

A. BEAUSOLEIL.  
Vehicle Axle-Lubricator.

No. 205,233.

Patented June 25, 1878.

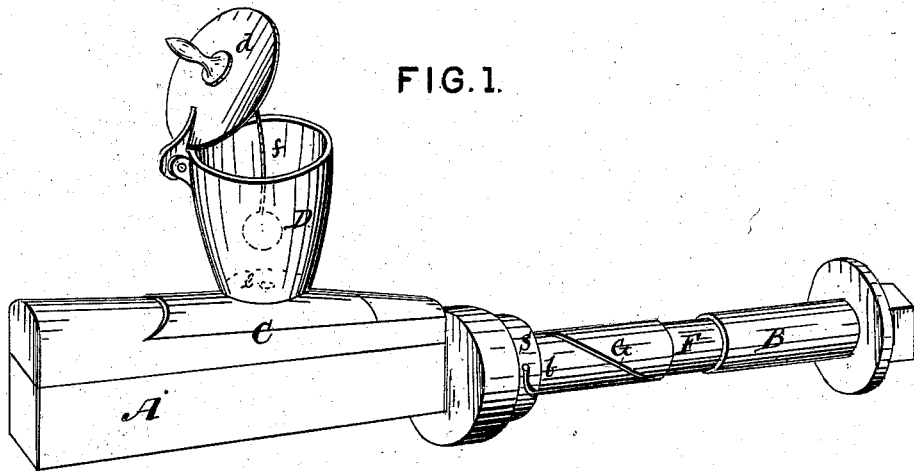


FIG. 1.

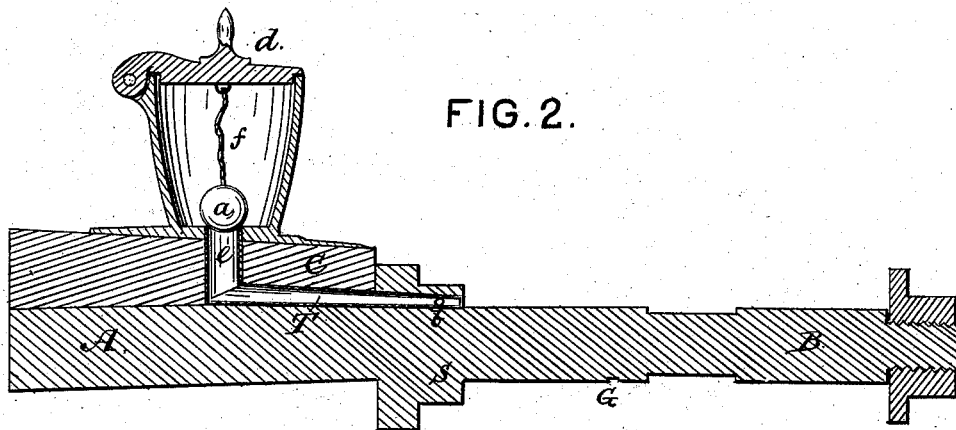


FIG. 2.

WITNESSES  
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By

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# UNITED STATES PATENT OFFICE.

ALFRED BEAUSOLEIL, OF ALPENA, MICHIGAN, ASSIGNOR OF ONE-HALF HIS RIGHT TO NALBERT RUELLE, OF SAME PLACE.

## IMPROVEMENT IN VEHICLE-AXLE LUBRICATORS.

Specification forming part of Letters Patent No. 205,233, dated June 25, 1878; application filed March 28, 1878.

*To all whom it may concern:*

Be it known that I, ALFRED BEAUSOLEIL, of Alpena, in the county of Alpena and State of Michigan, have invented certain new and useful Improvements in Lubricators for Vehicle-Axles; 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 appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of the end of an axle having my improved lubricating device, and Fig. 2 is a vertical section of the same.

Similar letters of reference denote corresponding parts in both figures.

This invention relates to an improved lubricating device for the axles of vehicles; and it consists in the construction and arrangement of parts hereinafter more fully shown and specified.

In the drawings, A is the axle, which terminates in the spindle B. C is the axle-tree, on top of which is secured the oil-cup D, having hinged cover *d*. The inside of the oil-cup tapers down to the bottom, which is perforated at *e*, and to the under side of the cover is secured, by a cord or chain, *f*, a ball, *a*, which acts as a valve for closing the perforation *e* when the cover is closed, while by raising the cover the perforation *e* is opened, so as to permit the flow of oil.

T is a tube leading from the bottom of the oil-cup to the spindle, which is provided with a spiral groove, G, terminating in an annular depression, F, forming an oil-reservoir. A branch, *b*, of tube T leads through the shoulder S to the face of the spindle. By this arrangement the side of the shoulder and the

inner end of the spindle, which could not otherwise well be reached by the oil, are kept constantly lubricated.

The operation of my invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed.

By raising the cover *d* the oil is permitted to flow through the channels T & *b*, thus filling the recess F and lubricating the spindle. The quantity of oil in the recess F keeps the spindle lubricated for a considerable length of time, when the operation may be repeated, thus lubricating the spindle without having the trouble and annoyance of removing the wheel.

I prefer to make the oil-cup of cast-iron or other metal. For carriages and fancy vehicles it may be nickel or silver plated, thus forming a handsome ornament.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

In a vehicle-axle lubricator, the lubricant vessel or cup D, to the lid of which is hung a ball-valve, *a*, covering the passage *e*, leading from the bottom of said cup, and having a transversely-arranged branch passage, *b*, with which communicates or connects a spiral groove or passage, G, terminating in an annular depression or groove, F, all arranged in connection with an axle, substantially as shown and described, for the purpose set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

ALFRED BEAUSOLEIL.

Witnesses:

CHARLES A. JEYTE,  
WM. BAGGER.