DOMINION SAW WORKS

JAS. ROBERTSON & CO. JAMES ROBERTSON

Toronto,

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Prices on Application.

Circular. Shingle Gang. Cross Cut. Concave, Mulay, Drag, Grooving.

Thurber's Royal ANTI-FRICTION : BABBIT : METAL.

Importers and Dealers in

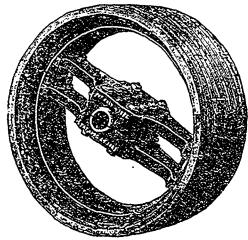
Band Saws. **Emery Wheels** Saw Swages, Rubber Belting,

Saw Sets, Iron Pipe, Leather Belting,

Files, &c.

DODGE * PATENT * WOOD * SEPARABI

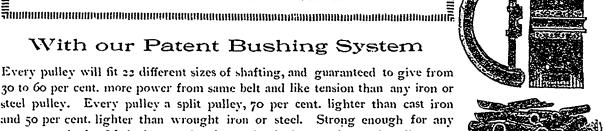
Saw Gummers.



BEST BELT SURFACE, LIGHTEST, STRONGEST. BEST BALANCED AND MOST CONVENIENT PULLEY IN THE WORLD.

With our Patent Bushing System

Every pulley will fit 22 different sizes of shafting, and guaranteed to give from 30 to 60 per cent, more power from same belt and like tension than any iron or steel pulley. Every pulley a split pulley, 70 per cent. lighter than cast iron and 50 per cent, lighter than wrought iron or steel. Strong enough for any power required. Made in any size from nine inches to sixteen feet diameter.



fact that it holds a helt much better. Most good mechanics are aware of this fact, but it may not be generally known how great is the difference, and for the benefit of our readers we give the result of two tests made and published by two of the most eminent mechanical authorities :-

Kel value of leather belt			Rel. value of leather belt		
Portion of Counterance of braced by Ike	On Wooden Pulleys.	On Iron Poffeys.	Portion of C. cumference en braced by Bel	On Wooden Pulleys.	On Iron Pulleys.
-20	1.So	1.42	.20	1.90	1.40
-30	2.43	1.69	.30	2.40	1.70
.40	3.26	2.02	.40	3.30	2.00
-50 -60	4.38 5.88	2.41	.50	4.40	2.40
	5.88	2.87	.čo	5.90	2.90
.70	7.90	3.43	.70	7.90	3.40
Morin - Appleton's Encylopedia of Mechanical Arts.			Haswell Engineers' and Mech- anics' Pocket Book		

A Dodge Patent Wood Pulley is better than iron from the , securing with this fastening. A pulley fastened with key or

As a material for pulleys wood is better than iron from the 1 fact that it can be made very much lighter and thus save weight on the line shaft and bearings, thereby saving in expense from a saving in friction.

> The advantages of the separable pulley are very apparent. By its use the necessity of taking down shafting already up for the purpose of putting on additional pulleys when needed, or to be changed, is avoided, thus saving time, trouble and expense, while their first cost is much less than any other pulley made not having these advantages.

> The Compression Fastening whether used with keys in ton center or compression alone, keeps the pulley always in entraces as the compression on the shaft and key is always towards the

> The most perfect balanced iron pulley fastened with set screws or key, is invariably out of balance by being thrown from the centre, this fact is obvious to all mechanics.

> The advantages of our mode of fastening over any other are: It is the only absolutely true fastening for a pulley. A pulley once properly balanced cannot be thrown out of balance in

set screw in the ordinary way, cannot be screwed without lifting the pulley from the shaft at that point where the key or set screw is placed, thus throwing the pulley out of balance.

Manufacturers should carefully avoid any pulley with a set screw fastening for shaft; also a key unless the pulley is compressed on it. The Dodge Patent Bushing system is a great convenience to manufacturers and also to agents who carry pulleys in stock, as with the aid of the patent bushings every pulley will fit 22 different sizes of shafts.

Haswell the acknowledged authority and most quoted by American mechanics, summarizes thus: The ratio is friction to pressure of leather belts, when worn over wooden pulleys is 47, over turned cast iron pulleys, 24, thus showing the average advantage of a wood pulley over iron to be 50 per cent.

We also manufacture GROOVED HARD WOOD PUL-LEYS FOR TRANSMITTING POWER'BY MANILLA ROPES (tallow laid) by the Dodge Patent System of applying the ropes and taking care of the slack.

Illustrated catalogues of belt pulleys and the rope transmis-ision system will be furnished on application to

The Dodge Wood Split Pulley Co., 89 Adelaide St. W., Toronto.