W. N. MECKLAN.

PULLEY.

APPLICATION FILED SEPT. 3, 1910

979,873. **Patented Dec. 27, 1910.**

Fig. 1.

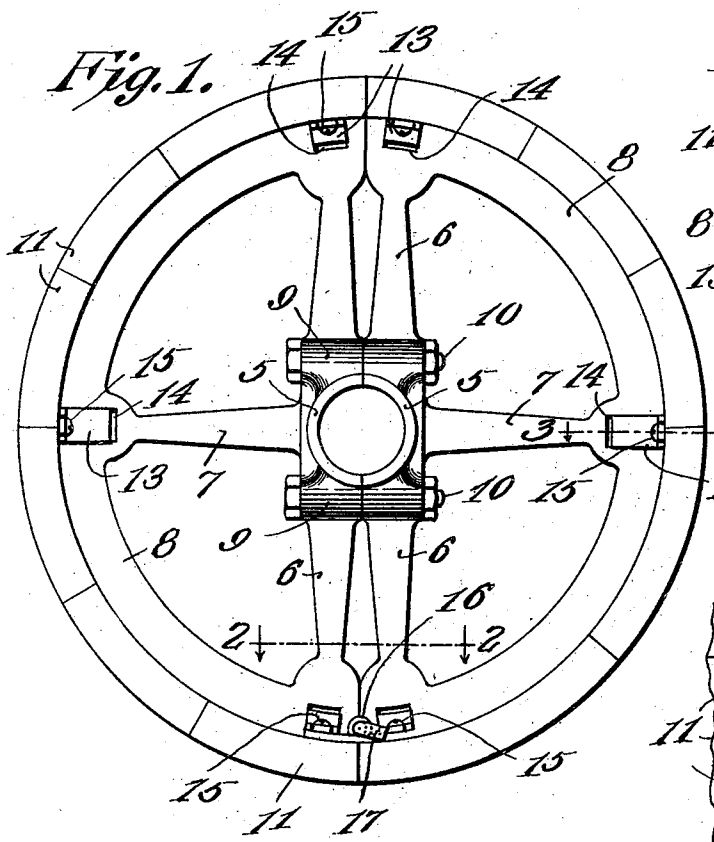


Fig. 2.

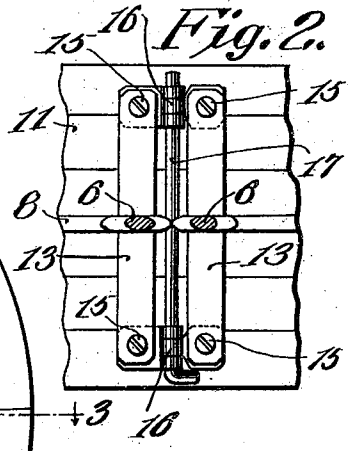


Fig. 3.

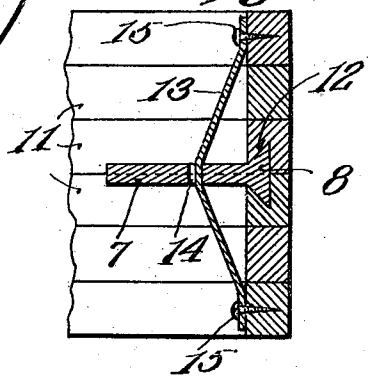


Fig. 4.

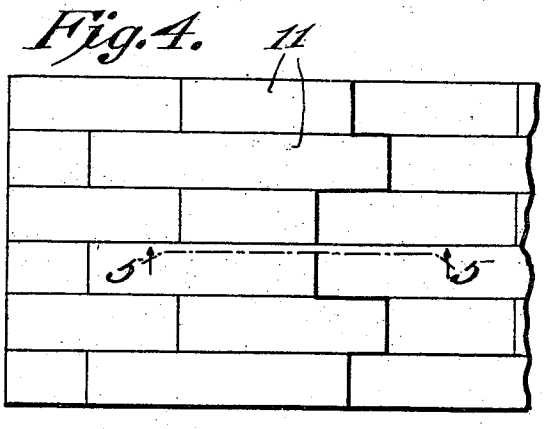
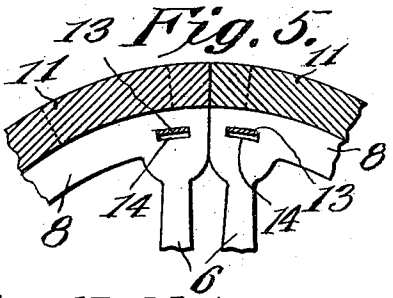


Fig. 5.



Witnesses

J. R. Conklin

F. G. Smith

Walter N. Mecklan,

Inventor

by C. A. Snow & Co.

Attorneys

UNITED STATES PATENT OFFICE.

WALTER N. MECKLAN, OF MEMPHIS, TENNESSEE, ASSIGNOR OF ONE-HALF TO JAMES P. ROWE, OF MEMPHIS, TENNESSEE.

PULLEY.

979,873. Specification of Letters Patent. **Patented Dec. 27, 1910.**

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To all whom it may concern:

Be it known that I, WALTER N. MECKLAN, a citizen of the United States, residing at Memphis, in the county of Shelby and State of Tennessee, have invented a new and useful Pulley, of which the following is a specification.

It is the object of this invention to provide an improved pulley of the split type and more particularly to provide a split pulley having a sectional metallic body frame upon the sections of which are held wooden or similar facing sections.

One feature of the invention resides in the peculiar manner in which the facing sections are secured to the metallic frame sections, the manner of attachment being such as to insure against the facing sections being thrown off by centrifugal force.

A further feature of the invention resides in the manner of arranging the segments of the wood facing of the pulley so that the sections of the facing will not be liable to become laterally displaced.

With the above and other objects in view, the invention resides in the general construction and arrangement of parts shown in the accompanying drawings, in which,

Figure 1 is a side elevation of a pulley constructed in accordance with the present invention. Fig. 2 is a sectional view on the line 2—2 of Fig. 1 looking in the direction indicated by the arrows. Fig. 3 is a similar view on the line 3—3 of Fig. 1. Fig. 4 is a fragmentary plan view of the pulley looking at the top of the pulley in the position shown in Fig. 1 of the drawings. Fig. 5 is a sectional view on the line 5—5 of Fig. 4 looking in the direction of the arrows.

The pulley embodies, primarily, a body frame which is made up of two sections. Each of these sections includes a hub portion indicated by the numeral 5 and spokes 6 and 7, the spokes 6 extending directly in opposite directions and the spokes 7 at right angles to the spokes 6 and between the same. Integral with the spokes 6 and 7 of each frame section at their outer ends, is a semi-annular rim 8. In cross section, the rim 8 is substantially triangular or of the shape shown in Fig. 3 of the drawings. At this point it will be observed that the outer ends of the spokes 6 are integral with the rim sections 8 at their extremities and that the spokes 7 are integral with the respective rim sections at a point midway between their extremities. It will further be observed that the hub portions 5 of the two frame sections are provided with registering ears 9 through which are secured bolts 10, these bolts serving to hold the sections to the frame in connected relation.

The facing of the pulley is, as heretofore stated, preferably of wood and is made up of a number of segments in the form of arcuate wooden strips of any desired or proper length, these strips being indicated by the numeral 11. The strips, in making up the sectional facing, are disposed side by side in interdigitated relation as is clearly shown in Fig. 4 of the drawings and are in this relation glued or otherwise secured together. While any number of annular series of these segments may be employed in making up a pulley facing of any desired width, six such series are shown in the accompanying drawings and the two intermediate series have the opposing or meeting edges of their segments dove-tailed as at 12 whereby to receive, in dove-tailed relation, the rim 8 of the sections of the pulley frame. From an inspection of Fig. 4 of the drawings, in which the heavy lines indicate the line of division between the two facing sections at the upper side of the pulley in Fig. 1 of the drawings, it is seen that this line of division is not a straight line extending across the pulley from side to side but that the segments of the sections of the pulley facing at this point are interdigitated so that lateral separation of the sections will not be likely to occur.

As a means for bracing the segments of the pulley sections against centrifugal stress to which they are naturally subjected when the pulley is rotating, and to brace them with respect to the sections of the pulley frame, there are provided strips 13 which are inserted through slots 14 formed in the rim 8 of the pulley frame sections at the point of juncture of the spokes 6 and 7 therewith and the extremities of these strips have screws 15 secured through them and into the inner peripheral surface of the pulley facing. It will be observed that these strips perform the same function with the same degree of efficiency as would a wide rim in place of the narrow rim of the pulley frame.

As a means for locking the interdigitated ends of the pulley sections together, the sec-

tions are provided at their said ends with interfitting ear members 16 through which pins 17 are inserted.

What is claimed is:—

In a pulley, a frame including a rim outwardly widened in cross section, a facing comprising segments arranged in annular series with the meeting edges of the segments of two series grooved and receiving the said rim of the frame, and strengthening strips secured through the rims and attached to the inner peripheral surface of the facing at opposite sides of the rim.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WALTER N. MECKLAN.

Witnesses:

L. C. FREEMAN,

G. C. RIEVY.