

J. A. PICARD.
 CAR-AXLE BOX.

No. 188,071.

Patented March 6, 1877.

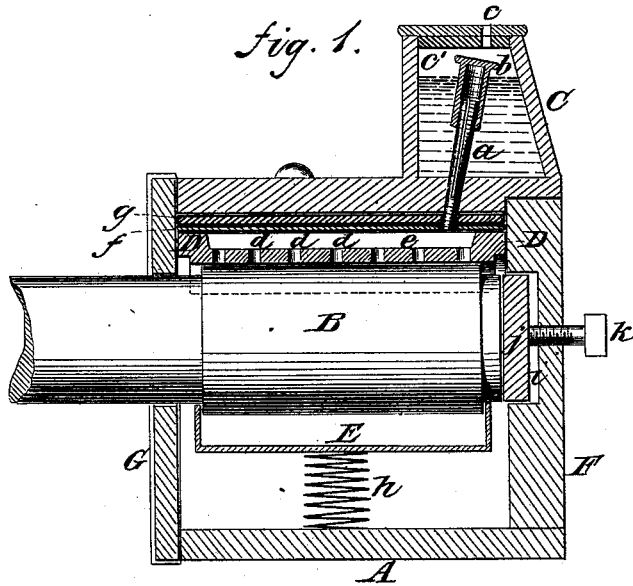
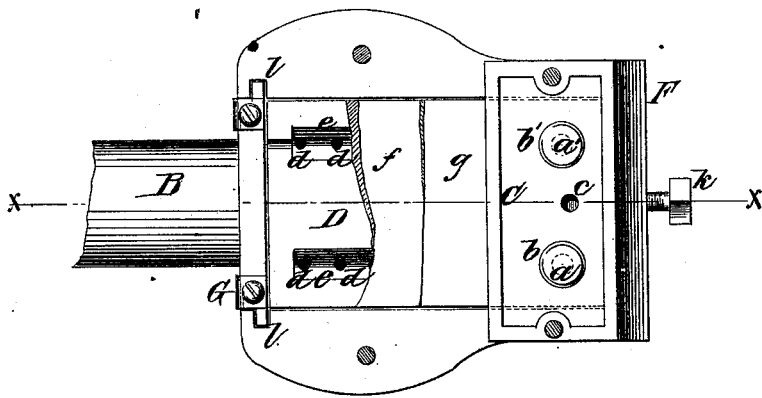


Fig. 2.



WITNESSES:
Gustave Rutenok
John Goethals.

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UNITED STATES PATENT OFFICE.

JOSEPH A. PICARD, OF NORTH PLATTE, NEBRASKA.

IMPROVEMENT IN CAR-AXLE BOXES.

Specification forming part of Letters Patent No. **188,071**, dated March 6, 1877; application filed July 15, 1876.

To all whom it may concern :

Be it known that I, JOSEPH A. PICARD, of North Platte, in the county of Lincoln and State of Nebraska, have invented a new and Improved Journal-Box for Car-Trucks, of which the following is a specification:

Figure 1 is a longitudinal section on line *x* in Fig. 2, and Fig. 2 is a top view, with a portion broken away to show the internal construction.

Similar letters of reference indicate corresponding parts.

My invention relates to that class of journal-boxes for car-trucks, known as self-oilers; and it consists in the arrangement, on the upper side of a journal-box, of a reservoir for containing oil, provided with split tubes, having screw-caps for controlling the flow of oil, the said tubes communicating with a series of holes in the back of the "brass" or bearing surface of the box through grooves cut in the brass for that purpose. It also consists in backing the said brass by a plate of iron and a heavy sheet of rubber.

Referring to the drawings, A is the casing surrounding the journal B, and provided with a reservoir, C, on its upper side, near the outer end of the box. Two oil-feeding tubes, *a a'*, are screwed into the bottom of the reservoir, so that they project through the casing A, and also extend upward in the reservoir C, and are provided with screw-caps *b b'*. These tubes are split from their upper ends to the bottom of the reservoir. *c* is a hole in the top of the reservoir for introducing oil. The brass D is placed between the journal and the top of the casing A, and is provided with a series of holes, *d*, connected by the grooves *e*. The said grooves are located in the back of the brass, so as to receive the oil which passes through the tubes *a*. *f* is a plate of iron, and *g* is a sheet of rubber placed between the brass D and the top of the casing A, and provided with holes through which the lower ends of the tubes *a* pass. E is an oil-receiving cup or box, which is pressed against the under side of the journal B by the spring *h*, and is of such length as to embrace the enlarged portion of the journal. The end F of the casing A is removable, and is pro-

vided with a recess, *i*, in which a check-plate, *j*, is placed. *k* is a set-screw engaging with a thread in the end F, and bearing against the plate *j*.

The end G is made in two parts, each of which is removable, being capable of sliding out of the groove *l l*. The cover of the reservoir C is provided with a rubber packing, to prevent the escape of oil.

I have described my improvement as applied to a journal, which is enlarged at the bearing-surface, but it may be applied to ordinary journals having an equal diameter throughout.

The operation and advantages of my improvement may be described as follows: Oil is poured in the reservoir C, which passes through the slit in the tube *a*, and into the groove *e*, the supply being controlled by the screw-caps *f*, which cover more or less of the slit through which the oil passes. The oil passes from the grooves *e* through the holes *d* to the journal, which, when in motion, takes a sufficient quantity of oil to keep it well lubricated. Any surplus of oil is received by the box E, and when it is full the journal dips in the oil.

When the journal does not revolve, no oil passes through the holes *d*, and consequently at that time there can be no waste of oil. When the journal revolves the surplus of oil is caught and retained by the box E. The rubber sheet *g* and plate *f* make a yielding seat for the brass D. The screw *k* takes up the end motion of the axle.

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

1. The combination of the reservoir C, split tubes *a*, cap *b*, brass D, having the grooves *e*, and holes *d*, the journal B, and case A, as specified.

2. The combination, with a journal-box brass, of a gasket to keep the oil from spreading over its top.

JOSEPH A. PICARD.

Witnesses:

ROBERT DOUGLASS,
WM. S. PENISTON.