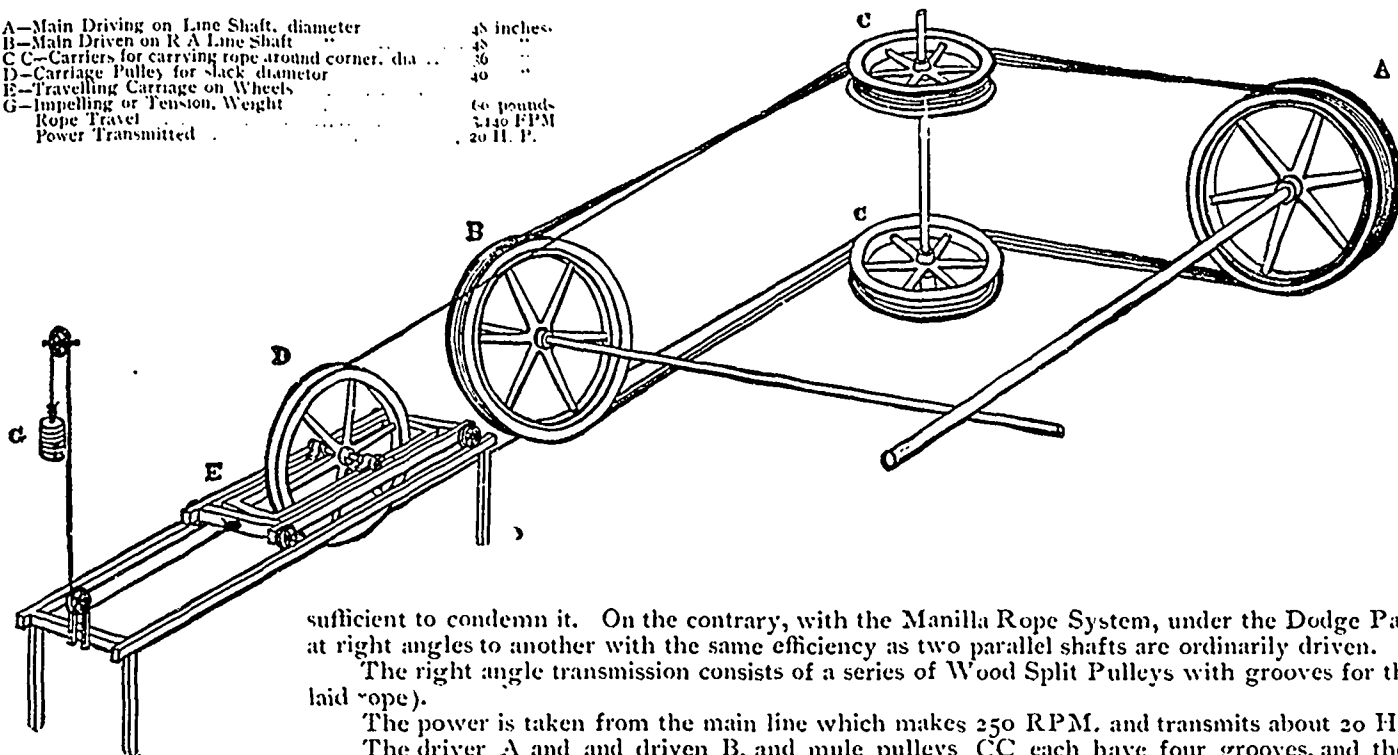


Rope Transmission of Power

» PATENTED. »

- A—Main Driving on Line Shaft, diameter 48 inches.
- B—Main Driven on R A Line Shaft 48 "
- C C—Carriers for carrying rope around corner, dia 36 "
- D—Carriage Pulley for slack diameter 40 "
- E—Travelling Carriage on Wheels 60 pounds.
- G—Impelling or Tension, Weight 2,140 FPM.
- Rope Travel 20 H. P.
- Power Transmitted



THIS illustration of Manilla Rope Transmission, is one of great interest to all manufacturers, inasmuch as it demonstrates the simplicity with which a shaft may be run at right angles to the driver and with little or no loss of power. It is a well known fact, however, that with gears there is a great loss of power from friction, and many other disagreeable points of contention; also with a belt and set of mule pulleys, there is a great loss by imperfect contact of the belt with the pulleys, journal friction, and other annoyances

sufficient to condemn it. On the contrary, with the Manilla Rope System, under the Dodge Patents, a shaft may be driven at right angles to another with the same efficiency as two parallel shafts are ordinarily driven.

The right angle transmission consists of a series of Wood Split Pulleys with grooves for the rope, (best manilla tallow laid rope).

The power is taken from the main line which makes 250 RPM. and transmits about 20 H.P.

The driver A and driven B, and mule pulleys CC each have four grooves, and the carriage pulley D has one groove. It will be noticed that the driver A and driven B act as winders, and the rope is wound from one to the other to get surface in contact; the mule pulleys CC are simply carriers, carrying the rope around the corner, and are so placed that the travelling carriage always keeps the rope at an even tension, so that the ropes will always follow the grooves, and the rope is thus guided to and from the driven, always keeping its alignment.

The merits of this system are its simplicity, great efficiency, cheapness, and wonderful saving in journal friction as compared with gears or a heavy belt with mule pulleys. For any information apply to

The Dodge Wood Split Pulley Co., 111 Adelaide St. W., Toronto.

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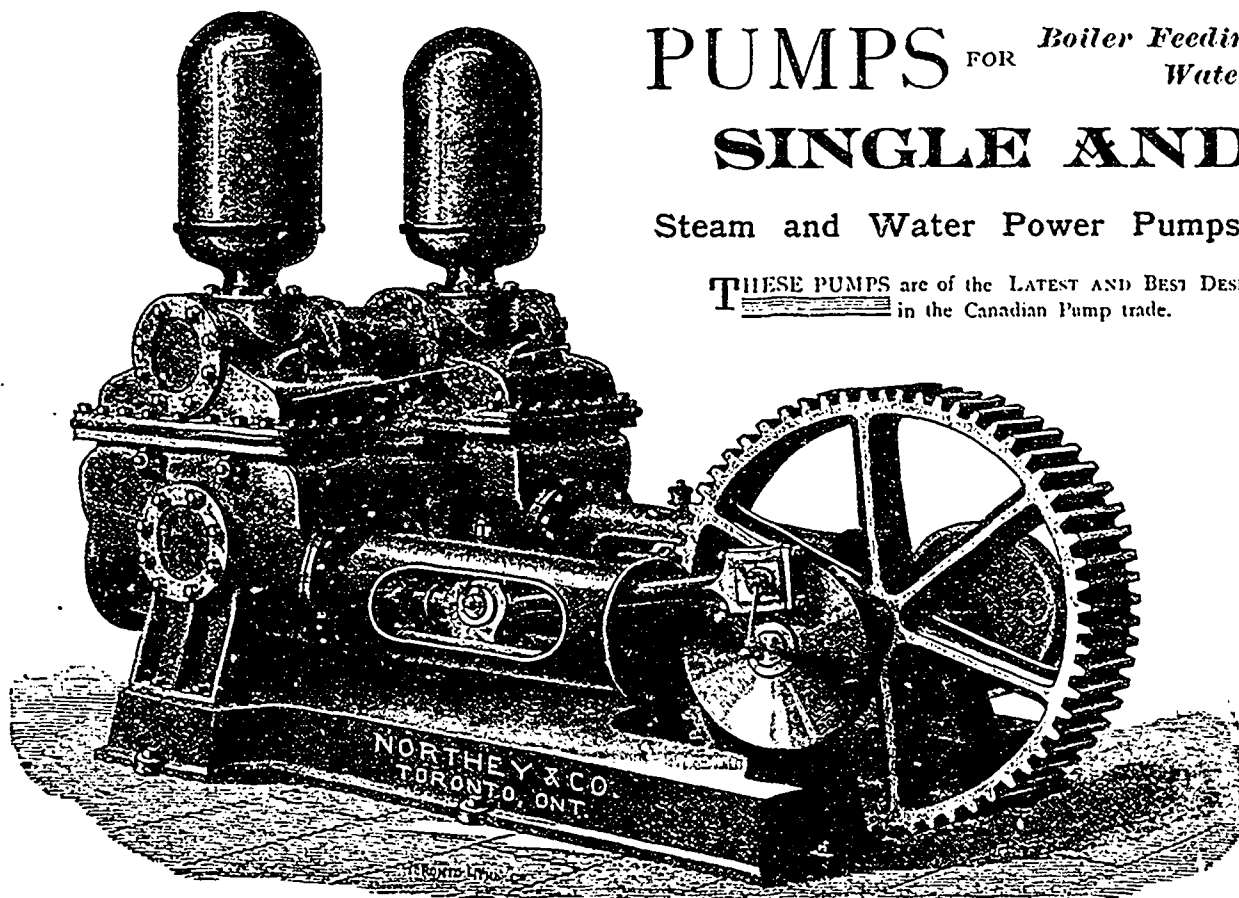
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