E. MOYEL & J. HOWELL.

Railway Axle-Box Covers.

No. 139,179. Patented May 20, 1873.

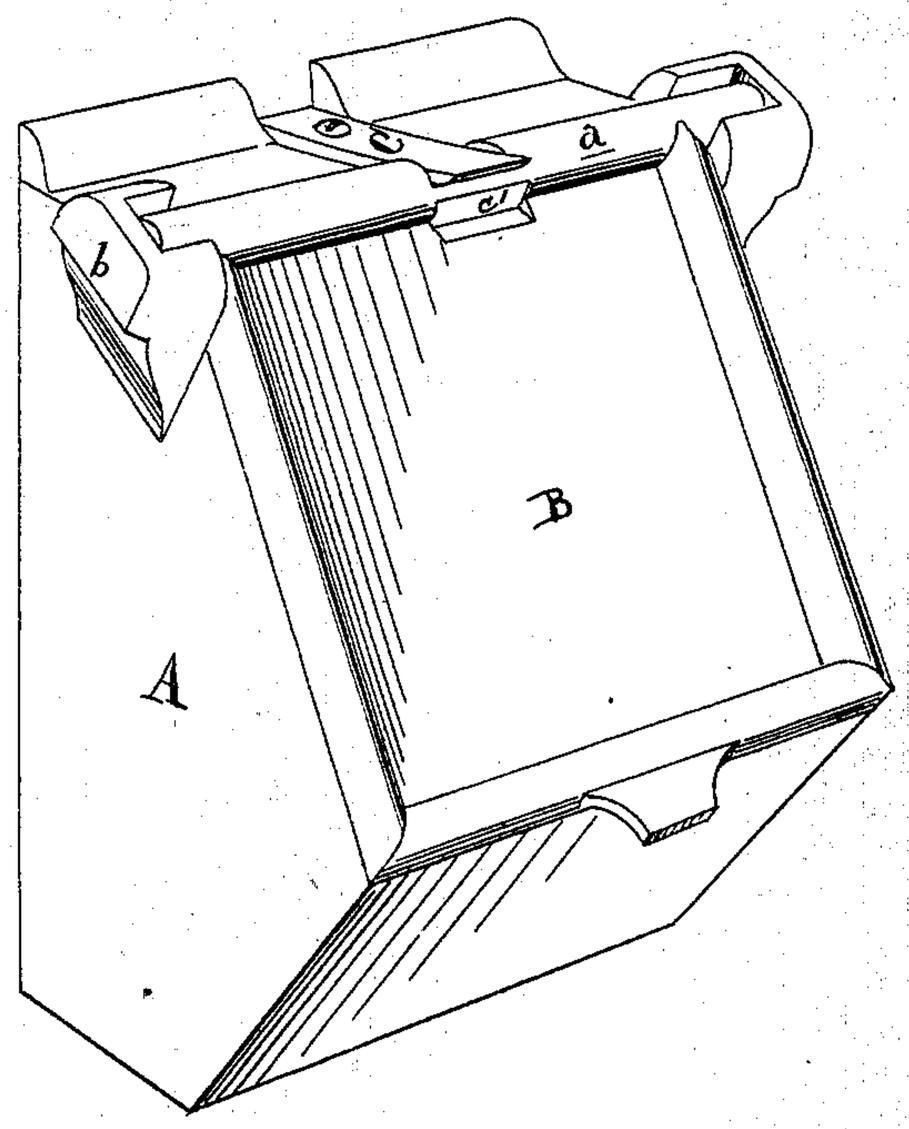

Fig. 1.

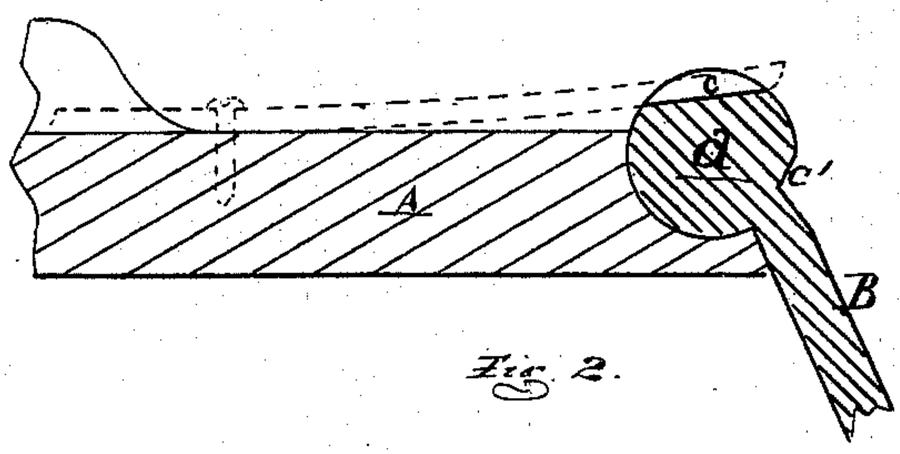

Fig. 2.

ATTEST:

H. G. Eberts.

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INVENTORS

Edward Moyel

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per attorney

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UNITED STATES PATENT OFFICE.

EDWARD MOYEL AND JAMES HOWELL, OF WYANDOTTE, KANSAS.

IMPROVEMENT IN RAILWAY AXLE-BOX COVERS.

Specification forming part of Letters Patent No. **139,179**, dated May 20, 1873; application filed July 22, 1872.

To all whom it may concern:

Be it known that we, EDWARD MOYEL and JAMES HOWELL, of Wyandotte, in the county of Wyandotte and State of Kansas, have invented a new and useful Improvement in Railway Axle-Box Covers; and we do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a perspective view of our improved axle-box and cover; and Fig. 2 is a cross-section of the upper part of the same.

Like letters refer to like parts in each figure.

The nature of this invention relates to an improvement in that class of railway axle-boxes which have hinged drop-covers, and has for its object to more perfectly secure the cover in its closed position to the exclusion of dust, and also to secure the cover in its raised position for oiling and re-packing the box. The invention consists in a single-leaf spring secured by a bolt at one end across the top of the box, its free end impinging upon the shaft or top-edge of the cover, which is flattened in two places so that the spring, in exerting its pressure upon either of said places, will resist any tendency of the cover to rotate on its axis, as more fully hereinafter set forth.

In the drawing, A represents a railway axle-box, and B the cover hinged thereto by its shaft *a* at the top-edge, received in brackets *b* cast on the sides of the box. C is a single-leaf spring secured at its rear end at the center of the back edge of the top side of the box, its free end extending across the box and impinging upon the shaft *a* of the cover. The spring, when the cover is closed down, rests upon a flattened place, *c*, in the shaft, the pressure of the spring resisting any attempt to raise the cover, except under the application of considerable force, whereupon the cover may be raised until the end of the spring arrests its further rotation, at the same time dropping into another flattened place *c'*, and holding up the cover, allowing the yardmen or train-hands free access to the interior for repacking and oiling the journal. When closed, the spring prevents the cover from lifting under the jarring and vibration of the car in motion, and thus prevents the entrance of dust to the interior of the box.

The construction of the cover and hinges are such that a new cover is put in in place of one lost or broken in a few seconds.

What we claim as our invention, and desire to secure by Letters Patent, is—

The axle-box A having the open sockets, in combination with the cover B having the shaft *a* and flattened places *c c'* and spring C, the spring being removably attached to the axle-box, as described.

EDWARD MOYEL.
JAMES HOWELL.

Witnesses:
S. A. COBB,
M. B. NEUMAN.