No. 790,094. PATENTED MAY 16, 1905.

O. WOLD.

PULLEY.

APPLICATION FILED DEC. 31, 1904.

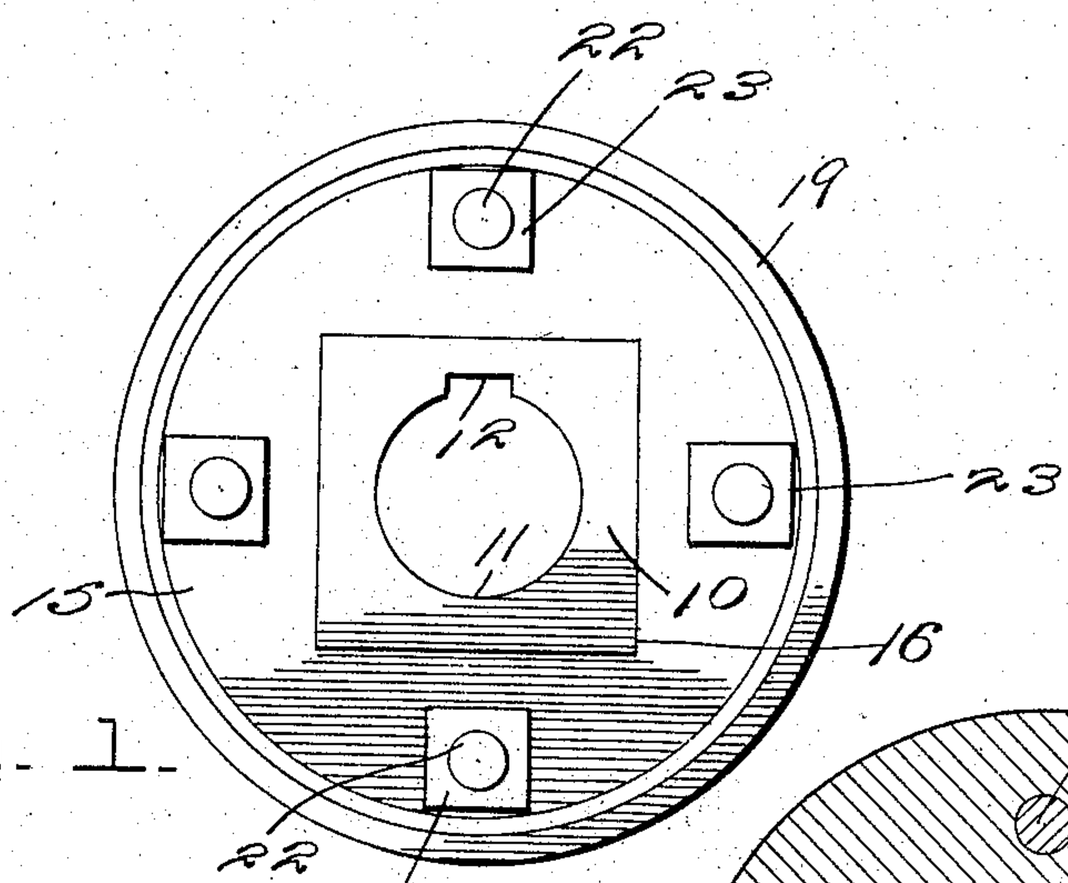

Fig. 1.

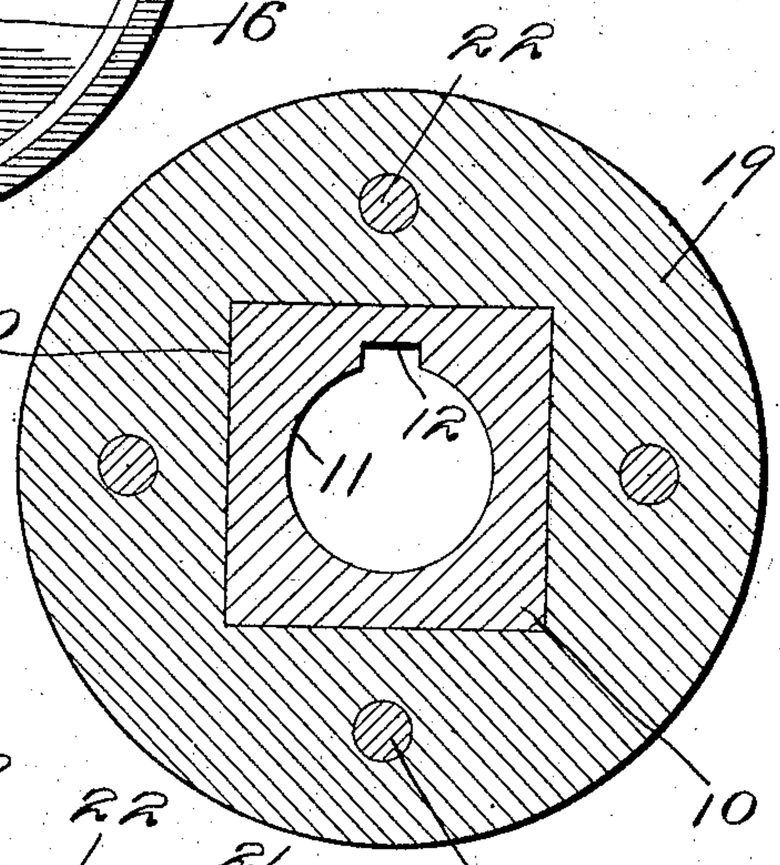

Fig. 3.

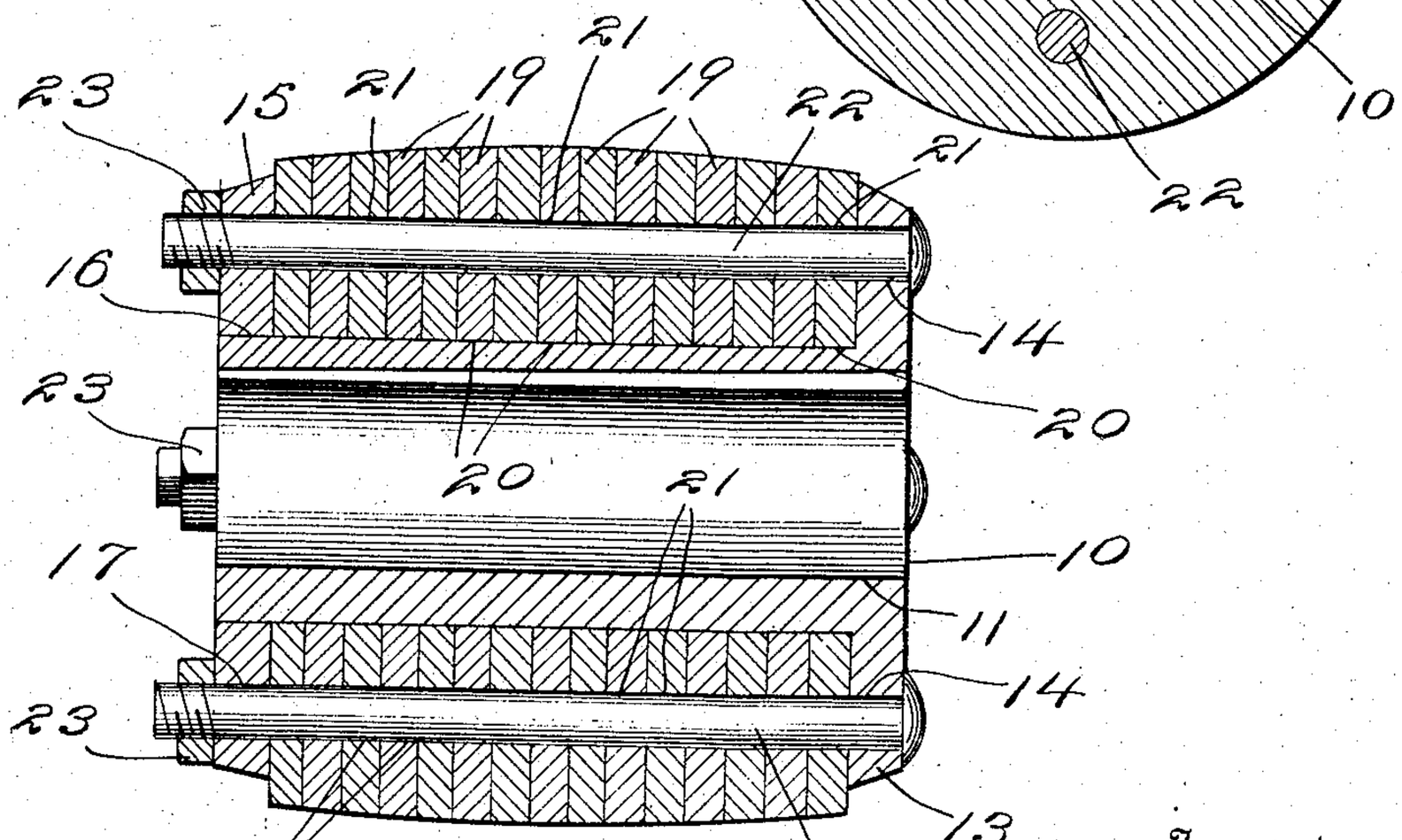

Fig. 2.

Witnesses
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UNITED STATES PATENT OFFICE.

OTTO WOLD, OF VALLEY CITY, NORTH DAKOTA.

PULLEY.

SPECIFICATION forming part of Letters Patent No. 790,094, dated May 16, 1905.

Application filed December 31, 1904. Serial No. 239,192.

To all whom it may concern:

Be it known that I, OTTO WOLD, a citizen of the United States, residing at Valley City, in the county of Barnes, State of North Dakota, have invented certain new and useful Improvements in Pulleys; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to pulley-wheels or belt-pulleys; and it has for its object to provide an article of this nature wherein the belt will be held positively against slipping and in which the members forming the wearing-face of the pulley will be held positively against turning on their hub and wherein, furthermore, worn parts may be easily and quickly removed and new parts substituted therefor.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts in the several views, Figure 1 is an end elevation showing a pulley-wheel embodying the present invention. Fig. 2 is a central longitudinal section through the pulley. Fig. 3 is a transverse section through the pulley.

Referring now to the drawings, the present pulley comprises a central core or hub 10, which is square in cross-section and centrally and longitudinally of which is a cylindrical bore 11, in the face of which is a longitudinal groove 12 to receive the ordinary spline or key to secure a hub to the shaft. At one end of the hub is a circumscribing flange 13, through which are formed perforations 14, and fitted upon the opposite end of the hub is a disk-shaped plate 15, having a central rectangular opening 16, in which the end of the hub is snugly received, this plate having perforations 17 therein arranged to register with those of the flange. Upon the hub are disposed leather disks 19, which have central rectangular openings 20 to snugly receive the hub, and through these disks are formed perforations 21, which register, respectively, with the perforations of the flange and plate, so that clamping-bolts 22 may be engaged through them, the bolts having nuts 23 engaged thereon, so that the plate may be drawn along the hub to clamp the leather disks between it and the flange. The central leather disk is the one of greatest diameter, and the disks at each side thereof gradually decrease in diameter toward the ends of the hub, so that the face of the pulley is curved outwardly from end to end.

It is found in practice that in the use of leather slipping of the belt is entirely prevented, while the particular structure shown permits of ready removal of the leather members for substitution or repair.

What is claimed is—

A belt-pulley comprising a cross-sectional angular hub, having an integral circumscribing flange at one end provided with perforations, a plurality of leather disks having each a cross-sectional angular central opening in which the hub is fitted, a metal plate having a central rectangular-shaped opening in which the hub is fitted, the disks lying between said plate and flange, said disks and plate having perforations therethrough registering with those of the flange and clamping-bolts engaged through the perforations and provided with nuts, the leather disks in the middle being of greater diameter than the disks at the ends of the hub.

In testimony whereof I affix my signature in presence of two witnesses.

OTTO WOLD.

Witnesses:
H. A. OLSBERG,
WM. SPANGENBERG.