

The letters "K" and "L" illustrate the combined regulating valve and drain cock, both operated separately but combined in the one stem. Both drain valves "L" and "B" are fitted with a special stop lock and will only unscrew to a certain point, which prevents shaking off through the jarring and vibration of the engine, a common source of trouble in lubricators.

The Penberthy Sight Feed Lubricators are made of the best steam metal, are carefully assembled and tested at the factory before sending out and are guaranteed to give the best of satisfaction to the user.

PERSONAL MENTION.

Mr. John Palmer, of the United Fire Brick Co., Pittsburgh, Pa., has been spending a few days on a business trip in Canada. Mr. Palmer, who had not visited this country for about three years, expressed pleasure in noting that Canada had not suffered nearly so severely from the depression as did the United States, especially such industrial centres as Pittsburgh.

Mr. Wm. C. McGhie, engineer of the Rolph & Clark lithographing works, Toronto, has been appointed chairman of the examining board for stationary engineers under the Ontario Government. As Mr. McGhie is one of the most efficient engineers in Ontario, and as he is very popular, being vice-president of the C.A.S.E., this appointment meets with general favor. Mr. McGhie's brother succeeds him in charge of the Rolph & Clark power plant.

BRITISH COLUMBIA MINERAL OUTPUT.

The mineral output of British Columbia for 1907 was valued at \$25,882,560, being an increase of \$902,014 over that of 1906. The following table, which gives the different items of the products, shows that the increase was entirely in coal and coke, there being

For the calendar year 1907 there was a decrease in placer gold of \$120,400 and in lode gold of \$575,619; total decrease in gold production \$696,019, while in silver

each, of which 44,760 tons were added to stock, leaving a total consumption of 2,174,848 tons of coal. Of this amount 916,262 tons were sold for consumption in Canada,

	1906.		1907.	
	Quantity.	Value.	Quantity.	Value.
Gold placer.....ounces.....		\$948,400	41,450	\$828,000
Gold lode.....do.....	224,027	4,630,639	196,179	4,055,020
Silver.....do.....	2,990,262	1,897,320	2,745,448	1,703,825
Lead.....pounds.....	52,408,217	2,667,578	47,738,703	2,291,458
Copper.....do.....	42,990,488	8,288,565	40,832,720	8,166,544
Coal.....tons.....	1,517,303	4,551,909	1,800,067	6,300,235
Coke.....do.....	199,227	996,135	222,913	1,337,478
Other minerals.....do.....		1,000,000		1,200,000
		24,980,546		25,882,560

production the decrease was \$193,495. In lead there was a decrease in output of 4,669,514 pounds. The copper mines were run only nine months of the last year, owing partly to shortage of coke, but later in consequence of financial depression, with the result that the total output for the year was 40,832,720 pounds, or 2,157,768 pounds less than in 1906.

The gross production of coal in 1907 in the province was 2,219,608 tons, of 2,240 pounds

651,076 tons for export to the United States, and 22,038 for export to other countries, making for 1907 the total coal sales 1,589,376 tons; of the balance of the coal, 419,541 tons were used in making coke and 165,931 tons under colliery boilers, etc.

No iron ore is mined in the province; the only attempt therat, at Quasino Sound, Vancouver Island, has been found unprofitable and abandoned. The mining of zinc ore is also practically at a standstill.

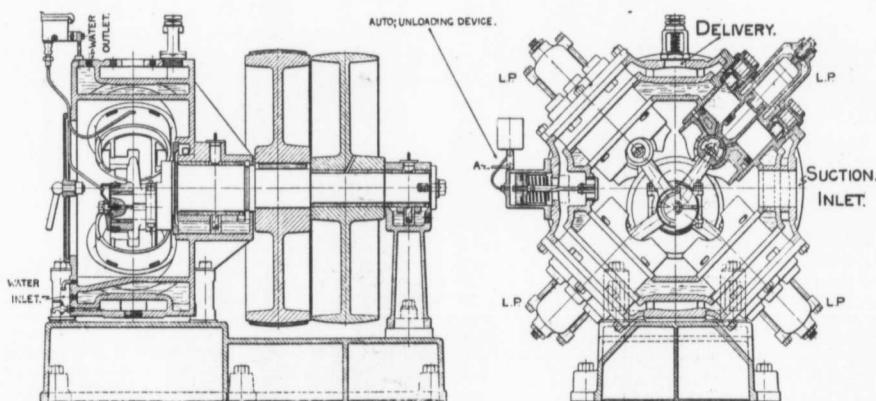
The "Reavell" High Speed Air Compressor

One of the most interesting machines shown in Machinery Hall at the Canadian National Exhibition, Toronto, was the Reavell patent quadruplex air compressor shown by J. F. B. Vandeleur, 3 Dineen Building, Toronto.

This compressor is a product of Reavell & Co., Ipswich, England. This firm was established nine years ago for the

Reavell's patents, until this machine now occupies the front rank in all industries where electric driving, the modern aid to cheap production, has been adopted.

To those of our readers who may not be familiar with its construction, the accompanying sectional illustration will make it clear.



SECTION OF STANDARD BELT-DRIVEN SINGLE-STAGE AIR COMPRESSOR.

a decided falling off in the output of gold, silver, lead, and copper.

The value of the total products of the mines of the province up to the end of 1907 is given as \$299,526,282. Coal makes the largest showing, viz, a total of \$86,972,551, followed by placer gold at \$69,549,103 and by lode gold at \$45,070,717.

construction of high speed engines and air compressors.

Having a plant equipped with the most modern tools and specializing on the above lines, particularly on air compressors for electric driving, the company have developed the quadruplex compressor, which they construct under

It will be seen that the Reavell compressor has four cylinders arranged radially in a circular-shaped casing, as shown in the sectional illustration on this page.

Each of the four cylinders is fitted with a trunk piston, and the four connecting rods are all driven by a common