E. VON JEINSEN.

Axle Box.

No. 106,096. Patented Aug. 2, 1870.

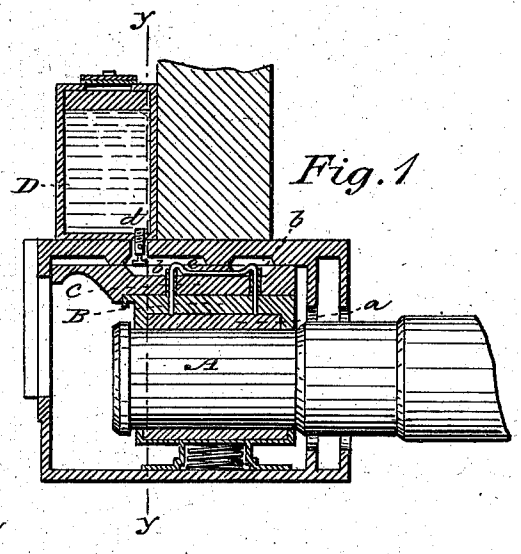

Fig. 1

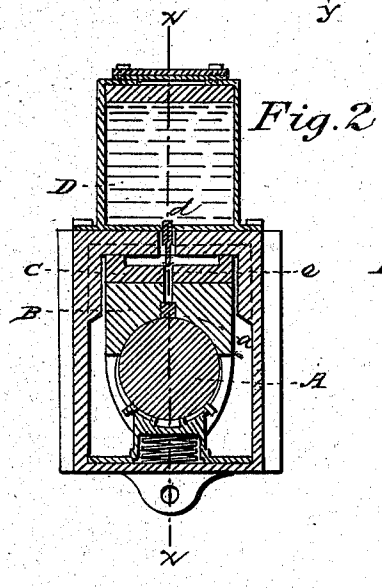

Fig. 2

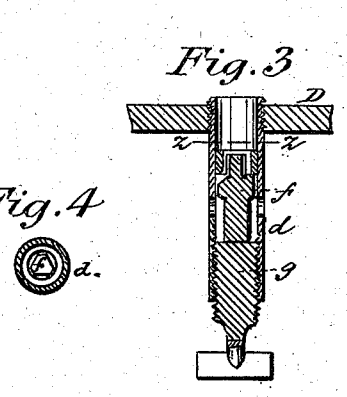

Fig. 3

Fig. 4

Witnesses:
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United States Patent Office.

ERNEST VON JEINSEN, OF OMAHA, NEBRASKA.

Letters Patent No. 106,096, *dated August* 2, 1870.

IMPROVED LUBRICATING JOURNAL OF RAILWAY AXLE-BOXES.

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, ERNEST VON JEINSEN, of Omaha, in the county of Douglas and in the State of Nebraska, have invented certain new and useful Improvement in Lubricating the Journals of Railroad Cars; and 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, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a "device for lubricating the journals of railroad cars," 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 through line *x x*, fig. 2;

Figure 2 is a transverse vertical section through line *y y*, fig. 1;

Figure 3 is a vertical section, in enlarged dimensions, of the valve under the bottom of the oil-cup; and

Figure 4 is a horizontal section through line *z z*, fig. 3.

A represents the journal of a railroad car, on the upper side of which is the brass bearing B, provided, on its under or bearing side, with a longitudinal groove with two holes leading up through the upper side.

In this groove are inserted strips, *a a*, of felt, or other suitable material, for conducting the oil to the journal, the oil being fed to the felt, hereinafter to be described.

Above the bearing B, in the journal-box, is inserted the wedge C, for keeping the bearing in position.

On the upper side of the wedge C are formed two recesses, with small pipes *b* in the center.

There is also a communicating hole or opening between the two recesses, through which is passed a wick, *e*, the body of the wick resting in the recesses, and its ends passed downward through the pipes *b b*, which are directly above the holes leading to the felt *a* in the bearing B.

On top of the journal-box is secured the oil-cup D, provided, in its bottom, with a small tube, *d*, which projects downward through a hole in the journal-box, and into one of the recesses on the wedge C. In the sides of this tube are two openings, with a valve, *f*, inside, above said openings, and set-screw *g* at the lower end.

Having thus fully described my invention,

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

1. The wedge C, provided with recesses, as described, and tubes *b b*, substantially as and for the purposes set forth.

2. The combination of the bearing B, felt strips *a a*, recessed wedge C, tubes *b b*, wick *e*, oil-cup D with tube *d*, and valve *f*, all constructed and arranged to operate substantially as and for the purposes herein set forth.

3. The combination of the recessed wedge C with tubes *b b* and wick *e*, and the bearing B with felt strips *a a*, all substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand this 19th day of April, 1870.

ERNEST VON JEINSEN.

Witnesses:

J. S. SPENCER,

JOHN MURCHIE CLARKE.