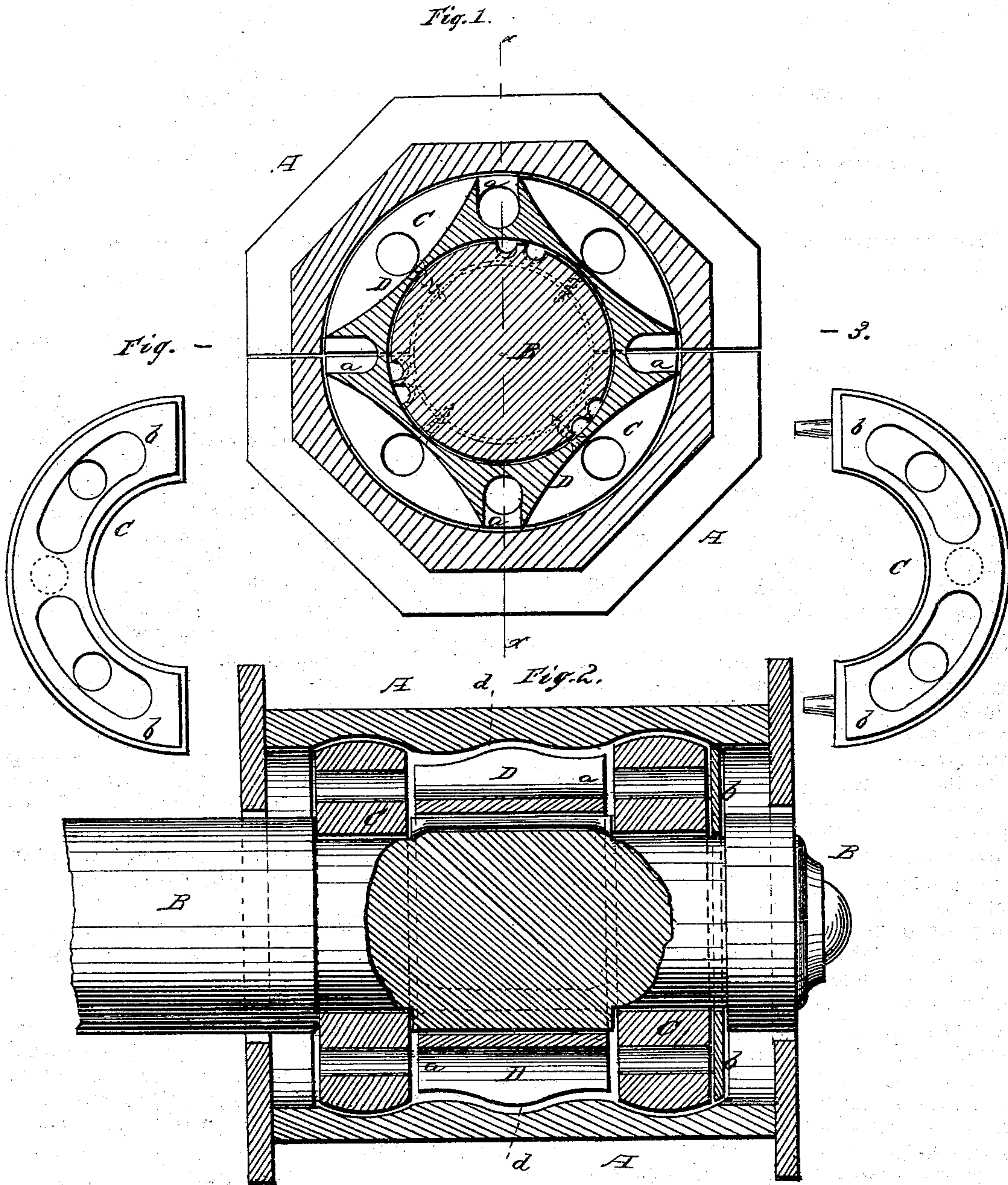


J. P. GARTON.

Car-Axle Lubricating Journals.

Patented Aug. 11, 1874.

No. 154,036.



WITNESSES:

P. C. Deterick.
H. C. Scott.

INVENTOR,

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ATTORNEYS.

UNITED STATES PATENT OFFICE.

JAMES P. GARTON, OF JERSEY CITY, NEW JERSEY.

IMPROVEMENT IN CAR-AXLE-LUBRICATING JOURNALS.

Specification forming part of Letters Patent No. **154,036**, dated August 11, 1874; application filed July 24, 1874.

To all whom it may concern:

Be it known that I, JAMES P. GARTON, of Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Car-Axle Journals; 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 which it pertains to make and use the same, reference being had to the accompanying drawings and to the letters of reference marked thereon, which form a part of this specification.

The nature of my invention consists in certain improvements on the car-axle journal for which Letters Patent No. 150,561 were granted to me May 5, 1874, as will be hereinafter more fully set forth.

In the accompanying drawing, Figure 1 is a transverse section. Fig. 2 is a longitudinal section through line *x x*, Fig. 1; and Fig. 3 is a detached view of the rings.

A represents the journal-box; B, the journal, and C C the perforated loose rings thereon, constructed in the same manner as described in my patent above referred to.

By experiments I have found that the oil will not come up freely to lubricate the entire bearings. To obviate this difficulty is the object of my present invention; and to this end I attach to the journal B, between the rings C C, slightly concave wings D D, the ends of which are turned up in the center and curved downward toward both sides, also forming grooves *a a* between the ends of the wings, as shown.

The wings D D may be all formed in one piece, as a collar to be slipped on the journal; or they may be made in two or more sections

and fitted thereto, in either case being firmly fastened to the journal.

The operation of these wings is, when the journal is revolving, to carry up sufficient oil and distribute the same toward both sides, so as to thoroughly lubricate all the bearings—that is, both the interior and exterior circumference of the loose rings C C. In addition thereto the wings D D act as blowers to clean the perforations in the rings C C from any dirt that may lodge therein. The turned-up ends of the wings D D work in a circumferential recess or groove, *d*, made around the interior of the journal-box A. I also place washers *b* on each side of the loose rings C, to prevent from wearing or winding as it revolves.

With these improvements all the bearings will be kept constantly and thoroughly lubricated, and the journal will run smooth and easy.

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

1. The concave wings D D, attached to the journal A between the loose rings C C, all combined substantially as and for the purposes set forth.

2. The combination of the journal A, loose rings C C, and the washers *b b*, placed on each side of said rings, for the purposes set forth.

In testimony that I claim the foregoing as my own, I affix my signature in presence of two witnesses.

JAMES P. GARTON.

Witnesses:

C. H. WATSON,

ELIPHALET S. SCRIPTURE.