

FOOD FOR THOUGHT

- BY -

JOHN MORLEY

• • I think one of the most satisfactory tests as regards the driving qualities of a belt over a wood or iron pulley, was made at the J. A. McKinnon Machinery Company's store, 22 Warren Street, New York, recently.

An upright engine was used, on which was placed for a drive an iron pulley, 42" diameter, 10" face, driving onto a Dodge Wood Split Pulley, 20" diameter of the same face as the iron pulley.

On this driven shaft was placed a Dodge Wood Split Pulley, 54" diameter, which became a driver for an electric light dynamo.

The test consisted in blocking the engine driving pulley with a bar, and taking hold of the driving belt on the dynamo, keeping the same in motion, together with the engine drive-belt (which was strained up taut); but the belt slipped around the large iron pulley, while it hugged the small wood pulley, without a perceptible slip at this point.

There was at least 70 per cent. more belt surface in contact with the iron pulley than with the wood, which makes a practical demonstration of the fact that a wood pulley will drive from 40 to 60 per cent. more machinery, with the same tension of belt, than iron with like tension.

I will add that the iron pulley was in prime condition as to face for belt drive.

This remarkable test is attracting a great deal of attention, and it is well worth an investigation. Mr. McKinnon will at all times be happy to demonstrate this experiment to those interested.

Such experiments effectually settle the fact that the use of iron pulleys must soon become a thing of the past, and that wood pulleys are as certain to take their place in all first-class manufactories.

The Dodge Manufacturing Co., of Mishawaka, Indiana, have been awarded the contract for equipping, throughout, the new carriage factory of the Studebaker Bros., Manufacturing Co., located on Michigan Avenue, Chicago, Ill., with their patent Independence Wood Split Pulleys. They will also put in one of the Dodge Rope Transmission Systems, to carry power from the basement to the eighth floor. It will require over one hundred pulleys for the new factory. As this will be the model carriage repository and factory of the world, it speaks well for the merits of the Dodge Wood Split Pulleys and their Rope Transmission System. The Studebaker Brothers have also had large numbers of these pulleys in use at their South Bend (Indiana) works for a number of years.