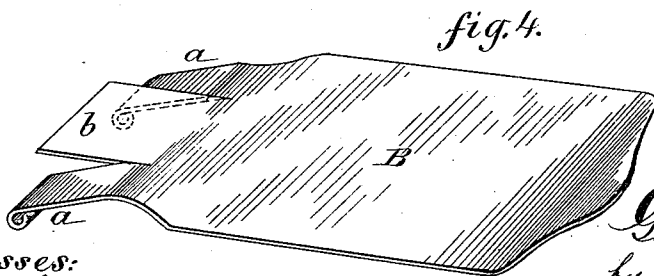
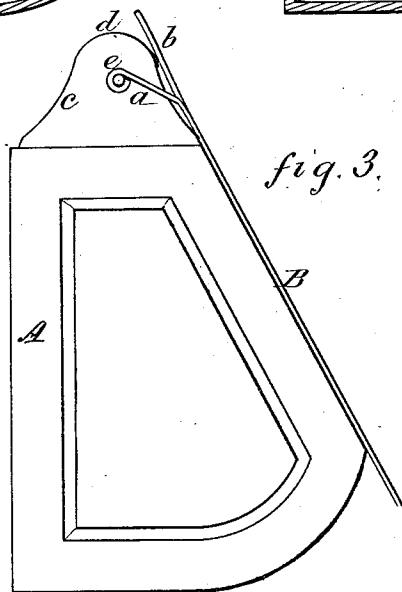
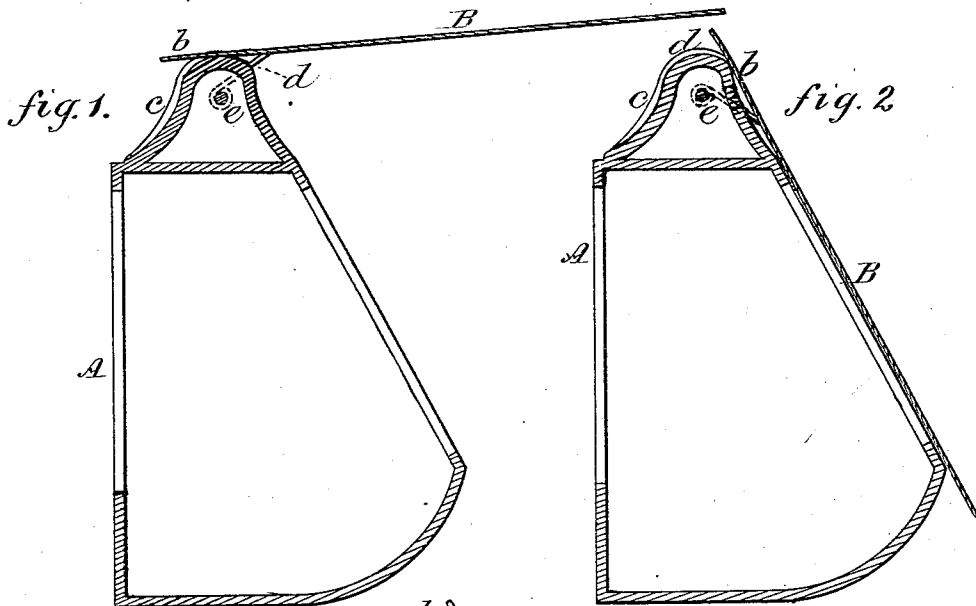


G. W. MORRIS.  
 CAR-AXLE BOX-LID.

No. 192,524.

Patented June 26, 1877.



Witnesses:

*Wm. Thayer*  
*Floyd Morice*

*Geo. W. Morris*  
 by his Attys  
*Johnson & Johnson*

# UNITED STATES PATENT OFFICE.

GEORGE W. MORRIS, OF PITTSBURG, PENNSYLVANIA.

## IMPROVEMENT IN CAR-AXLE-BOX LIDS.

Specification forming part of Letters Patent No. **192,524**, dated June 26, 1877; application filed May 26, 1877.

*To all whom it may concern:*

Be it known that I, GEORGE W. MORRIS, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Lids for Railroad-Car Journal-Boxes, of which the following is a specification:

The lid for the journal-box, which is used to cover the opening which permits access to the axle for oiling and other purposes, is made of thin steel and in one piece with its clamping-spring. The hinge-extensions, which connect it with the hinge or pivot bar in a standard or in lug projections at the top of the journal-box, are also made in one and the same piece with said lid or cover. The spring portion bears upon a surface suitably formed in said top standard.

In the accompanying drawings, Figure 1 represents a vertical section, showing the lid raised; Fig. 2, a similar section with the cover or lid closed; Fig. 3, a side elevation; and Fig. 4, a detached view of the thin steel lid, showing its spring and hinge extensions in one and the same piece therewith.

The journal-box A is of the ordinary or any preferred make, having a front opening for access to the axle, for oiling and other purposes. My improvement consists in the means for covering this opening by a lid, which can be readily raised and lowered without injury to the parts during the hasty operation of inspection and oiling, which lid has also the advantage of extreme lightness. This lid B is of a thin sheet of steel, having its hinges *a a* and spring *b* integral therewith, thus avoiding expense in construction, and the liability

of loosening any connections of such parts, which otherwise would be necessary. At the top of the journal-box are two lugs, *c c*, which carry the bearing-surface *d* for the spring and the pivot or hinge bar *e*, to which latter the hinge-extensions *a a* are suitably secured, and which serves the function of a pintle. A standard or any equivalent device would answer.

The bearing of the spring *b* upon the round or other formed bearing-surface *d* keeps the lid at any desired elevation, and clamps it down when closed. If desired, the hinge-extensions may be separately attached.

I claim—

1. The lid or cover of a journal-box for railroad-cars, made of a thin sheet of steel, and having the clamping-spring integral therewith, substantially as described.

2. The lid or cover of a journal-box for railroad-cars, made of a thin sheet of steel, and having its clamping-spring and hinge-extension pieces integral therewith, substantially as described.

3. The combination, in a journal-box for railroad-cars, of a lid or cover, B, having its clamping-spring *b* and hinge-extensions *a a* integral therewith, with a pivot-pintle, *e*, lugs *c c*, and bearing-surface *d* for said spring, substantially as described.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

GEO. W. MORRIS.

Witnesses:

F. G. BENOIT,

FRED. W. REBHANN.