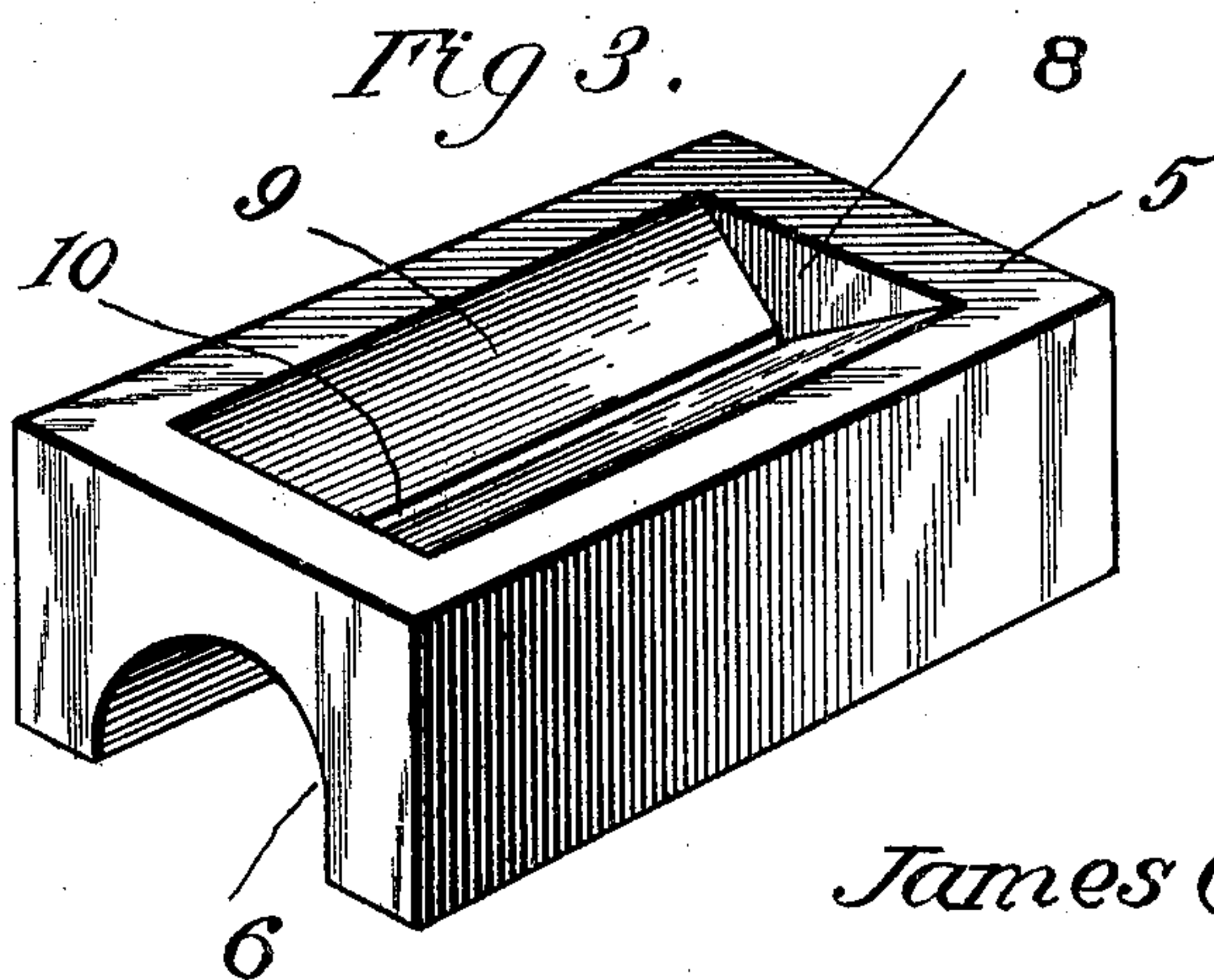
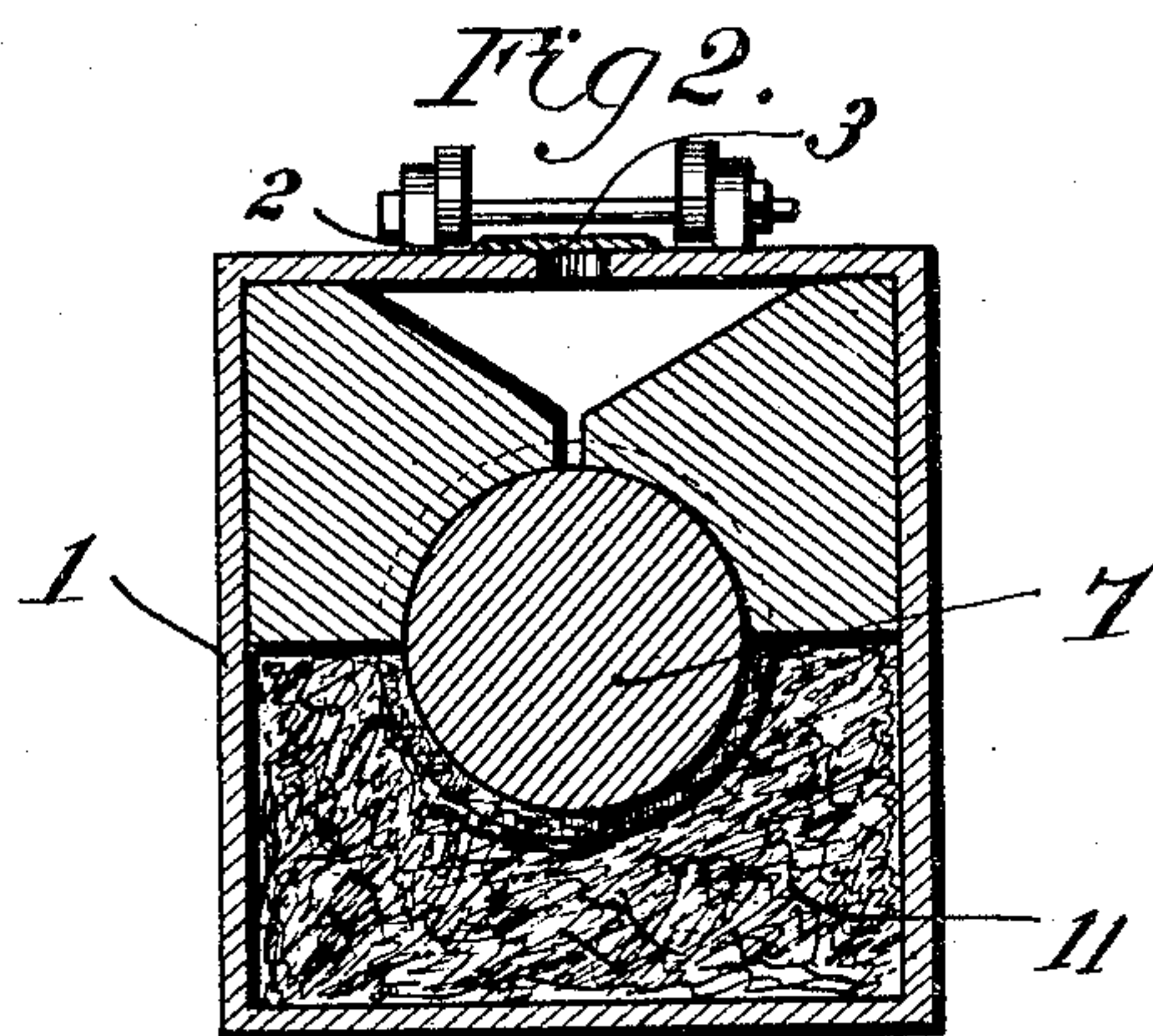
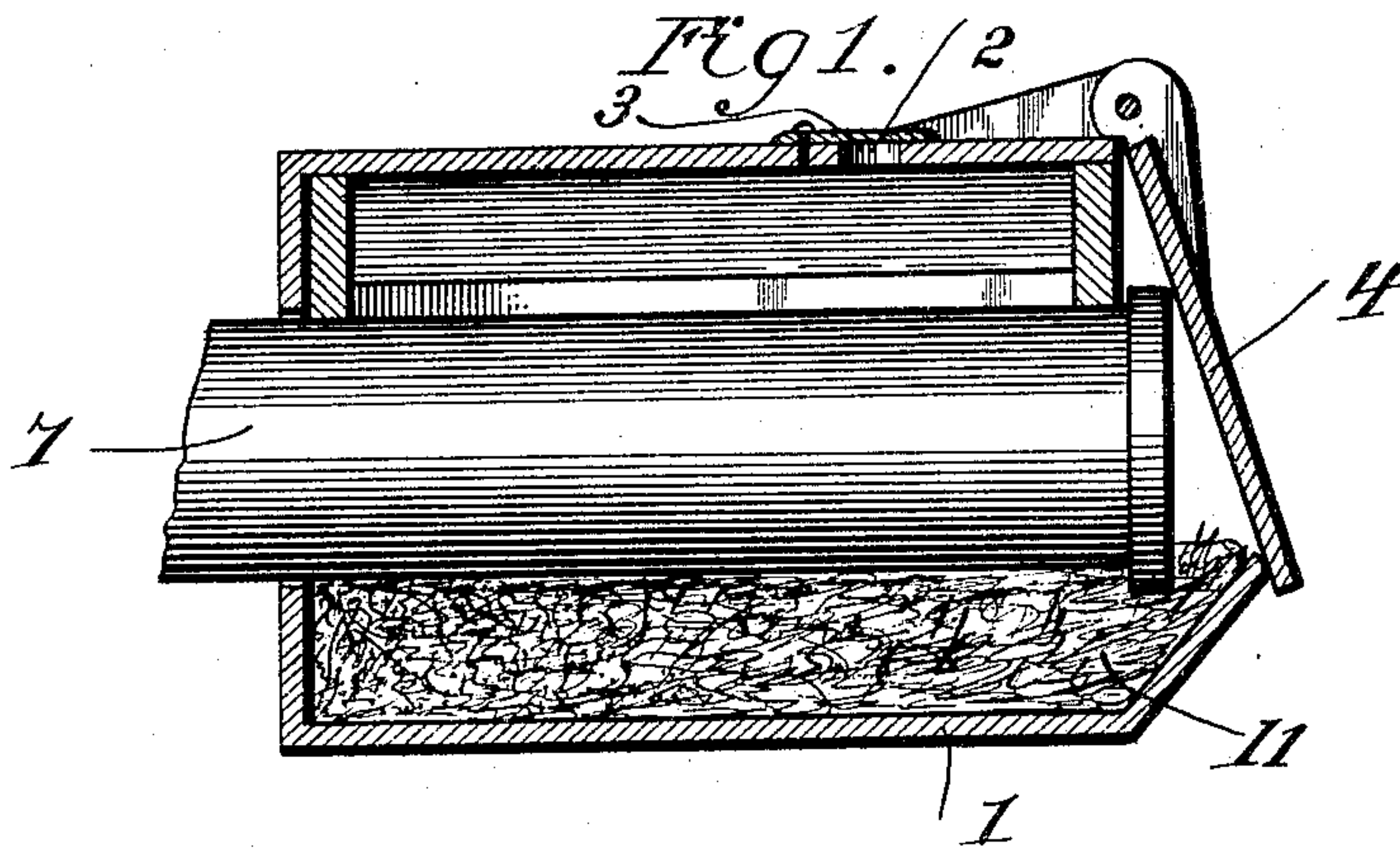


No. 793,632.

PATENTED JULY 4, 1905.

J. C. BAKER.  
JOURNAL BOX.  
APPLICATION FILED DEC. 30, 1903.



WITNESSES:

*Phil C. Barnes.*

*Herbert D. Lawson.*

INVENTOR  
*James C. Baker.*

BY

*Victor J. Evans* Attorney



# UNITED STATES PATENT OFFICE.

JAMES C. BAKER, OF DUNLO, PENNSYLVANIA, ASSIGNOR TO FANNIE P. BAKER, OF DUNLO, PENNSYLVANIA.

## JOURNAL-BOX.

SPECIFICATION forming part of Letters Patent No. 793,632, dated July 4, 1905.

Application filed December 30, 1903. Serial No. 187,153.

*To all whom it may concern:*

Be it known that I, JAMES C. BAKER, a citizen of the United States, residing at Dunlo, in the county of Cambria and State of Pennsylvania, have invented new and useful Improvements in Journal-Boxes, of which the following is a specification.

My invention relates to new and useful improvements in journal-boxes for railway-cars, shafting, &c.; and its object is to provide a device of this character having a combined bearing and oil-cup, the outlet from the cup being normally closed by the axle or shaft contacting therewith, thereby permitting the escape of the oil from the bearing only during the rotation of the axle or shaft.

A further object is to provide means whereby oil subsequent to its discharge from the bearing and its application to the rotating surface thereunder is absorbed by material provided therefor and reapplied to the shaft or axle.

With the above and other objects in view the invention consists of a journal-box having an inlet at the top thereof, and arranged within the box below the inlet is a bearing adapted to fit snugly upon the shaft or axle extending into the box and having a recess in its upper face for the reception of a lubricant. A slot extends longitudinally within the bottom of this recess and is closed at all times by that portion of the face of the axle or shaft contacting with the bearing.

The invention also consists in arranging waste or other absorbent material in the box and below the shaft or axle for the purpose of absorbing the lubricant subsequent to its application.

The invention also consists in the further novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is a longitudinal section through a journal-box constructed in accordance with my invention. Fig. 2 is a transverse section therethrough, and Fig. 3 is a perspective view of the bearing detached.

Referring to the figures by numerals of reference, 1 is a journal-box of any suitable form and having an inlet 2 at the top thereof, which is normally closed by means of a cover 3 or in any other suitable manner. A closure 4 is hinged to the outer end of the box and serves to normally close the same. A bearing 5 is arranged within the upper portion of the box 1 and has the lower face thereof provided with a recess 6, conforming in contour with the shaft or axle 7, extending into the box and bearing at all times upon said shaft or axle. A recess 8 is formed within the top of the bearing 5 and has converging walls 9, which constitute the bottom thereof. Along the lower or adjoining edges of these walls 9 is a longitudinally-extending slot 10, which opens into the recess 6 and is closed by the shaft or axle 7, bearing within said recess. Waste 11 is preferably arranged within the lower portion of the box 1, as ordinarily.

The recess 8, formed within the bearing 5, is adapted to be filled with oil supplied through the aperture 2, and as the shaft or axle 7 rotates the lubricant within the slot 10 will be quickly distributed over the face of the axle or shaft and will be carried thereby over the wall of the recess 6, after which it will be absorbed by the waste 11. This waste serves to reapply the oil after the same has been absorbed, and as the oil within the recess 8 is distributed in very small quantities it will be understood that it becomes necessary to fill the said recess only at rare intervals. The great objection found with devices of this character heretofore constructed in which waste only has been utilized is the fact that the waste becomes packed within the box and out of contact with the shaft or axle, and a hot box soon results. With this device, however, the oil is at all times in contact with the working faces.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing any of the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of my invention.

Having thus described the invention, what is claimed as new is—

A journal-box comprising the box having an inlet-opening, a journal rotatably mounted  
5 in the box, a one-part or solid bearing-block contacting with the top of the box and having a longitudinal semicylindrical recess formed within and across its bottom portion, the upper portion of the block being provided with  
10 opposite inclined walls which extend down-

wardly, there being a slot the full length of the walls in said block serving to form an outlet for the lubricant to the axle, substantially as specified.

In testimony whereof I affix my signature in 15 presence of two witnesses.

JAMES C. BAKER.

Witnesses:

JOSEPH J. FOX,

W. R. EICHENSER.