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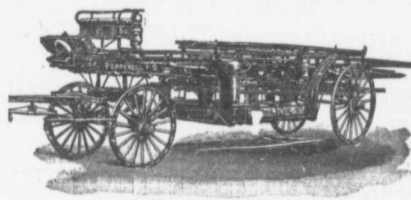
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THE OWEN SOUND PORTLAND CEMENT COMPANY, LIMITED

Owen Sound, Ont.

Works at SHALLOW LAKE, ONT.

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ELEVATORS FOR INDUSTRIAL PALACES.

"For large modern industrial plants, where electricity is used for the rest of the plant, the electric elevator is the only one," writes E. R. Carichoff in the "Electrical Review." "The motor and hoisting gear can be placed in any location adjacent to the elevator shaft. If such space is not available it can be placed at the bottom of the shaftway or at the top, immediately over the shaft. This flexibility of its location, as well as the possibility of bringing the power to it at a low cost, makes it more advantageous for such plants than any other.

"Where electricity can not be conveniently obtained but shafting is operated near the elevator shaft, an elevator driven by belts is used. This elevator is the same as the direct connected electric drum elevator with the motor replaced by belt pulleys, which can be connected to the shafting of the factory.

"Some electric elevators are made to be placed either on the floor or on the ceiling as is most convenient. Belt machines are likewise arranged in this manner.

"The electric elevators have almost entirely superseded the hydraulic elevators for industrial plants, and have many advantages over the latter. In the first place, they can be operated for about one-third the cost of the hydraulic. They have not the disadvantage of water leaking or freezing; they take up considerably less space, and do not require any special plant for their operation, as the current can be taken from any available electric power or light supply. They can be connected to the same circuit as the lights and have no effect on the latter.

"The hydraulic system requires a special pumping plant, which must be in operation whenever the elevators are to be used. They make necessary the placing of large, cumbersome and intricate piping.

"The electric elevator takes current approximately in proportion to the load it lifts, and has part of the load it lifts counterbalanced. In other words, they are run on the over-counterbalance system and they are very economical; the hydraulic elevator takes maximum power no matter what the load in the car may be; and as the pressure of the hydraulic system and the size of the cylinders must be arranged to lift the maximum load, and the average load is seldom more than one-third of this maximum, two-thirds of the power they consume is wasted.