C. D. FLYNT.

Car-Axle Lubricator.

No. 166,600. Patented Aug. 10, 1875.

Fig. 1.

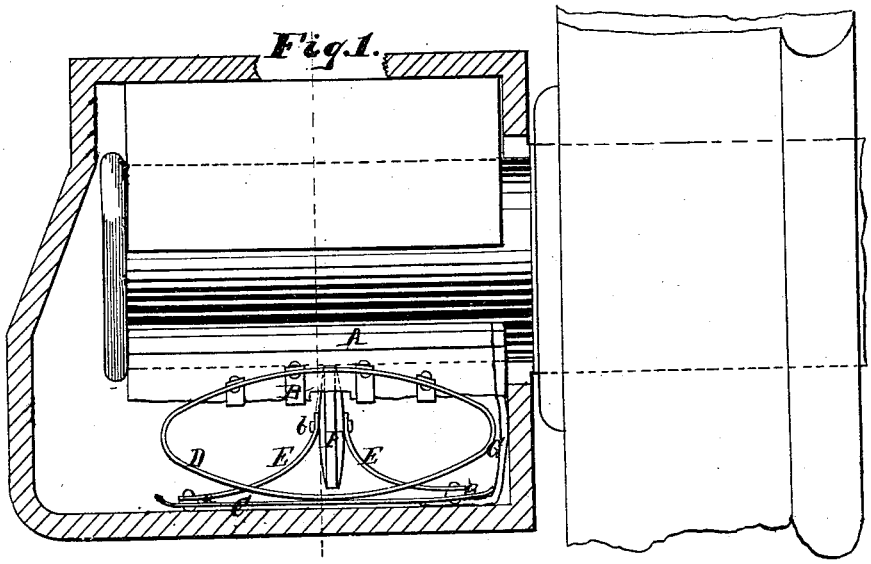
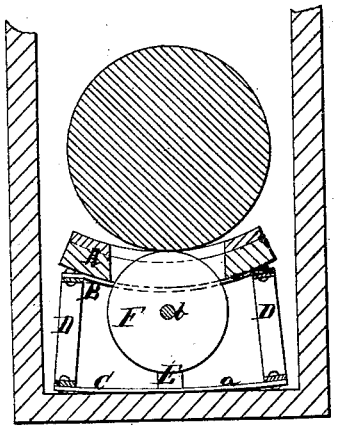


Fig. 2.



Witnesses
Otto Hufeland
Chas. Wahlers.

Inventor.
Chester D. Flynt
per
Van Santwood & Hauff
attys

UNITED STATES PATENT OFFICE.

CHESTER D. FLYNT, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN CAR-AXLE LUBRICATORS.

Specification forming part of Letters Patent No. **166,600**, dated August 10, 1875; application filed June 30, 1875.

To all whom it may concern:

Be it known that I, CHESTER D. FLYNT, of Brooklyn, in the county of Kings and State of New York, have invented a new and useful Improvement in Car-Axle Lubricators, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a longitudinal section. Fig. 2 is a transverse section.

Similar letters indicate corresponding parts.

This invention relates to an improvement on a car-axle lubricator which I have described in my Patent No. 156,990, November 17, 1874, and which is composed of an absorbent pad, supported by an open frame made of flexible strips of sheet metal, and an absorbent strip which connects with the absorbent pad. My present improvement consists in the combination of a feed-roller with the absorbent pad and its elastic supporting-frame, said feed-roller being mounted on an axle secured in the ends of elastic arms which extend from the supporting-frame of the absorbent pad, so that when my lubricator is placed into a car-axle box both the feed-roller and the absorbent pad are held in contact with the axle, and as the axle revolves the feed-roller carries up some of the lubricating material, which is then evenly distributed over the journal by the absorbent pad. With the absorbent pad and the feed-roller is also combined an apron, which closes the opening in the rear of the axle-box against the entrance of dust.

In the drawing, the letter A designates a pad made of felt or other absorbent material, which is secured to a concave frame, B, made of strips of sheet metal, which are united to each other and to the absorbent pad by rivets or other suitable means. Said frame B is connected to a bottom frame, C, by means of elliptic springs D, one on each side, and the bottom frame is made of strips of sheet metal, which are united to each other and to said springs by rivets or other suitable means. The bottom frame is made of such a shape that it fits the bottom of the axle-box, and from its traverses *a* extend two curved elastic arms, E, which form the bearings for the axle *b* of a roller, F. To the end of the pad A is secured an apron, G, of felt or other flexible material, and when my lubricator is placed into an axle-box this apron covers up the aperture in the rear side of said box, so as to prevent the entrance of dust. At the same time the roller F is brought in contact with the surface of the axle, being forced against said axle by the elastic arms E, so that when the axle rotates the roller is compelled by the friction to rotate with the same. Said roller is covered, by preference, with leather or other suitable material, and it is so placed that it dips down into the lubricating material contained in the bottom part of the axle-box, and when it is caused to revolve by its contact with the axle it carries up some of the lubricating material to the journal, and by the action of the absorbent pad this lubricating material is uniformly distributed all over said journal.

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

1. The combination of a roller, F, supported by elastic arms E, with the absorbent pad A, frames B C, and their connecting-springs D, all constructed and operating substantially as shown and described.

2. The combination of a dust-protecting apron, G, with the pad A, frames B C, and their connecting-springs D, substantially as and for the purpose set forth.

In testimony that I claim the foregoing, I have hereunto set my hand and seal.

C. D. FLYNT. [L. S.]

Witnesses:

W. HAUFF,

E. F. KASTENHUBER.