(No Model.)

N. H. DAVIS.

AXLE BOX LID.

No. 588,960. Patented Aug. 31, 1897.

Fig. 1.

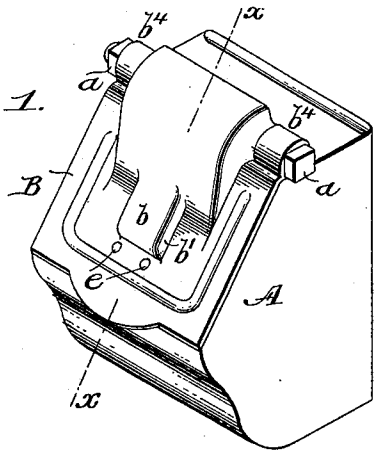


Fig. 2.

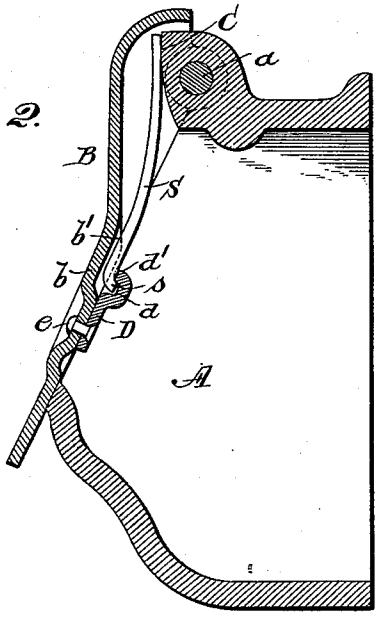


Fig. 3.

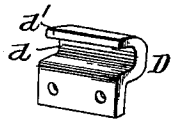
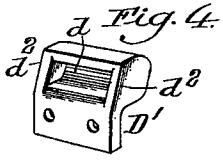


Fig. 4.



Witnesses.

Henry Dewey

D. Stewart

Inventor.

Nathan H. Davis

by Francis T. Chambers

his Attorney.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

NATHAN H. DAVIS, OF PHILADELPHIA, PENNSYLVANIA.

AXLE-BOX LID.

SPECIFICATION forming part of Letters Patent No. 588,960, dated August 31, 1897.

Application filed December 29, 1893. Serial No. 495,073. (No model.)

To all whom it may concern:

Be it known that I, NATHAN H. DAVIS, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia, in the State of Pennsylvania, have invented a certain new and useful Improvement in Axle-Box Lids, of which the following is a true and exact description, reference being had to the accompanying drawings, which form a part thereof.

My invention relates to axle-box lids, and has for its object to provide a new and useful device for anchoring the spring to the lid.

My invention will be best understood as explained in connection with the accompanying drawings, in which—

Figure 1 is a perspective view of an axle-box having an outwardly-opening lid. Fig. 2 is a section on the line *x x* of Fig. 1, showing the spring for holding the lid to the face of the box and the socket for securing the spring to the lid. Fig. 3 is a perspective view of my improved socket, and Fig. 4 is a perspective view of a modified socket-piece.

A is an axle-box, the box A, as shown in Fig. 1, being provided with a lid B, which opens outwardly and which, as shown, is pivoted to the box by a bolt *a*, which engages with the pivot-eyes b^4 on the lid and with a cam-shoulder C on the box.

D is a socket having a recess *d*, in which the end of the spring is adapted to engage, and this socket is secured to the inner face of the lid by a flat heel extension, as shown, and by rivets *e*, passing through the same.

In order to prevent longitudinal movement of the spring after it is in position, which would result in its disengaging itself from its socket, I form the spring S with a turned-over end *s* and form the recess *d* by bending up the end *d'* of the socket, as shown in Fig. 3, so that when the spring is in place, as shown in Fig. 2, the end of the spring will engage with the recess *d*, and the end *d'* will prevent longitudinal movement of said spring.

To prevent lateral movement, a recess or depression *b* is pressed or otherwise formed in the lid, the sides *b'* of which serve as shoulders, which abut against the sides of the spring when it is in position. Abutting-shoulders may be formed also on the socket D', as indicated at d^2, Fig. 4.

In the construction described it will be noted that the spring is entirely within the box, and there are no holes or openings in the lid for the entrance of dirt and dust, and a new spring can readily and easily be substituted for an old or broken one.

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

The combination with an axle-box lid having an inner recess *b* of a spring-socket D having a flat heel extension secured to the body of the lid below recess *b* and a hook-like recess extending from said heel extension over said recess toward the pivot of the lid.

NATHAN H. DAVIS.

Witnesses:
ALF. H. FABER,
EDW. F. AYRES.