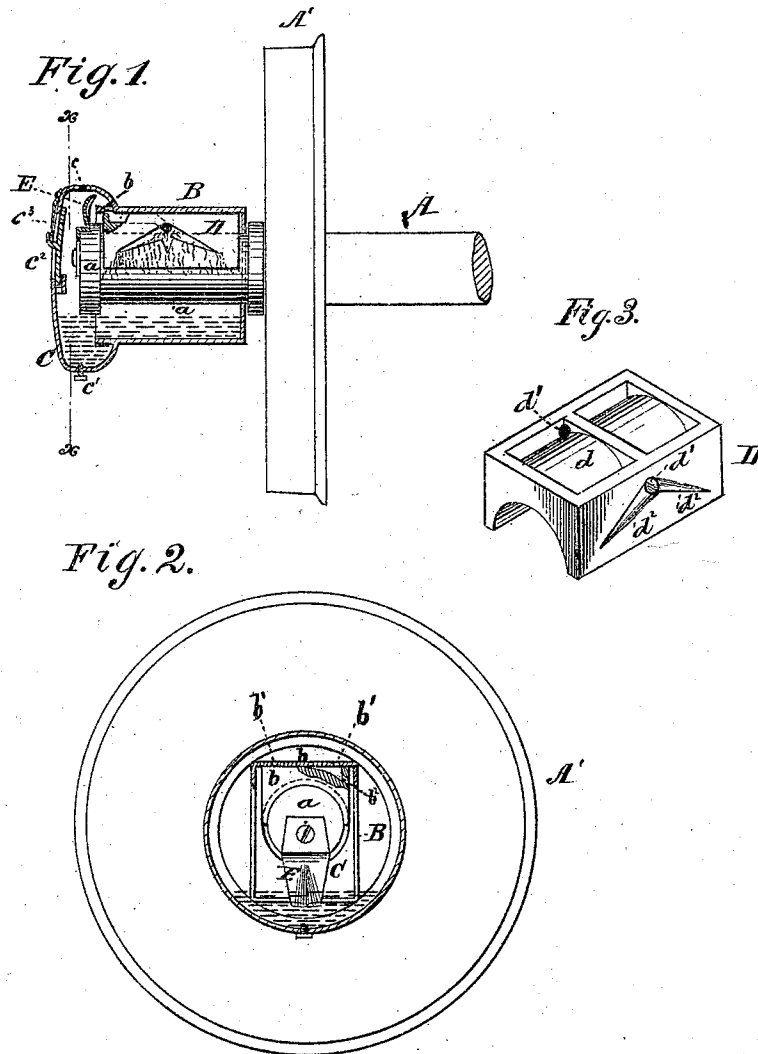


J. R. MORRIS.

Lubricating Car-Axles.

No. 134,696.

Patented Jan. 7, 1873.



Witnesses:
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John H. Emory.

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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 *xx*. 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 *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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