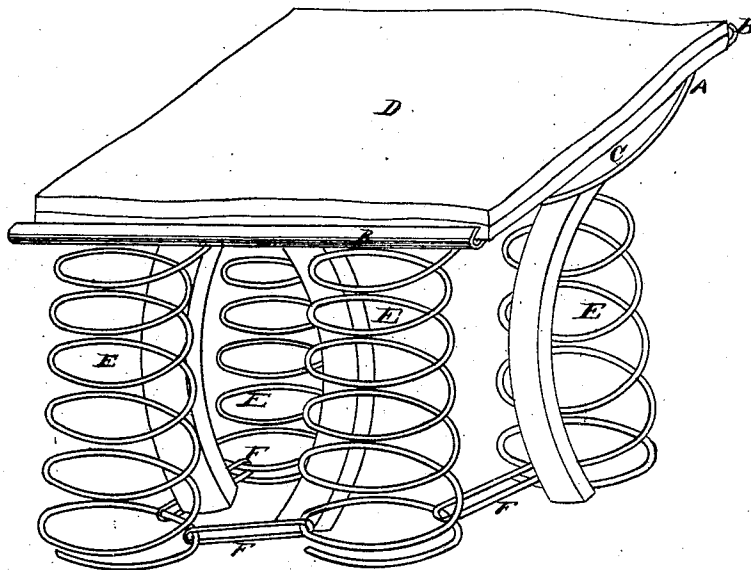


W. J. L. MOULTON.  
Lubricating Devices for Car-Axles.

No. 145,226.

Patented Dec. 2, 1873.

Fig. 1.



Witnesses.

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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN LUBRICATING DEVICES FOR CAR-AXLES.

Specification forming part of Letters Patent No. **145,226**, dated December 2, 1873; application filed  
August 2, 1873.

*To all whom it may concern:*

Be it known that I, WILLIAM J. L. MOULTON, of the city and county of San Francisco, State of California, have invented an Improvement in Lubricators for Lubricating Railway-Car and Carriage Axles; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings and to the letters marked thereon.

My invention relates to certain improvements in that class of inventions whereby the oil is conducted to the journal or axle by means of capillary attraction; and it consists, mainly, in constructing the pad-holder of a thin pliable material, which extends across the oil box or reservoir from side to side, so as to form guides to keep the pad in position at a horizontal plane.

The pad-holder is made slightly concave from end to end, and a group of spiral springs, with lower ends linked together, serve to keep the pad in place and impart a gentle and equal pressure of the oil-pad up against all parts of the journal, so that the lubricant will be more equally and constantly distributed, as will hereinafter more fully appear.

Referring to the drawings for a more complete explanation of my invention, Figure 1 is a perspective view of my invention.

A represents a thin metal plate, having upward-turned or curved sides B, so as to extend from side to side of the oil-box and act in the capacity of guides to keep the oil-pad in a horizontal plane with the journal when upheld by the spiral springs. The pad-holder A is pro-

vided with a half-oval trough or concavity, C, extending from end to end, and a flat pad of felt, D, with wicks of the same material, extend downward into the oil-box. This pad is confined, by copper wire, to the holder. A group of spiral springs, E E, consisting of two or more, are attached to the under side of the pad-holder. These springs are confined to each other, at their lower ends, by shackles or links F F, so as to insure a constant and equal upward bearing of the pad against the journal.

It will here be observed that by this construction the pad proper presents a flat, plane surface to the action of the journal, the tendency of which will be to force or press the surplus oil or lubricant through the pad into the groove or half-oval trough of the plate-holder and permit it to run out at the ends into the oil-box below.

The facility with which the lubricator can be compressed, so as to place it under journals having oil-boxes of shallow depth, will be apparent.

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

The lubricator consisting of the flexible pad-holder A, having the central trough C, springs E attached thereto, links F, and pad D, all combined as set forth.

In witness whereof I have hereunto set my hand and seal.

WM. J. L. MOULTON. [L. S.]

Witnesses:

C. W. M. SMITH,  
M. G. UPTON.