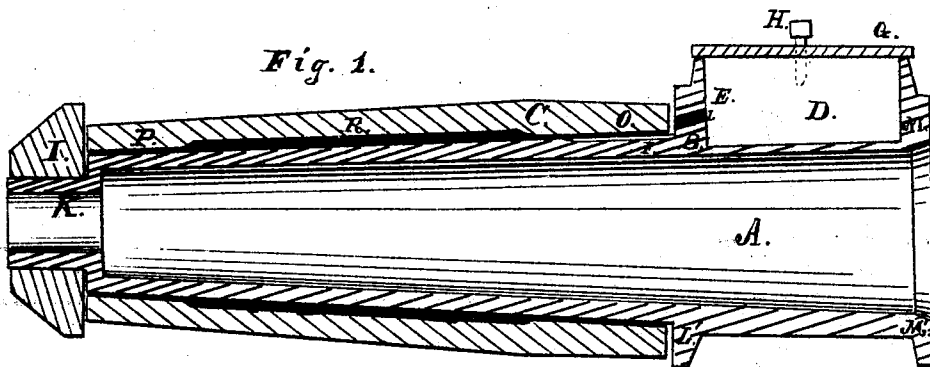


M. SOELLINGER & HENRY NOETZLI.

Improvement in Axle Lubricators.

No. 123,949.

Patented Feb. 20, 1872.



Witness:

M. W. Stipes.

A. Schib.

Inventors:

Moritz Soellinger,

Henry Noetzli,

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Attorney.

UNITED STATES PATENT OFFICE.

MORITZ SOELLINGER AND HENRY NOETZLI, OF KEOKUK, IOWA, ASSIGNORS
OF ONE-THIRD THEIR RIGHT TO FELIX GREMMINGER, OF SAME PLACE.

IMPROVEMENT IN AXLE-LUBRICATORS.

Specification forming part of Letters Patent No. 123,949, dated February 20, 1872.

To all whom it may concern:

We, MORITZ SOELLINGER and HENRY NOETZLI, of Keokuk, Iowa, have made a new and useful Improvement in Thimble-Skins for Vehicle-Wheels, of which the following is a specification:

The object of this invention is to form an arrangement that will prevent the need of taking off wagon-wheels to oil them, and present advantages over others for the purpose.

Figure 1 of drawing shows a longitudinal section of the axle with the improvement.

The general form of wheel and axle may be of any suitable pattern. A is the axle. B is the cast or metallic part on which the wheel turns. C is the boxing in the wheel. After ordinary lubrication the lubricant, if of a fluid nature, works toward the outer point of the axle, and leaves the inner end of the bearing to dry and cut very soon. Now, to keep this part in good condition requires that it should be repeatedly lubricated anew. To do this we provide a chamber, D, for any suitable fluid lubricant. This we have formed as part of part B, inside of the wheel and on top of the axle A. This chamber has a channel, E, leading to the bearing of the wheel at F, where it passes some little distance as a sunken chan-

nel on top of the spindles to conduct the lubricant. The bottom of box D can be lower than channel E, so that it will not run empty in standing, but so that the oscillations of level in use will cause the fluid to pass out in sufficient quantity for use. The box D can also be fitted with fibrous matter to prevent the lubricant being lost too freely. Powdered graphite may also be added to the lubricant so as to assist in its action. The box D has a lid, G, which is held and pivoted by a thumb-screw, H, which can be tightened up to hold the lid closed, or loosened to allow its being turned to one side for filling the chamber.

We claim—

The lubricating-chamber D on the axle A of a vehicle, and having an outlet, E, arranged some distance up its side to prevent too great loss of thin lubricant while supplying actual use, and with the channel F on top of the axle to guide the lubricant into the wheel, substantially as set forth.

MORITZ SOELLINGER.
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Witnesses:

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