

(No Model.)

2 Sheets—Sheet 2.

J. J. BUSENBENZ & A. WOLTMANN.
GUARD ATTACHMENT FOR CAR AXLE BOX LIDS.

No. 507,105.

Patented Oct. 24, 1893.

Fig. 3.

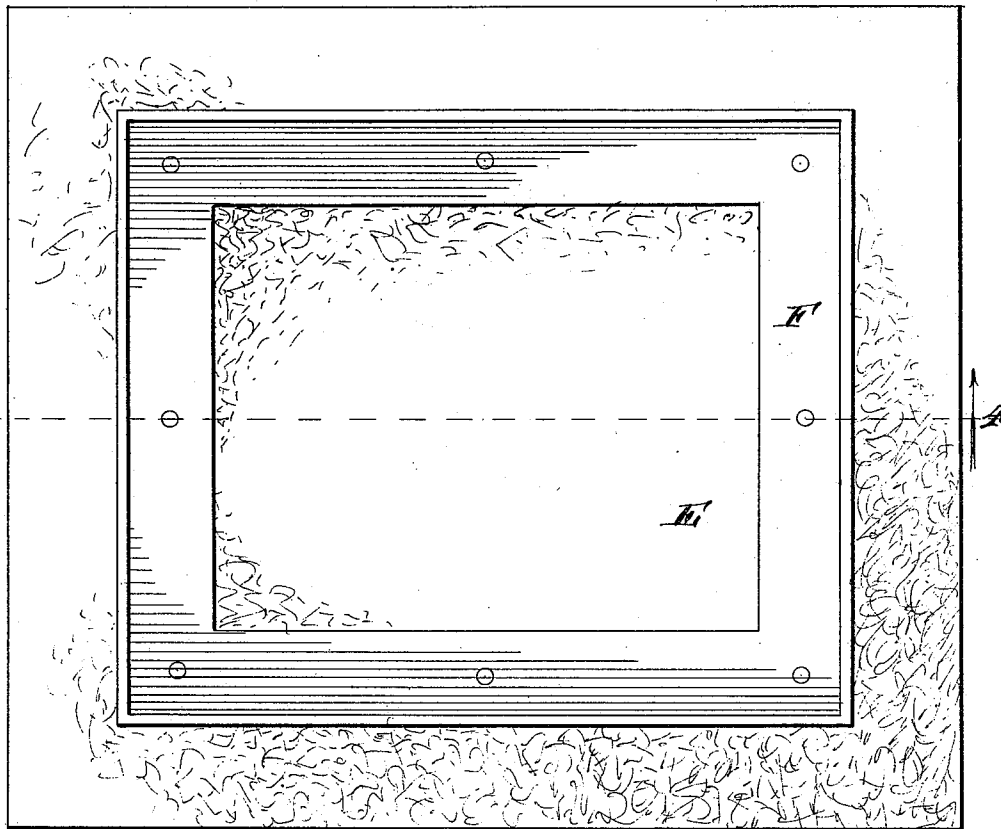
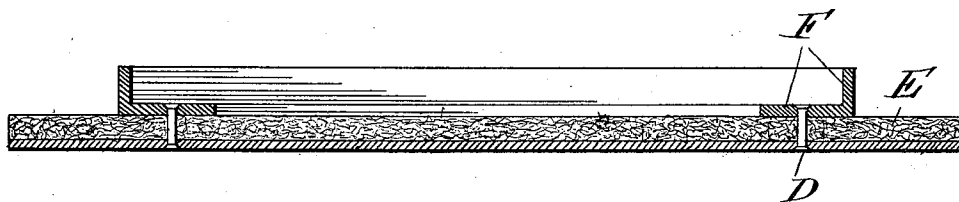


Fig. 4.



Witnesses:
Carl Gaylord,
Clifford White.

Inventors
Jacob J. Busenbenz,
and August Wolmann
By *August Wolmann*
Attys.

UNITED STATES PATENT OFFICE.

JACOB J. BUSENBENZ AND AUGUST WOLTMANN, OF ROCK ISLAND, ILLINOIS.

GUARD ATTACHMENT FOR CAR-AXLE-BOX LIDS.

SPECIFICATION forming part of Letters Patent No. 507,105, dated October 24, 1893.

Application filed December 8, 1892. Serial No. 454,531. (No model.)

To all whom it may concern:

Be it known that we, JACOB J. BUSENBENZ and AUGUST WOLTMANN, citizens of the United States, and residents of Rock Island, in the county of Rock Island and State of Illinois, have made certain new and useful Improvements in Guard Attachments for Car-Axle-Box Lids; and we hereby declare the following to be a full, clear, and exact description thereof.

Our invention relates to dust guards for journal boxes, and is more particularly directed to the improvement of dust guards for journal boxes of the kind which employ a sliding lid. It is a common practice to provide at the forward end of journal boxes a lid which tapers from the upper to the lower edge, and slides and fits in ways formed in lateral enlargements on each side of the journal box opening. It is found in practice practically impossible to produce a tight joint between the surface of the lid and the metal of the journal box about the opening, so that dust readily enters to the injury of the journal.

It is the object of our invention to provide a dust guard suitable to the requirements of a lid involving this construction, and it consists in a plate having a dimension to fit about the opening in the journal box, said plate having a facing of felt or similar material, and having a frame preferably rectangular, and of an external dimension to fit within the opening to serve to hold the dust guard in place while the lid is being slid in and out of position. It is quite apparent that, although not essential the dust guard shall not move with the lid. It is yet desirable that such movement shall be prevented, as otherwise the felt facing will soon be worn away.

In the drawings—Figure 1 is a vertical central section of a journal box employing our improved dust guard. Fig. 2 is a plan sectional view of the same, taken on the line 2 of Fig. 1. Fig. 3 is a view in rear elevation of the dust guard; and Fig. 4 a vertical central section thereof taken on the line 4 of Fig. 3.

A represents the journal box provided at its forward end with the usual opening. On each side of the opening the metal of the jour-

nal box is enlarged in the form of elongating lugs B, provided on their inner faces with grooves *b'*. The grooves are so formed in the lugs with relation to the opening in the journal box as to present a greater distance from each other at the upper edge than at the lower, the distance being made gradually to taper. In the grooves *t* slides a lid C, which is also preferably slightly wedge-shaped so as to be held firmly in the grooves *t* when forced downward to its lowest position.

The dust guard comprises a plate of metal, wood or other suitable material D, having a facing E of felt or other suitable material. The dimension of the dustguard D E is such as to cause it to lap over the edges of the opening in the journal box and rest upon the faces *s* formed around the said opening. Upon the dust guard facing E there is placed a rectangular frame F, of angle iron, which is firmly riveted to the dust guard as indicated in Fig. 3. The external dimension of the frame F is such as to enable it to fit within the journal box opening, and in this position it constitutes a shoulder to prevent, by engagement with the walls of the opening movement of the dust guard when the lid C is raised and lowered.

It will be quite obvious that the specific form of frame F shown in the drawings is not essential to the function desired, but that it may find a ready substitute in a rib extending inward from the dust guard and presenting shoulders to engage the wall of the opening; or that the upper and lower strips of said frame may alone be used, or that it may be in another form than that of an angle iron frame.

It is quite apparent that the dust guard being in place beneath the lid C access of dust to the journal is substantially prevented. The tightening of the dust guard in place may be accomplished in the manner of introducing the lid, to wit, by causing the lid to present a gradually increased thickness from the lower to the upper end.

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

1. A dust guard for journal boxes comprising a sheet metal strip D having a facing E

of felt, and having upon its inner face projected shoulders to prevent the sliding of the dust guard upon its seat, substantially as described.

- 5 2. A dust guard for journal boxes comprising the plate D having a facing E of felt or similar material, and provided with the frame F forming a shoulder to prevent the displace-

ment of the dust guard upon its seat, substantially as described.

JACOB J. BUSENBENZ.
AUGUST WOLTMANN.

In presence of—

HARRY H. CLEVELAND,
W. H. HAYES.