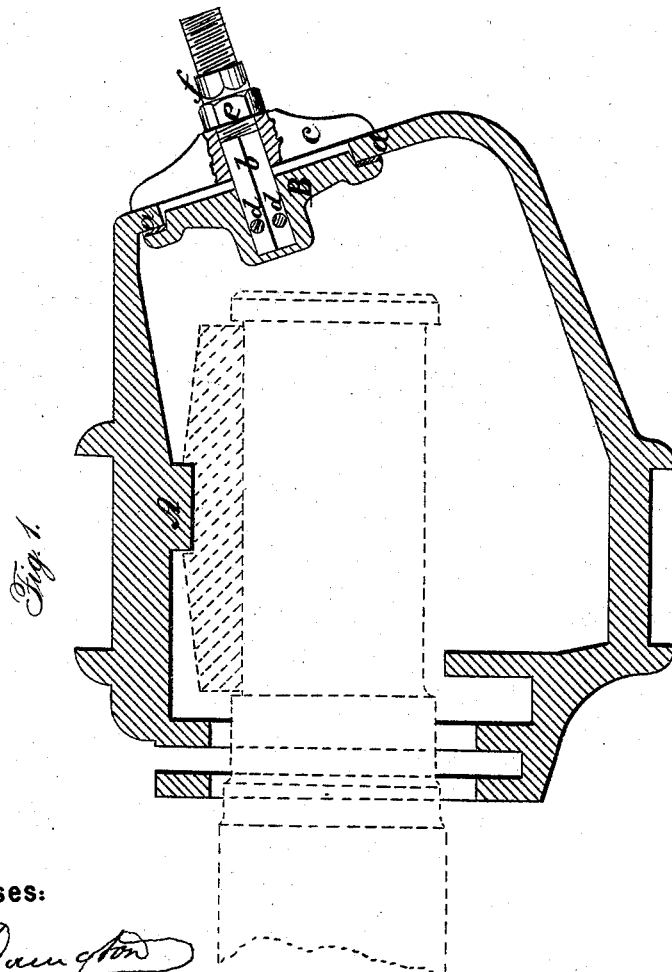
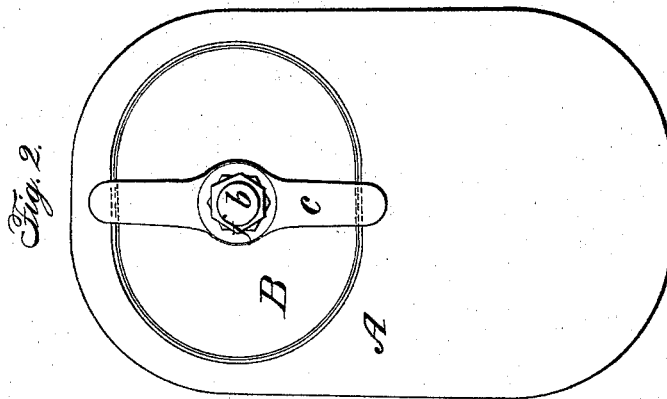


W. S. AUCHINCLOSS.

Car-Axle Box.

No. 54,666.

Patented May 15, 1866.



Witnesses:

J. W. B. Carrington
James A. Service

Inventor:

W. S. Auchincloss.

UNITED STATES PATENT OFFICE.

WILLIAM S. AUCHINCLOSS, OF NEW YORK, N. Y.

IMPROVED AXLE-BOX COVER.

Specification forming part of Letters Patent No. 54,666, dated May 15, 1866.

To all whom it may concern:

Be it known that I, WILLIAM S. AUCHINCLOSS, of the city, county, and State of New York, have invented a new and Improved Axle-Box Cover; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a longitudinal vertical section of this invention. Fig. 2 is a face view of the same.

Similar letters of reference indicate like parts.

This invention consists in making the cover of an axle-box to close against a seat on the inside of the box, in contradistinction to the present method of closing such covers on a seat on the outside of the box, in such a manner that when the fastening of said cover works loose the cover will drop into the box, whence it can be readily recovered, whereas, with the present mode of fastening, if the fastening works loose the cover drops off and is lost.

A represents an axle-box of the ordinary or any suitable construction of that class generally used on the running stock of railroads.

B is the cover, which in the drawings is represented in the end of the box, but which may also be situated in its ends or top. This cover closes up against a seat, *a*, on the inside of the box, as clearly shown in Fig. 1 of the drawings. It is held in place by a screw-

bolt, *b*, and bridge *c*, similar to the ordinary fastening of the man-hole plates of a boiler; but there is this difference in my fastening: I make that portion of the bolt *b* which fits into the bridge *c* square or polygonal, so that by taking hold of said bridge the cover, after the nuts have been unscrewed, may be readily turned and removed from the box, and in the same manner the cover can be readily adjusted in its place by means of said bridge.

The bolt *b*, I propose to cast into the cover B, and in order to give to the same a firm hold I provide it with holes *d*, as shown in Fig. 1, through which the cast-iron of the cover will run while the cover is being cast. A nut, *e*, and jam-nut *f* serve to hold the cover in its place.

By applying to an axle-box from the inside all danger of losing the same is avoided, for if the fastening of the cover should accidentally work loose the cover will drop into the box, whence it can be readily recovered.

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

The arrangement of the square or polygonal sided bolt *b*, attached to the cover B, and capable of manipulation by means of the bridge C, substantially in the manner described and represented.

WM. S. AUCHINCLOSS.

Witnesses:

WM. DEAN OVERELL,
W. HAUFF.