

(No Model.)

W. DON.
CAR AXLE LUBRICATOR.

No. 260,955.

Patented July 11, 1882.

Fig. 1.

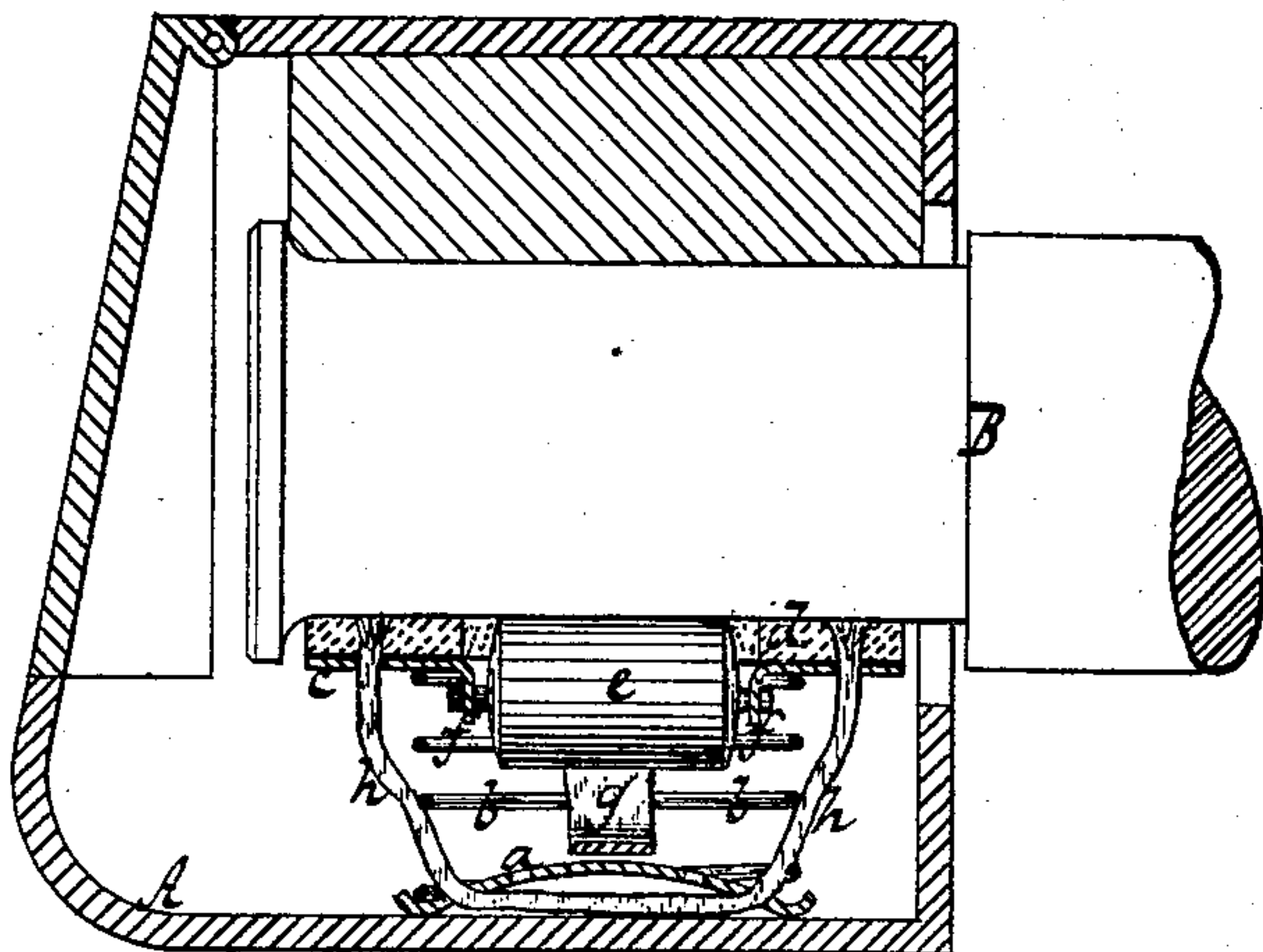
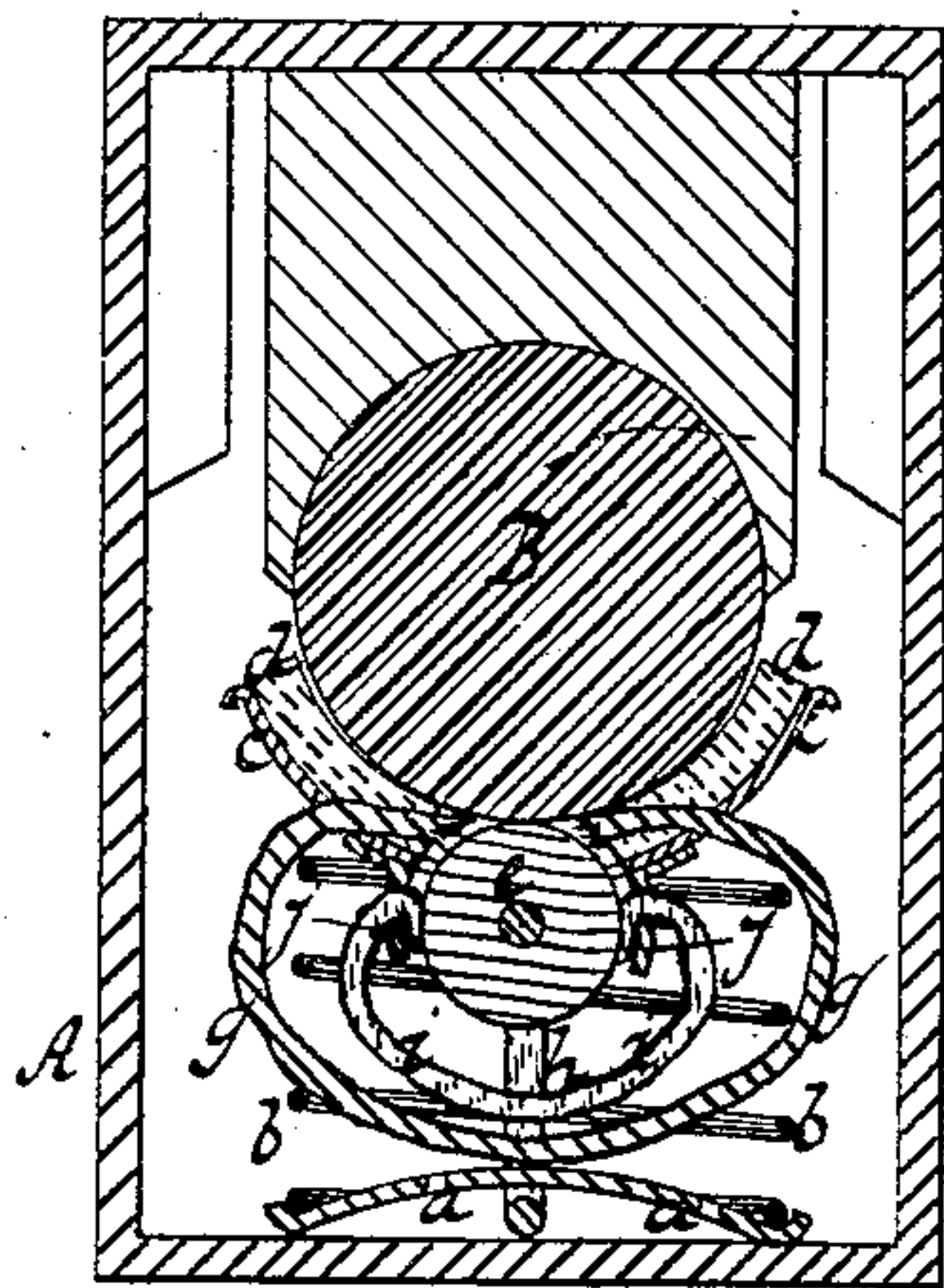


Fig. 2.



WITNESSES:

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CAR-AXLE LUBRICATOR.

SPECIFICATION forming part of Letters Patent No. 260,955, dated July 11, 1882.

Application filed May 5, 1882. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM DON, a citizen of the United States, residing at New York, in the county and State of New York, have invented new and useful Improvements in Car-Axle Lubricators, of which the following is a specification.

This invention consists in the combination of a spring-supported pad, a base-plate supporting the spring, a curved metallic plate on which the pad rests, lugs secured to the pad and forming the bearings for a roller, a wick situated above the base-plate and passing through the pad, a second wick situated at right angles to the first wick and extending beneath the base-plate and also through the pad, so that the lubricating material from all parts of the box is carried up to the journal of the axle and distributed by the roller, while the lubricator can be readily compressed for introduction into or removal from the axle-box. With the parts above named is combined a third wick, the ends of which bear upon the roller, and are supported in lugs depending from the supporting-plate of the pad.

In the accompanying drawings, Figure 1 represents a longitudinal section. Fig. 2 is a transverse section.

Similar letters indicate corresponding parts.

In these drawings, the letter A designates the axle-box, and B the axle, the journal of which is situated in the interior of the box.

My lubricator consists of a base-plate, *a*, a spiral spring, *b*, supported by said base-plate, a concave metal plate, *c*, resting upon said spring and fastened on the top of the same, a pad, *d*, fitted into the concave plate and intended to fit the journal of the axle, and a roller, *e*, the axle of which has its bearings in lugs *f f*, secured to the concave plate *c*, as shown in Fig. 1, so that when the lubricator is in its working position the roller bears against the axle and is caused to revolve by frictional contact therewith.

In order to carry the lubricating material to the journal, I employ two wicks, *g h*, the ends of which extend through the concave plate *c*, and through the pad *d*, and bear against the journal. By referring to the drawings it will be seen that the wick *g* is situated above the base-plate, so that it takes up that portion of the lubricating material which is over said plate, while the wick *h* is situated in a place

at right angles to the wick *g* and extends beneath the base-plate. By these means all the lubricating material contained in the box A is carried up to the journal, and, as the roller *e* revolves, said lubricating material is evenly distributed and the surplus is returned to the box.

In order to insure a still more perfect lubrication of the journal, I have applied an additional wick, *i*, the ends of which bear against the roller *e* and extend through lugs *j*, secured to the concave plate *c*, as shown in Fig. 2. By means of this additional wick the rollers *e* are supplied with some lubricating material, which, if required, is transferred to the journal of the axle. At the same time all the parts of my lubricator are connected in such a manner that the same can be compressed for the purpose of introducing it into the axle-box or for removing the same whenever such is desirable. For long journals the roller *e* and the pad may be supported by two springs, so as to render the device steady.

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

1. The combination of the base-plate, the spring supported by the same, the concave plate secured to the upper end of the spring and carrying a pad for the journal, and a loose roller and two independent wicks, arranged substantially at right angles to each other, and each connected with the pad on the concave plate, one of said wicks extending under the base-plate and the other extending over the base-plate, substantially as shown and described.

2. The combination, substantially as hereinbefore described, of the base-plate, the spring supported by said base-plate, the concave plate secured to the top of said spring and supporting the pad, the roller mounted on an axle which has its bearings in lugs secured to the concave plate, the wicks *g h*, extending through the pad, and the wick *i*, the ends of which bear against the roller and are supported in lugs depending from the concave plate.

In testimony whereof I have hereunto set my hand and seal in the presence of two subscribing witnesses.

WILLIAM DON. [L. S.]

Witnesses:

ARTHUR BASSET,
WASHINGTON FOSAID.