

(No Model.)

E. J. PENNINGTON.  
PULLEY.

No. 419,792.

Patented Jan. 21, 1890.

Fig. 1.

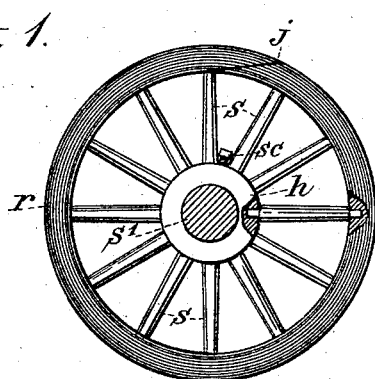


Fig. 2.

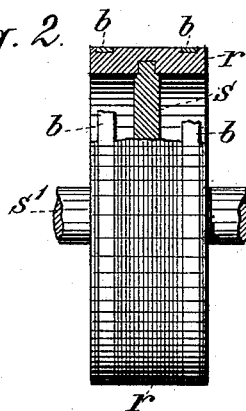
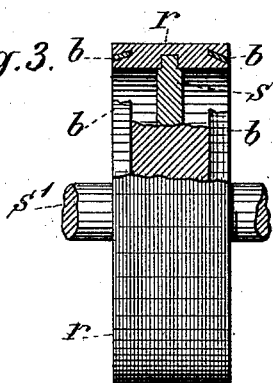


Fig. 3.



WITNESSES.

Gustav Böhm.  
E. B. Griffith.

INVENTOR.

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By C. F. Jacobs  
Atty.

# UNITED STATES PATENT OFFICE.

EDWARD J. PENNINGTON, OF MOUNT CARMEL, ILLINOIS.

## PULLEY.

SPECIFICATION forming part of Letters Patent No. 419,792, dated January 21, 1890.

Application filed November 25, 1889. Serial No. 331,423. (No model.)

*To all whom it may concern:*

Be it known that I, EDWARD J. PENNINGTON, of Mount Carmel, county of Wabash, and State of Illinois, have invented certain new and useful Improvements in Pulleys; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which like letters refer to like parts.

My invention relates to the construction of wooden pulleys, and will be understood from the following description.

In the drawings, Figure 1 is a side view, partly broken away, of my device. Fig. 2 is a face view, partly broken away, of the same. Fig. 3 is a view similar to Fig. 2, showing a little different arrangement of the metal bands.

In detail the pulley is made of a hub *h*, preferably of metal, which is intended to be locked upon the line-shaft *s'* by a set-screw *sc*; or it may be keyed on in the ordinary manner. In this hub are driven wooden spokes *s*, which are tenoned into a wooden rim *r*, which is made of a continuous piece of wood, the grain running around in the direction of the rim. The ends are lapped, as shown at *j* in Fig. 1, and the whole is held firmly in place by metal bands *b*, which are either bound about the face of the rim, being countersunk, as shown in Fig. 2, or are set in at an angle in the edge of the rim, as shown in Fig. 3.

The lap of the rim may be additionally secured by screws or nails, if desired. The whole makes a strong and light pulley, economical in cost, and capable of bearing considerable strain without breaking down.

In order to let the bands into the rim, a kerf is sawed or cut into the edge of the rim before the metal bands are inserted, the bands being flared to correspond with the angle of the kerf or cut.

What I claim as my invention, and desire to secure by Letters Patent, is the following:

1. A pulley comprising a hub, spokes driven into the hub and tenoned into the rim, such rim composed of a continuous strip of wood, its ends lapped, as shown, the whole structure secured by metal bands let into the rim, substantially as shown and described.

2. A pulley comprising a hub *h*, spokes *s*, driven into such hub, tenoned into the wooden rim *r*, such rim composed of a continuous strip of wood, its ends lapped, as shown, the whole structure braced and held together by flaring bands let into grooves in the rim, substantially as shown and described.

In witness whereof I have hereunto set my hand this 16th day of November, 1889.

EDWARD J. PENNINGTON.

Witnesses:

C. P. JACOBS,  
E. B. GRIFFITH.