

J. DAWBER.

Self-Oiling Axle-Box.

No. 196,789.

Patented Nov. 6, 1877.

Fig. 1.

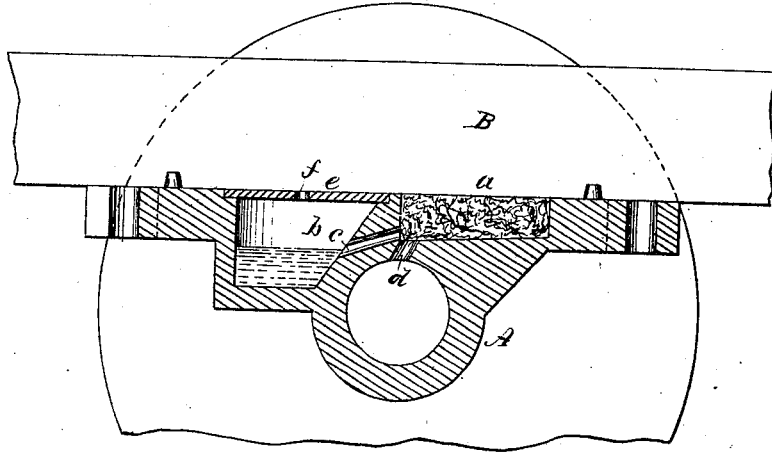


Fig. 2.

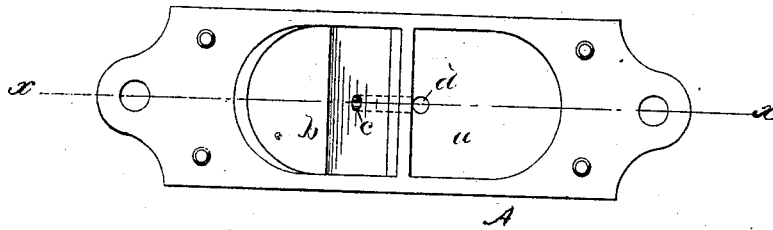
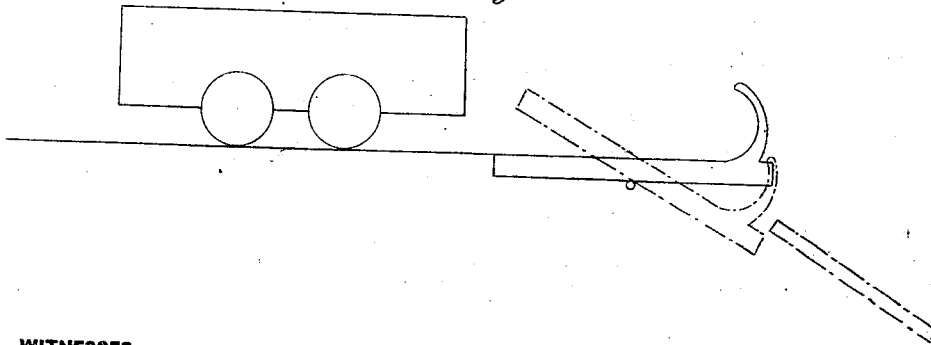


Fig. 3.



WITNESSES:

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JAMES DAWBER, OF BRAIDWOOD, ILLINOIS.

IMPROVEMENT IN SELF-OILING AXLE-BOXES.

Specification forming part of Letters Patent No. **196,789**, dated November 6, 1877; application filed May 21, 1877.

To all whom it may concern:

Be it known that I, JAMES DAWBER, of Braidwood, county of Will, and State of Illinois, have invented a new and useful Improvement in Self-Oiling Journal-Box, of which the following is a specification:

Figure 1 is a side elevation in section, on line *xx* in Fig. 2, of my improved journal-box. Fig. 2 is a plan view. Fig. 3 represents a car and the apparatus for dumping.

Similar letters of reference indicate corresponding parts.

My invention relates to the journal-boxes of coal-cars; and it consists in a peculiar arrangement of two chambers in the journal-box casting, one of which contains oil for lubricating the axle, and the other contains cotton waste. A passage connects the oil-chamber and the chamber containing the cotton waste, and a passage leads from the last-mentioned chamber to the journal-bearing. The whole is constructed so that when the car is dumped a quantity of oil flows from the oil-chamber to the cotton waste, from which it is supplied to the axle.

Referring to the drawing, A is the journal-box casting, which is attached to the truck-frame B in the usual way. In this casting the chambers *a b* are formed. The chamber *a* is wholly above the journal, at one side of the center of the casting, while the chamber *b* is

partly below the upper side of the journal, in the other side of the casting. A passage, *c*, connects the chambers *a b*, and a passage, *d*, leads from the chamber *a* to the bearing-surface of the box.

The chamber *a*, in the present case, is filled with cotton waste; but this may be dispensed with without materially affecting the operation of the box.

The chamber *b* is provided with a cover, *e*, in which there is an aperture, *f*; and a groove is cut in the truck-frame from this aperture beyond the end of the casting A, for filling the chamber *b* with oil.

The operation of the oil-box is obvious. When the truck is dumped the box is tipped sufficiently to cause a small quantity of the oil to run from the chamber *b* to the chamber *a*, from which it is gradually fed to the bearing of the axle.

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

The journal-box casting A, provided with the chambers *a b* and passages *c d*; substantially as herein shown and described. -

JAMES DAWBER.

Witnesses:

EDWIN WAKEFIELD,
N. GOLDFINGER.