

Little Journeys to the Home of Oregon Industries

An establishment that has 125 people on the payroll, pays out \$50,000 a year in wages, and can turn out a fully equipped sawmill to cut 50,000 feet of lumber a day, and turn off such a sawmill ready to operate every 60 days, is entitled to be called a manufacturer of factories. That is what the Portland Iron Works is and can do and has been doing for many years.

This industry was founded at Albina in 1882, and the year following was removed to its present location at Fourteenth and Northrup streets. First it occupied a frame building which burned in 1895, and was rebuilt in brick. The main shops are 50 by 100 two-story. The foundry is 50 by 100 feet, with sheds and warehouse attached.

This plant is of great interest because lumbering is the greatest industry of Oregon, and the information that all kinds of sawmills, and saw-

mill machinery and machinery repairs can be supplied more quickly from this plant than from any other source is surely an important matter. The advantage of getting a plant made near to the supply of raw material is too apparent to require argument.

Anyone wishing to establish, enlarge or rebuild a sawmill, will find at the Portland Iron Works a competent consulting engineer, a practical and experienced man to plan the arrangements and give scientific information about the kind of machinery suitable for the lumber to be cut. Besides skilled draughtsmen this factory keeps a competent engineer to plan all general machinery, castings and machine work.

The Portland Iron Works is the largest and best equipped plant of the kind on the Pacific coast. The foundry can turn out a ten-ton casting. The shops are rigged with a boring mill that will turn an eighteen-foot

pulley with a 6-foot belt face. There are an hundred lathes and planers of various kinds, and especial grinding and corrugating flouring mill rolls.

The introduction of cheap electric power has changed many features of this industry, as the use of individual motors is extending, and doing away with about fifty per cent of the overhead load of shafting and pulleys formerly used in transmitting and applying power. With all the demands of the times the Portland Iron Works keeps pace for the high class men employed in every department make it a great conscious thinking machine.

This is necessary because a modern iron and steel plant has to do thinking for a great many different industries and their success depends on good brain work right here at the start of the equipment.

What can be turned out here? What cannot be, would be more appropriate to ask? Let us enumerate: Sawmills and sawmill machinery, special sawmill machines, band and circular saws, gang saws and edgers, gang edgers, twin edgers and steam feeds, lumber trimmers and lath mills, large timber planers and all-steel carriages.

H. T. Clarke, president and general

manager of the Portland Iron Works, started at the bottom, worked six years at the lathe, and then took general management. He is a man who knows the value of materials and how to put them together. He is a prominent man in the metal trades organization. Few men in the Northwest understand the economical generation of power, the construction of steam engines and the transmission of power better than he does, or can better give to other the benefits of his knowledge.

THE BACTERIAL CONTAMINATION OF BREAD

For a practically universal article of diet, bread seems to have received little attention from bacteriologists. Usually handled by several persons, often exposed to flies and street dust, sometimes tossed about under very uncleanly conditions, baker's bread is obviously liable to pick up dangerous bacterial contamination. If it is handled by a typhoid carrier it is possible for typhoid bacilli to be smeared on the outside of the loaf, and since bread as a rule is eaten without heating and very soon after it reaches the

consumer, it may readily be the means of conveying infection.

Lumsden, of the U. S. public health and marine hospital service has traced cases of typhoid fever in the government hospital for the insane at Washington, D. C., to the handling of bread by an attendant who had been caring for a typhoid patient at his home. Hinton has recently described a similar occurrence in the Elgin state hospital where seven cases of typhoid fever developed within a few months. These were all in patients using the general dining room for females. On investigation it was found that a female attendant whose duty it was to slice all the bread used in this dining room had had typhoid fever three years previously and was a carrier, discharging typhoid bacilli. On December 20 this attendant was transferred to another department where she did not handle uncooked food, and no further cases of typhoid fever occurred.

It is rarely possible to determine with such precision as in the cases cited the articles of uncooked food that probably served as the vehicle of infection, and we can hardly doubt that contaminated bread is responsible

for scattered cases of typhoid more frequently than is recognized. For obvious reasons evidence is more difficult to secure than in the case of milk and water. Kayser in his observations on typhoid fever in Strasburg found a particularly high typhoid mortality among bakers, possibly due to their exposure to milk infection.

In a recent number of The Journal of the American Medical Association appears a paper on the bacterial contamination of bread which is a timely contribution. The writer shows that under some conditions the smearing of loaves of bread may be very considerable, reaching in the case of unwrapped loaves kept under uncleanly conditions hundreds of thousands of germs. Out of a hundred loaves purchased from as many different shops in the city of Chicago, 14 per cent were each coated with more than ten thousand bacteria. As might be expected, loaves obtained from clean shops, where all the surroundings are favorable, have not nearly so many germs clinging to them as those kept under generally dirty conditions. The difference between the bacterial coating of wrapped and unwrapped bread is particularly suggestive. In no case

did the bacterial contamination of wrapped bread reach a high figure. On the other hand, more than half of the unwrapped loaves (62 per cent) were coated with over a thousand bacteria. Eleven wrapped loaves obtained from clean shops bore on the average only 371 bacteria each.

It is said to be difficult to obtain a sale for wrapped loaves in certain city districts, where the prospective purchasers insist on testing the quality of the bread by placing the loaf with thumb and finger! Unpleasant possibilities are suggested by such facts. Is it not worth while to take some pains to prevent the contamination of bread?—Journal American Medical Association.

MEXICANS MAY CHANGE PRESIDENTS

El Paso, Texas, July 12. Following a conference of rebel leaders in Juarez it was stated today by men close to General Orozco that Emilio Vasquez Gomez will be recalled by Orozco, to become provisional president of the Mexican revolutionary government. Gomez is now in San Antonio.

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NEWPORT

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Newport has every advantage the pleasure seeker or the person wishing rest and quiet might desire. Here you can find the gay life of the summer resort with all its attractions and excitement, or if you wish rest and quiet, you can find a secluded spot where the only sound to break the stillness will be the cry of a seagull and the distant beating of the surf. There are the mountains for the man who wishes hunting, trout streams for the lover of the fly and the deep sea fishing for the person who craves a little more dangerous sport. Accommodations can be had of every description, hotels, cottages and tents. The Southern Pacific Railroad furnishes first-class service from all points, and the best wagon roads to the Coast come into Newport. For information write the Newport Commercial Club, or any advertiser on this page; we recommend them.



EXCURSION ARRIVING AT NEWPORT, OREGON.

OREGON

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