

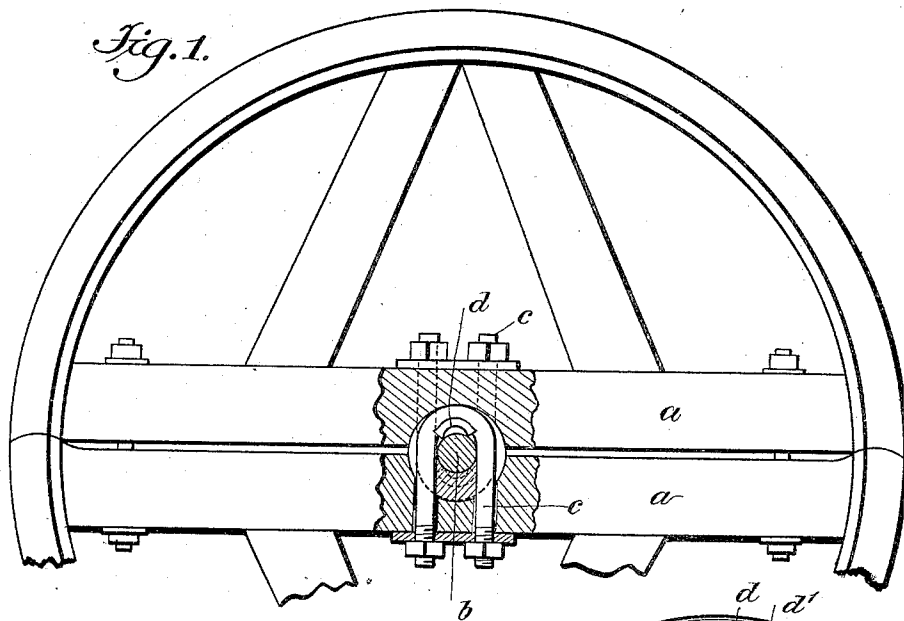
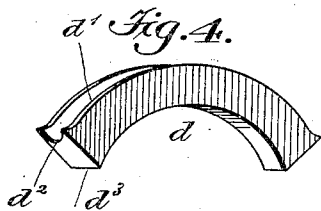
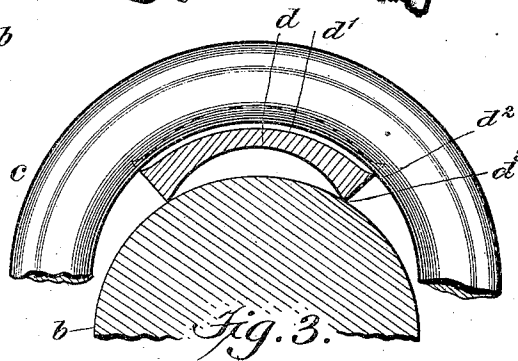
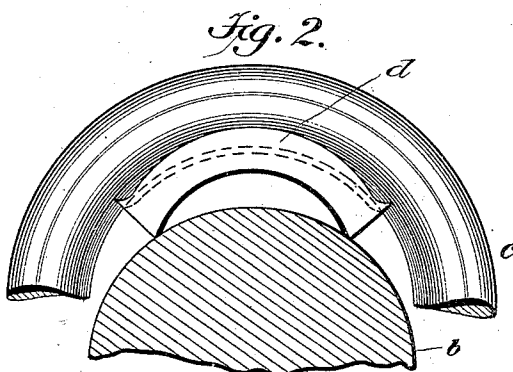
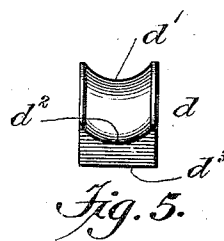
No. 696,636.

Patented Apr. 1, 1902.

A. W. HIGHT.
SPLIT PULLEY ATTACHMENT.

(Application filed June 4, 1901.)

(No Model.)



WITNESSES:

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UNITED STATES PATENT OFFICE.

ALBERT WATSON HIGHT, OF BALLARD, WASHINGTON, ASSIGNOR OF ONE-HALF TO EBEN B. SANKEY, OF SEATTLE, WASHINGTON.

SPLIT-PULLEY ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 696,636, dated April 1, 1902.

Application filed June 4, 1901. Serial No. 63,053. (No model.)

To all whom it may concern:

Be it known that I, ALBERT WATSON HIGHT, a citizen of the United States, and a resident of Ballard, in the county of King and State of Washington, have invented a new and Improved Split-Pulley Attachment, of which the following is a full, clear, and exact description.

This invention relates to a means for holding firmly the sections of a split pulley upon a shaft. In the form of split pulleys to which my invention relates two pulley-sections are employed, and these sections are held in place by U-bolts, which pass through the pulley-sections and around the shaft. Great difficulty has been experienced in holding the U-bolts firmly engaged with the shaft, and my invention relates to a certain device for effectively accomplishing this result.

This specification is a specific description of one form of the invention, while the claim is a definition of the actual scope thereof.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a fragmentary view of a pulley, showing the invention in use. Fig. 2 is an enlarged view showing the position of the attachment with respect to the U-bolt and shaft. Fig. 3 is a section through the parts shown in Fig. 2. Fig. 4 is a detail perspective of the attachment, and Fig. 5 is an end elevation thereof.

a indicates the pulley-sections, b the shaft, and c the U-bolts, which hold the sections a on the shaft.

My invention comprises a segmental bar d , having in its outer face a groove d' , receiving the U-bolt, and having at the ends of the said outer face sharp edges d^2 , adapted to impinge

against the U-bolt, as shown in Fig. 2. The segment has at the inner portions of its ends sharp edges d^3 , which are adapted to impinge against the shaft b . As shown in the drawings, the segment is curved in an arc eccentric to the circumference of the shaft, so that only the points d^3 of the segment engage the shaft. The same is true of the groove d' with respect to the U-bolt c —that is to say, only the edges d^2 of the segment engage the U-bolt.

When the U-bolts are tightened in place and one of the segments is applied to each U-bolt, as shown in Fig. 1, the points or edges d^2 are forced into engagement with the U-bolts and the points d^3 are forced into engagement with the shaft. This holds the parts b and c rigidly together and prevents any turning movement of the U-bolts on the shaft irrespective of the direction in which the pulley revolves.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

In a split pulley, the combination with the pulley-sections, the shaft, and U-bolts holding the sections on the shaft, of a segmental bar fitted to each U-bolt and the shaft to fasten the U-bolts and shaft together, said segmental bar having at each end oppositely-disposed sharp edges engaging respectively with the shaft and U-bolts, the intermediate portions of the bar being respectively free from engagement with the U-bolts and shaft, for the purpose specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ALBERT WATSON HIGHT.

Witnesses:

DAVID McVAY,
W. H. McEWEN.