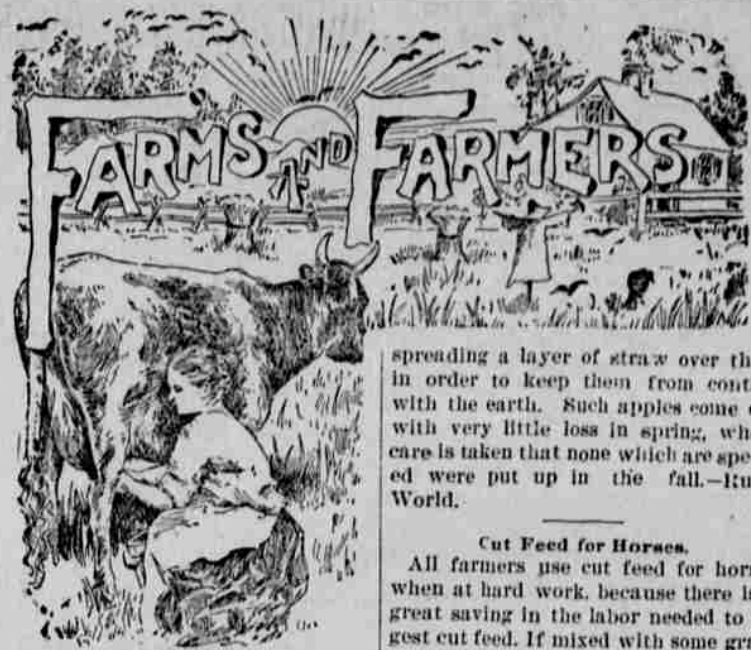
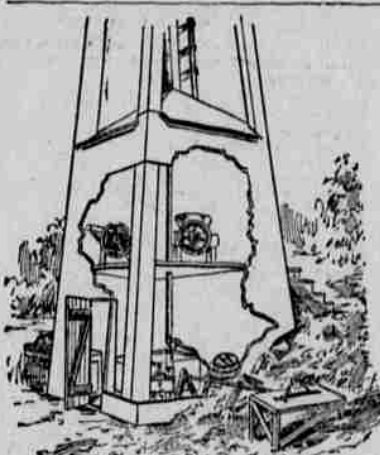




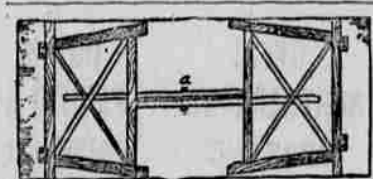
Harnessing Wind for Many Uses.
A sensible arrangement is portrayed by Farm and Home, showing how an ingenious North Dakota farmer makes full use of wind power. The machinery consists of a geared windmill attached to a pump, churn, washing machine, feed mill, wood saw and grindstone. The illustration shows the "pump house." The feed mill is on the upper floor, while on the ground floor is the washing machine, churn, and pump, all so arranged as to be easily hatched to the wind. The deep setting creamer, which is neatly kept, is set in one cor-



A CHEAP SOURCE OF POWER.

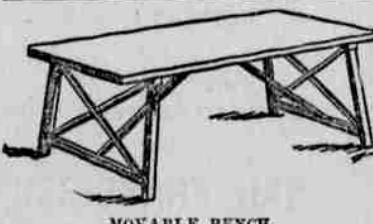
ner of the pump house. A spout carries water also to a watering tank near by, where cattle and horses quench their thirst. The circular wood saw, the grindstone and the corn sheller, e, have been added in making the illustration, as has also a water tank. This last is for use as a reservoir in very cold weather, to supply water to a smaller drinking tank outside the building. The water in this reservoir and in the creamer can be kept from freezing in winter by placing a small stove, if necessary, in the room. The stove would also be very useful at churning time and on washing days. Having machinery in a small house under the windmill does not prevent carrying the power by means of a chain, belt or tumbling rod, from the mill to other adjacent buildings. Screening wheat, grinding, shelling, cutting feed or other operations can usually be more conveniently done near the storage rooms. The mill is convenient to the kitchen and saves much labor in pumping water, churning, washing, etc.

A Convenient Farm Bench.
The illustration herewith, taken from the American Agriculturist, shows a bench easily made in the home workshop and very convenient in many operations about the farm—when planting the garden, grafting in the orchard,



BENCH FOLDED.

assorting fruit, dressing fowls, and a hundred and one other times when it is desired to have tools or packages raised above ground. When not in use, it can be folded into small space and put



MOVABLE BENCH.

away, as shown in the first illustration. The construction is so plainly shown in the cut that little explanation is needed. The braces running from the middle to the bottom of the legs are hinged to the legs and go into slots a, underneath the bench near the center. The bench ready for use is seen in the second picture.

Some Careless Farmers.
A Western grange officer who has been traveling through the rural districts, was impressed with the careless habits of many of the farmers. He says: "I have been much over the country during the last two years, and when I see a plow standing in the corner of the fence, a binder under a tree, wagons, carriages and implements standing promiscuously about the yard, it always attracts my attention, and I have been very much surprised at the lack of care and thrift which a ride over the country will disclose."—Ohio Farmer.

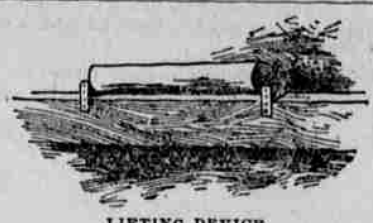
Burying Apples for Winter.
Most cellars are too warm to keep fruit well. They are also subject to frequent changes of temperature, in which the fruit suffers almost as much as it does by being kept too warm. We have known farmers to put apples in pits as potatoes and roots are pitted,

spreading a layer of straw over them in order to keep them from contact with the earth. Such apples come out with very little loss in spring, where care is taken that none which are specked were put up in the fall.—Irru-World.

Cut Feed for Horses.
All farmers use cut feed for horses when at hard work, because there is a great saving in the labor needed to digest cut feed. If mixed with some grain meal and wet so that the meal can only be got by eating the cut feed mixed with it, the whole will be chewed sufficiently to moisten it with saliva, which is necessary to quicken digestion. But this economy in feeding cut feed is also important when the horse is not working. If the cut feed is corn stalks, it should always be steamed with very hot water, so as to soften the cut ends of the stalks, which may cause injury. This is the best, also, if hay or straw is cut, particularly wheat or rye straw, which, being harder than cut hay and less nutritious, is not likely to be thoroughly chewed. The stomach of the horse needs a slight irritation. This is the advantage which oats have over other grains. Its hull helps the grain to digest better, and this makes the horse feel frisky and able to do his best. It is an old saying of farmers that when an old horse begins to act unusually coltish he has probably "got an out-standing corner wise against his stomach, and he jumps around so as to get it out." It is a homely illustration, but may have truth in it.—American Cultivator.

Mutton Is the Best Meat.
Mutton is more easily digested than beef, though in a healthy man no marked difference would be observed, since in the stomach of such a man there arises no inconvenience from the digestion of beef. However, mutton will be found to tax the stomach of a dyspeptic person less than beef does. Lamb is not nearly so nutritious as mutton. The tissue is soft, gelatinous and rich in water. Lamb should not be selected for those whose digestive organs are weak.

A Device for Lifting.
It is often desirable in the stable, barn or other buildings, to raise some article from the floor for weighing, or other purpose. This is usually done by sheer strength in lifting. The simple device figured herewith will save



LIFTING DEVICE.

much strength exerted in this way. On the top of a beam or crosspiece of the framing, mount a wooden roller, as suggested in the sketch. Whenever a weight is to be lifted it is only necessary to throw a rope over the roller and raise it as one would with a pulley. The roller should of course be as large in diameter as the beam is thick, so the rope will not draw across the corner of the beam.

Leaving the Farm.
It is generally a mistake for the farmer's boy to leave the farm, and in quite as many instances it is also a mistake for the old man to leave and move to town. It is a mistake for the boy to think he knows as much as his father. The latter may not be the more intelligent of the two, but he at least has the benefit of a great deal of experience that the boy has not acquired.

Plenty of Clover.
Plenty of clover will go a long way toward making a farm profitable. Think how many ways it can be utilized—for pasture, for hay, for feeding the stock or for feeding the land, sometimes serving the double purpose of feeding the stock and then going back to the soil in the manurial product. Fear not raising too much; it will always find a market.

Profitable Cows.
It seems doubtful whether large, coarse cows are more profitable even when giving a heavy milk product. They are always very heavy eaters, and hard to keep in a rough pasture. A moderate sized cow, active and vigorous, will thrive better in rough pastures and upon coarse fodder.

Land-Poor Farmers.
Many farmers are land poor. Others have poor land. Both may be said to be robbers. The one robs his tenant and the other robs his soil and himself. The remedy is to sell a part of the farm in the one case and to add fertility and to adopt a wise rotation in the other.

Value of Good Roads.
It has been estimated that with good roads the farmers of this country would save \$630,000,000 in getting their products to market. The savings of two years would be enough to pay off the national debt.

Ohio Farms.
Nearly 32,000 farms changed hands in Ohio last year for a recorded consideration of \$46,000,000, or an average of a little over \$30 per acre, ranging from \$8 in Hocking to \$77 in Lake County.

"STAR ROUTE" DORSEY.

Now in California Trying to Recover His Lost Fortune.

Stephen W. Dorsey, once United States Senator from Arkansas, and noted for his connection with the great star route scandal many years ago, is now in southern California with a view to recovering his lost fortunes. Mr. Dorsey is interested in a mining property which, he believes, if properly worked, will pan out well. Dorsey was at one time one of the most prominent public men in the country. Before he was involved in the star route case and lost all his money he was said to have been a man that could make and unmake presidents. His first appearance on the political horizon was made in Arkansas after the war. A native of Vermont, he was 18 when the war broke out, and he served under Grant at Shiloh and took part in many of the big battles of the civil strife. When



EX-SENATOR DORSEY.

peace was restored he went to Arkansas and became a promoter of big enterprises. He organized a \$1,000,000 cattle company in New Mexico and was in the very flush of his fortune when the storm of the star route scandal burst upon him and swept him off his feet. In defending himself in that celebrated case he spent all the wealth he had accumulated and emerged from the clouds of the storm wrecked in fortune and ruined in health. Of recent years he has made his home in Denver and has been casting about for means of rehabilitating himself. He has just been to London, where he secured capital enough to float his enterprise, and his prospects at the present time are bright. The mining property in which Dorsey is interested is located in Pico, near Yuma. He will build a 100-stamp mill and a railroad to the Colorado river.

OVER 30 YEARS IN CONGRESS.

Holman, of Indiana, Returned After Two Years' Absence.

Among the Democratic veterans in congressional service, retired by the Republican landslide of two years ago, who are this year returned to the House is William S. Holman, of Indiana, the apostle of economy, who is familiarly known as "the watchdog of the treasury." Holman is often called the "great objector."

Born in a pioneer homestead in Indiana 74 years ago, he received a college education, taught school and then became a lawyer. In the 40's he was probate judge and a prosecuting attor-



WILLIAM S. HOLMAN.

ney and the next decade went to the Legislature and was subsequently given a seat on the highest court in his State. In 1858 he was elected to Congress and was a member of the House from that time until 1895, with the exception of four years.

Only Lovesick.
It is not long since the emperor of Austria definitely settled the succession to the throne on his nephew, Archduke Otto, passing over the latter's elder brother, Francis Ferdinand, because he was on the point of death from consumption. Francis is apparently recovering his health, however, and it is hinted that he was not suffering so much from consumption as from blighted affection. He has long wished to marry the Archduchess Stephanie, the widow of Crown Prince Rudolph, whose tragic death at Mayerling a few years ago will be recalled, and he was constitutionally debilitated from doing so while he remained in the direct line of succession to the throne.

Rainy Day Amusement.
Twigs and small branches may be made to look like coral and to be very ornamental. The process will help to amuse the young people on a rainy afternoon. Melt together four parts of yellow resin and one part of vermilion; dip the twigs into it, covering every part, and then let them dry without touching each other. A bunch of coral fastened to the corner of a picture frame, another branch coming from behind a picture and a bunch tied with a ribbon bow upon a scrap basket are all decorative.

The women's new style hats for fall are shaped like a man's hat after he has been out all night.

A RACE FOR A GIRDLE.

The Contest Between the Overland Telegraph and the Atlantic Cable.

The race-course was between the Old World and the New. The racers were telegraph companies. One was called the "Russian Overland;" the other was the "Atlantic Cable."

The track of the "Russian" lay between New Westminster in British Columbia, and Moscow in Russia. Up through the unexplored Fraser River Valley it was to run, then on through the untracked wilderness of Alaska, across Bering Strait, over the timberless steppes of Arctic Siberia, and along the dreary coast of the Okhotsk Sea to the mouth of the Amoor. There the American racers, called "Western Union," were to give over the race to the Russian telegraph department, which was to make its best time in reaching Moscow.

Western Union said it would cover the ground in about two years. The cost would be about five millions of dollars; but what a five millions of dollars if the prize could be won—an electric girdle of the earth?

The path of the "Atlantic" cable was to be on a tableland some two miles deep in the ocean, reaching from Ireland to Newfoundland.

The summer of 1865 found the world watching this race with great interest. It opened when the fleet of the Russian expedition set sail from San Francisco, northward bound. The "Atlantic" people at the same time were stowing away gigantic coils of cable into the capacious hold of the "Great Eastern"—a new cable some 2,000 miles long.

The Western Union directors were shrewd business men. Five millions of dollars was little in comparison with the benefit they could receive could they get telegraphic communication with Europe, and they then believed that the only way was by land. The public agreed with them nearly unanimously. And so the two projects—the overland and the submarine—were pitted against each other.

A very unequal race it seemed at the outset. The Overland was strong and vigorous. The Atlantic was broken by former failures. The Overland was popular, and had plenty of money back of it; the Atlantic was derided, and "only fools," it was said, "would invest in it."

The fleet of the Russian expedition which sailed from San Francisco in the summer of 1865 was quite a navy. There were ocean steamers, sailing vessels, coast and river boats, and Russian and American ships of the line, with a promise of a vessel from her Majesty's navy. The expedition was well officered, and about 120 men were enlisted—men of superior ability in every department. The supplies embraced everything that could be needed. Thousands of tons of wire, some 300 miles of cable, insulators, wagons, etc.

August 26, 1866, the Great Eastern landed its cable at Trinity Bay, and the whole world was electrified by the news that it worked perfectly—that the victory had been won. More than that. The Great Eastern not long afterward picked up the cable lost the year before, and that, too, was soon in working order. Two electric girdles had been clasped around the earth.

The success of the "Atlantic" was defeat for the "Russian." An overland telegraph line could never compete with the submarine cables. The first triumphant "click, click" at Trinity Bay was therefore the death-blow of the Russian scheme, and all work connected with that project was at once abandoned.

But the workers—the brave men facing famine among the wild Chukchees—buried in their lonely huts waiting for some news from their comrades, or straining every nerve to complete their share of the great work—how pathetic that so many of them did not hear what had happened, in some cases for more than a year after the success of the cable—Jane Marsh Parker in St. Nicholas.

Falls Climbed by Fish.

"Fish can and do manage to pass up stream over falls fifty feet in height," observed an investigator of the subject. "There are hundreds of well-authenticated instances of this in the Columbia river, in Oregon, where salmon, which is a salt-water fish, is found above the falls in the fresh water. There is no other way for them to get up the river except to use the falls as a kind of ladder, and they have been seen while making the ascent. By this I do not mean abrupt falls, but the kind of falls generally seen on Western rivers. The Great falls of the Potomac are an illustration. Though there is an artificial fishway there now, millions of fish managed to get into the upper Potomac during their spawning season before the fishway was constructed."

Pictures have been obtained by the Roentgen rays through eight and one-half inches of iron plate by Herr Dornmann, of Bremen.

Coral does not grow deeper than forty fathoms. Placed deeper, it dies.

The present state of the tea-trade can't continue.

Americans drink the worst tea in the world, and pay double for it.

Schilling's Best is the remedy.

Proof: the grocer gives your money back if you don't like it.

A Schilling & Company
San Francisco

A FOOLISH FEAR.

There are thousands who have looked forward to the return of cold, frosty weather with dread, knowing that it brings to them their old chronic attacks of rheumatism. Why should any one bear it in winter or summer when it is so well known what will cure it and make it stay cured. St. Jacobs Oil will penetrate through stiffness and soreness to the center of rheumatic pains and aches in their worst forms and will subdue them. In the coldest or hottest climate it does its work of cure regardless of how long one may have suffered. Why then so foolish a fear? What can be cured should be endured only so long as it takes to get a bottle.

A newly-patented lawn mower has knives, worked on the same principle as mowing machine knives, hung between the wheels of the mower.

"Most Unique." Indeed.

Chief of Police Keefe has in his possession probably the most unique weapon ever seen in the city of Jacksonville. It is a combination double-barreled pistol and bowie, and was used in Missouri by a "Regulator" when that State was going through the throes of the pro and anti slavery discussion.

The blade of the bowie is about twelve inches long, and protrudes from a hilt between two small pistol barrels, each about six inches long. The hilt and the hammers are one and the same. When the hilt is cocked into position, two triggers, concealed in the stock, come forth, and then the weapon is ready for business, with both barrels and twelve inches of cold steel.

A number of men, it is said, belonging to one organization in Missouri, were armed with these weapons, which were secured direct from Paris. This one in particular seems to be almost new.—Florida Times-Union.

Mortar.

The use of brick-dust mortar as a substitute for hydraulic cement is now recommended on the best engineering authority, experiments made with mixtures of brick dust and quicklime showing that blocks of one-half inch in thickness, after immersion in water for four months, bore without crushing, crumbling or splitting, a pressure of 1,500 pounds per square inch. The use of brick-dust mixed with lime and sand is said to be generally and successfully practiced in the Spanish dominions, and is stated to be in all respects superior to the best cement in the construction of culverts, drains, tanks, or cisterns.

MIND READING.

You can read a happy mind in a happy countenance without much penetration. This is the sort of countenance that the cunning bilious sufferer or dyspeptic relieved by Hostetter's Stomach Bitters wears. You will meet many such. The great stomachic and alterative also provides happiness for the indolent, the rheumatic, the weak and those troubled with inflammation of the kidneys and bladder.

The brain of an idiot contains much less phosphorus than that of a person of average mental power.

"Walter Baker & Co., of Dorchester, Mass., U. S. A., have given years of study to the skillful preparation of cocoa and chocolate, and have devised machinery and systems peculiar to their method of treatment, whereby the purity, palatability, and highest nutritive characteristics are retained. Their preparations are known the world over and have received the highest endorsements from the medical practitioners, the nurse, and the intelligent house-keeper and caterer. There is hardly any food-product which may be so extensively used in the household in combination with other foods as cocoa and chocolate: but here again we urge the importance of purity and nutritive value, and these important points, we feel sure, may be relied upon in Baker's Cocoa and Chocolate."—Dietetic and Hygienic Gazette.

CATARH CANNOT BE CURED

With LOCAL APPLICATIONS, as they cannot reach the seat of the disease, Catarrh is a "local constitutional disease, and in order to cure it you must take internal remedies. Hall's Catarrh Cure is taken internally, and acts directly on the blood and mucous surfaces. Hall's Catarrh Cure is not a quick medicine. It was prescribed by one of the best physicians in this country for years, and is a regular prescription. It is composed of the best tonics known, combined with the best blood purifiers, acting directly on the mucous surfaces. The perfect combination of the two ingredients is what produces such wonderful effects in curing Catarrh. Send for testimonials, free.

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Sold by druggists, price 75c.

Hall's Family Pills are the best.

HOIT'S SCHOOL FOR BOYS.

This school is located at Burlingame, San Mateo county, Cal., in charge of Ira G. Hoit, Ph. D. It is accredited at the State and Stanford Universities, and is one of the best of the kind. Twelfth term begins January 4, 1897.

Piso's Cure for Consumption has been a God-send to me.—Wm. B. McClellan, Chester, Florida, Sept. 17, 1895.

Daniel Campbell and his wife, of Walton county, Florida, are said to be respectively 117 and 118 years old.

FOR PEOPLE THAT ARE SICK or "Just Don't Feel Well," DR. J. C. HALL'S IMPROVED LIVER PILLS are the One Thing to use. Only One for a Dose. Sold by Druggists at 25c. a box. Sample mailed free. Address Dr. J. C. Hall, P. O. Box 111, Philadelphia, Pa.



This is the very best Smoking Tobacco made.

Blackwell's Genuine BULL DURHAM

You will find one coupon inside each 2 ounce bag and two coupons inside each 4 ounce bag. Buy a bag, read the coupon and see how to get your share of \$250,000 in presents.

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1. Because it is absolutely pure.
2. Because it is not made by the so-called Dutch Process in which chemicals are used.
3. Because beans of the finest quality are used.
4. Because it is made by a method which preserves unimpaired the exquisite natural flavor and odor of the beans.
5. Because it is the most economical, costing less than one cent a cup.

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Make money by successful speculation in Chicago. We buy and sell wheat there on margins. 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 business. Downing, Hopkins & Co., Chicago Board of Trade Brokers. Offices in Portland, Oregon, and Spokane, Wash.

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