

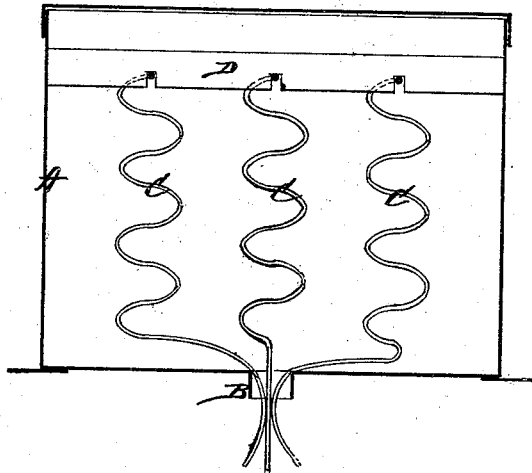
*H. Thurlow,*

*Journal.*

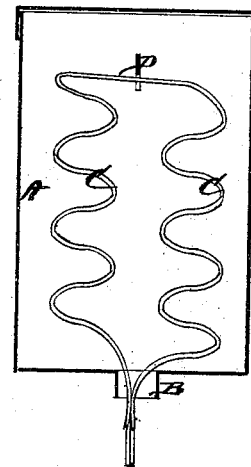
*No. 111,095,*

*Patented Jan. 17. 1871.*

*Fig. 1.*



*Fig. 2.*



Witnesses:

*Chas. Jacobs*

*J. White*

Inventor:

*Henry Thurlow*

*Per*

*B. H. Alexander*

*Atty.*

# United States Patent Office.

HENRY THURLOW, OF SKANEATELES, NEW YORK.

Letters Patent No. 111,095, dated January 17, 1871.

## IMPROVEMENT IN LUBRICATORS FOR AXLES.

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

### *To all whom it may concern:*

Be it known that I, HENRY THURLOW, of Skaneateles, in the county of Onondaga and State of New York, have invented certain new and useful Improvements in Devices for Lubricating Car-Axles; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a "device for lubricating car-axles," as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a longitudinal vertical section, and

Figure 2 is a transverse vertical section of my lubricating attachment.

A represents a metallic box of any suitable dimensions, provided in the center of its bottom with a small opening having a downward-projecting collar B.

Inside of this box is placed a series of wire springs, C C, the ends of which are soldered together within the collar B, and then spread outward below said collar.

A bar, D, running longitudinally through the box, near the top, holds the springs down, and prevents

them from moving up, when the cars are in motion, to disturb the lid of the box.

This attachment is filled with tallow or other suitable grease which will remain in the solid state, and is there fastened on the present car-box by means of small screws; the wires C C passing down through the car-box and resting on the axle. The axle is then oiled in the usual manner.

After the car has been run until the oil in the old box is exhausted, the axle becomes warm and dry and heats the wires. They convey the heat to the grease contained in the attachment, and it melts and follows the wires down to the axle, keeping it well greased and cool.

On reaching a station, if an attachment is found empty or nearly so it can be removed and another attachment ready filled put in its place.

Having thus fully described my invention,

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

The box A, provided with a series of wires or wire springs C C, the ends of which protrude through the bottom of the box for the purpose of conveying heat from the car-axle to the grease in the box, melt said grease, and lubricate the axle, substantially as herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in the presence of two witnesses,

Witnesses:

HENRY THURLOW.

CURTIS C. MARGAN,  
JOSIAS GARLOCK.