

E. THOMAS.
Axle-Lubricator.

No. 70,650.

Patented Nov. 5, 1867.

Fig. 1.

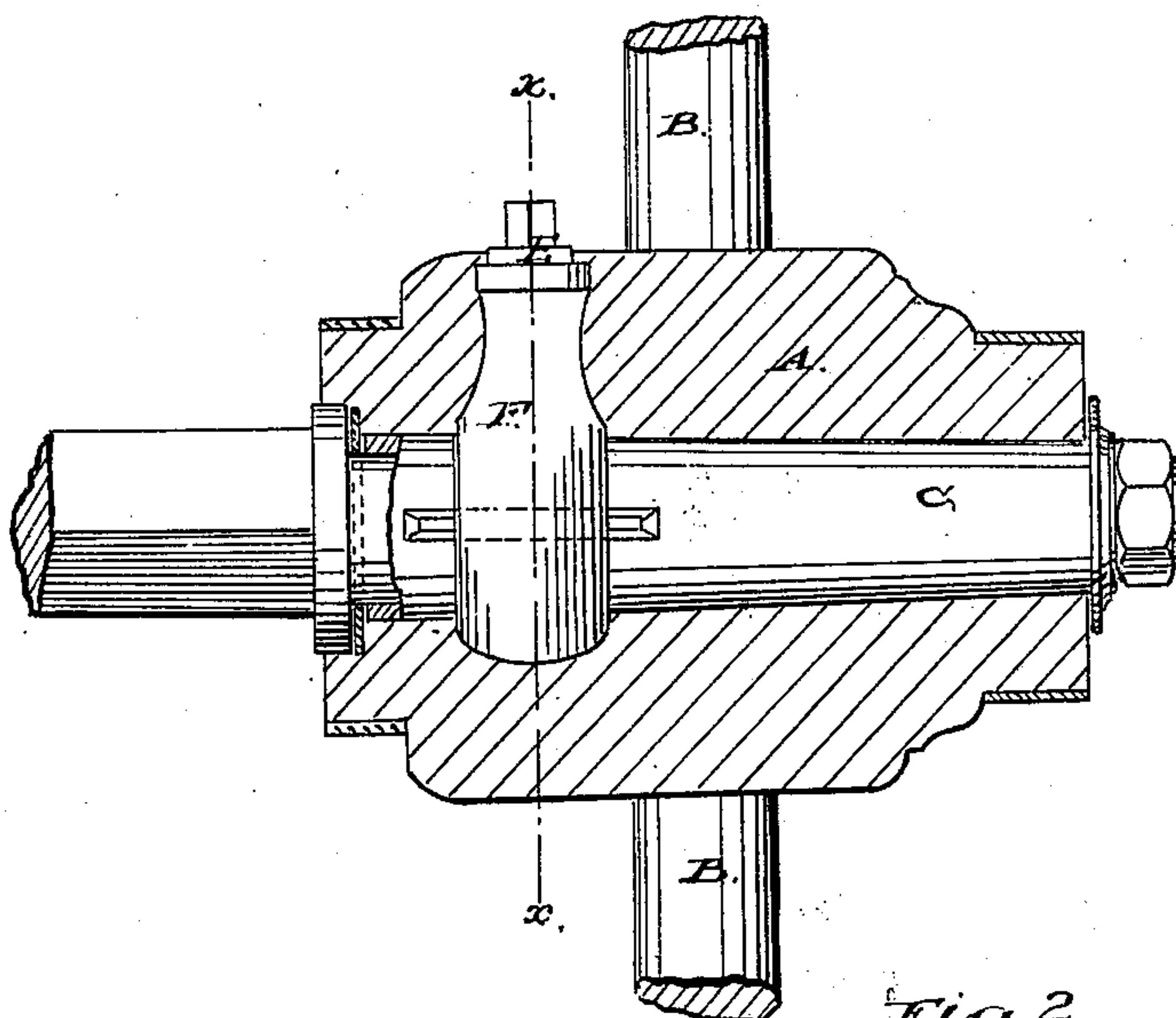
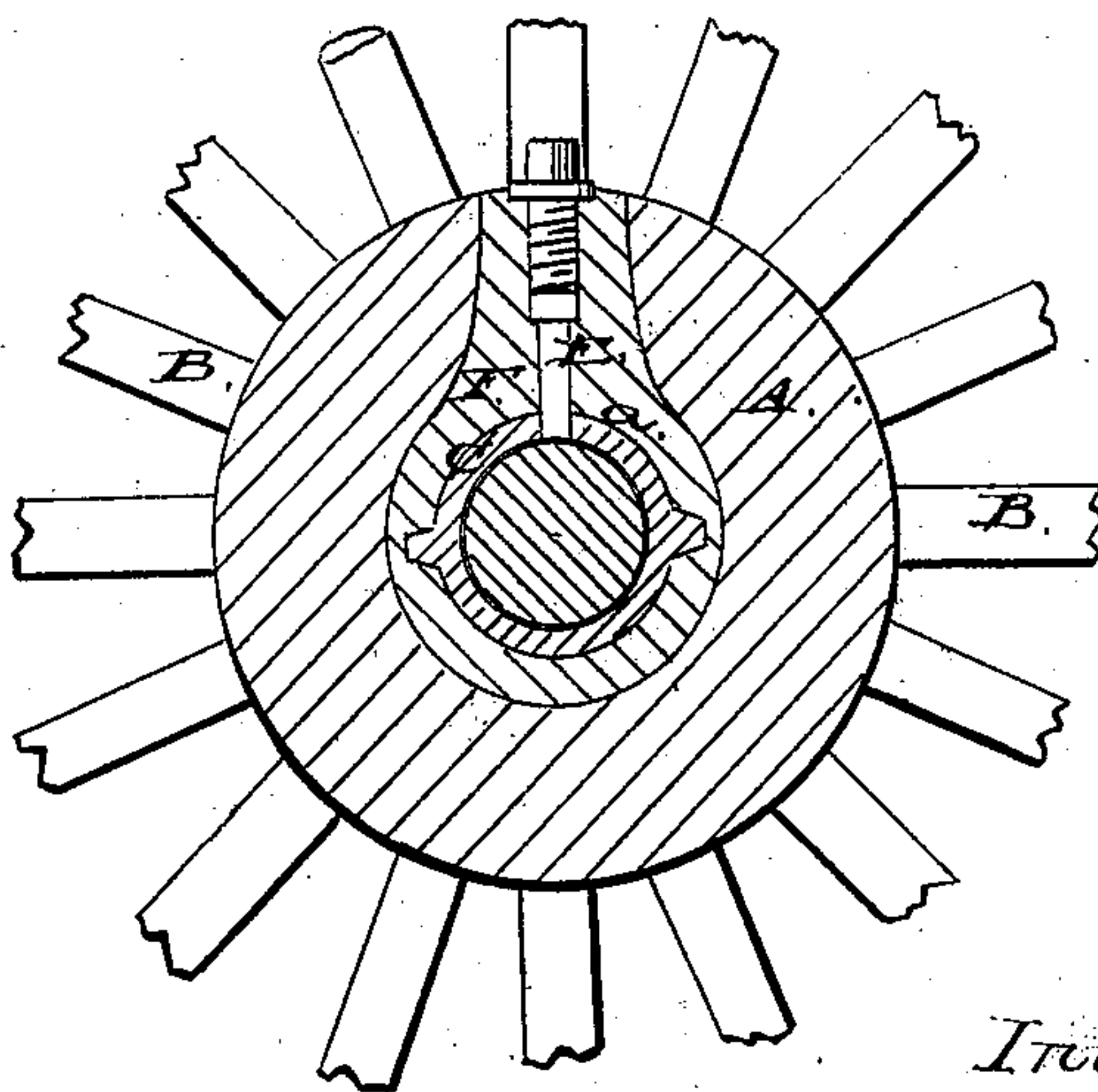


Fig. 2.



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Witnesses.
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EDRICK THOMAS, OF KICKAPOO, ILLINOIS.

Letters Patent No. 70,650, dated November 5, 1867.

IMPROVEMENT IN LUBRICATING CARRIAGE-AXLES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, EDRICK THOMAS, of Kickapoo, in the county of Peoria, and State of Illinois, have invented a new and useful Improvement in Lubricating Carriage-Axles; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

The object of this invention is to lubricate carriage-axles without removing the wheels from the axles.

To this end the invention consists in boring a hole in the hub, directly back of the spokes, and inserting a tube to receive a bolt or plug, the metallic box of the hub being tapped, and the hole closed by the bolt or plug when the latter is inserted in the hub.

In order to lubricate the axle, the bolt or plug simply requires to be removed, oil poured into the tube, and the latter filled or stopped by inserting the bolt or plug. In the accompanying sheet of drawings—

Figure 1 is a longitudinal central section of a hub provided with my improvement.

Figure 2, a transverse section of the same, taken in the line *x x*, fig. 1.

Similar letters of reference indicate like parts.

In order to obtain the object above specified, I bore a hole radially in the hub A, just back of the spokes B, and take out a portion of the hub, so as to leave a space all around the metallic box C, which rotates on the axle D. I then drill a hole, *a*, through the box C, and insert a bolt or screw-plug, E, in the hole in the hub, and screw the lower end of the bolt or plug into the hole *a*, and run Babbit metal, F, into the hole in the hub. This metal runs around the metallic box C, and encompasses the bolt or plug, forming a perfect tube.

By unscrewing the bolt or plug E, and pouring oil in the tube, the former will pass through the hole *a* in the metallic box C, and come in contact with the axle. After the oil is poured into the tube, the bolt or screw-plug is replaced in the tube, and its lower end screwed into the hole *a* of the metallic box. The Babbit-metal tube F serves to keep the metallic box C in position.

Having thus described my invention, I claim as new, and desire to secure by Letters Patent—

The Babbit-metal tube F, with the bolt or screw-plug E, and the hole *a* in the metallic box C, all arranged in the manner substantially as and for the purpose set forth.

EDRICK THOMAS.

Witnesses:

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