

(No Model.)

2 Sheets—Sheet 1.

J. N. CHILSON.

CAR AXLE BOX LID.

No. 306,583.

Patented Oct. 14, 1884.

FIG-1-

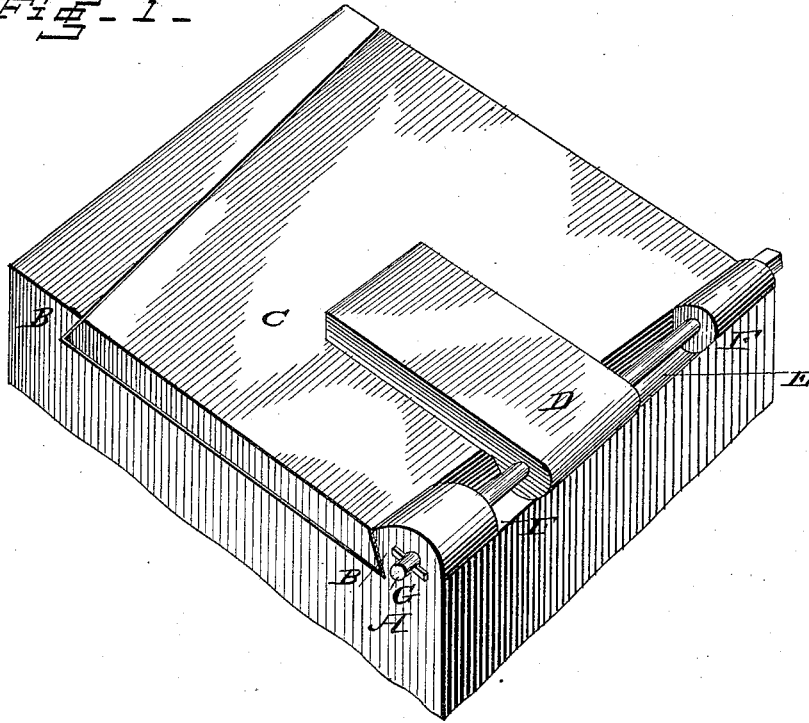
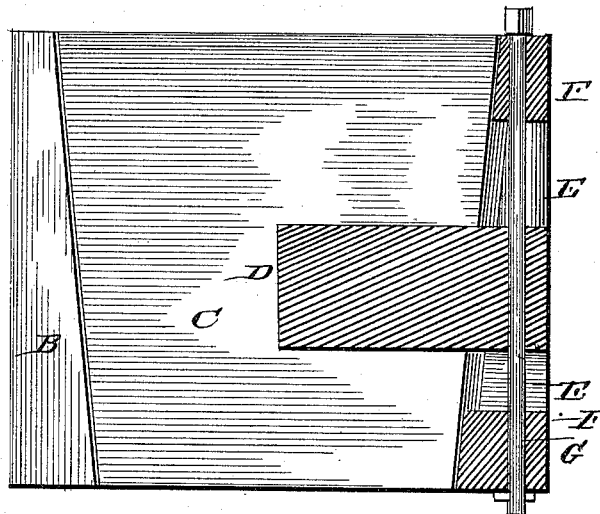


FIG-2-



WITNESSES:

Wm. S. Dieterich,
Wm. Bagger

INVENTOR.

Joseph N. Chilson
by Lewis Bagger & Co.
ATTORNEYS.

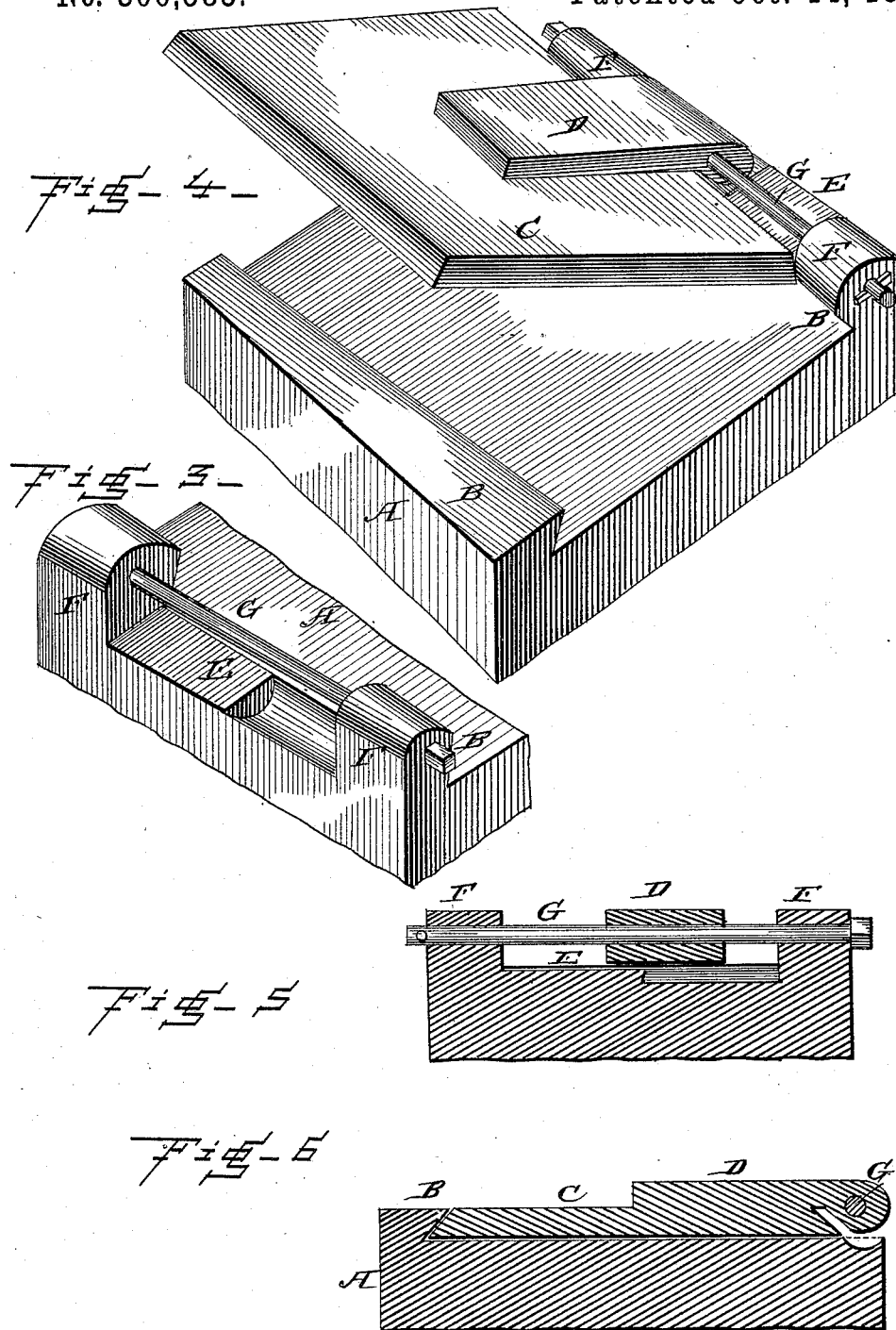
(No Model.)

2 Sheets—Sheet 2.

J. N. CHILSON.
CAR AXLE BOX LID.

No. 306,583.

Patented Oct. 14, 1884.



WITNESSES:

Wm. S. Dieterich
Wm. Bagger

INVENTOR.

Joseph N. Chilson
by: Louis Bagger & Co.
ATTORNEYS.

UNITED STATES PATENT OFFICE.

JOSEPH N. CHILSON, OF STREATOR, ILLINOIS.

CAR-AXLE-BOX LID.

SPECIFICATION forming part of Letters Patent No. 306,583, dated October 14, 1884.

Application filed June 16, 1884. (No model.)

To all whom it may concern:

Be it known that I, J. N. CHILSON, a citizen of the United States, and a resident of Streator, in the county of La Salle and State of Illinois, have invented certain new and useful Improvements in Journal-Box Lids; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a perspective view of my improved journal-box lid. Fig. 2 is a horizontal sectional view of the same. Fig. 3 is a detail view, showing in perspective the hinge end of the same. Fig. 4 is a perspective view, showing the lid or cover partly raised; and Fig. 5 is a sectional view taken through the hinged end of the cover; and Fig. 6 is a transverse vertical sectional view of the cover, taken through the hinge of the same.

The same letters refer to the same parts in all the figures.

This invention relates to lids or covers for journal-boxes or car-axle boxes; and it has for its object to provide one of that class of covers which are known as "key" or "wedge" covers with a suitable hinge, whereby a double fastening, and consequently additional security, shall be provided.

To this end the invention consists especially in the improved construction of what may be termed a "slide-hinge," as will be hereinafter fully described, and particularly pointed out in the claim.

In the drawings, A designates the upper portion of a car-axle box of ordinary construction, the upper edges of which are provided at the front and rear sides of the said box with dovetailed flanges B B, which, on opposite sides, are made to extend in opposite directions, or to converge, as clearly shown in the several figures of the drawings, thus forming practically a wedge-shaped opening, adapted to receive the cover C, which, as will be seen, is of corresponding construction—that is, of a wedge-shape in horizontal plane—and provided with beveled or dovetailed edges adapted to fit the flanges B B of the

axle-box. The cover C is provided at its inner edge with a hinge-lug, D, which may be either cast or formed in one piece with the said cover, or it may be bolted, riveted, or otherwise suitably attached thereto. The inner flange, B, of the axle-box is provided with a recess or groove, E, of suitable length, and the ends F F of the said groove are provided with bearings for the hinge-rod G, upon which the lug D is mounted or hinged, so as to permit the cover C to slide laterally upon the rod G, and also to swing vertically upon the latter.

The operation of this invention will be readily understood from the foregoing description, taken in connection with the drawings hereto annexed.

The operation of the ordinary so-called key or wedge covers is well known; but a great objection to their successful operation is this, that they are liable to become wedged too fast or hard in their position, thus rendering their removal or opening difficult when it shall be desired to supply lubricating material to the axle-boxes. On the other hand, when they are not wedged hard enough into place, they are liable to slip and drop out, and thus be lost in transit. These objections are overcome by my invention, which combines the advantages of a hinged cover with those of a wedged cover, the hinge enabling the cover to be thrown open to the desired position for the purpose of supplying lubricating material, while the wedge forms a secure lock and serves to retain the cover securely in position under all circumstances.

I desire it to be distinctly understood that I do not confine myself to the precise construction and arrangement of parts herein shown and described. Thus, for instance, the position of the cover with relation to the axle-box might be reversed and the cover be hinged at either one of the sides or at the front edge of the axle-box. Again, the construction of the hinge might be altered or modified without departing from the spirit of my invention.

Having thus described my invention, I claim and desire to secure by Letters Patent of the United States—

The combination, with a car-axle box provided with converging dovetailed flanges at

two of its opposite edges, one of said flanges
being provided with a recess, the ends of
which form bearings for a suitable hinge-rod,
of a cover having converging beveled sides,
5 and provided with a lug hinged and sliding
upon the said rod, substantially as set forth.
In testimony that I claim the foregoing as

my own I have hereunto affixed my signature
in presence of two witnesses.

JOSEPH N. CHILSON.

Witnesses:

ALBERT H. CROCKER,
ROBERT M. FRANKS.