Oct. 30, 1923. 1,472,145

A. VILLENEUVE

SPLIT PULLEY

Filed Dec. 24, 1921 2 Sheets-Sheet 1

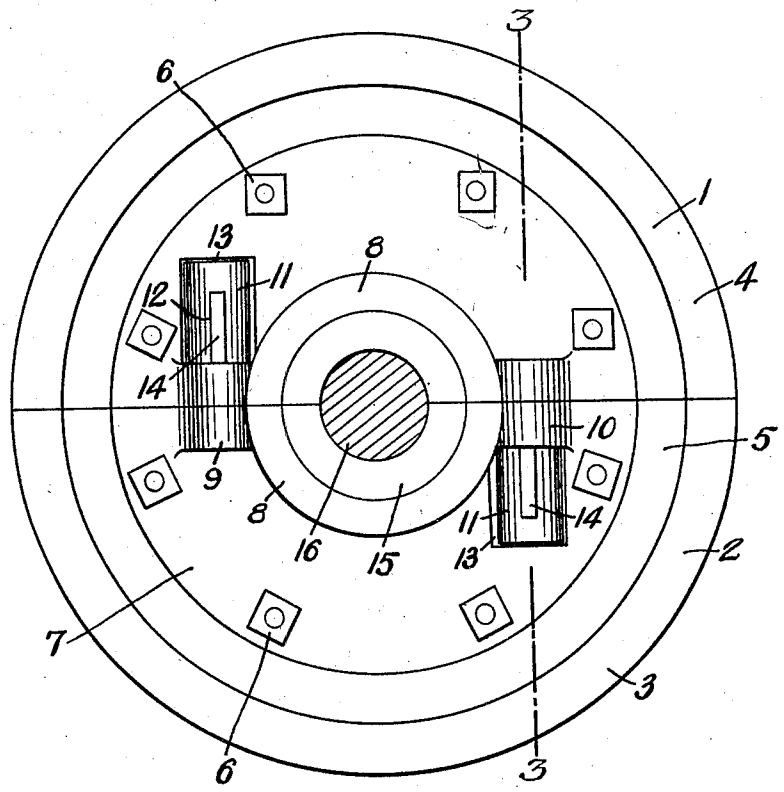


Fig. 1.

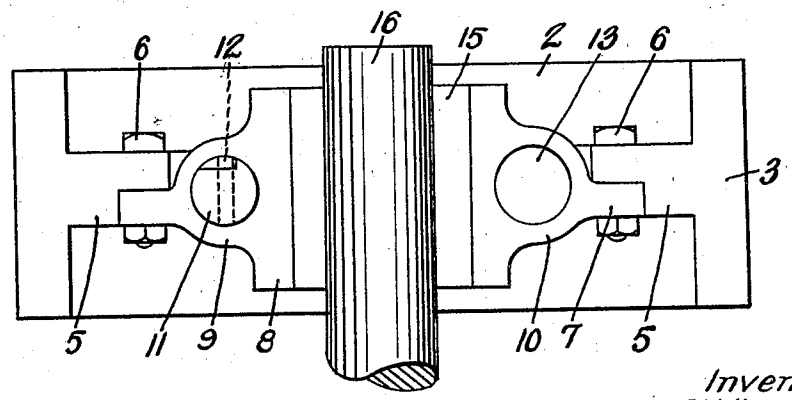


Fig. 2.

Inventor
A. Villeneuve
By
Attorney

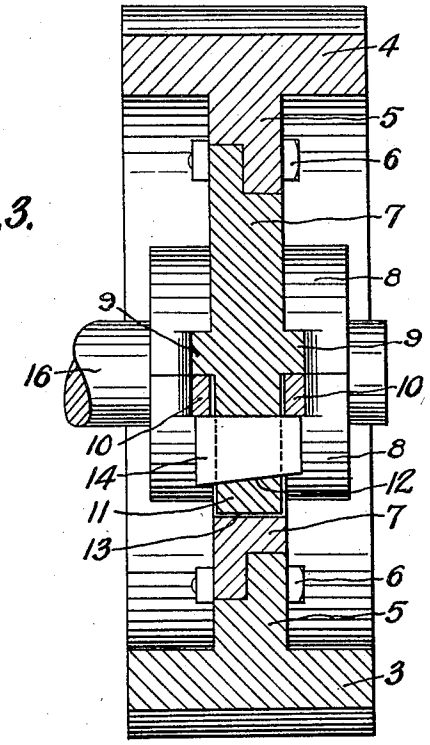
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Filed Dec. 24, 1921 2 Sheets-Sheet 2

Fig. 3.



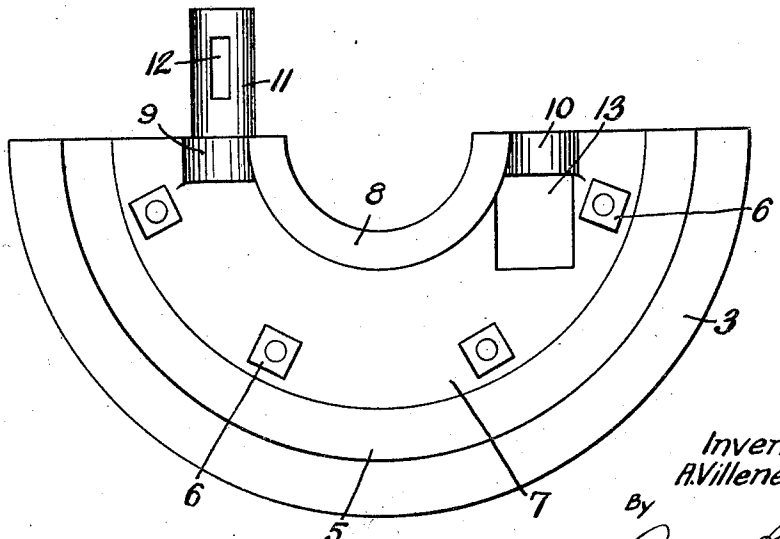


Fig. 4.

Inventor
A. Villeneuve
By
Louis Legrand
Attorney

Patented Oct. 30, 1923. 1,472,145

UNITED STATES PATENT OFFICE.

ARCHILLE VILLENEUVE, OF LEVIS, QUEBEC, CANADA, ASSIGNOR TO LEVIS TOOL FACTORY, LTD., OF LEVIS, QUEBEC, CANADA.

SPLIT PULLEY.

Application filed December 24, 1921. Serial No. 524,765.

To all whom it may concern:

Be it known that I, ARCHILLE VILLENEUVE, a British subject, residing at St. George Street, in Levis, Province of Quebec, Dominion of Canada, have invented certain new and useful Improvements in Split Pulleys; and I do hereby declare that the following is a true, clear, and correct description of the same.

The present invention relates to improvements in split pulleys and is fully described in the following specification and illustrated in the accompanying drawings, in which:—

Figure 1 is a side elevation of a pulley according to the invention.

Figure 2 is an inner end view of one section of the pulley.

Figure 3 is a vertical sectional view on line 3—3 of Figure 1.

Figure 4 is a side elevation of one of the sections of the pulley.

Like numerals of reference indicate corresponding parts in each figure.

Referring to the drawings, the pulley comprises two semi-circular sections 1 and 2, said sections being provided with the pulley surfaces 3 and 4 respectively, each of which is provided with an inner central flange 5. To said flange 5 is rigidly secured by means of the bolts 6 the connecting plate or web 7, to which is secured the semi-hub 8.

At the meeting edges of said semi-sections 1 and 2, on opposite sides of said hubs 8, are provided enlarged portions 9 and 10 respectively. From the enlarged portion 9 of each section 1 or 2 projects an upright pin 11, which is longitudinally slotted at 12, while in the opposite enlarged portion 10 of the other section is provided a hole 13 which extends through a portion of the web plate 7, each hole 13 being adapted to receive the pin 11 provided on the opposite pulley section.

When the sections 1 and 2 are united, a wedge member 14 is inserted through the elongated hole 12 in each of the pins 11, thereby firmly securing said sections 1 and 2 together.

The pulley surfaces 3 and 4 may be of wood or any other suitable material, while the web portion 7 and the hub 8 of each section, together with the pin 11, are of metal and are preferably cast in one piece.

A split bushing 15 is provided in said hubs 8 that will be readily replaced when worn out.

The principal object of the present invention is to provide a split pulley of the character above described, that can readily be removed for repairs or quickly mounted on the shaft 16 and the parts of which are fastened together by means of the wedge members 14.

What I claim as my invention is:—

A split pulley, embodying a pair of companion sections, each comprising a hub portion, a rim portion and a connecting web therebetween; said companion sections having mating edges, each of which is formed at opposite sides of the hub portion thereof with a pair of enlargements, one enlargement of each such pair having a hole which extends therethrough into the adjacent portion of the web, and the other enlargement having a pin secured in it and provided with a projecting part which is slotted; the enlargements on one section being located immediately opposite those on the other section, so that the projecting part of the pin on each section will extend through the opposite enlargement in the other section and into the hole in the web of the latter section and its slot will be exposed in said hole; and a wedge member inserted through the slot in the projecting part of each pin.

Signed at Montreal, Quebec, Canada, this sixteenth day of August, 1921.

ARCHILLE VILLENEUVE.

Witnesses:

J. PLACIDE DOLINE,

C. PATENAUDE.