

J. C. HERON & A. C. DEVERELL.

JOURNAL BEARING.

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935,022.

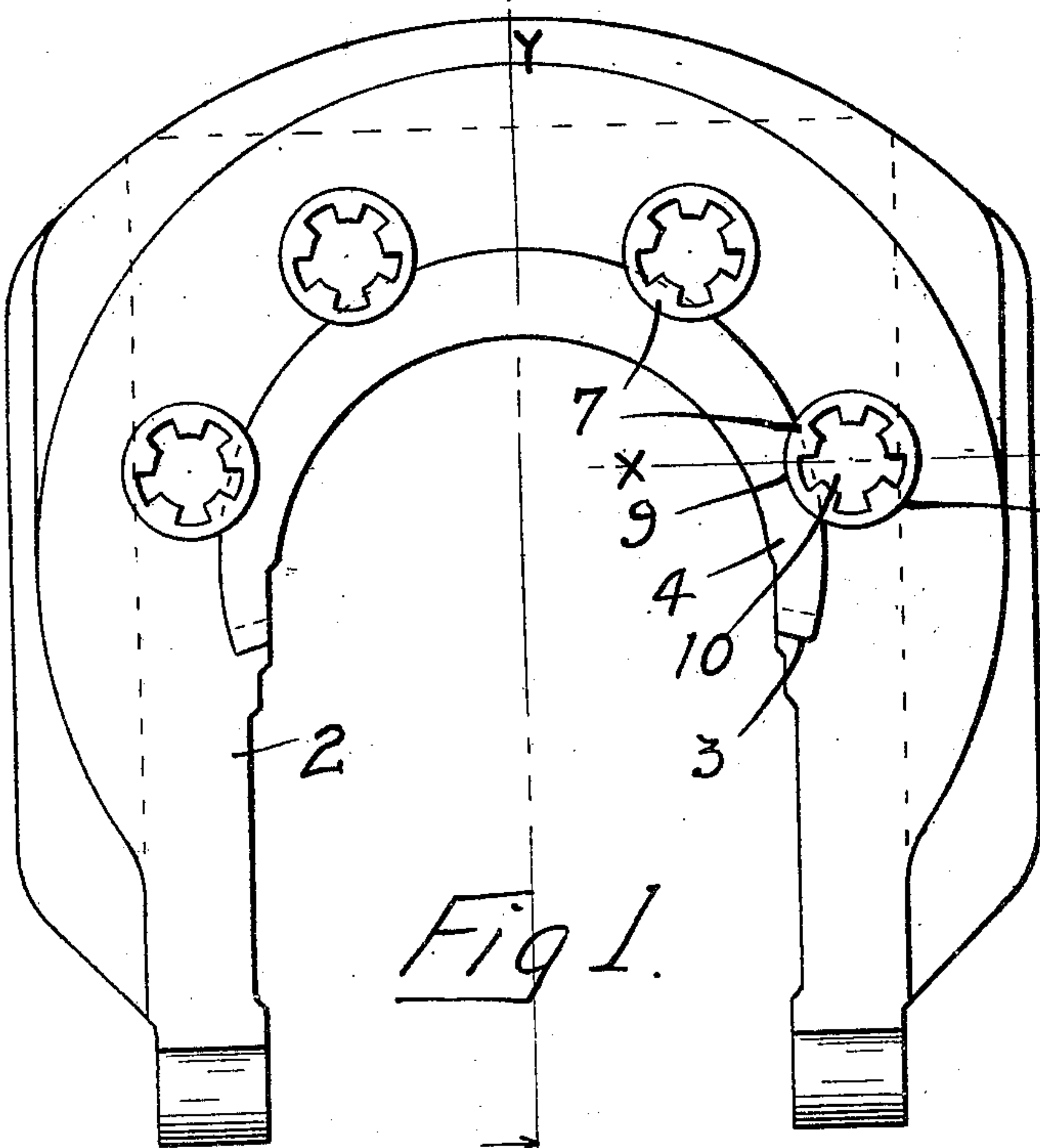


Fig 1.

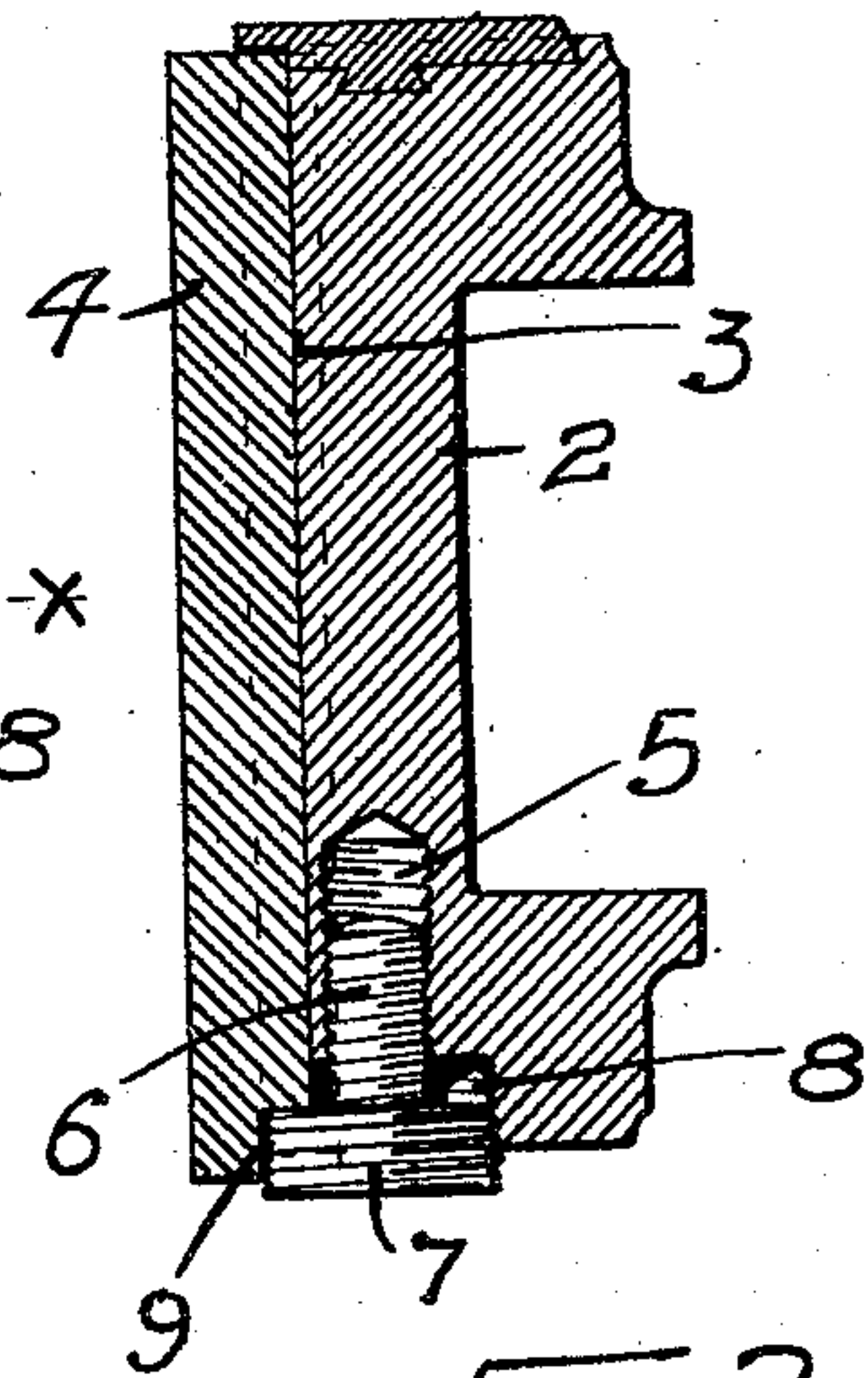


Fig 2. x-x

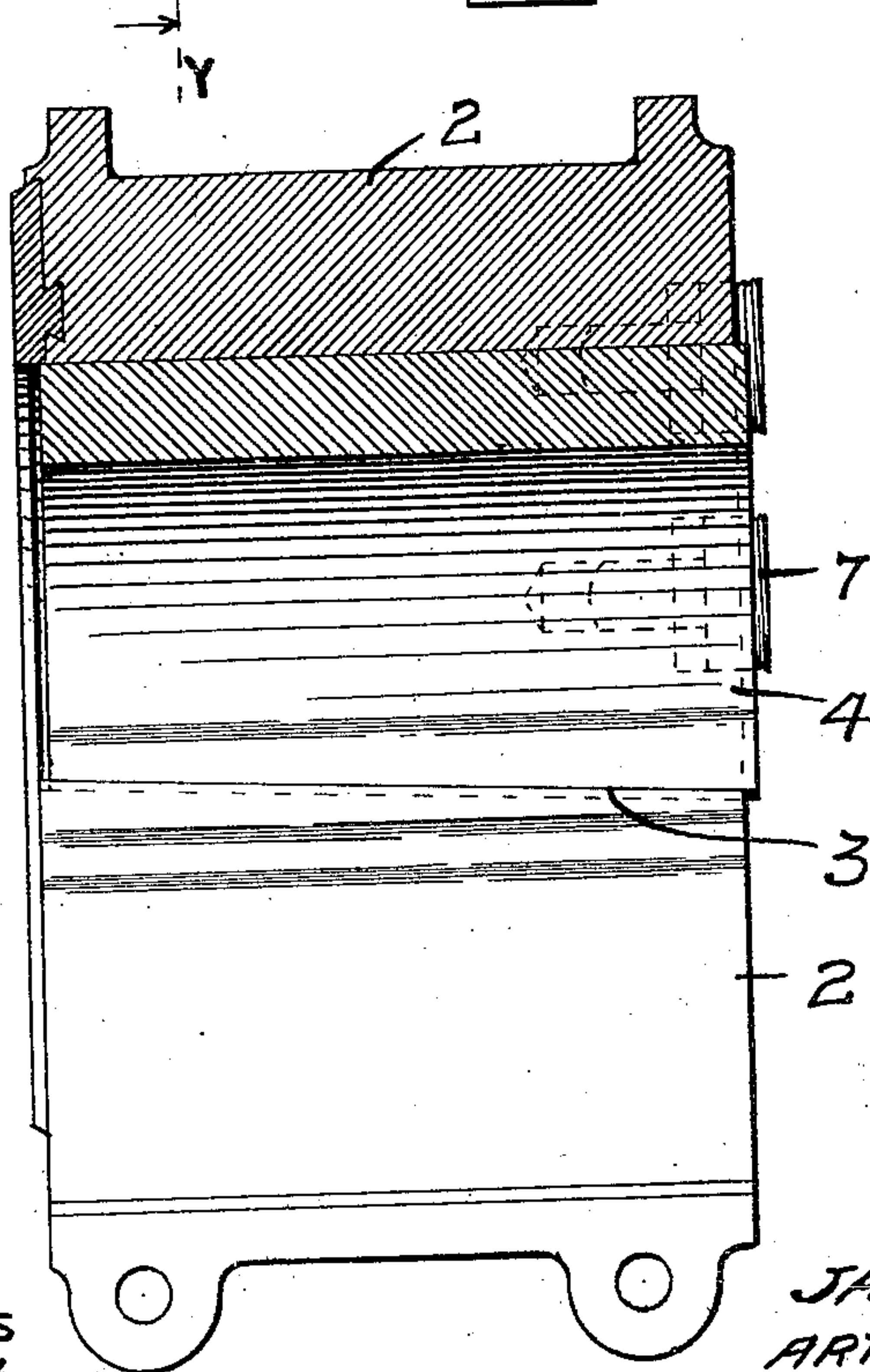


Fig 3.  
Y-Y

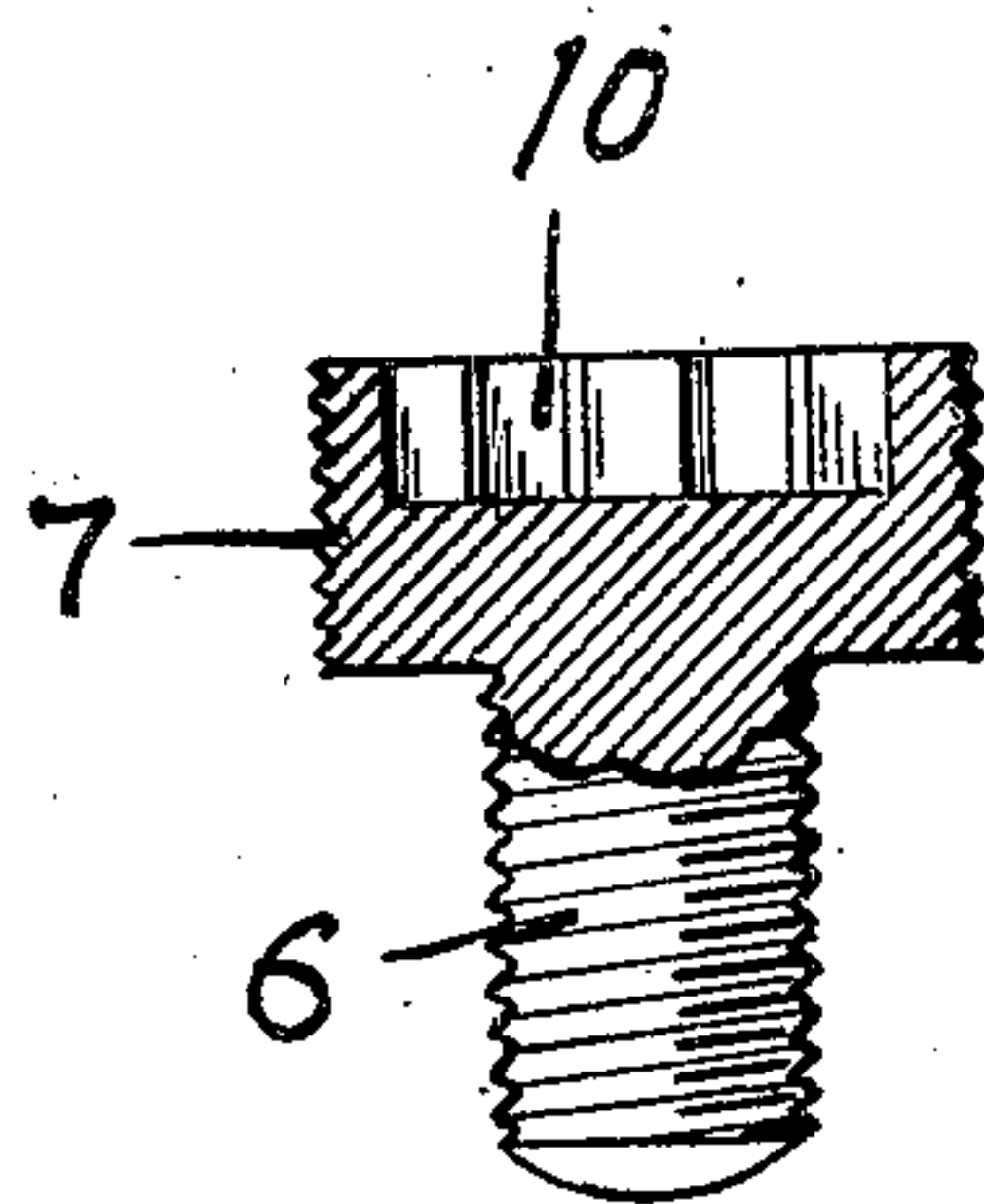


Fig 4.

WITNESSES  
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# UNITED STATES PATENT OFFICE.

JAMES C. HERON AND ARTHUR C. DEVERELL, OF ST. PAUL, MINNESOTA.

## JOURNAL-BEARING.

935,022.

Specification of Letters Patent. Patented Sept. 28, 1909.

Application filed August 17, 1908. Serial No. 448,954.

*To all whom it may concern:*

Be it known that we, JAMES C. HERON and ARTHUR C. DEVERELL, both of St. Paul, Ramsey county, Minnesota, have invented certain new and useful Improvements in Journal-Boxes, of which the following is a specification.

Our invention relates to journal boxes and particularly to driving brasses therefor.

10 The object of our invention, is to provide means which will prevent a driving brass or any brass of this type from working loose in the box and getting out of place therein.

15 In driving boxes, the brasses are usually forced in by hydraulic pressure, but in course of time, through expansion and contraction, the brasses work loose, and it is generally necessary to remove the driving wheels before access can be had to them.

20 Our invention consists in a series of set screws studs or bolts fitting within sockets in the journal box and having heads to engage the bearing brass and lock it securely in the box.

25 In the accompanying drawings forming part of this specification, Figure 1, is a front view of a driving box journal with our invention applied thereto, Fig. 2, is a sectional view on the line  $x-x$  of Fig. 1, Fig. 3, is a sectional view on the line  $y-y$  of Fig. 1, Fig. 4, is a detailed view of one of the set screws.

35 In the drawing, 2 represents the journal box, 3 a socket therein into which the driving brass 4 is inserted. To hold the brass in place, we provide threaded sockets 5 in the box adapted to receive the threaded shanks 6 of set screws having threaded heads 7, said heads fitting within recesses 8 in the box and projecting into notches 9 provided in the outer end of the brass. The walls of the recesses 8 are threaded to engage the threads on the heads of the screws and when the screws are seated, the brass will be securely held and cannot accidentally work loose in the box. The heads of the screws have sockets 10 therein adapted to receive a suitable tool for loosening or tightening the screws.

50 With this construction, we are able to loosen the set screws, back out the brass a sufficient distance to slip in shims one on

each side, and by turning up the set screws, the tapered brass will be forced snugly into its seat. Worn out brasses may be removed without taking down the box, and readily tightened in case they become loose from over-heating. The special form of head provided for the set screws, enables the workman to insert a wrench of special design between the eccentrics and the box where the space is limited. Any suitable number of the locking screws may be used according to the requirements of each particular case. In place of the set screws, we may employ headed studs or bolts to accomplish the same result, though not in as satisfactory a manner as by the use of the screws shown.

We claim as our invention:

1. The combination with a journal-box formed with threaded sockets and having in its face recesses having an open side, of a brass fitted in the box and formed on the side next to the recesses in the box with sockets opening into the recesses of the box and also open to the face of the brass, and set screws tapped into the sockets of the box and having their heads lying within the recesses of the box and open face sockets of the brass and outwardly adjustable relatively to the brass and box without disturbance of the brass, substantially as described.

2. The combination with a journal-box formed with threaded sockets and having in its face threaded recesses having an open side, of a brass fitted in the box and formed on the side next to the recesses in the box with sockets opening into the recesses of the box and also open to the face of the brass, and set screws tapped into the sockets of the box and formed with threaded heads lying within the recesses of the box and sockets of the brass and in threaded engagement with the threads of the box and outwardly adjustable without disturbance of the brass, substantially as described.

In witness whereof we have hereunto set our hands this 11th day of August 1908.

JAMES C. HERON.  
ARTHUR C. DEVERELL.

Witnesses:

FILBERT L. GABRIS,  
STELLA PETTER.