

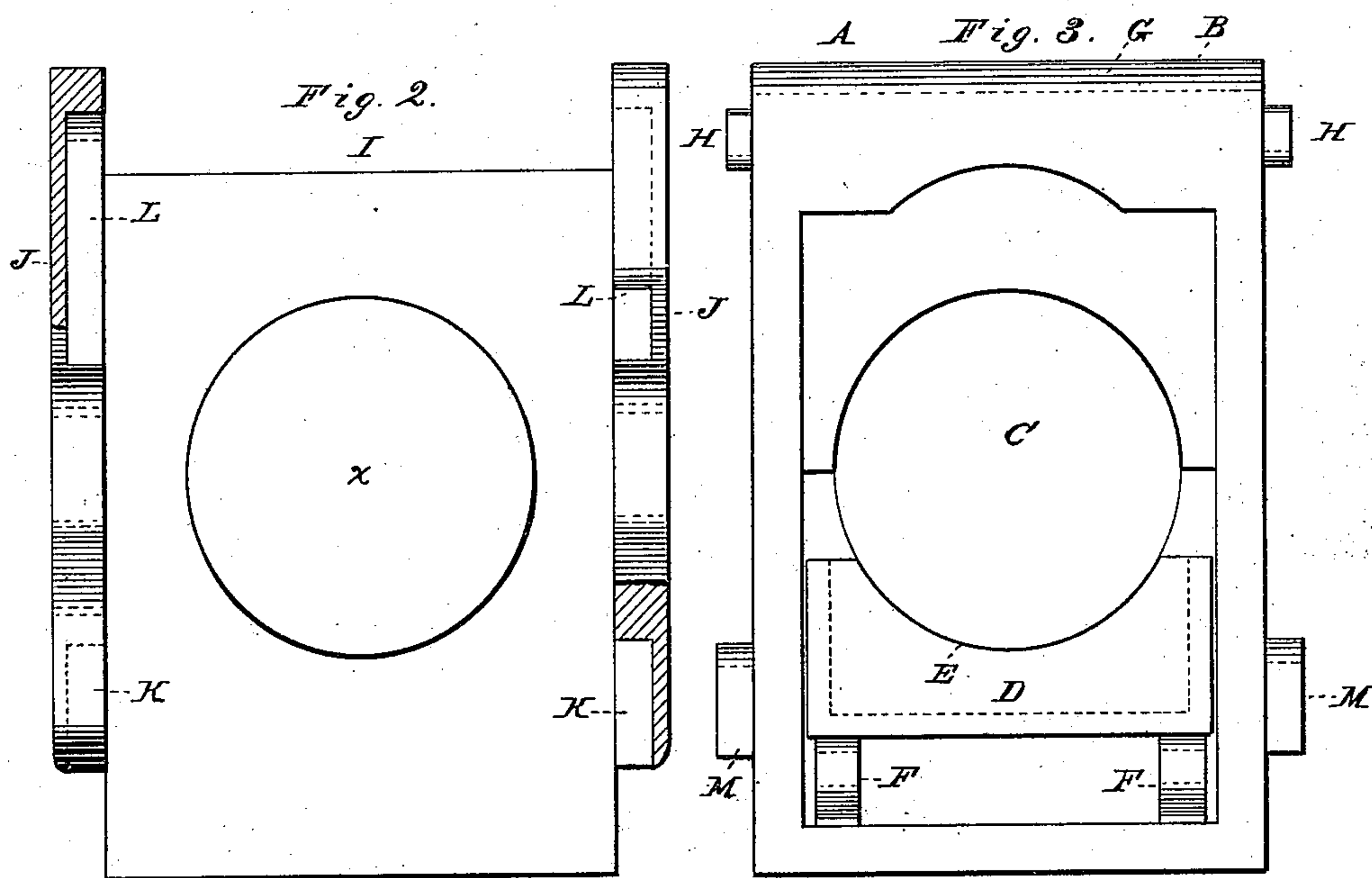
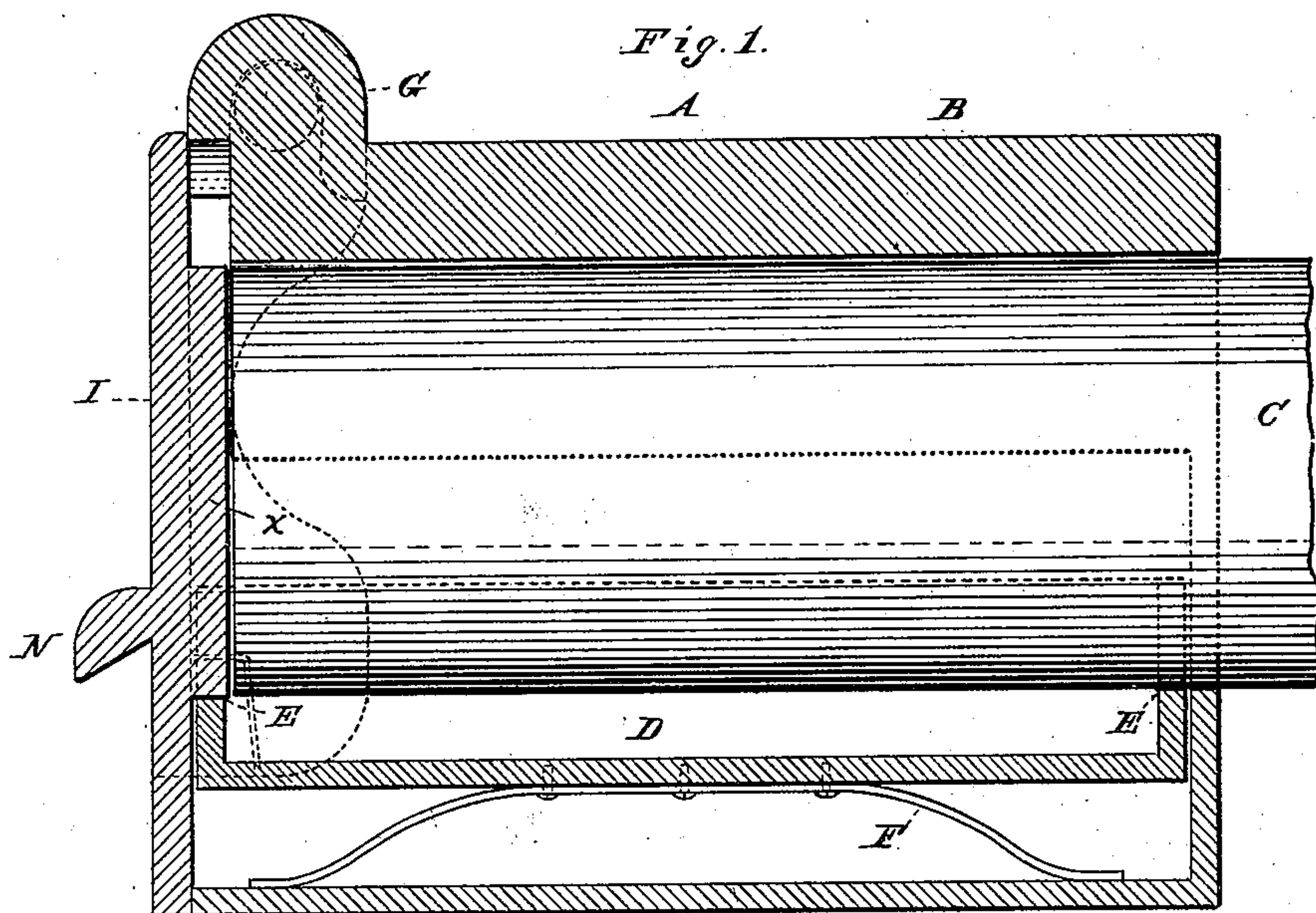
(No Model.)

J. W. TUCKER.

CAR AXLE BOX.

No. 333,981.

Patented Jan. 5, 1886.



WITNESSES

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# UNITED STATES PATENT OFFICE.

JAMES WRIGHT TUCKER, OF SPRINGVILLE, ASSIGNOR OF ONE-HALF TO  
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## CAR-AXLE BOX.

SPECIFICATION forming part of Letters Patent No. 333,981, dated January 5, 1886.

Application filed June 17, 1885. Serial No. 168,975. (No model.)

### *To all whom it may concern:*

Be it known that I, JAMES W. TUCKER, a citizen of the United States, residing at Springville, in the county of St. Clair and State of Alabama, have invented certain new and useful Improvements in Axle-Lubricators; and I do 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of this invention, and is a vertical longitudinal section. Fig. 2 is a view of the inner face of the door, and shows it broken away in two places. Fig. 3 is a front view of the box without the door.

This invention relates to car-axle lubricators; and it consists in the construction and novel combination of parts, as will be hereinafter fully described, and particularly pointed out in the claims.

Referring by letter to the accompanying drawings, A designates the body of the box, which is rectangular in form in outline in cross-section. The upper portion, B, of the box is cast solid, and fits over the upper portion of the journal C, and is made of brass. The lower portion of the box A is rectangular in cross-section, and within this lower portion the oil-pan D is located. The ends of the oil-pan D are concaved at E to conform to the contour of that portion of the journal with which they come in contact when the oil-pan D is in place in the box.

To the bottom of the oil-pan D are secured two curved flat springs, F, which hold the oil-pan up against the journal, and thereby keep the contents of the oil-pan constantly in contact with the journal when the pan is in place in the box.

Upon the top of the box A is an integral bead or molding, G, from the ends of which lugs or pintles H project and form parts of the hinges of the door or lid I of the box. The lid I is provided with integral side flanges, J J, which extend from its upper end down nearly to its lower end. These flanges J J are cored out in the inner faces of their enlarged upper ends J to form inverted-U-shaped recesses L, which receive the pintles

H when the door or lid is in place on the box. The lower ends of the flanges J J are provided with recess K K in their inner faces, which open downwardly when the lid is closed and engage projections M M on the outer faces of the vertical sides of the box. The outer edges of the projections M M are aligned with the outer vertical edges of the body of the box. A hand-piece, N, is provided on the outer face of the lid, near the bottom of the lid, by which to manipulate it in opening and closing it to remove and replenish the pan. The springs which permit the pan to yield to the revolutions of the journal are secured to the bottom of the pan, so that they may not become detached and lost in replenishing the pan, which is usually removed for this purpose, although it may be replenished without removing it, if desirable. The lid or door has on its inner face an annular projection, x, the diameter of which is equal to the diameter of the journal of the axle, and this annular projection x prevents the edges of the oil-pan from coming in contact with the base of the arch above it. These annular projections x also work against the end of the journal C, and prevent unnecessary play of the same.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. The combination, with the axle-box having the arched upper portion, and the hinged removable door with the annular projection on its inner face, of the oil-pan having springs secured to its bottom, substantially as specified.

2. The combination, with the axle-box having the arched upper portion, the bead with end pintles, and locking-catches on the sides of the box, of the spring-actuated oil-pan, and the removable door, substantially as specified.

3. The combination, with the axle-box having the top bead with end projections, of the flanged door with recesses engaging said projections, and recesses engaging the locking-studs on the axle-box, substantially as specified.

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

JAMES WRIGHT TUCKER.

Witnesses:

T. L. NUNNELLEY,

E. J. ROBINSON.