening.

Four Milkers.
Success in dairying must depend not only on having cows able to give a liberal mess and keep at it, but also on the kind of milkers employed. A careless, lazy milker will easily lose more than his wages during the time he is employed. Not only this, but he will quickly convert a really good cow into a poor one. The milk which the careless milker leaves in the udder is always that which has the largest amount of butter fats. If it is not drawn the fat is reabsorbed into the cow and helps to dry her off. The difficulty in getting help that can be depended on is the great drawback in running a large dairy farm. It is also no light job to milk ten, twelve or more cows twice every day. It will make any man's hands tired until he becomes used to it.

Cider and Cider Vinegar.
Where summer apples are plentiful it is more profitable to make them into cider, and then into vinegar. A hand mill can be had for \$10 that will make from two to three barrels per day. After the juice is pressed out mix the pomace with mill-feed, and feed it to the cows when fresh. Fill the barrels full of cider and set them in the sun to ferment. Keep the barrels full. After fermentation ceases add two gallons of strong old vinegar to each barrel, and put in three strips of brown paper saturated with common molasses. Cover the bung-hole with gauze wire. By the following spring excellent vinegar may be had. Never add water to the cider, as it injures the strength and flavor of the vinegar.

Sheep Among Growing Corn.
It is the practice of good farmers now to cultivate both corn and potatoes much longer than used to be thought advisable. The reason is that the modern cultivation is shallow and does not disturb the roots. But where a piece of either corn or potatoes is weedy a few sheep may be put into the field after midsummer with no danger whatever that they will injure the crop. Almost any other stock will attack both corn and either the potato tops or roots. Sheep will not eat either. Usually only the ram was put in some time in July, and was not taken out until the corn was ready to harvest. After corn is cut sheep will attack the corn ears. While it stands they seldom do this.

For Hog Plague.
The following is the prescription recommended for hog plague by Dr. Salmon, of the Bureau of Animal Industry: One part wood charcoal; one part sulphur; two parts sodium chloride or common salt; two parts sodium bicarbonate; two parts sodium hypophosphite; one part sodium sulphite; one part antimony sulphite. Pulverize and mix thoroughly. Dose—One tablespoonful for each two hundred pounds weight of hog ceuce a day.

Wash Feed Grain.
If one will wash a feed of oats or corn, there will be seen an amount of filth and trash that would astonish the man who thinks he feeds clean grain to his horses. Try washing, and let the grain dry or nearly so before feeding. There are evidences that soaked corn and oats are more profitable, more easily and thoroughly digestible than the same amount fed dry.—Western Agriculturist.

The Horse Does This.
A good horse can travel 400 yards in four and a half minutes at a walk, 400 yards in two minutes in a trot, and 400 yards in one minute in a gallop. The usual work of a horse is taken at 22,500 pounds raised one foot per minute for eight hours per day. A horse will carry 250 pounds twenty-five miles per day of eight hours.

Among the Poultry.
Have troughs in which to feed all soft feed. If your hens lay soft-shelled eggs they need more lime. The sitting hen now has the floor. Take care of her. Is there not room for a flock of geese on your farm? Study the situation.

A warm feed for breakfast goes a long way in inducing hens to lay now. When the combs and wattles of the fowls are of a bright red color it indicates a condition of health. When the manure is hard and a portion is white, it indicates a healthy condition of the digestive organs.

When the fowls are busy scratching, the hens laying and singing and the cocks growing, these are signs of good health. When you can enter the hen house after dark and hear no wheezing it proves there are not any rumpy fowls in the flock.

A generous application of lime on the chicken yard and in the sheds and runs is now in order. It may prove a cheap prevention of disease. When fowls are judiciously fed, made to take exercise, and their quarters kept clean and free from lice, there is comparatively no trouble with sickness, except in cases of contagion.

This is Different.
"Love makes the world go round." The world seems to go round, but love makes your head swim; that's the explanation.—Boston Transcript.

Hundreds of experiments have been made to determine whether toads could live when enclosed in blocks of stone, and in every case the toads died before the end of the second year. A Venetian firm is making bonnets of spun glass, which are soft and as pliable as silk.

GROSS OUTRAGES

Upon the stomach and bowels are perpetrated by multitudes of injudicious people who, upon extending the anatomy of constipation in a slight degree, irritate their bowels with dressing evacuations, which enfeeble the intestinal mechanism, and, in some cases, sometimes, even, superinduce dysentery or piles. Hostetter's Stomach Bitters is the true succedaneum for these nostrums, since it is at once invigorating, gentle and effectual. It also banishes dyspepsia, malarial complaints, rheumatism and kidney troubles.

The Athens check factory is to be operated by electricity. This is the first cotton factory in Georgia to use electricity as a motive power.

There is more Catarrh in this section of the country than all other diseases put together, and until the last few years was supposed to be incurable. For a great many years doctors pronounced it a local disease, and prescribed local remedies, and by constantly failing to cure by local treatment, pronounced it incurable. Science has proved Catarrh to be a constitutional disease, and therefore requires constitutional treatment. Hall's Catarrh Cure, manufactured by F. J. Cheney & Co., Toledo, O., is the only constitutional cure on the market. It is taken internally in doses from 10 drops to a teaspoonful. It acts directly on the blood and mucous surfaces of the system. They offer one hundred dollars for any case it fails to cure. Send for circulars and testimonials. Address, F. J. CHENEY & CO., Toledo, O. Sold by druggists.

Two bottles of Pico's Cure for consumption cured me of a bad lung trouble.—Mrs. J. Nichols, Princeton, Ind., Mar. 26, 1885.

Three million five hundred thousand steel pens are used throughout the world every day in the week.

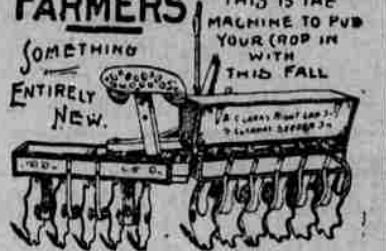
THREE HAPPY WOMEN

Relieved of Periodic Pain and Backache. "Before using Lydia E. Pinkham's Vegetable Compound, my health was being gradually undermined. I suffered untold agony from painful menstruation, backache, pain on top of my head, and ovarian trouble. The compound entirely cured me.—Mrs. GEORGE WASS, 923 Bank St., Cincinnati, O.

"For years I had suffered with painful menstruation every month. One day a little book of Mrs. Pinkham's was thrown into my house, and I sat right down and read it. I then got some of Lydia E. Pinkham's Vegetable Compound and Liver Pills. I can heartily say that to-day I feel like a new woman; my monthly suffering is a thing of the past. I shall always praise the Vegetable Compound for what it has done for me.—Mrs. MARGARET ANDERSON, 363 Lisbon St., Lewiston, Me.

"Lydia E. Pinkham's Vegetable Compound has cured me of painful menstruation and backache. The agony I suffered during menstruation nearly drove me wild. Now this is all over, thanks to Mrs. Pinkham's medicine and advice.—Mrs. CARRIE V. WILLIAMS, South Mills, N. C.

The great volume of testimony proves conclusively that Lydia E. Pinkham's Vegetable Compound is a safe, sure, and almost infallible remedy in cases of irregularity, suppressed, excessive, or painful monthly periods.



FARMERS' PLOW AND SEEDER COMBINED.

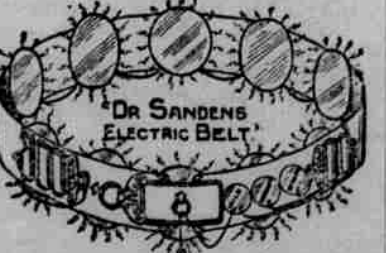
Thoroughly works the soil to a depth of 5 to 8 inches. Leaves no Plow Crust. Places the seed 2 to 4 inches down, thoroughly covered with light, loose soil. Every farmer that has used it RECOMMENDS IT.

MITCHELL, LEWIS & STAYER COMPANY
FIRST AND TAYLOR STS., PORTLAND, OR.

General Agents for Oregon, Washington and Idaho.

Portland Business College
... Portland, Oregon ...
A. P. ARMSTRONG, LL.B., Prin. J. A. WESCO, Sec'y
THE BUSY WORLD OF BUSINESS
gives profitable employment to hundreds of our graduates, and will to thousands more. Send for our catalogue. Learn what and how we teach. Verily,
A BUSINESS EDUCATION PAYS

Manly Power
The Strength, Activity and Brain Power of Manhood are Restored to Weak Men Who Use Doctor Sanden's Electric Belt.



Every Belt has an electric suspension free for weak men. It has a Patent Regulator for making current mild or strong.

Dr. Sanden's Electric Belt is today the acknowledged means of recovering the power of manhood. It fills the nerves with new life; it increases the brain power, and removes all the weakening effects of indigestion, excesses, etc., in fact, restores your strength.
Are You Weak?
It will cure nervous debility in any form, for electricity is the life of the nerves and makes them strong. It checks all waste of power in two weeks. It cures all kidney and bladder troubles, rheumatism, lame back, etc. Send for our medical work, illustrated, "Three Classes of Men," free. Address
SANDEN ELECTRIC BELT CO.
253 West Washington St., Portland, Or.
Please mention this Paper.
REPAIRS AND FILES cured; no pay unless cured; send for book. DR. SANDEN'S & PORTLAND, 253 Market St., San Francisco.



She—So you don't like that hat just in front of us? How would you like it trimmed? He (savagely)—With a lawnmower.—Tit-Bits.

The Captain (boisterously)—Come, old man, brace up! What's got into you? Passenger—If you don't put me ashore you'll very soon see.—Life.

"Poor, motherless girl!" he exclaimed, and turned sadly away. What he wanted was a motherless girl who should be in moderate circumstances, at least.—Puck.

Scotch.—McSporran leaving home—Noo, Janet, dinna forget to mak' leetle Sandy tak' his glass e'e out when he's na lookin' at aething.—New York Truth.

She—Oh, James, how grand the sea is. How wonderful! I do so like to hear the roar of the ocean. He—So do I, Elizabeth. Please keep quiet.—Lustigen Blaetter.

Cholly Ricketts (tragically)—Refuse me, dearest, and I shall enter a monastery and be a monk. Maude Summerflirt—Monastery. Don't you mean a menagerie?—Puck.

"Joking aside, madam, two girls have gone insane from love of me—and you say you really cannot love me?" "No, baron." "Third case of insanity!"—Fliegende Blaetter.

Old Millyuns—Young man, my daughter tells me you kissed her last night. Percival Tootles—Well, if she wants to go bragging about it, that's her privilege.—Chicago Record.

Wenry Willie—Et you had a million dollars, Fields, wd would you do w' it? Flowery Fields—W'y, I wouldn't do nutt' w' it—I'd jest rest easy and let it do sutt' n' w' me.—Truth.

"Everybody seems to be on an equality in Klondike," said the shoe-corker boarder. "Yes," said the Cheerful Idiot, "one man can cut as much ice as another up there."—Indianapolis Journal.

Mr. Gotrox—What would you expect me to do for my daughter if you married her? George Goodthing (slightly embarrassed)—You—wouldn't be willing to die for her, would you?—Judge.

"Paw," asked the little boy, "what is a brain-worker?" "A brain-worker," said the old man, "is a man who has to spend all his salary in dressing up to the position he holds."—Typographical Journal.

Isaacstein—Dot was a queer t'ing wd happened to Rosenbaum's shire. Dere was a purgery undt a small fire der same night. Cohenstein—Yes; Rosenbaum toldt me dot he came outt shoost even.—Puck.

"Papa," said Billy, tearfully, after a playful romp with the good-natured but rather rough St. Bernard puppy, "I don't believe Bingo knows what kind of a dog he is. He plays as if he thought he was a little pug."—Bazar.

Young Lady—You are a wonderful master of the piano, I hear. Professor von Spieler (dired for the occasion)—I blay agcompaniments sometimes. Young Lady—Accompaniments to singing? Professor von Spieler—Agcompaniments to conversations.—Tit-Bits.

Mrs. Newlywed—That is our new burglar-alarm—you see, if a burglar should get into the lower part of the house, that would ring. Her mother—Oh!—and scare him off? Mrs. Newlywed (doubtfully)—Well, it might; but it would give Clarence and me plenty of time to hide in the attic, anyway.—Puck.

First Assistant (in Daily Hustler office)—It strikes me that the editor is becoming decidedly absent-minded. Second Assistant—Why do you think so? First Assistant—Why, in that long article on the wonderful progress of mankind during the reign of Queen Victoria, he never once mentioned the increase in the circulation of the Hustler.—Puck.

Electric Light on Battlefields. Special attention is being given by the French military authorities to the questions of succoring the wounded on battlefields when night comes on after a great battle. Experiments have been made with powerful electric arc lights, but the apparatus has conditions. At length it has been practically determined that the ambulance corps men shall wear little incandescent glow-lamps in their hats, just like ladies of the ballet in a spectacular extravaganza. Each man is to carry a little primary battery in his pocket for the production of the current. The wounded in need of succor will look out for the little moving lights, and if possible drag themselves toward them.—Paris letter.

Everlasting Fence Posts. Fence posts treated under the following manner will last a lifetime or more. Posts that have been in the ground seven years, when taken out, were as good as when they were first put in the ground. This is the recipe. Take boiled linseed oil and stir it in pulverized charcoal to the consistency of paint. Put a coat of this over the timber.

A Magnetic Hill. On the island of Canna (situated northwest of the Island of Bute) there is a hill so magnetic as to affect the compasses of vessels passing near.

Rome's Cemetery. The most extensive cemetery in the world is that at Rome, in which over 6,000,000 human beings have been interred.

Every woman in telling of her sickness says she "suffered everything."

Closed August 31st

That Schilling's Best tea missing-word contest closed August 31st.

We shall announce the winners and the word at the first possible moment.

A \$2000.00 missing-word contest begins at once.

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

What is the missing word? Every ticket taken from Schilling's Best baking powder or tea is good for one guess at the missing word.

Send your ticket with your guess and name and address to

MONEY-BACK, SAN FRANCISCO.

Big Telegraph Cable Contract. The largest telephone cable contract ever given is reported from St. Louis as a result of the telephone wires being placed under ground in that city. The statement that the contract covers 650,000 feet of cable containing fully 100,000,000 feet of No. 19 B. & S. copper wire, 2,000,000 pounds of lead casing and thousands of pounds of paper insulation can only be appreciated by comparisons. Six hundred and fifty thousand feet equals about 124 miles, or about the distance from New York along the coast to Cape May, or the very end of New Jersey. The small wires, if applied together, would reach nearly half round the earth, the total length being 18,000 miles. One thousand tons of lead would equal in weight a solid prism of castiron ten feet square and 45 feet high.

HOME PRODUCTS AND PURE FOOD. All Eastern Syrup, so-called, usually very light colored and of heavy body, is made from glucose. "The Golden 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 "You garden Syrup" have the manufacturer's name lithographed on every can.

Foreign Cardinals. Cardinal di Rende's death, according to the London Tablet, has made the number of foreign cardinals greater than that of the Italian for the second time within twelve months. There are now 31 of the former to 30 of the latter, a state of things which, until within a few years, had not occurred for many centuries.

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. 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 it. 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, 77 MURRAY STREET, NEW YORK CITY.

Walter Baker & Co.'s BREAKFAST COCOA. Absolutely Pure—Delicious—Nutritious. Costs Less than One Cent a Cup. DORCHESTER, MASS. ...By... WALTER BAKER & CO. Ltd. Established 1870.

DO YOU WANT SEEDS. Get them at headquarters. I carry by far the largest assortment on the coast. Remember the best is always the cheapest. Send for catalogue. E. J. BOWEN, 201 and 203 Front St., Portland, Or.

HALF LAMBERT CHERRIES 1 Yr. 25c. 2 Yr. 50c. Free CATALOGUE—Free—Send for it Buell Lamberson, Portland, Oregon.

Drugs... Patent Medicines at Cut Rates... WOODARD, CLARKE & CO. Wholesale and Retail Druggists, Portland.

BASE BALL GOODS Special Rates to CLUBS. We carry the most complete line of Gymnasium and Athletic goods on the coast. SUITS AND UNIFORMS MADE TO ORDER. Send for Our Athletic Catalogue. WILL & FINCK CO., 818-820 Market St., San Francisco, Cal.

WEAKNESS OF MEN Quickly, Thoroughly, Forever Cured. by a new perfected scientific method that cannot fail unless the case is beyond human aid. You feel improved every day, soon know yourself a king among men in body, mind and heart. Drains and loses ended. Every obstacle to happy married life removed. Nervous force, will, energy, when failing or lost, are restored by this treatment. All weak portions of the body enlarged and strengthened. Write for our book, with explanations and proofs. Sent sealed, free. Over 5000 references. ERIE MEDICAL CO., AS NIAGARA ST., BUFFALO, N. Y.