

No. 684,603.

Patented Oct. 15, 1901.

P. J. CREEDEN.
PULLEY.

(Application filed Oct. 29, 1900.)

(No Model.)

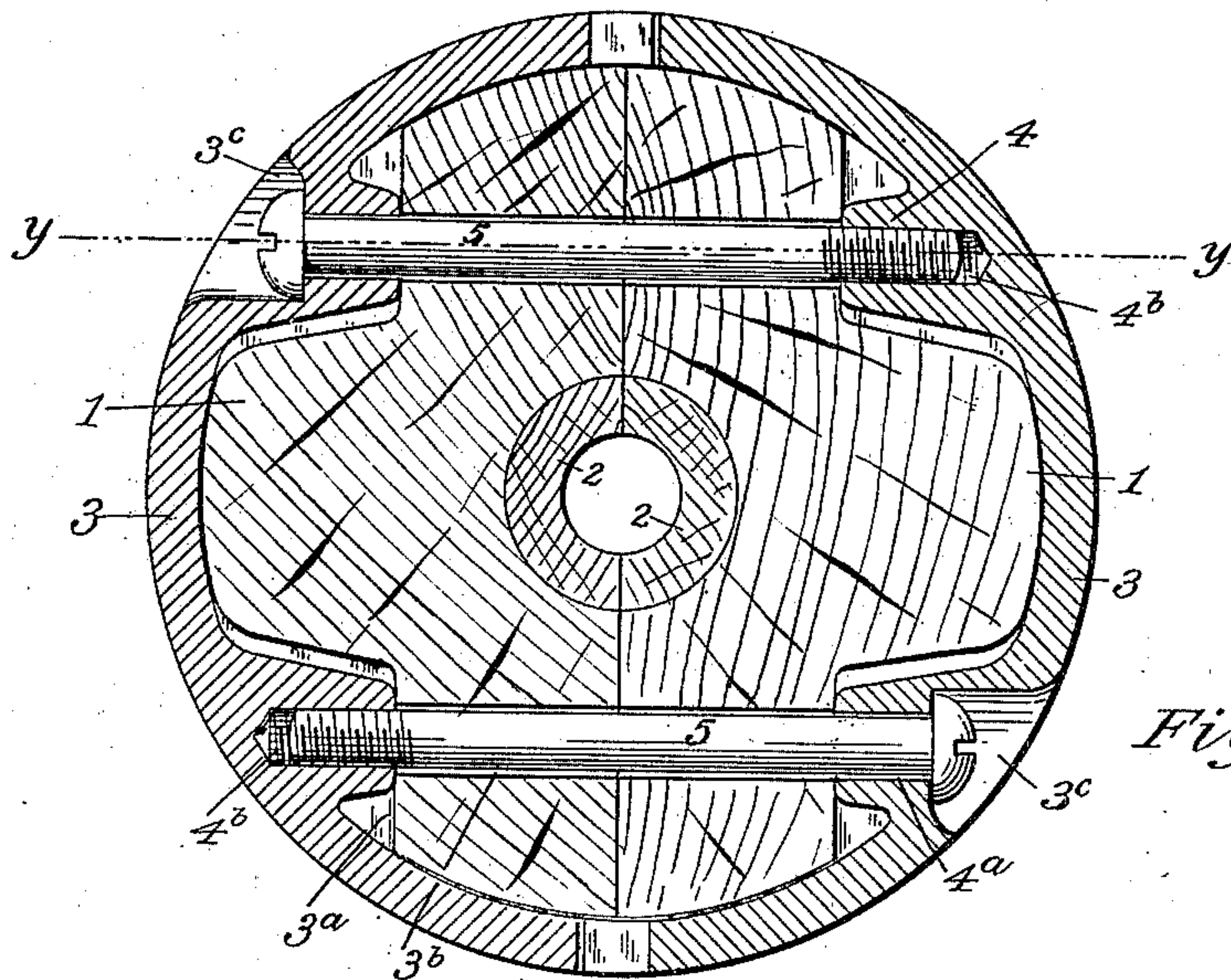


Fig. 1.

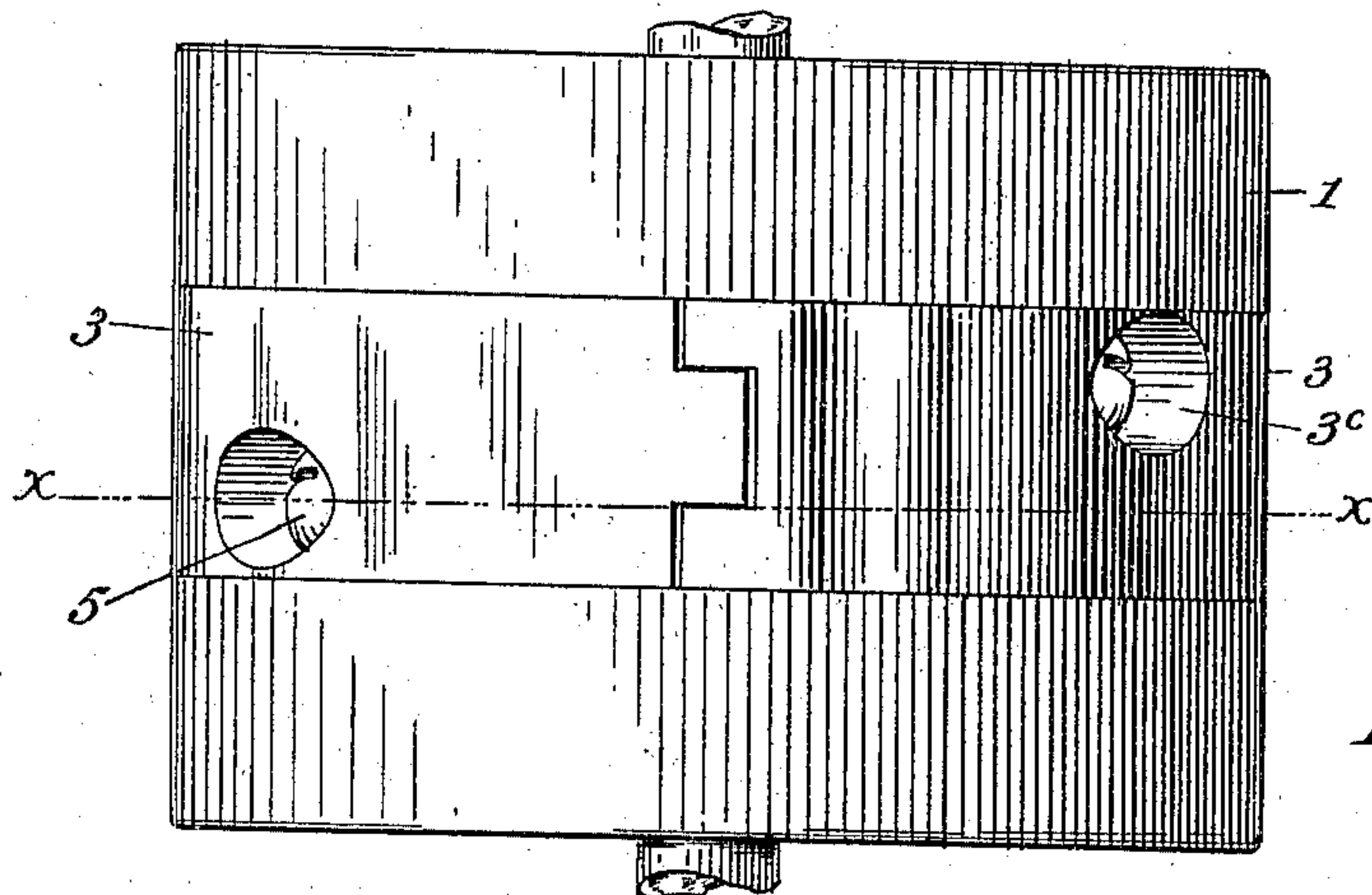


Fig. 2

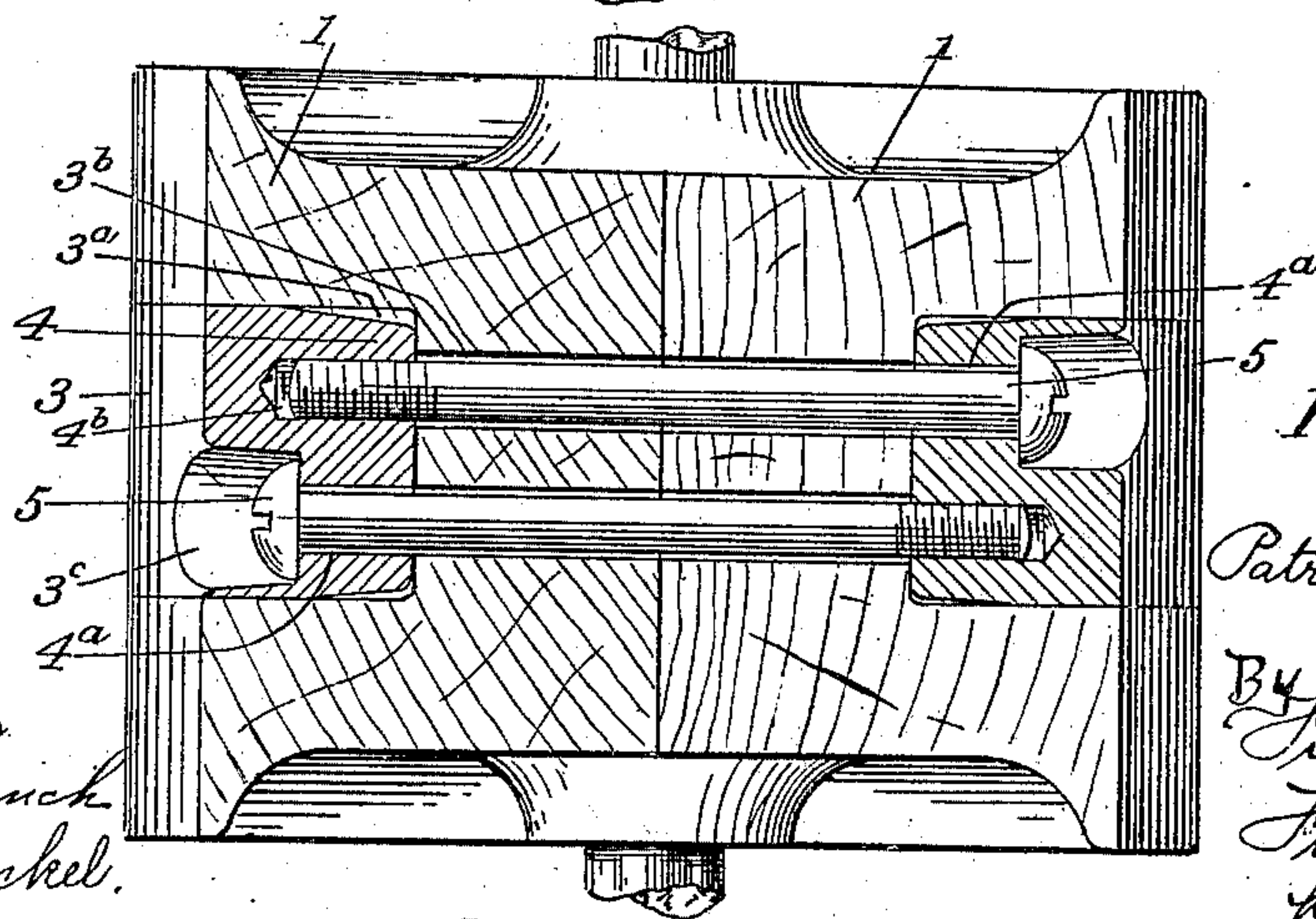


Fig. 3

Witnesses
Thos. E. French
A. J. Finckel.

Patrick J. Creedon
Inventor
By
Finckel &
Finckel
his Attorneys.

UNITED STATES PATENT OFFICE.

PATRICK J. CREEDEN, OF COLUMBUS, OHIO.

PULLEY.

SPECIFICATION forming part of Letters Patent No. 684,603, dated October 15, 1901.

Application filed October 29, 1900. Serial No. 34,779. (No model.)

To all whom it may concern:

Be it known that I, PATRICK J. CREEDEN, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, 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 ap-
10 pertains to make and use the same.

The object of this invention is an improved construction of pulley and means for fastening the same to a shaft. Heretofore wooden pulleys in practice have been fastened to
15 shafts by screws engaging the wood of the pulley.

The present invention contemplates the provision of metallic devices in such or similar pulleys to be engaged by the fastening screws
20 or bolts.

In the accompanying drawings, showing one embodiment of the invention, Figure 1 is a sectional view taken on a plane at right angles to the axis of the pulley, said plane being indicated by the line $x x$ on Fig. 2. Fig. 2
25 is a view of the rim of the pulley. Fig. 3 is a sectional view taken on a plane indicated by the line $y y$, Fig. 1, looking down.

Like characters of reference in the several
30 views designate corresponding parts.

The body proper of the pulley is indicated to be composed of two sections or semicylinders of wood 1 1, cored to receive bushing-pieces 2 2, as usual, to frictionally embrace
35 the shaft to which the pulley is to be attached.

The rim of the pulley is made with a rabbet or groove to receive the halves 3 3 of a metallic band. The parts of the metallic band are furnished on their inner sides with bosses
40 4, one side of which is perforated, as indicated at 4^a, and the other side tapped with a threaded hole, as indicated at 4^b.

The body of the pulley is appropriately recessed, as indicated at 3^a, to receive the bosses
45 4, and perforated, as indicated at 3^b, between

the opposite bosses to permit the insertion of screw-bolts 5.

By the provision of the taps and holes in the bosses of the halves composing the band the adjacent bolts have their heads on opposite sides of the pulley, thus insuring a more
50 equal distribution of the strain in fastening the pulley to the shaft. The halves of the band 3 are countersunk on the outer side opposite the boss, as shown at 3^c, so that the
51 bolt-heads shall lie below the surface of the pulley.

The meeting ends of the metallic halves can be tongued and recessed to insure a better joint.
60

What I claim, and desire to secure by Letters Patent, is—

1. A pulley comprising a body portion composed of severable semicylindric sections of wood or similar material, a ring on the outer
65 sides of said sections composed of severable semicircular sections of metal, and screw-bolts passed entirely through the wooden sections and across their meeting faces and engaging the opposite metallic sections of the
70 ring, substantially as described.

2. A pulley-body composed of sections, metallic pieces provided with tapped and perforated bosses set into the rim of said body, and screw-bolts passing through said metallic
75 pieces and the pulley-body and engaging the bosses, substantially as described.

3. A pulley-body composed of sections, metallic pieces provided with bosses, there being screw-holes and perforations in said bosses
80 and bolts passing through the perforations of one metallic piece and the pulley-body and engaging the screw-holes of the opposite metallic piece, substantially as described.

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

PATRICK J. CREEDEN.

Witnesses:

EDGAR S. CAMPBELL,
GEORGE M. FINCKEL.