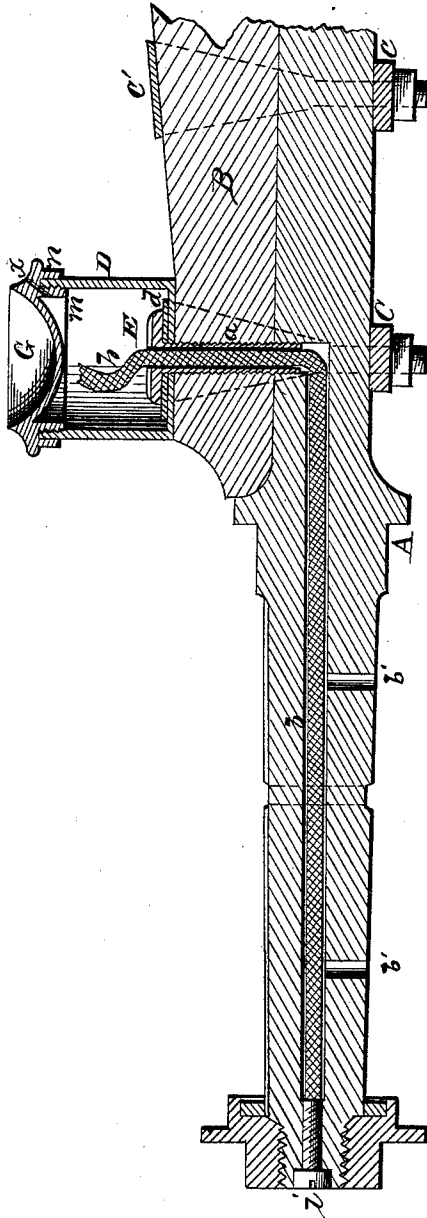


C. H. TIBBETTS.
AXLE-LUBRICATOR.

No. 176,097.

Patented April 11, 1876.



WITNESSES
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UNITED STATES PATENT OFFICE.

CHARLES H. TIBBETTS, OF HOULTON, MAINE.

IMPROVEMENT IN AXLE-LUBRICATORS.

Specification forming part of Letters Patent No. **176,097**, dated April 11, 1876; application filed December 23, 1875.

To all whom it may concern:

Be it known that I, C. H. TIBBETTS, of Houlton, in the county of Aroostook and in the State of Maine, have invented certain new and useful Improvements in Self-Lubricating Axles; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a lubricating device for vehicle-axles, as will be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, which represents a longitudinal section of a wagon or carriage axle embodying my invention.

A represents the axle, fastened to the bed-piece B by means of clips C C', in the usual manner. Under the outer clip C is a hole, *a*, bored through the bed-piece and into the axle until it meets and communicates with the inner end of a hole, *b*, bored longitudinally from the outer end inward through the center of the axle. The outer clip C is attached to an oil-cup, D, which thus rests on the top at the outer end of the bed-piece B, and has an opening in its bottom corresponding with the hole *a*. Through the bottom of the oil-cup is screwed a hollow screw, E, which extends

downward to near the lower end of the hole *a*, and under the head of said screw is placed a washer, *d*, to make the joint perfectly oil-tight. *h* is a wick, passed through the hollow screw E and through the hole *b* to near the outer end thereof. In the outer end of the hole *b* is a screw, *i*, stopping the same, and preventing the oil from escaping. On top of the oil-cup D is a cap, G, provided on the under side with two concentric flanges, *m* and *n*, the inner one, *m*, of which has exterior screw-threads to screw into the upper end of the cup, and the outer flange, *n*, fits around the outside thereof. In this cap is an air-vent, *x*, as shown.

The oil passes through the wick *h* the entire length of the hole *b*, and allows sufficient quantity to escape through small holes *b'* in the bottom of the axle, so as to form a self-lubricator for the axle.

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

The hollow screw E, provided with a head, in combination with the oil-cup D, washer *d*, perforated axle A, wick *h*, and oil-passage *b*, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 1st day of November, 1875.

CHARLES H. TIBBETTS.

Witnesses:

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