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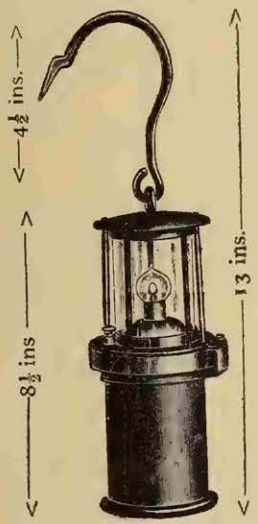
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THE "GOOD LUCK" MINING LAMP.

The "Good Luck" miners' safety lamp is of the newest type of self-contained electric light. The casing is one aluminium casting free from zinc. It is threaded round the upper circumference and gives a substantial fixing for the lantern base, which is bored out and threaded to suit. Thus is formed a complete, dust-proof, gas-proof, and air-tight combination. A heavy glass cylinder, ground to suit exactly, is fitted as a lantern glass and protects the lamp from all possible injury. The lamp itself is one of the latest metallic filament tungsten lamps, taking one watt per candle power, as against four watts per candle power taken by lamps of this form with a carbon filament.



Weight 4¾ lbs.

Accumulator.—The two negative electrodes and the one positive electrode that constitute the elements of the battery are especially strong and efficient. The positive consists of a heavy collecting frame in one piece and formed of longitudinal rings superposed at regular intervals. The frame thus formed carries the active material which is allowed to harden on it. By this arrangement not only is the manufacture of the collecting frame much simplified, but a battery of minimum weight and maximum surface is obtained, one that in its formation prevents disintegration. Of the two negative electrodes, each consisting of a double cast lead lattice cylinder, one fits inside of and the other outside of the positive. By this means the entire surface of the positive electrode is in action.

The accumulator is enclosed in a celluloid case, closed at the top with a double cover, and absolutely air-tight. Therefore the lamp can be operated in any position.

The lamp is locked by a magnetic lock and cannot be opened by any unauthorized person. It will burn for from ten to twelve hours with a discharge current of 0.75 amperes, giving a light of about 3 candle power. Orchard & Parker, Stair Building, Toronto, are the Canadian agents.

PAPER MILL PUMPS.

Capacity Equal to the City of Montreal Water Works.

The remarkable part played by pumping machinery in modern pulp and paper mills may be realized from the contract recently awarded by the Powell River Paper Company to the John McDougall Caledonian Iron Works Company, Limited, of Montreal. This contract calls for 11 Worthington centrifugal pumps varying in size from 3 inches to 12 inches at the discharge outlet. Two of these pumps, each having a capacity of 4,200 gallons per minute and driven by electric motors, will carry ground wood stock from the grinders to the screens. Two others, having a capacity of 4,000 gallons per minute each, and direct connected to water wheels, will carry ground wood stock to deckers. The remaining pumps will be used in connection with beaters and digesters and for boiler feed and general purposes.

These 11 pumps will have an aggregate capacity of 37,000,000 gallons daily, which is nearly equal to that of the city of Montreal water department, and will be built in the works of the company on William street. The Powell River Paper Company is backed chiefly by Minneapolis capitalists, and the mill is now being erected on the Powell River, a few miles from Vancouver, B.C.

The Jeffrey Manufacturing Company, office and works, corner Cote and Lagauchetiere streets, Montreal, Que., also having a Toronto office formerly in the Dineen Building, 8 Temperance street, has removed the Toronto office to more commodious quarters at 174 King street east.

Mr. H. W. Scott, mechanical engineer, formerly connected with the home office of this company in Columbus, O., is now in charge of the Montreal office and works.

The Jeffrey Manufacturing Company is an old, established concern, making a specialty of elevating and conveying appartus for handling all kinds of materials in lumber camps, mines, quarries, as well as conveying apparatus for handling materials from the docks, loading to vessels.

New machinery has been installed at the Montreal works for more economical production.

This company also has nearly 100 branch offices situated in the leading commercial centres all over the world.