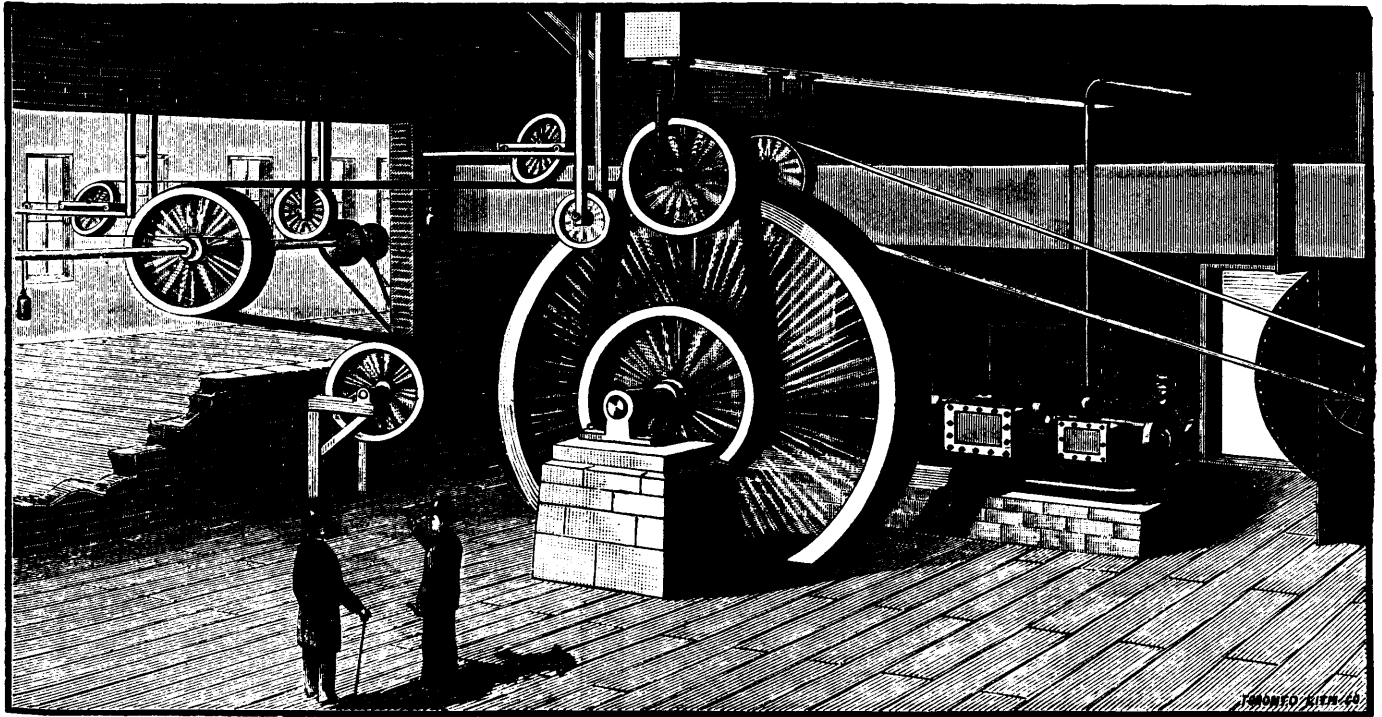


# ❖ ROPE ❖

## Transmission of Power



As in Use at the Works of the Dodge Wood Split Pulley Company, Toronto.

In this transmission the engine has two driving pulleys. The small one is 72 inches in diameter with eight ropes, which drives the large Sturtevant blower seen on the right. The large pulley is 153 inches in diameter, with rim of hard maple, grooved to carry eleven wraps of  $\frac{5}{8}$ -inch tallow-laid Manila rope, the connection being with a 63-inch grooved wood pulley on  $3\frac{1}{2}$ -inch main shaft, 250 feet long, from which is transmitted power to all the machinery in the main building. The engine is 100 horse-power; the travel of the rope is 5,000 feet per minute; the length of the rope is 1,280 feet, and the weight 180 pounds, the cost of which, at 16 cents per pound, is \$28.80. A good leather belt, equal to the same service, would cost \$224.00. The pull on the rope when transmitting this 100 horse-power is only  $1\frac{1}{2}$  per cent. of its breaking strain, while it is perfectly safe to use 10 per cent.

The Company have published a collection of over 30 specimen illustrations, with full descriptions of Rope Transmission of Power adapted for all possible circumstances, with other relative special matter, offering valuable suggestions to those who desire to apply rope for transmission of power over long distances. This is the most perfect system ever devised for transmitting the power of a prime mover to distant machinery. The publication and any desired information will be sent free on application to

# THE DODGE WOOD SPLIT PULLEY CO.

## TORONTO.

P. O. BOX 333.

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