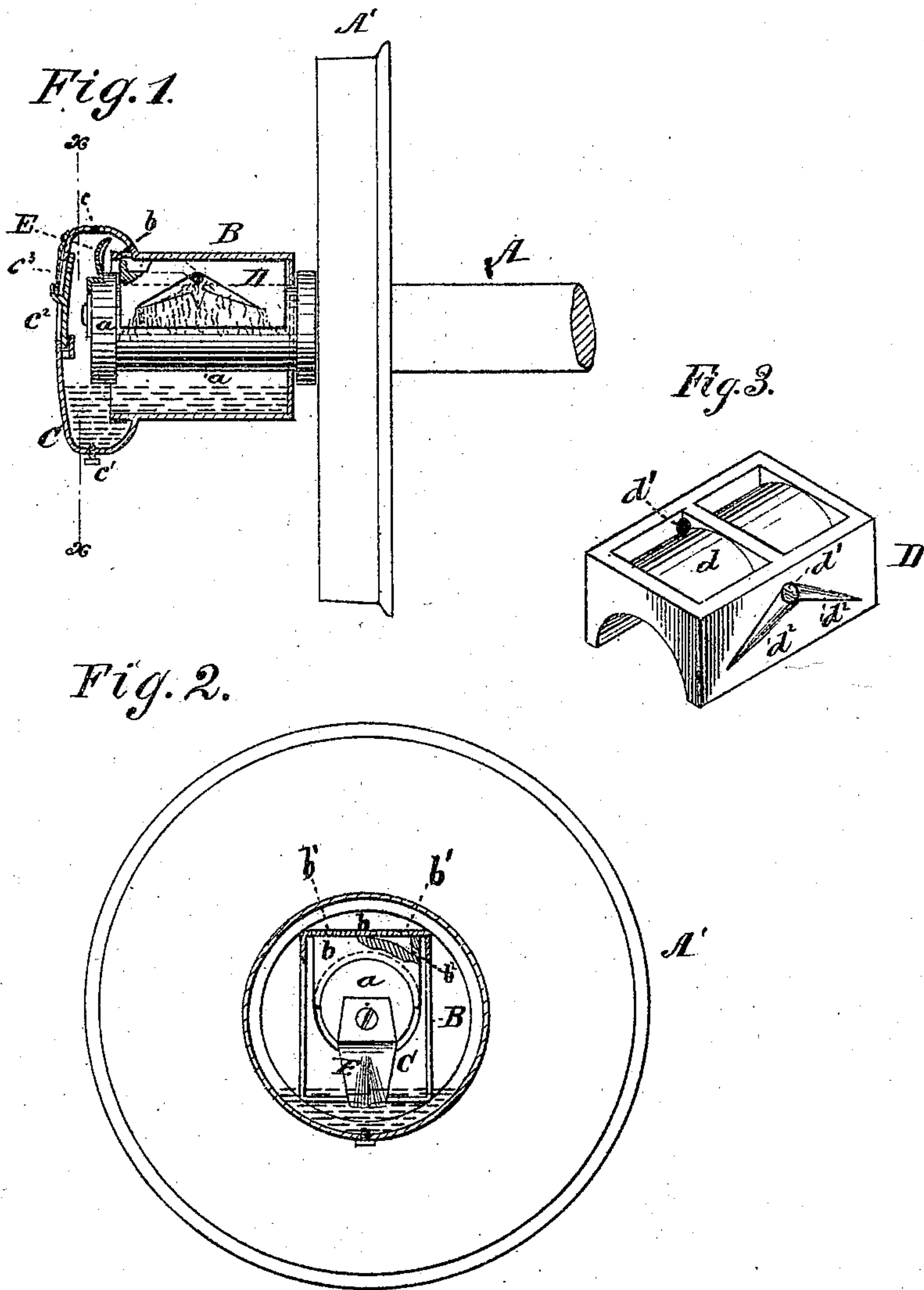


J. R. MORRIS.

Lubricating Car-Axles.

No. 134,696.

Patented Jan. 7, 1873.



Witnesses:
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UNITED STATES PATENT OFFICE.

JOSEPH R. MORRIS, OF HOUSTON, TEXAS.

IMPROVEMENT IN LUBRICATING CAR-AXLES.

Specification forming part of Letters Patent No. 134,696, dated January 7, 1873.

To all whom it may concern:

Be it known that I, JOSEPH R. MORRIS, of Houston, in the county of Harris and State of Texas, have invented a new and useful Improvement in Lubricating Car-Axles; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification.

The invention consists in a peculiar mode of constructing and combining an oil-elevator, an axle-box, and a journal-box, so that the oil will be poured at every revolution of axle over a shelf, and then allowed to trickle through journal-box and be fed continuously to journal.

Figure 1 represents a longitudinal and vertical section of axle-box, exhibiting the journal surmounted by its journal-box and with the oil-elevator attached. Fig. 2 is a transverse section of Fig. 1 through the lines $x x$. Fig. 3 is a perspective view of the journal-box, showing its construction and peculiarities.

A in the drawing represents a car-axle; A', a car-wheel; B, an axle-box; C, an oil-box; D, a journal-box; and E, a spoon-shaped scoop on end of journal. The axle has a journal, a , bearing against the journal-box D, which is hollow on top, has convexities d , holes d^1 , and channels d^2 . The axle-box has a shelf, b , which is apertured at $b' b'$.

By this construction, elevator E scoops up the oil in the lower part of box C, carries it and empties it upon the shelf b . Thence it trickles through holes $b' b'$ upon the convexity d , passes down to and through the holes d^1 , along the channels d^2 under box D, and against the surface of journal a , which is thus effectually lubricated.

The oil-box C is provided with a rectangular hole, c^2 , which is covered by a removable door, c^3 , whereby access is conveniently obtained to admit of the removal of journal-box D for change or repair. The hole c allows oil to be poured into the oil-chamber, while hole c^1 allows an exit for the dirt, sediment, and dregs.

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

A scoop E rotating in oil-box C, an axle-box having shelf b with holes b' and a journal-box, D, recessed on top, and provided with holes d^1 and channels d^2 , all combined and relatively arranged as and for the purpose specified.

JOSEPH R. MORRIS.

Witnesses:

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