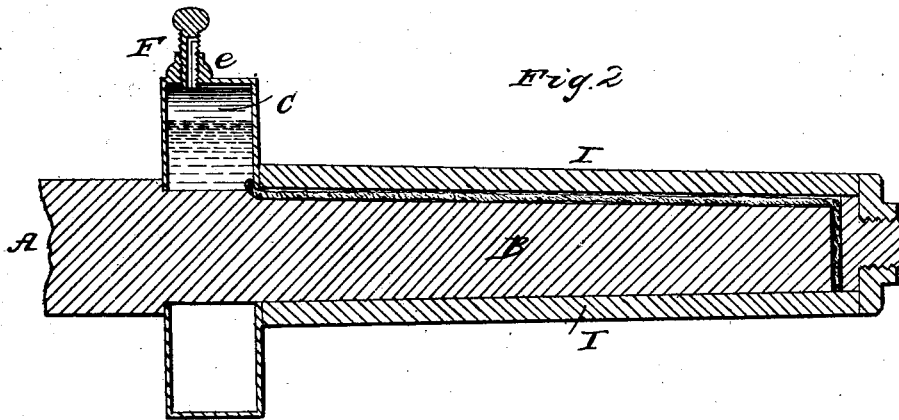
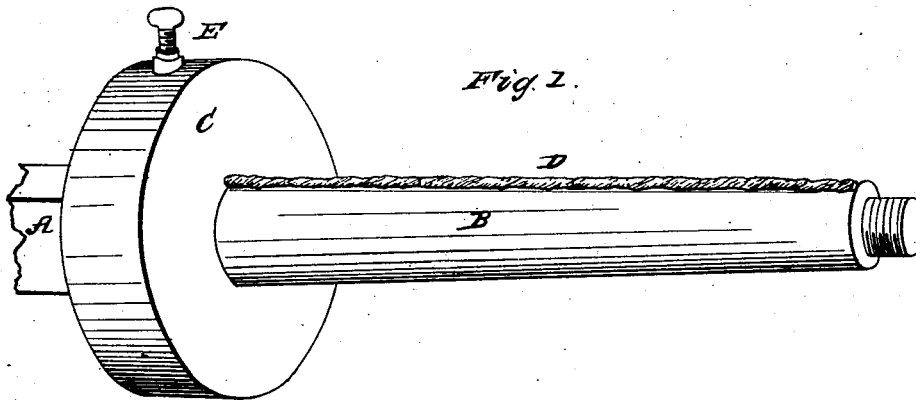


G. P. BLAISDELL.

Axle Lubricator.

No. 110,002.

Patented Dec. 13, 1870.



Witnesses
A. F. Curtis
Chas. J. Brown.

Inventor
George P. Blaisdell
by Cassel D. Wright
Atty.

United States Patent Office.

GEORGE P. BLAISDELL, OF NORTH EASTON, MASSACHUSETTS.

Letters Patent No. 110,002, dated December 13, 1870.

IMPROVEMENT IN SELF-LUBRICATING AXLES.

The Schedule referred to in these Letters Patent and making part of the same.

I, GEORGE P. BLAISDELL, of North Easton, in the county of Bristol and State of Massachusetts, have invented certain Improvements in Self-Lubricating Axles, of which the following is a specification.

Figure 1 is a perspective view of my invention, and

Figure 2, a sectional elevation of the same.

This invention consists in attaching annular oil-vessels to carriage axles, in convenient proximity to the journals of the same, said reservoirs being connected with wicks which pass along grooves in the journals and lubricate the axle-boxes. It also consists in a device for regulating the flow of oil through said wick by atmospheric pressure, as will hereinafter more fully appear.

In the drawing—

A represents the axle, and

B, the journal.

On the end of axle A is the annular metallic vessel or reservoir C, which surrounds journal B, and constitutes the shoulder against which the inner end of the hub bears in the usual manner.

D represents a wick of any fibrous material, which passes from the interior of vessel C along the surface of journal B, in a suitable groove or depression, and passes through the same at the outer extremity and is secured on the lower side.

E represents a thumb-screw, which fits a corresponding orifice, *e*, in the top of vessel C.

Said screw is provided with the interior channel F, which is open at the lower end of the same and at one side, as shown in fig. 2.

The operation of my invention is obvious. The vessel C is filled with oil, which is carried by wick D along the surface of the journal, and lubricates the inner periphery of the box I as it revolves around it.

The channel F of screw E admits sufficient air to allow the oil to flow freely, but when not in use the upper end of the same may be closed by turning the screw downward, thus cutting off the supply of air and checking the flow of oil through the wick. The whole device is simple, efficient, compact, and convenient.

Having thus fully described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

The combination of screw-plug E, provided with vent or channel F, annular reservoir C, and wick D, all arranged and operated substantially as described.

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

Witnesses:

GEORGE P. BLAISDELL.

CARROLL D. WRIGHT,

CHARLES F. BROWN.