J. H. Carkeet.

Anti-Friction Axle & Journal-Box.

No. 72796 Patented Dec. 31, 1867.

Fig. 1

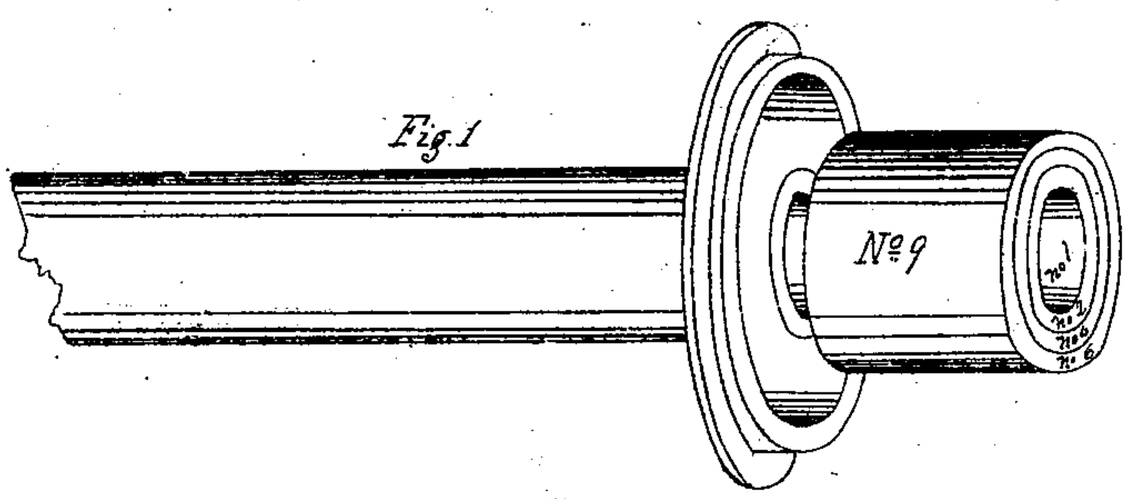


Fig. 2

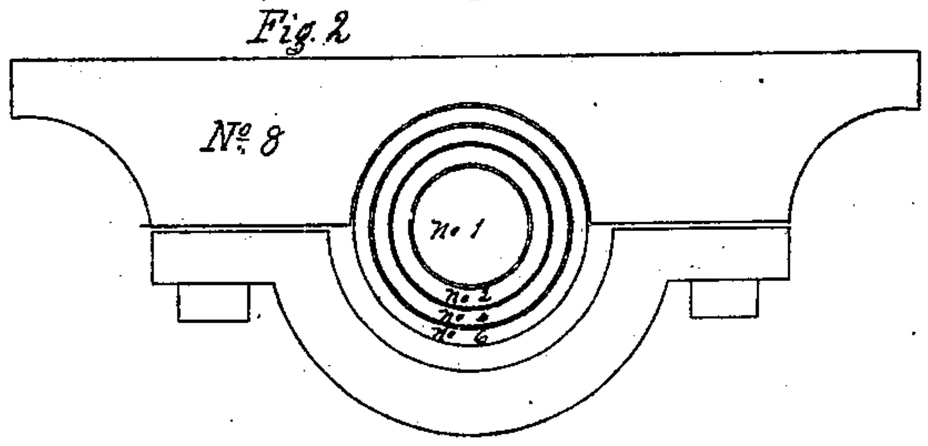


Fig. 3

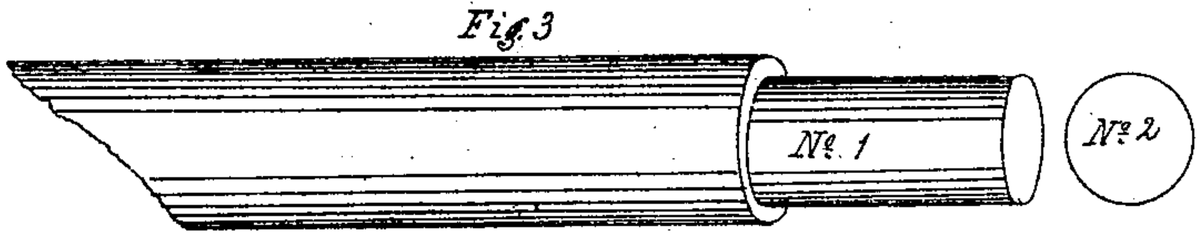


Fig. 4

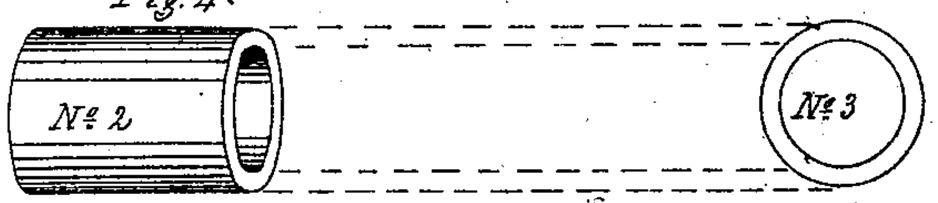


Fig. 5

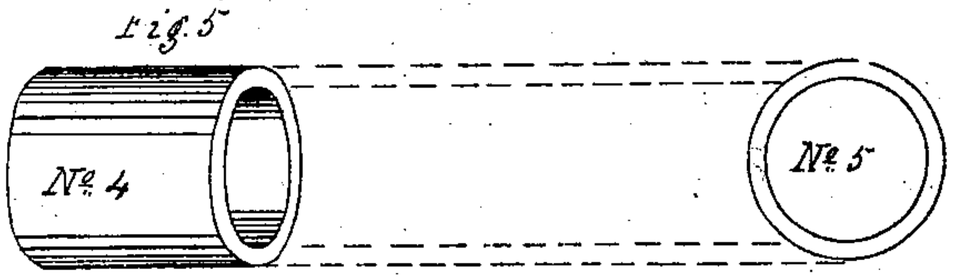


Fig. 6

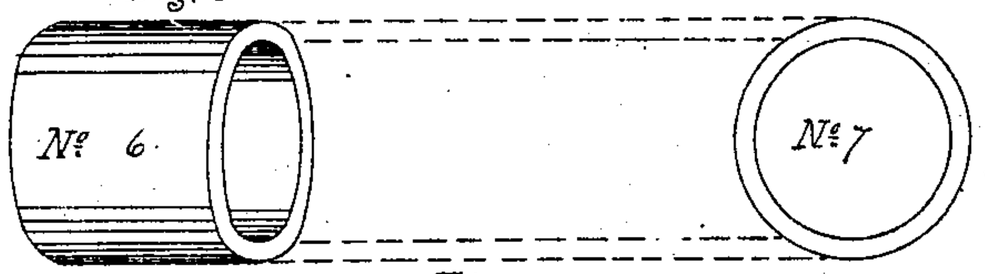
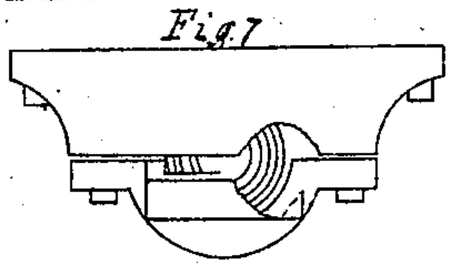


Fig. 7



United States Patent Office.

JAMES H. CARKEET, OF MONTGOMERY, ALABAMA.

Letters Patent No. 72,796, *dated December* 31, 1867.

IMPROVEMENT IN ANTI-FRICTION AXLE AND JOURNAL-BOX.

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, JAMES H. CARKEET, of the city and county of Montgomery, in the State of Alabama, have invented a new and improved mode of relieving friction, or of transmitting the motion and friction between the axle and the bearing, or reversely, between the bearing and the axle, of machinery, or vehicles of any description; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings and figures marked thereon, to wit:

Figure 1, No. 1, perspective view of axle; Nos. 2, 4, and 6, perspective view of the hollow cylinders around each other, enclosing the axle.

Figure 2, side view of the bearings; No. 1, end view of the axle; Nos. 2, 4, and 6, end view of hollow cylinders around each other, enclosing the axle.

Figure 3, perspective view of the shaft; No. 1, the axle, around which the cylinders are fitted; No. 2, end view of the axle.

Figure 4, No. 2, perspective view of the cylinder, which is placed immediately on the axle, as seen in No. 2, fig. 1; No. 3, end view of the cylinder.

Figure 5, No. 4, perspective view of the cylinder fitted on No. 2, fig. 4, as seen in fig. 1, No. 4; No. 5, end view of said cylinder.

Figure 6, No. 6, perspective view of the cylinder fitted over the preceding one, as seen in fig. 1, No. 6; No. 7, end view of said cylinder.

Figure 7, side view of box or bearing, showing the end view of the cylinder in position, by removing part of the front plate.

To enable others skilled in mechanism to construct and use my invention, I will proceed to describe its construction in detail.

I first prepare the axle, as seen in the drawing, fig. 3, No. 1, after which I construct the hollow cylinder of wrought or cast iron, or other suitable material or metal, and fit it to the axle, as above described, and so, in like manner, I prepare and fit, one around the other, any desirable number of cylinders. I regulate the thickness of the cylinders according to the nature, size, and weight of the machinery or vehicle to which they are to be applied. They are kept in their position by side plates, which form the inner and outer sides of the box, extending partly around and near to or covering the end of the axle, as may be desirable. If the cylinders are made of iron, I leave sufficient room between them for Babbit or other metal.

What I claim as my invention, and desire to secure by Letters Patent, is—

The application of hollow cylinders to the relief of friction, as above substantially described and set forth.

JAMES H. CARKEET.

Witnesses:

W. C. BIBB,

W. O'BRIEN.