

No. 654,276.

Patented July 24, 1900.

A. C. PESSANO.
JOURNAL BOX.

(Application filed Mar. 19, 1900.)

(No Model.)

2 Sheets—Sheet 1.

Fig. 1.

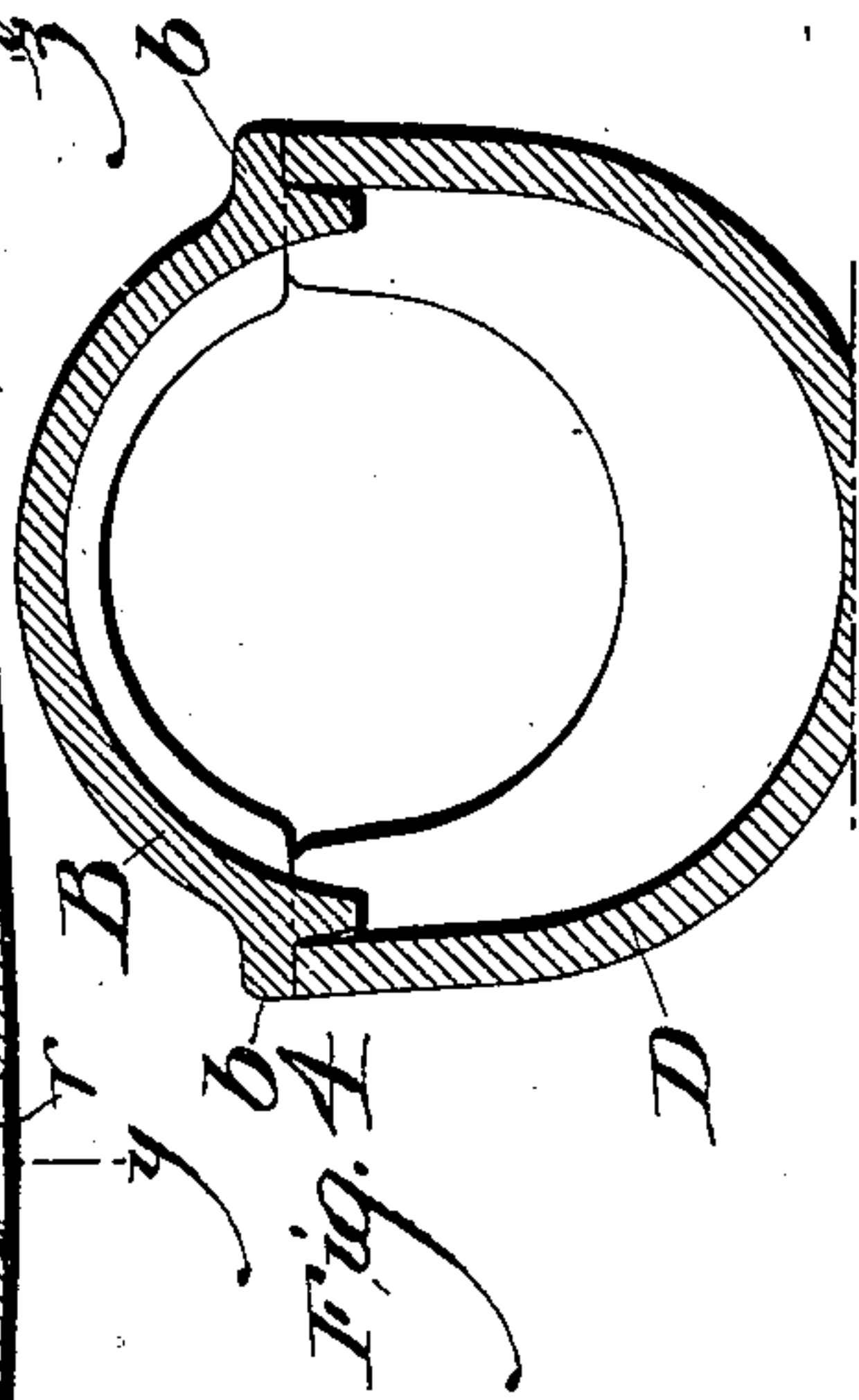
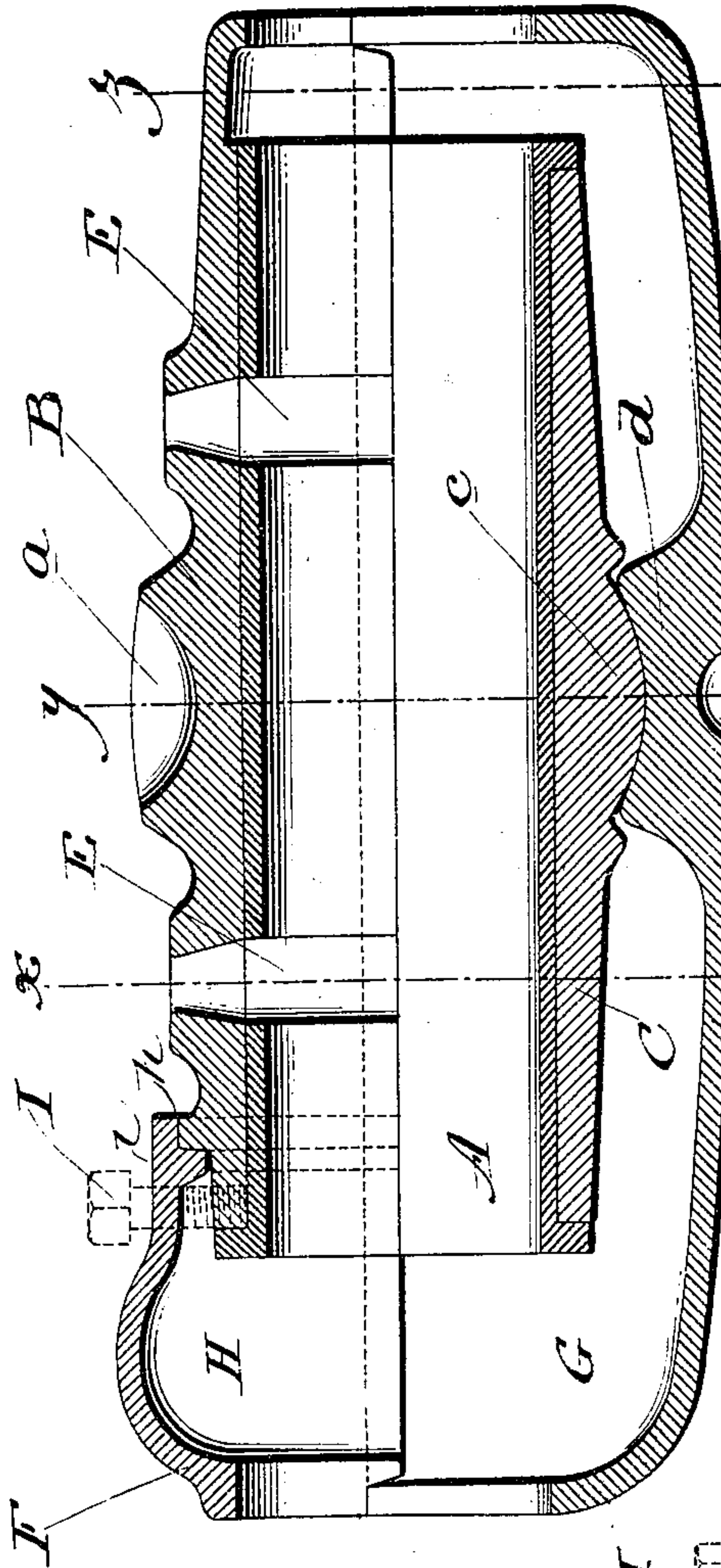
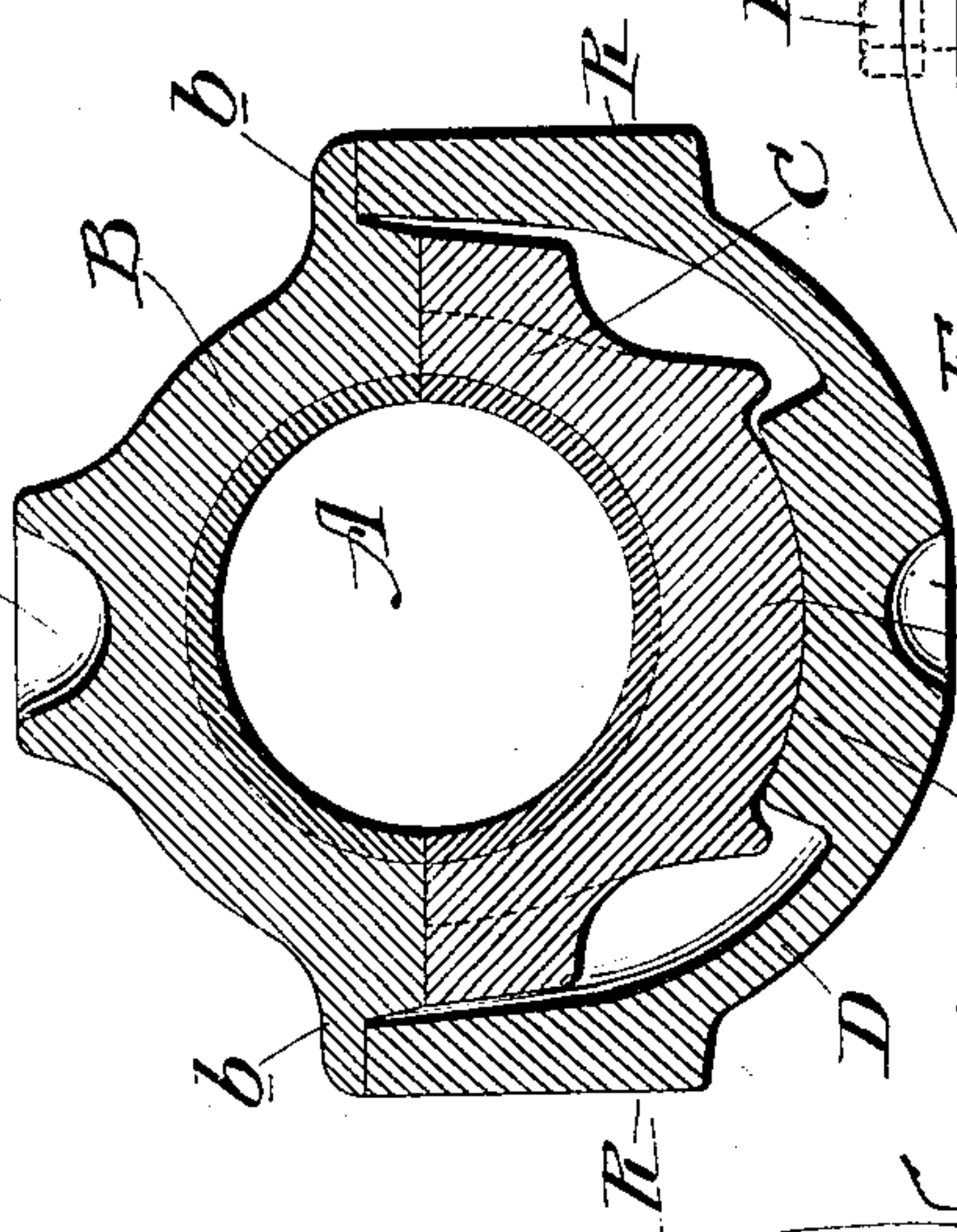


Fig. 3.



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Fig. 6.

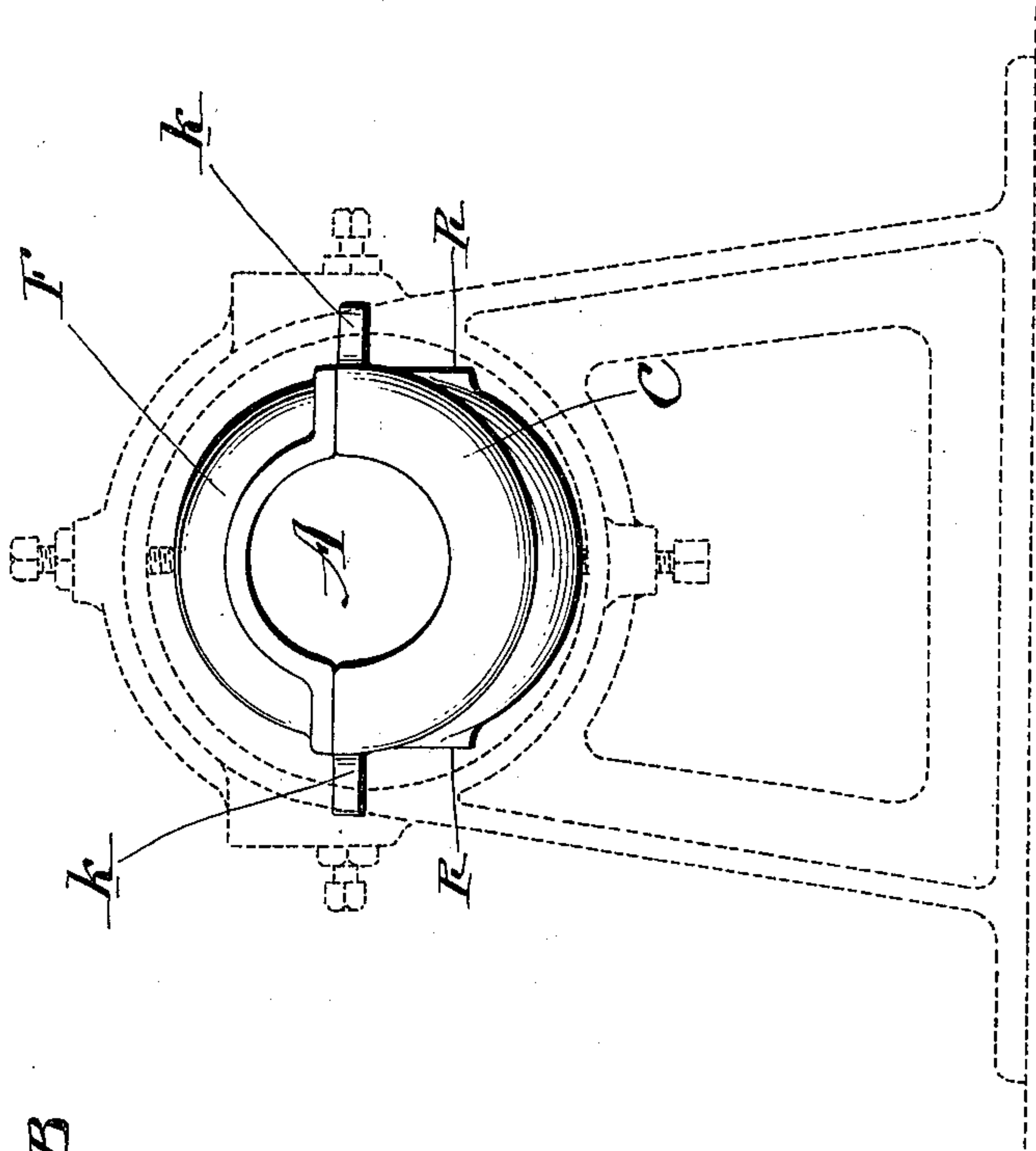
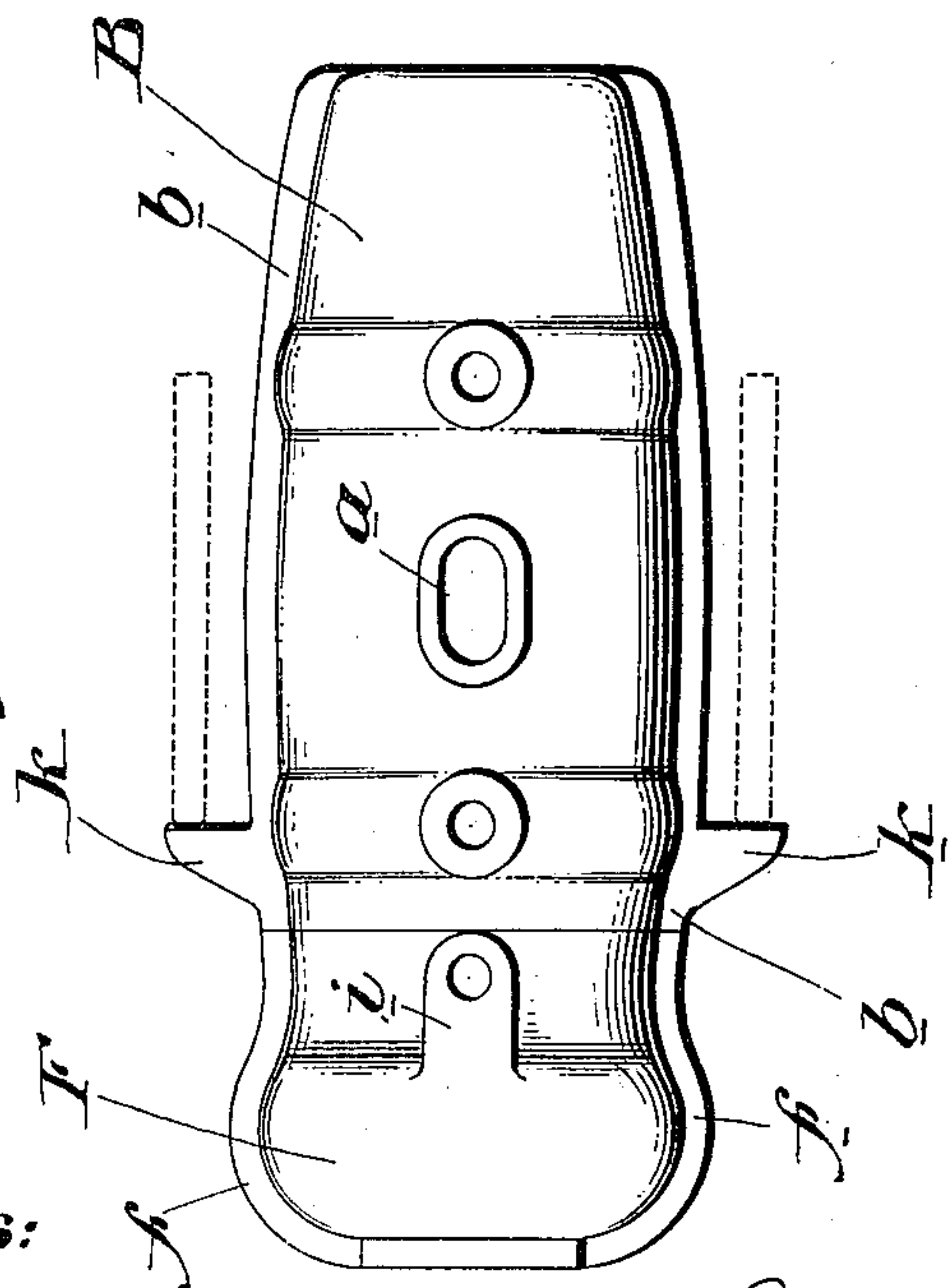


Fig. 5.



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[Signature]

UNITED STATES PATENT OFFICE.

ANTONIO C. PESSANO, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR TO
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JOURNAL-BOX.

SPECIFICATION forming part of Letters Patent No. 654,276, dated July 24, 1900.

Application filed March 19, 1900. Serial No. 9,298. (No model.)

To all whom it may concern:

Be it known that I, ANTONIO C. PESSANO, of the city and county of Philadelphia, in the State of Pennsylvania, have invented an Improvement in Journal-Boxes, of which the following is a specification.

My invention relates to journal-boxes; and it consists of the improvements which are fully set forth in the following specification and are shown in the accompanying drawings.

With the journal-boxes now in general use for shafting much difficulty is experienced in obtaining access to the interior of the box for the purpose of cleaning it, &c. The collar, which is usually carried by the shaft, is arranged exterior to the box, and there is constant danger of the clothing of a machinist working about the shafting being caught by the projecting set-screw of the collar, which frequently occurs and results in serious accidents. To overcome these difficulties, I extend the journal-box at one end beyond the journal proper and provide said extended end with a cover, cap, or portion which may be opened or removed to give access to the interior of the box. This extended end forms a chamber of sufficient size to contain the collar upon the shaft, so that the collar is covered and shielded, and danger of accidents therefrom is avoided.

It is also an object of my invention to provide a journal-box with means to relieve the strain upon the set-screws by which the box is supported in a standard or frame, and for this purpose I provide the box with conveniently-located lugs on the sides, which bear directly against the frame of the standard, which thus takes part of the thrust and relieves the set-screws of strain.

In the drawings, Figure 1 is a longitudinal sectional view of my improved journal-box. Figs. 2, 3, and 4 are transverse sectional views of the same on the lines xx , yy , and zz of Fig. 1, respectively. Fig. 5 is a plan view of the journal-box on a reduced scale, and Fig. 6 is an end view showing the same supported by a standard.

A is the journal-box, composed of longitudinal semicylindrical sections B C.

D is the outer lower casing or oil-box, of

semicylindrical shape, inclosing the lower section C and projecting beyond it at either end. The lower casing D is provided at or about the center with a socket d , which receives a lug c on the outer surface of the section C. The upper section B constitutes the top of the box and is provided along its side edges with flanges $b b$, which rest upon the upper edges of the outer casing D. The interior of the upper section B is provided with transverse grooves E E to contain the usual lubricating-rings, (not shown,) and the top of the section B is provided with a central recess or bearing a . The lower outer casing D is extended at one end, as at G, to a substantial extent beyond the end of the journal-box A, so as to form a cup.

F is a removable cap or cover of semicylindrical shape fitting over the projecting end G of the casing D and resting at its rear upon the top of the section B, or more specifically upon the rib h thereon. The sides of this cup or cover are provided with flanges which rest upon the upper edges of the portion G. The cap or cover F is preferably arched in cross-section, so as to form an enlarged chamber H about the shaft beyond the journal-box A.

If desired, the cap or cover F may be secured to the journal-box A by a screw I, passing through a lug i upon the cup into the top of the section B; but this is not usually necessary, as the cap will under ordinary conditions be retained in place by the flanges f without the necessity of any positive fastening.

The outer casing D, which constitutes the oil-box, extends beyond the journal at one end, and when the cap or cover F is removed this extended end G is exposed and free access is given to the casing D for the purpose of cleaning, &c. The chamber H, formed between the cup G and cover F, is of sufficient size to contain the usual collar that is secured to the shaft. This collar is thus contained within the box and covered by it, and the danger of the clothing of a machinist working about the shafting being caught by the projecting head of a set-screw carried by the collar, which frequently occurs, is wholly avoided.

As the cap F is removable, access may at any time be had to the collar.

A journal-box of the character herein set out is usually supported by four screws, as indicated in dotted lines in Fig. 6, the top and bottom screws having their ends fitting into the recesses *a* and *r* on the top section B of the box and the bottom of the casing D, respectively, and the side screws working against the side bearing-lugs R on the said casing.

It will also be seen that in my improved journal-bearing the oil-containing casing D completely incloses the lower section C of the box and directly and independently supports each of the two sections of the box, the clamping action between the sections B C of the box being secured by the pressure of the screws upon the casing D and the upper section B of the box. The supporting and adjusting screws are kept from acting directly upon the section C, thus permitting it to adjust or adapt itself to the upper section B. To relieve these set-screws of excessive strain, I provide the box when used in this manner with conveniently-located lugs *k k* on the sides which bear against the frame of the standard, which thus takes part of the thrust, as indicated in Fig. 6, where the frame of the standard is indicated in dotted lines.

The details of construction which have been shown may be varied without departing from my invention.

What I claim as new, and desire to secure by Letters Patent, is as follows:

1. In a journal-bearing, the combination with a split journal-box forming upper and lower sections of a casing completely surrounding the lower part of the journal-box and extended beyond it on the sides to directly support the upper part of the journal-box and at one end to form a cup or chamber, and a removable cap or cover fitting over and covering said cup or chamber and supported by the casing.

2. In a journal-bearing, the combination with a split journal-box forming upper and lower sections of a casing surrounding the lower section and directly and independently supporting each of the sections of the box and also extended beyond it at one end to form a cup or chamber, and a removable cap or cover fitting over and covering said cup or extended chamber.

3. In a journal-bearing, the combination with the journal-box formed of upper and lower parts, of a lower casing surrounding and supporting the lower part of the journal and also extended beyond it on the sides to directly support the upper part of the journal-box and at one end to form a cup or oil-

containing chamber, and a removable cap or cover arched or enlarged upon the interior, and fitting over said cup or chamber and forming therewith an enlarged oil-containing compartment about the shafting beyond the journal.

4. In a journal-bearing, the combination with the journal-box A comprising the lower part C and upper part B of greater width and the surrounding lower casing D forming the lubricant-holder adjustably supporting the lower part C and fixedly supporting the upper part B of the box and having one end extended to form a cup or chamber beyond the journal, of the movable cap F having inwardly-extending side flanges *f* resting within the upper edges of the cup or chamber G to form a removable cover therefor.

5. In a journal-bearing, the combination with the journal-box, of the surrounding lower casing provided on its sides with bearing-lugs *k*.

6. In a journal-bearing, the combination with a lower oil-containing casing surrounding the lower part of the journal-box, of a split journal-box comprising an upper and a lower portion each directly supported by the lower casing.

7. In a journal-bearing, the combination of an oil chamber or casing having a central socket-bearing on its inner part at the bottom and an upper bearing-surface about its rim, with a split journal-box the two parts of which fit together, the lower part being inclosed within the casing and having a lug fitting in the socket of said casing and the upper part being wider than the lower part and formed with a flange fitting the upper rim of the casing.

8. In a journal-bearing, the combination of an oil chamber or casing having a central socket-bearing on its inner part at the bottom and an upper bearing-surface about its rim and also having a socket *r* in its bottom on the outside and lugs R on its sides for the clamping and adjusting screws, with a split journal-box the two parts of which fit together, the lower part being inclosed within the casing and having a lug fitting in the socket of said casing and the upper part being wider than the lower part and formed with a flange fitting the upper rim of the casing and also with a socket *a* for the clamping-screw.

In testimony of which invention I have hereunto set my hand.

ANTONIO C. PESSANO.

Witnesses:

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ERNEST HOWARD HUNTER.