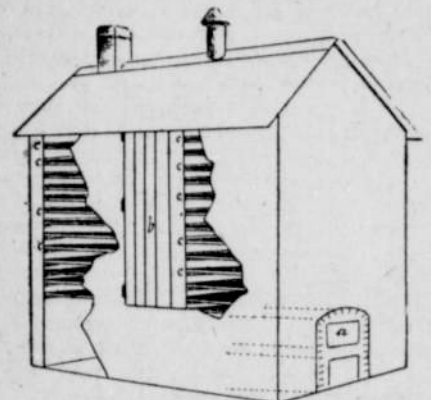


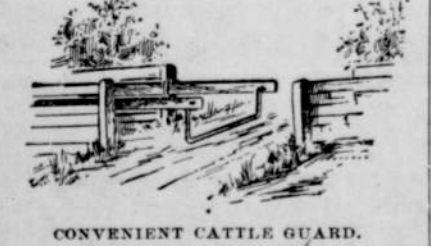
Evaporate the Surplus Apples.
Waste of the fruit crop is one of the causes of greatest loss. Many who cannot dispose of the crop in a fresh state allow it to rot or feed it to stock. I have found it profitable to evaporate what apples could not be sold fresh and so constructed an evaporator. The plan was original with me and has worked to perfection. The building is 8 feet long, 4 feet wide and 9 feet high to the eaves. The walls are of good hard brick and 8 inches wide. The fire box (a) is in the end opening on the outside. In the center of one side is a door 2 feet wide (b) extending down 6 feet from the eaves or to within 3 feet of the ground. This leaves space 3



A HOME-MADE EVAPORATOR.

feet wide on each side for trays (c) which are 2 feet square and made of 1 by 1 1/4 inch material, the bottom being covered with fine wire mesh. A framework extends entirely around the room of 2 by 3 inch material, nailed 6 inches apart, to support the drier frames. When a frame is filled, it is easily slid into a place either on the right or left of the door. Close the ventilator in the roof when the sulphur is put in to bleach the apples. The firebox (a) is 10 by 10 inches square, 3 feet long, arched with one 4 inch thickness of brick. The firebox walls are 4 inches thick. Cold air is admitted on both sides of the fire box through flues 4 inches wide, passing from the rear of the box to the front of it and passing into the frame room just in front of fire or smoke flue. As shown in the ground plan, the smoke passes from the firebox to the left, back to the front, over the fire box, along the end wall, then the side wall, round the end wall to the chimney. In a larger building a larger fire box and larger frames are needed. Any good bricklayer ought to be able to put up this building.—Farm and Home.

Pasturing Across a Highway.
Many farms are so situated that the cattle must be driven across a highway to pasture. This almost always affords trouble. The cattle will break away up and down the highway to feed by the roadside, instead of crossing the road directly from the pasture gate to the lane leading to the barn. A device is shown herewith that may prove of assistance in such cases. A narrow lane is built on each side of



CONVENIENT CATTLE GUARD.

the road, extending well up to the carriage track but not close enough, of course, to prove any inconvenience to travelers. Two long bars of this boards are then fitted to slide across the highway when the cattle are to be driven across, and then back again, out of the way of travel. A bent rod of iron connects the two ends of the bars, so that both can be slipped across the road at once, the bend in the rod permitting it to rest upon the ground so that the cattle can pass over it. To operate this takes but a moment's time.—Orange Judd Farmer.

Thinning Fruit.
Midsummer is the best season for thinning all the larger fruits. Just before the seed begins to form nature does a great deal of this thinning, and it is perhaps as well to wait until all the fruit that will naturally fall has fallen. Then pick off the surplus fruit wherever it seems to be superabundant. In most cases this thinning does not decrease the amount of fruit because it so largely increases the size of individual specimens. It is the best fruit that always pays best. That always means fruit that has been judiciously thinned.

Musty Hay.
Much of the baled hay that comes to market is musty. Most farmers when they bale hay think it need not be very dry, as the bales are small. But the amount of hay packed in them is always sufficient to get up a violent

ferment unless the hay is properly dried before it is put into the bale. If there were more care used in baling hay the price for it would be much better than it is, as the hay itself would be better worth it.

Time to Cut Timothy.
Timothy grass is usually left too late before it is cut. It does not have the nutrition of clover at any stage, and if left until its seed ripens, much that was nutrition earlier is changed to woody fiber. The common mistake is made of allowing the head to blossom. Then it needs to ripen its seed so as to get beyond the blossom stage. Old horsemen say that timothy seed is very nutritious. It would need to be to produce any effect, as it is a very small part of the head. What really keeps up the strength of timothy-fed horses is the cut feeding that goes with it. The best time to cut timothy is just as it comes into head and before it blossoms. The hay will not weigh so much then, but it has more available nutrition than it will have later.

Pruning Tomatoes.
According to a writer in Farm and Fireside, where the tomato vine is trained to a single four-foot stake the ripening of the tomato may be slightly delayed, yet the increased size and excellence of the fruit more than compensate for the brief delay in ripening. Presuming, then, that a five-foot split stake has been firmly set at each plant and the tomato vine has already been tied to the stake with common twine, a daily look-out must be kept for the suckers which put out from the main stalk and retard the proper development of the tomato plant. The sprouts, or auxiliary suckers, which push out from the base of the upper side of each of the side branches must be resolutely pinched off, or broken off if the pinching has been delayed too long. If this is done and the vines have been tied to the stakes with not less than three strings, as the growth has been continuous, the vine when in bearing will appear as shown in Fig. 1.

If, as it sometimes occurs, a second branch or stem is allowed to grow from near the ground, the result will be as shown in Fig. 2. By keeping all superfluous growth pinched back, this will grow nearly or quite as large as the main stalk, simply forming a fork. Both stalks are to be tied to a single stake, unless it is deemed desirable to let the side branches spread out upon the ground, where they will continue to grow and ripen fruit after the staked vines have ceased bearing. These will continue to bear fruit until after the first killing frost. On the approach of frost it has become customary by many truckers to pull up the vines and spread them in a well sheltered place and cover them with litter, so as to allow the ripening process to go on. This late crop is often more profitable than that of the staked vines near the close of the tomato season.

Dragging After Plowing.
Almost always it is good practice to harrow plowed land as soon as possible after it has been plowed. In turning the furrow there are inevitably large air spaces left under it, which except in very early springtime, dry it out much too quickly to make a good, mellow and moist seed bed. It is all the worse if the soil is clayey in texture and has been plowed when too wet. Then the furrow between the dry air under it and the dry air above it bakes into a clay brick that no plant roots can penetrate. But if the furrow is broken down soon after being turned the soil dries through evenly, leaving it in fine condition for a seed bed.

Improved Grain Shoek.
According to a writer in the Farm Journal nine bundles of grain make a better "shoek" than the old-fashioned dozen. Get up four in a cross, then four more, one in each of the spaces between two of the first four, and cap with the ninth, well broken, and the tops toward the prevailing wind. If well set, that is, each sheaf standing on its own bottom and thoroughly closed in at the top, such a shoek will stand a stiff windstorm and a three days' rain without harm.

Grass Under Trees.
Sometimes we see trees which dry up the grass under them, while in the same neighborhood will be trees under which the grass will grow greener than where it is not thus shaded. An orchard that has long been plowed deep has most of its feeding roots below those of the grass. On the other hand, under the tree where grass has long grown, the true feeding roots come near the surface, and when a dry time comes the grass under it lacks moisture and is very soon killed out.

JAM'S HORN BLAGS
Warning Notes Calling the Wicked to Repentance.
SAD countenance is the hypocrite's favorite mask. No college ever made a saint. The devil fears a praying mother. It is right to fast, but it is wrong to look lean. The Redeemer warned his disciples against hypocrisy about as frequently as he did against sin. Sin feels safe as long as it can hide its head. A fool has to find out for himself that fire is hot. No fish gets away that bites at the devil's hook. The devil's favorite pew in church is near the front. We may kill God's man, but we cannot kill his truth. It is a waste of breath to talk any louder than we live. The man who deserves riches can be rich without them. If you want to do something, find one who believes something. No man is fit for heaven who wants somebody else kept out. The older the Christian, the newer he will find God's Book. It is better to be a mustard seed than a mountain of dead rock. There are too many church members and not enough Christians. Our lives please God when they make sinners want to know Christ. It never hurts God's work any for people to get mad at his truth. God can see jewels where we would see only common sand and gravel. An extravagant man loves to lecture his wife on the beauty of economy. Next to hearing a hypocrite pray, the devil loves to hear a stingy man talk in church. Open the door of your heart to Christ, and He will open the windows of heaven for you. An opportunity to help the poor is a chance Christ has given us to do something for him. How small God's army always seems to be when we take it upon ourselves to number it. God will give us strength to resist temptation if we will use it to walk away from bad company.

DEATH FROM FIRE.
Lethal Sleep Enfold's the Victim Before the Flame Reaches Him.
"Those who lose their lives in conflagrations do not by any means always suffer physical pain. In many cases, no doubt, sharp terror is the one thing of which the victim is conscious, and in many more, strange as it may seem, consciousness plays no part, life ceasing painlessly and without a struggle. In great conflagrations gases are produced which have much the same effect as chloroform or similar anesthetics, and it is a fact that of those who lose their lives in such catastrophes a considerable proportion pass into death without any evidence of having suffered. This result is produced especially when a fire has smoldered, and when the access of air has first been insufficient to cause complete combustion, and when that dead, carbonic oxide, has sent its victims into lethal sleep before the actual flames have reached them.

"Of those, however, who have evidently struggled and fought and whose charred corpses are afterward found in attitudes suggestive of violent efforts made in attempting to escape it must not be imagined that they have necessarily been burned alive and have died in the agony which such contortions are popularly imagined to express. Death from agony is really death from shock, a condition in which the body is limp and helpless; whereas in death from suffocation struggling may go on even after consciousness has passed, and the strained attitude of the corpse may be expressive only of the final paroxysmal effort made in a state of entire unconsciousness.

"Suffocation in fire depends on something more than mere carbonic acid poisoning. It is the stoppage of the breathing by the stifling vapors which does the mischief. Carbonic acid would doubtless kill if it could be breathed, but anyone who has attempted to enter a burning building will know that suffocation depends not on the stuff one breathes, but on the fact that one cannot breathe at all. The lungs are as much deprived of their supply of oxygen as if the sufferer were plunged over head in water, and the struggle produced is much the same. While, then, we must admit the horror of the moment, the terror, the fight for breath, and finally the death from suffocation, we must remember that all this is often a matter of short duration, and that it is something very different from the slow torture of being burned alive."—The Hospital.

His Wife Hypnotized.
A Hamburg woman who insisted on committing suicide on a fixed date, with no apparent reason, has been discovered by Professor Kraft-Ebing of Vienna to have been hypnotized by her husband. He had insured her life for 50,000 marks, the policy holding good even if the person insured committed suicide within two months after it was issued. She is now suing for a divorce.

Everybody has acquaintances, but nobody has friends.

High Rifle Scores.
Two records of 104 out of a possible 105 with the Lee-Netford rifle have already been made this year by Sapper Gale of the Royal Engineers and Sergeant Dalgetty of the Berwick-on-Tweed rifles. The firing was at the regulation ranges, seven shots each at 200, 500 and 600 yards, in military positions. In both cases the men missed the bullseye at the shortest distance. The highest score made with the discarded Martini-Henry rifle under the same conditions was 103.

AROUSE TO ACTION
A dormant liver, or you will suffer all the tortures incident to a prolonged bilious attack. Constipation, headaches, dyspepsia, turned tongue, sour breath, pain in the right side, will admonish you of neglect. Discipline the recalcitrant organ at once with Hostetter's Stomach Bitters, and expect prompt relief. Malaria, rheumatism, kidney complaints, nervousness and debility are thoroughly removed by the Bitters.

The River Jub.
England has sent an expedition to explore the River Jub, the boundary between the Italian and English spheres of influence in Somaliland. It is under command of Major Macdonald, who made the survey for the railroad from Mombasa to Lake Victoria.

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 facsimile 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.

HOITT'S SCHOOL FOR BOYS.
Accredited at the State and Stanford universities, a first-class Home School. Careful supervision and thorough training in every respect. Seventh year begins August 10th. Ira G. Hoitt, Ph. D., Burlingame, San Mateo county, California.

West & Texas.
Wholesale Druggists, Toledo, O. WALKING, KINSMAN & MARVIN, Wholesale Druggists, Toledo, O. Hall's Catarrh Cure is taken internally, acting directly upon the blood and mucous surfaces of the system. Price 50c per bottle. Sold by all druggists. Testimonials free. Hall's family pills are the best.

Dog Taxes in France.
In France it is not necessary to have license to keep a dog, but what amounts to practically the same thing, it is necessary to pay a dog tax, which varies according to the species—a watch dog paying less than a fancy poodle, and so forth. From the returns of this tax it is learned that there are 2,900,000 dogs in France, which bring in an annual revenue of 8,800,000 francs.

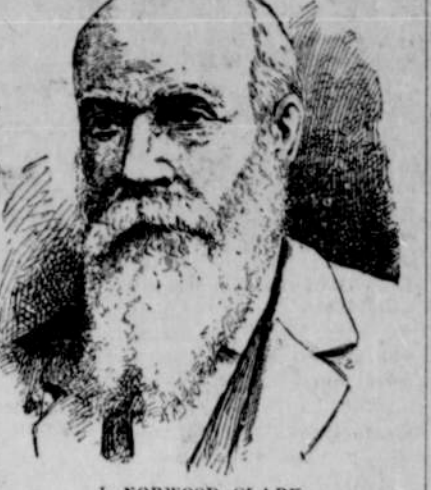
WISER WOMEN.
Those Who Heed the First Symptoms of Nervous Derangement.

A dull, aching pain at the lower part of the back, and a sensation of little rills of heat, or chills running down the spine, are symptoms of general womb derangement. If these symptoms are not accompanied by leucorrhoea, they are precursors of that weakness, it is worse than folly to neglect these symptoms. As a friend, a woman friend, let me advise the use of Lydia E. Pinkham's Vegetable Compound.

Mrs. GEORGE W. SHEPARD, Watervliet, N. Y., says: "I am glad to state that I am cured from the worst form of female weakness. Before using Mrs. Pinkham's Remedies it seemed that I had no strength at all. I was in pain all over. I began to feel better after taking the first dose of Vegetable Compound. I have used five bottles, and I feel like a new woman. I know if other suffering women would only try it, it would help them."

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., 815-820 Market St., San Francisco, Cal.

OLDEST LIVING ODD FELLOW.
J. N. Clark, of Iowa City, Has Been More than Fifty Years in the Order. J. Norwood Clark, of Iowa City, is the oldest living member of the order of Odd Fellows. It is more than fifty years since he was initiated into the order at Baltimore in the first Odd Fellows building ever erected in this country. He was then a member of Grati-



J. NORWOOD CLARK.

tude Lodge, No. 5. In 1841 Mr. Clark took his card from Baltimore lodge and placed it with Western Lodge, No. 24. He removed in 1843 from Western Lodge to Ohio Lodge, No. 1, and his last change was made in 1855, when he deposited his card with Eureka Lodge, No. 44, of Iowa City, where it remains to this day. Since that time he has never missed a meeting of the lodge save the session which was held at Cedar Rapids in 1872. In 1868-9 Mr. Clark was grand representative to the sovereign grand lodge of the United States. He has seldom missed a meeting of the grand lodge and he is widely known among Odd Fellows in all parts of the country. Mr. Clark is a native of Philadelphia and is 83 years old. He was initiated while still a young man into the first encampment of Patriarchs in the world. He has been a member of the grand encampment of Iowa since 1850.

BISHOP BOWMAN.

The Patriarch of the Methodist Episcopal Church, Bishop Thomas Bowman, the patriarch of the Methodist Episcopal Church, is spending the evening of his life with his daughter in Evanston, Ill. He will continue to wear the mantle of ecclesiastical authority, to be the senior member of the administrative council, to act as adviser and a chancellor. He and the denomination will celebrate his eightieth birthday in July. His place in the episcopacy will be honorary rather than active—the activity being advisory and relayed of the trying labor of the direction of the conferences. He will remain on the bench of the heads of Methodism—the distinguished reward for as wonderful a half century of religious work as any man ever gave to any church. This work compassed the globe, penetrated China and Japan in advance of civilization, touched Norway and Sweden, left monuments in Germany, Italy and Mexico, built churches in India and dedicated sanctuaries in every State and Territory in this country. The story of his life embraces more than comes to be average man in ten thousand. The Bishop preached his first sermon when he was 21 years old. His first charge was a horse-back mission seventy miles long and his annual salary was \$100 cash, from which was not deducted the hospitality of the Methodists along the ride and the fitful donation parties which were forced upon him. The Bishop has dedicated more than 1,200 churches during his work. There is only one other minister in the



RT. REV. THOMAS BOWMAN.

denomination who has come near to this long list and he is Dr. Ives, and Dr. Ives has made the dedication of churches a specialty.

Another Barrier Broken.
Vienna University has accepted the inevitable and granted the degree of Doctor of Medicine for the first time to a woman, the Baroness Possner von Ehrenthal, who recently was admitted to practice in Austria after passing the requisite state examination. She had received the degree from Zurich many years before.

Fall of a Church.
St. Pierre Livron, a picturesque church and village on a cliff overlooking the Riven Bonette, not far from Canors, and a favorite subject for painters, has been swept away by a landslide, a pond formed by the river having worn its way through the cliff.

The Winner
of one of those \$100 prizes got her yellow tickets in this way:
1. By using the tea herself.
2. By asking some friends who use the tea to give her their tickets.
3. By inducing some friends to try the tea and give her their tickets.

One of her friends kept a boarding house, and sent her lots of tickets.

Haven't you some friend who keeps a boarding house or a restaurant, or who has influence in some hospital or other public institution? They need good tea there.

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

A Strange Defense.
A strange defense has been offered in England by a captain who ran an excursion steamer, as it seemed, deliberately on the rocks near Scarborough. The passengers thought he was drunk, but he wants to be let off because he was under the influence of opium, taken to relieve pain.

There was recently killed in Wyoming one of the largest mountain lions ever seen in that state. It was almost nine feet long.



"Get a Sanden Belt," a friend told him. "Get a Sanden Belt, and if it don't cure you I'll pay for it myself." When you are sick you try everything, and after several failures you have no faith in anything. This was the way Mr. P. S. Clement, conductor on the Northern Pacific, living at Ellensburg, felt when a friend insisted on his trying Dr. Sanden's Electric Belt. He got one, and this is his report: "I would not have sold my belt for a mine ten days after I got it. My back was so weak that I could not sit up in the car seat, and I suffered terribly. Then I got the belt. In ten days I was almost a well man, and inside of a month I was entirely cured. That was two years ago, and not a sign of my trouble has returned. I want you to publish this, so that the thousands of other men who are in the same fix can find the only cure for them."

It cures other troubles, including all nervous and vital weakness, varicose veins, rheumatism, etc. Get the book with full information, sealed, free. Address

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

State Agricultural College... OF OREGON
SCIENTIFIC EQUIPMENT THE BEST IN THE STATE.
Military training by United States officer. Twenty-two instructors. Surroundings healthy and moral. Free tuition. No incidental fees. Expenses, including board, room, clothing, washing, books, etc., about \$100 per school year. Fall Term opens September 20. For catalogue or other information address THOMAS M. GATCH, Pres., Corvallis, Oregon.

THE TRIUMPH OF LOVE! Happy and Fruitful Marriage.
Every MAN who would know the GRAND TRUTHS, the Plain Facts, the Science and the New Discoveries of Medical Science as applied to Married Life, who would atone for past follies and avoid future pitfalls, should write for our wonderful little book, called "Complete Manual of Married Life," which is entirely free, in plain sealed cover.

WHEAT
Make money by successful speculation in Chicago. We buy and sell wheat, corn, and other grain. 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 business. Downing, Hopkins & Co., Chicago Board of Trade Brokers. Offices in Portland, Oregon, Spokane and Seattle, Wash.

TAPE WORM expelled in from 17 minutes to two hours with head, requiring no previous or after treatment, such as fasting, starving, dieting, and the taking of nauseous and poisonous drugs, causing no pain, sickness, discomfort or bad after effects. No loss of time, meals, or detention from business. SLOCUM'S TAPE WORM SPECIFIC has never failed. Cure guaranteed. Over 8,000 cases successfully treated since 1883. Write for free information and question blank. Address Slocum Specific Co., Auditorium building, Spokane, Washington.

CHILDREN TEETHING.
Use "CHILDREN'S SOOTHING SYRUP" should always be used for children teething. 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.

DRUNK
ARDS can be saved without their knowledge by ANTI JAG, the marvelous cure for the drunk habit. All druggists, or write SULLY Chemical Co., 66 Broadway, New York City. FULL INFORMATION GLADLY MAILED FREE.
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