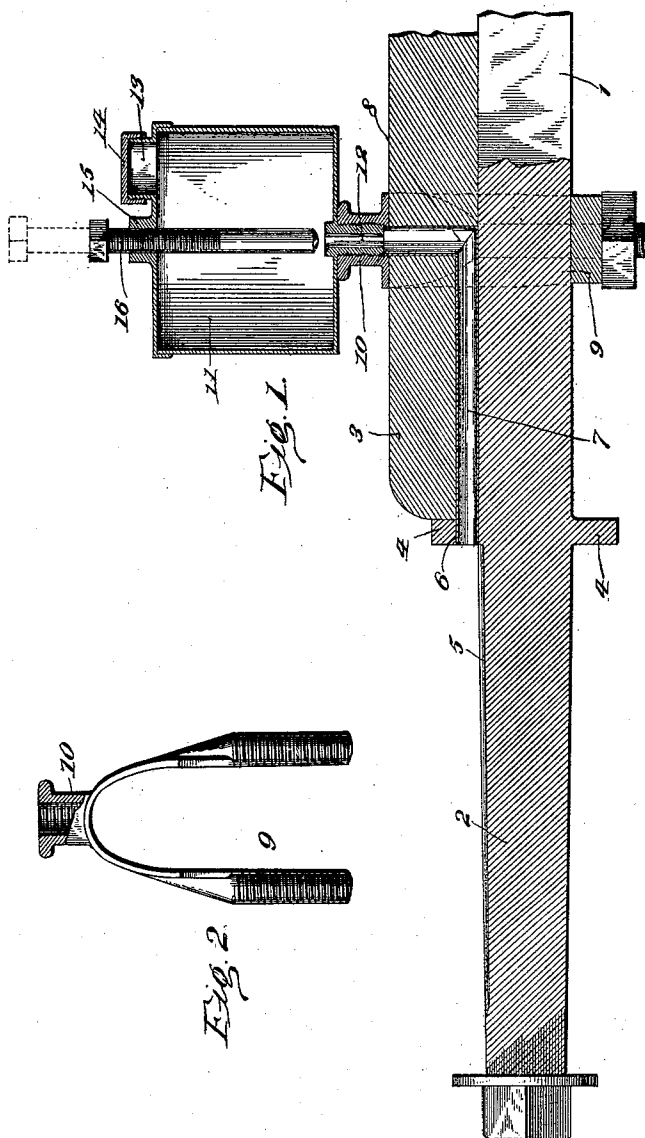


(No Model.)

J. REICHENBACH.  
AXLE LUBRICATOR.

No. 572,276.

Patented Dec. 1, 1896.



Witnesses  
*Theo. L. Gatchel.*  
*William O. Wilson.*

Inventor  
*John Reichenbach.*  
By *L. F. Benjamin.*  
Attorney

# UNITED STATES PATENT OFFICE.

JOHN REICHENBACH, OF EGG HARBOR CITY, NEW JERSEY.

## AXLE-LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 572,276, dated December 1, 1896.

Application filed November 1, 1895. Serial No. 567,593. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN REICHENBACH, a citizen of the United States, residing at Egg Harbor City, in the county of Atlantic and State of New Jersey, have invented certain new and useful Improvements in Axle-Lubricators; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in axle-lubricators of that class in which an oil-feed cup is connected with the axle and the oil is fed by gravity to the part of the axle requiring lubrication.

The object of my improvements is to provide a lubricator which may be readily attached to vehicles now in use, which will be effective and certain in its action, which is not likely to get out of order by the jarring of the vehicle, which does not require a special construction of the wheel, and which can be furnished at a small cost. The manner in which I secure these desirable results is set forth in the following description, and the construction of the device is clearly shown in the accompanying drawings, in which—

Figure 1 is a longitudinal sectional view of one end of a vehicle-axle and my improved lubricator attached thereto. Fig. 2 is a detail of the construction and arrangement of the clip used with my device.

Like reference-numerals indicate like parts in the views.

The iron or steel axle 1, which is of the ordinary square form, terminates in the spindle 2 and has clipped to its upper side the wooden bolster 3. Between the axle and the spindle and formed therewith is the spindle-collar 4. Along the upper side of the spindle is the oil-groove 5, and through the collar 4 is an oil-hole 6, with which the oil-groove 5 communicates on the spindle side of said collar. On the opposite side of said collar and running from said oil-hole along a groove cut in the under side of the bolster 3 is an oil-tube 7, which is bent at 8 and extends vertically through a suitable hole in the bolster 3, terminating a short distance above the upper side of said bolster.

Surrounding the axle 1 and bolster 3 a short distance from the collar 4 is the clip 9, of the usual form, except that from the upper portion of said clip is an open extension or boss

10, which is threaded internally, and through said boss extends the vertical end of the oil-tube 7.

Placed above the clip 9 and screwed into the boss 10 is the oil-cup 11, which is provided for this purpose with an externally-threaded pipe 12, the upper end of which is slightly above the bottom of the oil-cup 11. The vertical end of the oil-tube 7 also extends to the pipe 12, as shown in the drawings.

The oil-cup 11 has an opening 13 at the top, through which the oil is poured into the cup, and said opening is closed with a screw-cap 14. In the center of the top of the oil-cup is an opening 15, which is internally threaded to receive a valve-rod 16, which extends through the cup to the upper end of the oil-tube 7, and by means of said valve-rod the flow of oil into said tube is regulated. In warm weather, when the lubricating-oil flows freely, the valve-rod 16 is screwed down so as to almost close the tube, but in cold weather the conditions are reversed.

It will be seen that my improved lubricator may be applied to any axle of ordinary form by drilling a hole through the spindle-collar and making a horizontal and vertical groove in the bolster to accommodate the oil-tube. It will also be apparent that no amount of jarring will impair the efficiency of the lubricator.

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

In an axle-lubricator, the combination with the axle having a perforated spindle-collar, of a bolster provided with a longitudinal groove and a vertical opening connected therewith, an oil-tube inserted in said groove and opening, a clip surrounding said axle and bolster, said clip having a vertical internally-threaded extension, an oil-cup having a central exteriorly-threaded extension to engage the extension on the clip, and a valve-rod centrally located in said cup and adapted to be raised and lowered, in the manner and for the purpose described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JOHN REICHENBACH.

Witnesses:

GEORGE F. BREDER,  
PET. BAUCHMÜLLER.