

PERSONAL.

Alderman James Scott, manager of the Georgian Bay Lumber Co., is on a holiday trip south.

Mr. John Waldie, manager of the Victoria Harbor Lumber Co., has been nominated by the Liberals of Halton, for the Commons in the coming Dominion elections. Mr. Waldie, some years ago, was the Liberal member for Halton.

John Armstrong, of the firm of S. & J. Armstrong, McKellar, Ont., died of pneumonia at Parry Sound on the 16th of March. Mr. Armstrong has been contracting in logs in this district for over 28 years, and has lumbered in nearly every township on the west side of the district.

ROPE DRIVES.

FOR rope drives, the common rule is not to make the diameter of the smallest pulley less than thirty times the diameter of the rope, and even larger than this is to be preferred. For wire rope it should be still more, and from 50 to 100 times the rope diameter is the common practice when these are used. Excepting for very long transmissions, the wire is seldom used in regular driving, as its weight is objectionable, and its advantages are not enough to make it popular over manilla or cotton ropes.

"MYSTERY" OF BOILER EXPLOSIONS.

WHILE the "mystery" that has so long surrounded boiler explosions seems to be gradually lifting, a great many of the things occurring around an active steam plant have a tinge of the marvelous about them that has a decided tendency to quicken the perceptive faculties of the man who is called on to wrestle with them. A short time ago a neighbor asked my opinion as to the singular action of his boiler, which he had left with nearly three gages of water the night before and had found it in the morning without any water visible in the glass. He was confident that none of the valves were leaking, and when that explanation was suggested, and could not imagine any probable way to account for this loss. A few days afterwards I met him again, and the matter had been cleared up to his satisfaction. It seems that the day before he had left the boiler in the same shape as he commonly did, which sometimes included a partially opened injector valve. As he drew his feed water from a barrel, when the injector ceased working it became virtually a siphon, which drew the water out of the boiler. As on the latter occasion he had merely shut down for dinner, he had returned before much of the water had got out, but it is safe to say

that he will be careful to shut all valves hereafter.—F. Riddel in Power.

ADVANTAGES OF WOOD PULLEYS.

THE practical advantages of wooden over iron pulleys are briefly summarized by Power and Transmission as follows:—

Saving in power by better traction surface for belt, 33 per cent.

Saving in weight, 70 per cent.

Reduced size and weight of shafting, hanging, etc.

Corresponding saving in power required to overcome friction in bearings, etc.

Gain in safety speed limit, 400 per cent.

Saving in time in putting on or off the shafts.

Saving in time in procuring pulley when wanted.

Saving in avoiding mutilation or distortion of shafting.

All these considerations become augmented in importance as speeds are increased, and are, therefore, of especial interest to all who are operating electrical machinery.

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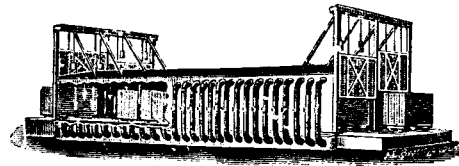
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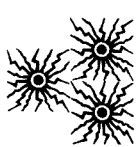
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