

First Maker of Lucifers.

Sir Isaac Holden, who recently died in England at an advanced age was famous in science and invention. He was the son of a collier, but his invention and enterprise brought him a splendid fortune. He retired from parliament in 1895. He has the reputation of having, among other useful inventions, been the first man to make lucifer matches. Sir Isaac had a method of his own in regard to eating and drinking. For breakfast he partook of a baked apple, one orange, a bunch of grapes and a biscuit made from banana flour. His midday meal consisted of very little beef or mutton, with now and again a small cupful of soup. If he partook of fish, he had so much less of meat. For supper he practically repeated his breakfast menu. "After the system has been built up, and the period of manhood reached, all starch foods should be banished from the human diet." Such was the creed of this good, quaint old man and generous philanthropist. An absolute teetotaler he was not, and Yorkshire was as proud of him as it was of Sir Tatton Sykes, who lived on ale and apple pie. Sir Isaac's son Angus inherits the title. He represents the Buckrose division of Yorkshire in Parliament.

NERVE BUNDLES OF NERVES.

Some peevish, querulous people seem more bundles of nerves. The least sound agitates their sensoriums and ruffles their tempers. No doubt they are born so. But may not their nervousness be ameliorated, if not entirely relieved? Unquestionably, and with Hostetter's Stomach Bitters. By cultivating their digestion and insuring more complete assimilation of the food with this admirable corrective, they will experience a speedy and very perceptible gain in nerve quietude. Dyspepsia, biliousness, constipation and rheumatism yield to the Bitters.

At the last congress of German Vineyardists Prof. Wortman reported that he had found living bacteria in wine which had been bottled 25 or 30 years.

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 name that has borne and does now bear the fac-simile signature of CHAS. H. FLETCHER on every wrapper. This is the original "PITCHER'S CASTORIA" which has been used in the homes of the mothers of America for over thirty years. Look carefully at the wrapper and see that it is the kind you have always bought, and has the signature of CHAS. H. FLETCHER on the wrapper. No one has authority from me to use my name except The Centaur Company of which Chas. H. Fletcher is President.

March 8, 1897. SAMUEL PITCHER, M.D.

The Central London Underground railway, which is to be operated by electricity has a large contract for electrical equipment with a prominent New York firm.

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 proven 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, 75c. Hall's Family Pills are the best.

A postoffice clock in Sydney, New South Wales, emits an electric light flash lasting five seconds every hour during the night, thus enabling those living miles away to ascertain the exact time.

Piso's Cure for Consumption is the best of all cough cures.—George W. Lotz, Fabacher, La., August 26, 1895.

Alexandria, Va., has raised the ban which from the earlier days of the settlement made it unlawful to bring in oysters between April and September.

Between 1878 and 1881, in a single Roman village district, 797 heads of families in a population of 1,200 families were dogged for not paying their taxes.

An Angora cat, which by accident was locked in a trunk under some clothing at Tullahoma, Tenn., remained there for seven days and revived when taken out.

NERVOUS PROSTRATION.

"Will you kindly allow me," writes MISS MARY E. SAIDT, of Jobstown, N. J., to Mrs. Pinkham, "the pleasure of expressing my gratitude for the wonderful relief I have experienced by taking your Compound? I suffered for a long time with nervous prostration and general debility, caused by falling of the womb. It seemed as though my back would never stop aching. I could not sleep. I had dull headaches. I was weary all the time, and life was a burden to me. I sought the sanatorium for relief, but all in vain. On my return I resolved to give your medicine a trial. I took two bottles and was cured. I can cheerfully state, if more ladies would only give your medicine a fair trial they would bless the day they saw the advertisement, and there would be happier homes. I mean to do all I can for you in the future. I have you alone to thank for my recovery, for which I am very grateful."



WATERBURY'S CURE FOR CURS WHERE ALL ELSE FAILS. Best Cough Syrup. Cures by Dr. Waterbury. CONSUMPTION.

Russians make a pleasant drink from sap of the walnut.

COLLISION AND THEN FIRE

Forty Persons Perish in a Colorado Train Wreck.

A TOURIST SLEEPER BURNED

Rio Grande Passenger Ran Into a Colorado Midland Stock Train—Disobeyed Orders—The Emporia Wreck.

Denver, Sept. 13.—A special to the News from New Castle, Colo., says: Rio Grande passenger train No. 1, running one hour late, collided with a Colorado Midland stock extra, 1 1/2 miles west of New Castle. Both engines are a total wreck.

There are in all probability 40 human beings in the burning mass. Shortly after the collision occurred the baggage, day coach and tourist sleeper caught fire, while one Pullman and a special car from the Hannibal & St. Joseph railroad remained on the track.

The fault is said to lie with the train crew of the extra.

Details of the wreck are hard to obtain. It is known that A. Hartman and wife and two children, of Harshon, Ill., are among the dead; Engineer Gordon, of the passenger train; R. H. Bedley, postal clerk, and Robert Howell, passenger fireman, are fatally injured. Engineer Ostrander and Fireman Sutliff, are missing, and are believed to be buried in the wreck.

So thoroughly are the trains demolished that but few of those caught escaped alive, those not killed by the shock of the collision being burned to death in the ruins of the cars.

A Rio Grande special, just arrived from Glenwood, brings doctors and comforts for the wounded.

The wreck occurred on what is called the Rio Junction road. This runs from New Castle to Grand Junction. It belongs jointly to the Denver & Rio Grande and the Colorado Midland, being used by both roads.

Two cars of stock were completely demolished, and the right of way is strewn with dead stock and debris.

Conductor Burbank's explanation of the wreck is that in looking at the passenger's leaving time on the card he looked at the wrong column of figures.

Two Italians caught in the act of robbing trunks have been placed under arrest.

The latest information from the wreck makes it almost certain that 25 persons are dead, and a dozen badly injured, fully half of whom will die.

THE EMPORIA WRECK.

Further Details of the Accident in Kansas.

Emporia, Kan., Sept. 13.—Twelve known dead, one missing (probably incinerated) and 14 injured, two of whom will likely die, is the record of the terrible head-end collision on the Santa Fe, as known tonight. It is not positively known that the list given is complete, and it is believed that several were burned to death and nothing left by which they could be recognized. The bodies of 11 have been taken from the debris, three burned beyond recognition.

Nothing could be found of the remains of the Wells-Fargo messenger, J. F. Sauer. A handful of charred bones taken from the wreck, however, are supposed to be his. Near them was found his watch.

Human ghoulies delved in the burning wreckage and plundered the baggage and mail sacks which strewed the ground. One man tried to snatch a diamond from the breast of an Emporia doctor who, weak and nervous, was creeping slowly out of the debris. He had strength enough left to hit the brute a blow in the face, which made him turn with a curse and sneak away. Mail sacks were dragged into the corn field and rifled.

The report of the Kansas City post-office is that practically all of the mail on both the wrecked Santa Fe trains was destroyed. One pouch, however, for Southern California, on the west-bound train, is said to have been saved. This train carried a large mail from New York city to California, Colorado, New Mexico and Arizona. No official report has been received here.

Trains over the Santa Fe will be run by way of Ottawa for a few days. The cost of the wreck to the railway is estimated at \$100,000.

As the passengers and trainmen recovered from the shock of the explosion, they looked for the injured and dead. Far down in the heaps of debris sounded wailing voices of men pleading for aid. While the rescuers were working to get at the unfortunates, fire broke out in the wreckage of the forward coaches, and a cry for water went up. Water tanks were torn from their fastenings in the coaches that could be entered, and blood-besmeared men carried them over broken timbers to quench the fast-spreading flames. The dead and mangled bodies of four victims were dragged to the grass beside the track. After herculean efforts, the flames were finally subdued, and the work of rescue made more easy.

A merchant in Copenhagen was fined 10 crowns for having used the American flag as an advertising medium.

Explorer Wellman Returns. New York, Sept. 9.—Walter Wellman, the journalist and Arctic explorer, was one of the passengers on the New York, which arrived today. He has been to Norway and Russia to consult with Dr. Nansen to arrange for a steamer and a large number of dogs. He said efforts would be made to reach the north pole until the feat was accomplished.

Russians make a pleasant drink from sap of the walnut.

WEEKLY MARKET LETTER.

Downing, Hopkins & Company's Review of Trade.

The leading feature of the market during the week has been the rapid subsidence of the speculation that in part caused the marked and sudden advance in values. The market is now once more upon a plane of action where supplies and demand can be expected to exert the controlling influences. The forward movement of the winter wheat crop has been fairly large and is now about to be supplemented by increasing receipts of spring wheat. Up to the present time export clearances have been sufficiently large not only to prevent any increase, but to cause a decrease, in available stocks that were already reduced almost to depletion. The advanced values have checked export sales, and we may, with the larger receipts in the near future, look for increasing stocks at centers of accumulation. So, while the general situation remains as strong as ever, the advance appears over for the time being, or at least until the foreigners again become large buyers of wheat.

In corn the week has resulted in some marked changes. A large crop is no longer anticipated by anyone, and the only question is how small it may prove. We are justified, from all the information obtainable, in claiming that the early planted corn promises well and is practically beyond damage from frost. The planted corn is in an entirely different position. Under the most favorable weather conditions it can make nothing but nibbins and fodder. The final result promises not more than two-thirds of a crop, and frost within the next two weeks might further reduce the yield.

The advanced values for wheat have attracted speculation to corn and resulted in some improvement in values. A still further advance would have taken place had it not been for the enormous receipts of corn sold to arrive before the extent of damage to growing crop had become known. Since then farmers have ceased selling freely and receipts next week promise to be much smaller. The market, relieved of the selling pressure for country account, supported by an excellent cash demand, promises, with the aid of the increasing speculative support, to advance still further.

Portland Markets.

Wheat—Walla Walla, 86c; Valley and Bluestem, 89c per bushel. Flour—Best grades, \$4.40; graham, \$3.55; superfine, \$2.50 per barrel.

Oats—Choice white, 37c; choice gray, 36c per bushel. Barley—Feed barley, \$18@19; brewing, \$19@20 per ton.

Millstuffs—Bran, \$14 per ton; middlings, \$21; shorts, \$15.50.

Hay—Timothy, \$12@12.50; clover, \$10@11; California wheat, \$10@11; do oat, \$11; Oregon wild hay, \$9@10 per ton.

Eggs—17 1/2 @ 20c per dozen. Butter—Fancy creamery, 50@60c; fair to good, 40@45c; dairy, 30@35c per roll.

Cheese—Oregon, 1 1/2c; Young America, 1 3/4c; California, 9@10c per pound.

Poultry—Chickens, mixed, \$2.50@2.75 per dozen; broilers, \$1.25@2.25; geese, \$5@6; ducks, \$4@4.50 per dozen; turkeys, live, 11@12 1/2c per pound.

Potatoes—Oregon Burbanks, 40@45c per sack; new potatoes, 50c per sack; sweets, \$1.40 per cental.

Onions—California, new, red, \$1.25; yellow, 80c per cental.

Hops—10c per pound for new crop; 1896 crop, 5@6c.

Wool—Valley, 14@15c per pound; Eastern Oregon, 10@12c; mohair, 20c per pound.

Mutton—Gross, best sheep, wethers and ewes, 2 1/2@2 3/4c; dressed mutton, 5c; spring lambs, 5 1/2c per pound.

Hogs—Gross, choice heavy, \$4.50; light and feeders, \$3@4; dressed, \$3@4.25 per 100 pounds.

Beef—Gross, top steers, \$2.75@3; cows \$2.25; dressed beef, 4@5 1/4c per pound.

Veal—Large, 4 1/2c; small, 5 1/2c @ 6c per pound.

Seattle Markets.

Butter—Fancy native creamery, brick, 20c; ranch, 10@12c.

Cheese—Native Washington, 10@11c; California, 9 1/2c.

Eggs—Fresh ranch, 19@20c.

Poultry—Chickens, live, per pound, hens, 10@11c; spring chickens, \$2@3.50; ducks, \$2.50@3.75.

Wheat—Feed wheat, \$30 per ton.

Oats—Choice, per ton, \$23.

Corn—Whole, \$22; cracked, per ton, \$22; feed meal, \$22 per ton.

Barley—Rolled or ground, per ton, \$22; whole, \$22.

Fresh Meats—Choice dressed beef, steers, 6c; cows, 5 1/2c; mutton sheep, 5@5 1/2c; pork, 7c; veal, small, 6c.

Fresh Fish—Halibut, 4 1/2c; salmon, 4@5c; salmon trout, 7@10c; flounders and sole, 3@4; ling cod, 4@5; rock cod, 5c; smelt, 2 1/2@4c.

San Francisco Markets.

Wool—Choice foothill, 9@12c; San Joaquin, 6 months' 8@10c; do year's staple, 7@9c; mountain, 11@13c; Oregon, 10@13c per pound.

Hops—6@12c per pound.

Millstuffs—Middlings, \$19@22; California bran, \$14.50@15 per ton.

Onions—New red, 70@80c; do new silverskin, \$1@1.10 per cental.

Potatoes—New, in boxes, 40@60c.

Fresh fruit—Apples, 40@55c per large box; apricots, 20@40c; Fontainebleau grapes, 20@30c; muscats, 25@35c; black, 25@30c; tokay, 35@40c; peaches, 40@75c; pears, 40@60 per box; plums, 20@50c; crab apples, 15@35c.

Hay—Wheat, \$14.50; wheat and oat, \$10@13 1/2; oat, \$10@12; river barley, \$7@8; best barley, \$9@12; alfalfa, \$8@10 clover, \$7.50@9.50.

Cheese—Fancy mild, new, 9c; fair to good, 7@8c per pound.

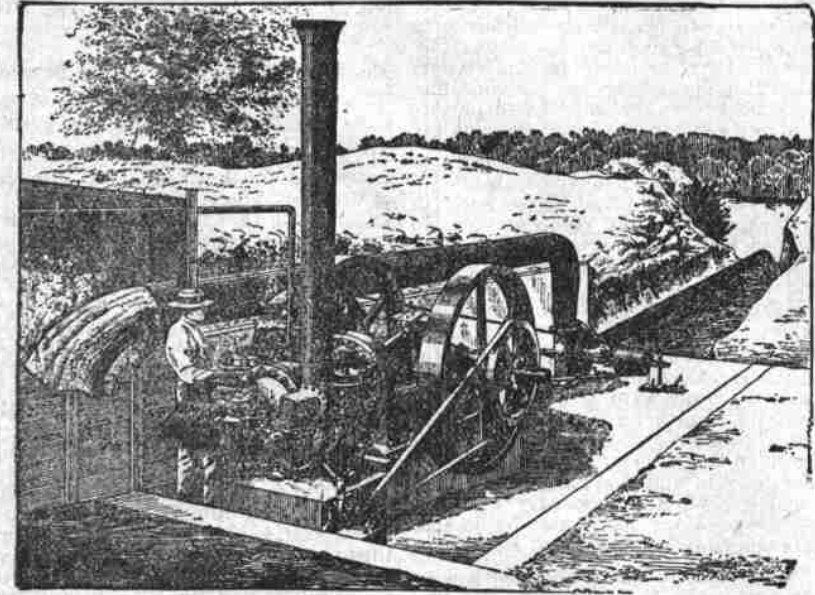
A GIANT PUMPING PLANT

Packer's Great Irrigation Enterprise a Success.

Hundreds of Acres of Wheat Land Along the Sacramento River Supplied With Water.

Pumping plants have been so improved in the last few years as to lead one to hope that in that direction lies the solution of the irrigation question. George F. Packer, although considered one of the most conservative men in the county, has led off in a number of things. Some years ago he checked off some land and put in a flume for winter irrigation and planted alfalfa. He made a survey himself to determine the practicability of taking the water out of the river below Stony creek to water the river lands, and wanted the co-operation of some of the farmers to build the canal. He opposed both the Colusa and the Central districts because he did not believe in that plan—and time has shown that he was wiser in that than many of us. He wanted to know who was to manage.

Again he comes to the front. The Hercules Gas Engine Works of San Francisco has just completed, on his



home place, the largest gasoline pumping plant in existence, which will be used for pumping water from the river with which to irrigate several hundred acres of land.

This plant consists of an 80-horse power, horizontal single cylinder, Hercules engine and a Krogh Manufacturing Company's 15-inch centrifugal pump, guaranteed to raise 6,000 gallons of water per minute 27 feet high. There is also a smaller pump of 400 gallons a minute capacity driven by the same engine. This is for tank purposes.

The engine is arranged to use either gasoline or distillate oil, and as the latter is very cheap it will no doubt be the fuel selected for use. The 20-inch suction pipe, made of No. 10 steel, passes through the levee, on an incline, into the river, and at its lower end is a large foot valve weighing 1,200 pounds.

A 20-inch discharge pipe carries the water from the pump to a head box 22 feet square and 6 feet high. For the foundation of the machinery an excavation was made and filled with concrete. The first test made showed a much larger pumping capacity than the contract called for, the flow of water exceeding 7,200 gallons a minute or 432,000 gallons an hour, or 10,368,000 gallons per day of 24 hours—enough water to cover 384 acres an inch deep, or 38 acres 10 inches deep every day of 24 hours.

A very important part is the exceedingly small cost of the fuel, it being only one-eighth gallon per hour for each horse power actually used, and

the price of the fuel is less than 10 cents a gallon. If the whole force should be used, there would be only eight gallons an hour, or less than 200 gallons a day of 24 hours. The fuel item then is less than \$20 for covering 38 acres 10 inches deep with water—or less than 60 cents an acre. If used for wheat, one sack to the acre will pay all the expenses of putting 10 inches of water on it just as it is wanted most.

This pumping plant, destined to revolutionize agriculture in the Sacramento valley, was put in operation Friday, August 6.

Early in the morning a party of Colusans drove to the ranch of Mr. Packer, which is on the river below Princeton, to see the great pump make a trial of its strength. The air was cool and the drive most pleasant, though dusty. Arriving, they found the engine placed in a concrete oblong, square basin, sloping towards the out in the levee that leads to the river and the great 28-inch iron pipe extending from a 22x32 foot reservoir down the concrete basin, on through the cut in the levee and river bank into the water. The machinery was all clean and bright and G. W. Tibbets and Arthur Pope were on hand to put it in motion. John E. Doak of San Francisco, having the work in charge, was there, and as the engine started, the great belts moving

slowly at first, and increasing in velocity, the water began to come with force into the reservoir. It gushed for awhile, when one of the smaller parts of the engine became clogged, and it was stopped for arrangement. Just then, as all stood still, there was a splash and a wild shout came from those who had climbed upon the edge of the reservoir. All rushed up and found Mr. Stice, of Red Bluff, who is here buying fruit, floundering around in the water, having lost his balance and tumbled in. There was much merriment at his expense, and it had a healthy action on the crowd, bringing laughter and good will all around.

Again, the engines started, and forcing 7,200 gallons to the minute, the great reservoir was soon overflowing, and all pronounced it the grandest of successes.

The success of Mr. Packer's enterprise will show conclusively that it will be immensely profitable to irrigate even wheat lands that are at all favorably situated. Who would not give a sack of wheat an acre for the privilege of 10 inches of water at will? It would make a difference, one year with another, of five to ten sacks; there need be no summer-fallowing. A certain crop every year. But then there comes in a more profitable crop—alfalfa and sugar beets.

This plant was put in for Mr. Packer for \$3,500, but the head of the company informs us that this was an inducement and that another would come higher.

—Colusa Sun, August 6, 1897.

Advertisement for Hercules Gas Engine Works. Features a large illustration of a gas engine and text promoting its power and profitability. Includes the slogan 'POWER FOR PROFIT' and contact information for Hercules Gas Engine Works at Bay St., San Francisco, Cal.

One advertisement ought to make you say to your grocer: "Give me a package of Schilling's Best tea, if you can really afford to return my money when I don't like it."

A Schilling & Company San Francisco 608

After forty years of hard, dangerous and expensive missionary work there are in Japan today about 110,000 native Christians, in a population of 42,000,000.

FRUIT FREE from PESTS Large Assortment. LOW PRICES. CATALOGUE Free LAMBERSON'S SEED STORE Portland, Ore. TREES

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.

Dentists... Get your supplies of us at cut rates. Large stock and low prices. Goods guaranteed. Woodward-Clarke & Co., Dental Depot, Portland.

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.

PORTLAND UNIVERSITY LITERARY, normal, business, musical, art, theological and preparatory courses. State diplomas for normal course. Twenty-eight instructors, 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. Boarding halls connected with school. Government mild but firm. Expenses for year from \$100 to \$200. School opens September 21, 1897. Catalogue sent free. Address, Trustees, VAN SICK, D. D., University Park, Or.

Portland Business College... Portland, Oregon... THE BUSY WORLD OF BUSINESS gives profitable employment to hundreds of our graduates, and will do thousands more. Send for our catalogue. Learn what and how we teach. Yours truly, A BUSINESS EDUCATION PAYS

CONSERVATORY OF MUSIC Albany College, Albany, Or. Gives the most systematic and complete course in music of any music school on the Pacific coast. Piano, singing in the Italian method, harmony, counterpoint, and all other important branches of music taught. Diplomas given on completion of course. Tuition is low for the high grade of work. Send for circulars and catalogue. First term begins September 15.

FARMERS THIS IS THE MACHINE TO PUT YOUR CROP IN WITH THIS FALL SOMETHING ENTIRELY NEW. ZIMMERMAN, Mfg. Co., Portland, Or.

CLARK'S RIGHT-LAP Flow and Seeder Combined. Thoroughly works the Soil to a depth of 5 to 8 inches. Leaves no Flow Crust. Places the seed 3 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.

JOYFUL MANHOOD Self-Confidence, a Clear and Happy Mind, a Magnetic Personality, Strong Mind and Body. No regrets for the past, and no weakness to make you feel as if life is a burden. Good health in every respect is yours if you keep up your nerve force. If you are lacking in this element you can replace it by using the famous life giver.

Dr. Sanden's Electric Belt. "It is now about 60 days since I commenced wearing your Belt. I have improved greatly; have gained 20 pounds in 45 days, and my health is much better than it has been for five years. I bought the Belt two months ago for dyspepsia, kidney trouble and general weakness, and words will not describe my feelings in regard to your Belt. I want to say that I would not part with my Belt for twice what it cost, provided I could not get another one."—Chas. Wilson, Coconino, Athol P. P., Idaho, August 11, 1897.

"THREE CLASSES OF MEN" Is a little book that tells how manly strength may be restored. Call and get it at the office, or it is sent by mail, closely sealed, free. Call or address SANDEN ELECTRIC BELT CO., 853 West Washington St., Portland, Or. Please mention this Paper.

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ERIE MEDICAL CO., 85 Niagara St., BUFFALO, N. Y. RUPTURE and PILES cured; no pay unless cured; send for book. DR. MARSHFIELD & POWERSFIELD, 308 Market St., San Francisco.