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THE WEATHER

Oregon—Fair, cooler south and continued warm north portion.
Washington—Fair and warmer.

THE READING AMERICAN.

The public school of America is responsible for the reading American.

He is everywhere, and up-to-date; his paper, his magazine, his library are simply indispensable to him, while the telegraph, wire and wireless, keep him in touch with the world on the current history of the day.

It is one of the best signs we have of national stability and readiness. Great emergencies are met all over the land with communal understanding and appreciation that save days and weeks of coaching and preparation, and drilling for action. The country is never asleep; the President, the Governor, the Mayor, always find the people on the spot when they are wanted for high purposes, and thousands of them equipped for leadership.

No country in the world has as many readers of the daily news as the United States; if there are classes in this country, there is a paper for each, and all are studied avidly; the nation is never without a working knowledge of the great events transpiring, or to transpire. From Astoria to the keys of Florida and from the St. Croix to San Diego it is the same and the common school is at the bottom of it. It is splendid equipment and the country at large appreciates it.

GREAT DAY, THIS!

This is a great day in the United States.

The flower of the American navy leaves the Golden Gate for its trip around the world, an eight months' tour over five of the seven seas, to carry the message of good-will and peace to all men. There are those who deem this great voyage a piece of national braggadocio, a tentative insult to every nation that shall be visited, and an extravagant attempt at bluff on the high seas, but such people are few, thanks be! The country in general looks to the fleet to spread the gospel of friendliness and harmony everywhere and it will do it if it is permitted by those whom it shall visit.

The Democratic National Convention will meet in Denver this day to get ready for its quadrennial knock-out at the American polls. This is a serious matter always, and might be dispensed with were it not for the traditional cleaving of the "old guard" to its broken idols; and then again it serves as an outing for a host of good fellows that need the relaxation and the excitement of the journey and the old-time touch of civic action.

The country looks on with good natured tolerance and rather enjoys the typical sham of it all, knowing that the end will be as it always is and may not be else so long as the once formidable party is without man and issue wherewith to win out. It is sad, of course, but apparently inevitable.

CHINESE REFORM.

The Americanized Chinaman is reaching after the redemption of his own great land. The Chinese Empire Reform Association, which has its sub-associations all over the Pacific coast, Astoria included, is doing a great work and should be encouraged so far as it will permit the friendly aid of the Americans. They are working out their own salvation, within their own ranks and taking their cue, but not their guidance, from the natives of this country. They are passing the messages of peace and freedom and progress back to the intelligent and capable

Utilizing Waste Steam

While in the past, amid untold wealth of natural resources, America has been wasteful and extravagant, the inventions which bring the greatest premiums to-day are those which utilize waste material and power. Demand for better and cheaper power is increasing every day and happily the inventors are just about keeping pace with the demands by continually discovering ways and means to supply additional electrical power without adding to the cost.

The steam engine is the most extravagant imaginable to transfer coal energy into mechanical energy. Not only does it require millions of tons of coal to keep it supplied with steam but it cannot use a large percentage of the steam power. The power of steam is produced by expansion and the best steam engines waste considerable of this power in the exhaust. With the engine operating under 180 pounds steam pressure and exhausting at about 30 pounds pressure half the power is wasted. It was to remedy this defect that the compound engine was produced which uses the steam twice at a wonderful economy. That is, the steam which left the first cylinder at about 30 pounds pressure was carried to another and a larger cylinder and used over again, extracting considerable of the power formerly going to waste. The first cylinder of the compound engine is small owing to the high steam pressure but as the steam expands to a greater volume the second cylinder, operating at low pressure, is necessarily large. But even the compound engine, which takes up a lot of room, does not get all the power out of the expanding steam and the loss still reaches alarming proportions.

The development of the steam turbine a few years ago was a long step towards cheaper power. This is especially true where the turbine is used for the generation of electricity in central stations, power houses and the like. Electricity soon demonstrated its superiority over all other forms of power in manufacturing, and years ago industrial plants began to utilize their steam engines to drive generators in the power house while all the machinery was driven by electric motors. This plan did away with rope and belt drives, shafting and consequent loss of

power through friction. The turbine soon proved that it utilized more of the steam energy and gave more power for the same amount of fuel and attention than the old type of steam engines.

Figures show that steam expanding from 15 to 7.5 pounds pressure does almost as much work as from 120 to 60 pounds. An expansion of from two pounds to one pound is capable of nearly as much work as the expansion of the same weight of steam from 200 to 100 pounds. Under high pressure the steam does more work per square inch but the volume is small; under low pressure it does less work per square inch but the volume is so large and covers so many square inches that it does practically the same amount of work, providing there is working surface enough to use this low pressure energy.

During the last few months a new type of Curtis steam turbine has been developed which is designed to be operated under low steam pressure. This type of turbine uses exhaust steam just as it leaves the exhaust pipes from a common steam engine. In other words, it is built to utilize the waste steam. To understand the workings of this turbine it must be remembered that as steam expands the pressure diminishes and the volume increases. From high pressure the volume increases slowly with a long drop in pressure but when the low pressures are reached the volume increases rapidly with small decreases in pressure. For a reciprocating engine to get full benefit from low pressure steam would require the use of cylinder of such immense size as to make their use prohibitive through mechanical difficulties. On the other hand the low-pressure turbine, with its wide blades and large nozzles, will handle a great volume of steam in rapid motion and utilize all the energy.

The Curtis low-pressure turbine is made in sizes from 700 to 10,000 horse-power, designed to take steam at one pound gauge pressure and efficiently utilize its energy. It can be advantageously applied in any case where reciprocating engines are now used and will increase the station output without increase of boiler plant or using more fuel.

THE PLAIN TRUTH.

What More Can Astoria People Ask?

When well known residents and highly respected people of Astoria make such statements as the following, it must carry conviction to every reader:

Mrs. E. Haggblom, corner Ninth and Harrison streets, Astoria, Oregon, says: "For ten years I suffered acutely from kidney trouble which gradually grew more severe until I became alarmed. My back was so weak and painful and I suffered from such severe dizzy spells that I could hardly get around. At last I was forced to take to my bed and remained there for a long time. My kidneys were irregular in action and the secretions so profuse as to cause me a great deal of suffering. At last I decided to try a good kidney remedy and procured a box of Doan's Kidney Pills at Rogers drug store. The results that followed their use were most satisfactory. I continued using them and it was not long before I was completely cured. I have used Doan's Kidney Pills on some occasions since to keep my kidneys in good order and can conscientiously say I have not had any recurrence of the trouble since they cured me."

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Remember the name—Doan's—and take no other.

Bad breath has probably broken off more matches than bad temper, and that's a good many. The best cure for bad breath is the tonic-laxative, Lane's Family Medicine.

A cough cure than can be given to children without chance of harm is Kemp's Balsam, the best cough cure. It does not contain poisons or harmful drugs. Druggists sell it.

Stimulation With Irritation. That is the watchword. That is what Orino Laxative Fruit Syrup does. Cleanses and stimulates the bowels without irritation in any form. T. F. Laurin, Owl Drug Store.

Subscribe to the Morning Astorian, 60 cents per month, delivered by carrier.

When the Nose Bleeds.

When the nose is bleeding never hold it over a basin or hold the head down in any way. This only causes further rush of blood to the broken tissues in the nose. The head should be held up and back, the flow being caught in handkerchiefs or cloths. One of the most effective and simple means of checking a nosebleed is to press on the upper lip. Near the undersurface of the lip runs the artery that supplies the interior nasal passages where the ruptures occur. If this is pressed, the flow of blood is mechanically checked, thus allowing the blood around the broken tissues to coagulate and seal up the opening. If merely pressing with the finger does not succeed, place a wad of paper under the lip and fold the lip over it, holding it down tight. Again, if this does not succeed and a drug store is near get some adrenalin, saturate a piece of cotton with it and apply to the interior of the nose from where the blood flows.

Just Exactly Right.

"I have used Dr. King's New Life Pills for several years, and find them just exactly right," says Mr. A. A. Felton, of Harrisville, N. Y. New Life Pills relieve without the least discomfort. Best remedy for constipation, biliousness and malaria. 25c at Chas. Ragers & Son's drug store.

Quick Relief for Asthma Sufferers. Foley's Honey and Tar affords immediate relief to asthma sufferers in the worse stages and if taken in time will effect a cure. T. F. Laurin, Owl Drug Store.

Cares of State.

Anecdotes of great statesmen and orators are apt to prove interesting to the general reading public because it is expected that they will reveal something of the working of a great mind. In the "Life and Letters of Sir Richard C. Jebb" is told a story of Mr. Disraeli which is worthy to be called historical. Mr. Disraeli, after one of his best speeches, left the house with Mr. Montagu Corry.

"I was wondering," Mr. Corry afterward confessed, "what a great orator would talk about just after a successful speech."

"Corry," said Mr. Disraeli, "do you know how to get into a cab? Very few men know. I was at Vienna once when I was a young man, with Prince Gortschakoff and another Englishman, a military man who was there on the same business. A royal carriage was there to conduct us. When we came to it the Englishman walked straight up to it and got in with his back to the horses. Gortschakoff said to me, 'That is the politest thing I have ever seen an Englishman do.'"

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