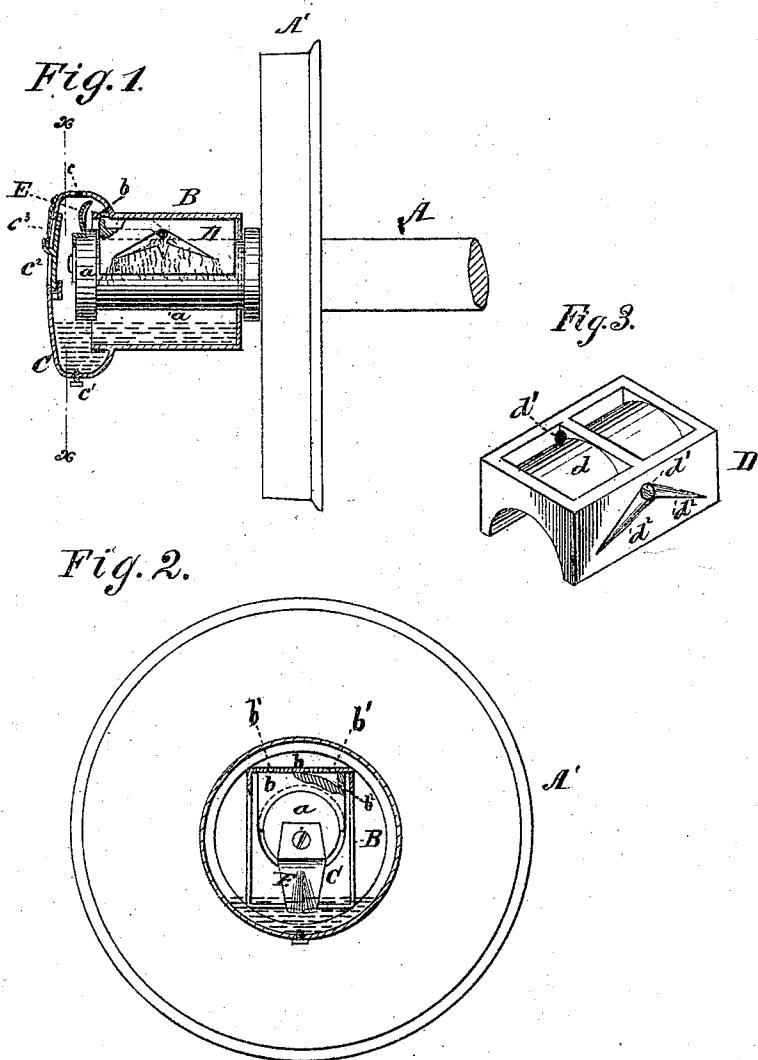


J. R. MORRIS.

Lubricating Car-Axles.

No. 134,696.

Patented Jan. 7, 1873.



Witnesses:

John Morris  
Colonel Lemon

Inventor:

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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-Axes; 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*<sup>1</sup>, and channels *d*<sup>2</sup> *d*<sup>2</sup>. 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*<sup>1</sup>, along the channels *d*<sup>2</sup> 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*<sup>2</sup>, which is covered by a removable door, *c*<sup>3</sup>, 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*<sup>1</sup> 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*<sup>1</sup> and channels *d*<sup>2</sup>, all combined and relatively arranged as and for the purpose specified.

JOSEPH R. MORRIS.

Witnesses:

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