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The Daily Astorian.

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SAGO AND TAPIOCA.

In a lawsuit tried in Portland recently, the issue hinged upon the difference between sago and tapioca. Rufus Mallory, who recently returned from China, where he investigated the tapioca and sago plantations, was called as a witness, and his testimony is given in the *Oregonian*: Mr. Mallory described a plantation at Singapore, China where the sago palm was raised, and gave a detailed account of the production and manufacture of the article known as sago flour. The sago palm is a tree which grows to a height of twenty to thirty feet, and it takes fifteen years from the planting before the tree is ready for harvest. These trees grow in a marsh so wet that a person cannot walk about them, except on planks without wetting the feet. They grow to eighteen or twenty inches in diameter, and are cut down close to the ground. The main body of the tree after the bark is removed, consists of a soft, wet pith, which is taken by the Chinese and broken into small fragments and ground up. This in turn passes through a hopper lined with coarse cloth and washed with water, the Chinamen working over the mass of pulp in the meantime. The fine granules are carried by a spout into large vats, where the flour or starch settles to the bottom and the water is gradually drawn off. This starch is then dried and ground into the article sold as sago flour. Mr. Mallory had samples of the tree, the pith, the flour, etc, which were exhibited to the jury.

He then described another plantation of 2000 acres where 500 hands were employed in the manufacture of tapioca and tapica starch. The commodity comes from a plant rather than a tree, which attains a condition fit for harvest in two years. The plant is then from twelve to eighteen feet high. The tapioca is obtained from the roots of the plant. The great plants are pulled up very much as the common potato vines are pulled, and then the roots are carefully gathered and any remaining in the ground dug out. The roots are placed in a machine which removes the skin, and washes them perfectly white and clean. The process of grinding up and drawing off is something similar to that of sago flour, and that makes a starch. An additional operation makes it into the commercial tapioca.

Of the recent flood in Pendleton the *East Oregonian* says that the scene in town during the day was one never to be forgotten. Through all the streets, under and between and around and through all the buildings in the business part of town the mad and muddy torrent was rushing with fearful velocity. Men with teams and on horseback were rushing through the flood on errands of dire necessity; others on foot wading up to their knees, sometimes, where the force of the current was checked, up to their breasts, were wading along and across the flowing streets. Dozens, crazed with excitement and liquor, were shouting and reeling along the inundated sidewalks. Animals mad with terror were howling and bawling. But amid all the excitement and recklessness, we here of no one who was robbed or seriously injured.

The largest empire in the world is that of Great Britain, comprising 8,557,658 square miles—more than a sixth part of the globe, and embracing under its rule a sixth part of the population of the world. In territorial extent the United States ranks third, containing 3,508,242 square miles, including Alaska. In population it ranks fourth, with 50,000,000 people. Russia ranks second, having 8,352,940 square miles.

The Texas school fund, which can never be disbursed, now amounts to the magnificent sum of $114,000,000, including land worth $110,000,000.

"California Oysters."

It is estimated that for 1882 no fewer than two hundred carloads of oysters have been brought into this city from the east. Each car holds ninety barrels, each barrel contains on an average two thousand oysters, so that shells, barrels and cars something like thirty-six millions of oysters have been brought into San Francisco during the past season. Add to this vast quantity the home product—the California oysters, as they are called, but which really come from Shoalwater bay, W. T.—and one can readily understand why the oyster is of such a retiring disposition. Not the stingaree, with his roller-like jaws, which crush the shells like nuts and munch up the kernels like a chaff cutter, nor the star-fish which perches on the shell like Sinbad's old-man-of-the-seas, and sucks its victim until it has not strength enough to keep its door shut—not these two foes are such voracious, dangerous, deadly enemies to the poor bivalve as omnivorous, insatiable man. Thirty-six millions of oysters brought to one city in one year. The count is as prodigious as would be that of the bones lying around the den of Polyphemus. Of course the oysters are not all eaten in one year. As a matter of fact but few of them are placed directly on the dealer's slabs as they come out of the car. Sometimes, when the exigencies of demand require it, or some mistaken epicure asks for them, the oysters are delivered from the car to customer, but this is a mistake as well as a mis-taste, for the transit occupies anything from eight to fifteen days, and the oyster which stands a trip of that duration without showing wear and weakness is possessed of a remarkably strong constitution. As a rule the strength is shown in the flavor.—*S. F. Chronicle.*

A bill has been reported favorably to the senate which proposes to compel railroad companies to pay taxes on lands granted by the government. It provides that lands for which the companies are entitled to patents on payment of the expenses of surveying, and refuse to take out patents for, shall within one year after the companies become entitled to patents be forfeited to the United States, and made a part of the public domain. The Union and Central and Kansas Pacific are said to be the companies principally affected by this measure. The amount of land approximates 15,000,000 acres.

A Berlin dispatch says: The *Germania* states the understanding between Russia and the Vatican is as follows: The re-establishment of the Russian embassy at the Vatican, amnesty to the Polish bishops, reinstatement of the archbishop of Warsaw, a new bishop to be appointed after an understanding between Russia and the Vatican, appointments to important livings in Russia to be submitted to the Russian government, the states of Russia to exercise certain right of supervision over the seminaries, and the Uniates to have liberty to return to the Catholic church.

The Grand Duke Vladimir, of Russia, at present in Paris, possesses herculean strength. As an evidence of it, it is related that when he visits one of his intimate friends and does not find him at home, he is accustomed, instead of leaving his card, to leave a piece of silver, which he doubles with his fingers as easily as if it were but a bit of cardboard.

The production of beet sugar in Europe is increasing rapidly, this year's crop being estimated at nearly 200,000,000 tons. Farmers on the continent find there is more money in beets than in wheat in competition with America, hence the change from wheat raising to beet culture.

A pure strengthening tonic, free from whiskey and alcohol, cures dyspepsia, and similar diseases. It has never been equalled. Brown's Iron Bitters.

Bound to Preach.

Many people have had to preach the gospel under difficulties at times, but that was an unusually vexing position the Rev. Charles Ackworth, pastor of the African Methodist church at Lee, Mass., was placed in last Sunday. A very awkward row he and his congregation had. Finding the doors of the church locked against him when he went to preach, Mr. Ackworth tried to enter the window, but was fired upon by Trustee Freeman and others; not hit, it seems, for Rev. Mr. Ackworth proceeded to attack the window; finally smashed the door, with a good deal of muscular Christianity. Regular row by this time—revolvers used and Rev. Ackworth knocked down. Got up again, entered the church and held a good religious service. Judge Pease, of Lee, declined to interfere, on the ground that the preacher has a right to the pulpit, and if the people do not like him they are not obliged to attend his services.

Mission Ridge, one of the noted battle fields of the late war, is being converted into a peach orchard. Over 30,000 peach trees are now in bearing on it, and the land has increased in value tenfold within a few years.

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BAKING POWDER

Absolutely Pure.

This powder never varies. A marvel of purity, strength and wholesomeness. More economical than the ordinary kinds, and cannot be sold in competition with the multitude of low test, short weight, alum or phosphate powders. *Sold only in cans.* ROYAL BAKING POWDER CO., 106 Wall-st., N. Y.

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Remember that stamina, vital energy, the life-principle or whatever you may choose to call the resistant power which battles against the causes of disease and death, is the grand safeguard of health. It is the garrison of the human fortress, and when it waxes weak, the true policy is to throw in reinforcements. In other words, when such an emergency occurs commence a course of Hostetter's Bitters. For sale by Druggists and Dealers, to whom apply for Hostetter's Almanac for 1883.

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Neuralgia, Sciatica, Lumbago, Backache, Soreness of the Chest, Gout, Quinsy, Sore Throat, Swellings and Sprains, Burns and Scalds, General Bodily Pains, Tooth, Ear and Headache, Frosted Feet and Ears, and all other Pains and Aches.

No Preparation on earth equals ST. JACOBS OIL as a *safe, sure, simple* and *cheap* External Remedy. A trial entails but the comparatively trifling outlay of 50 Cents, and every one suffering with pain can have cheap and positive proof of its claims.

Directions in Eleven Languages.

SOLD BY ALL DRUGGISTS AND DEALERS IN MEDICINE.

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A young man named Austin Brazel, employed in Foster's logging camp, near Olympia, was accidentally killed by a falling tree on Saturday afternoon.

SYMPTOMS OF A DISEASED LIVER.

Pain in the right side, under edge of ribs, increasing on pressure; sometimes the pain is on the left side; the patient is rarely able to lie on the left side; sometimes the pain is felt under the shoulder and is sometimes taken for Rheumatism in the arm. The stomach is affected with loss of appetite and sickness; the bowels in general are costive, sometimes alternating with laxity; the head is troubled with pain, accompanied with a dull, heavy sensation in the back part. There is generally a considerable loss of memory, accompanied with a painful sensation of having left undone something which ought to have been done. A slight, dry cough is sometimes attendant. The patient complains of weariness and debility; he is easily startled; his feet are cold or burning, and he complains of a prickly sensation of the skin; his spirits are low, and, although he is satisfied that exercise would be beneficial to him, yet he can scarcely summon up fortitude enough to try it.

If you have any of the above symptoms, you can certainly be cured by the use of the genuine DR. C. McLANE'S LIVER PILLS.

When you buy McLane's Pills, insist on having DR. C. McLANE'S CELEBRATED LIVER PILLS, made by Fleming Bros., Pittsburgh, Pa.

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$500 Reward.

We will pay the above reward for any case of Liver Complaint, Dyspepsia, Sick Headache, Indigestion, Constipation or Costiveness we cannot cure with West's Vegetable Liver Pills, when the directions are strictly complied with. They are purely Vegetable, and never fail to give satisfaction. Sugar coated. Large boxes, containing 30 Pills, 25 cents. For sale by all Druggists. Beware of counterfeits and imitations. The genuine manufactured only by JOHN C. WEST & CO. "The Pill Maker," 181 and 183 W. Madison St., Chicago. Free trial package sent by mail prepaid on receipt of a 3 cent stamp, W. E. Dement, agent.

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Meeting Notice.

NOTICE IS HEREBY GIVEN THAT THE Annual meeting of the Stockholders of the Fishermen's Packing Co. will be held at the office of said Co., on Friday, Dec. 29th, at 10 o'clock A. M. for the purpose of electing Directors for the ensuing year, and the transaction of such other business as may come before the meeting.

By order of the President.

ROBT. HAMILTON,
Secretary.

Upper Astoria, December 6, 1882. d-td

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All kinds of

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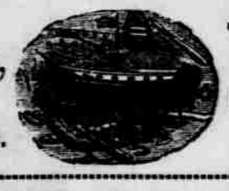

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