(No Model.)

2 Sheets—Sheet 1.

F. TAYLOR.

DUST GUARD FOR CAR AXLE BOXES.

No. 358,506. Patented Mar. 1, 1887.

Fig. 1.

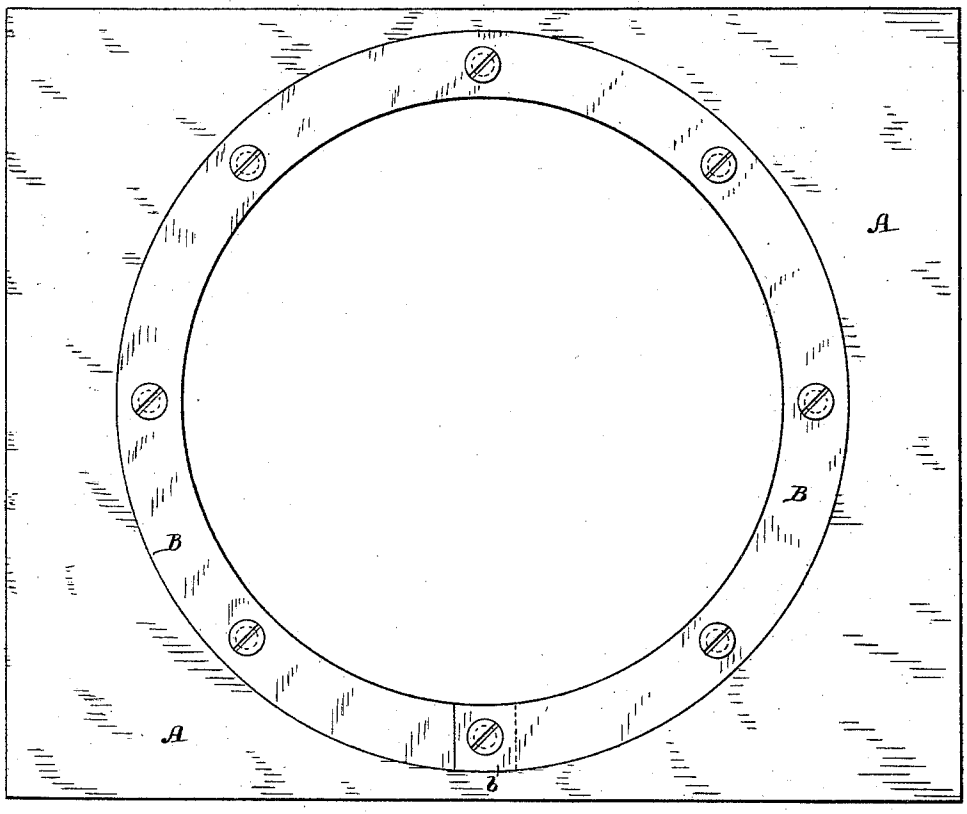
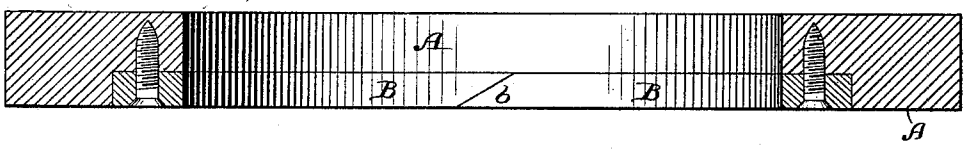


Fig. 2.



WITNESSES

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C. M. Newman.

INVENTOR

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(No Model.) 2 Sheets—Sheet 2.

F. TAYLOR.

DUST GUARD FOR CAR AXLE BOXES.

No. 358,506. Patented Mar. 1, 1887.

Fig. 3.

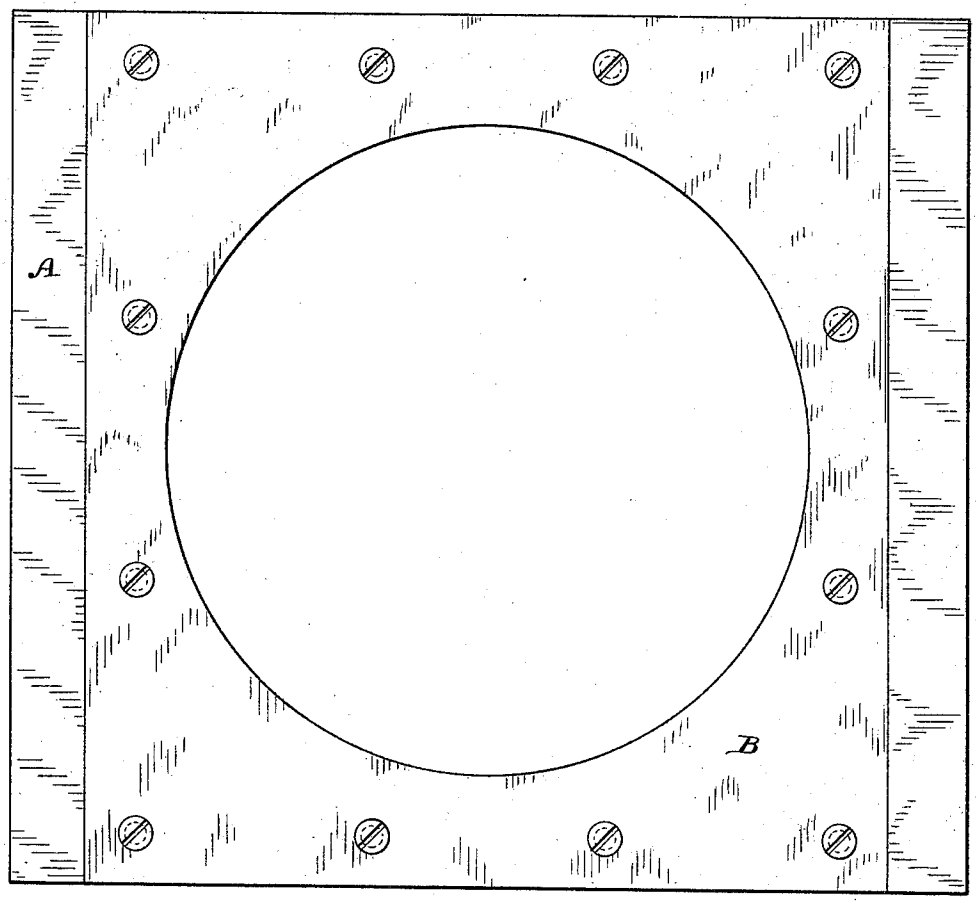
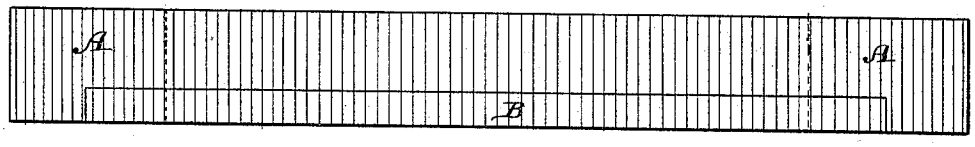


Fig. 4.



WITNESSES

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INVENTOR

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UNITED STATES PATENT OFFICE.

FRANKLIN TAYLOR, OF WILMINGTON, DELAWARE.

DUST-GUARD FOR CAR-AXLE BOXES.

SPECIFICATION forming part of Letters Patent No. 358,506, dated March 1, 1887.

Application filed December 14, 1886. Serial No. 221,502. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN TAYLOR, of Wilmington, in the county of New Castle and State of Delaware, have invented certain new and useful Improvements in Dust-Guards for Car-Axle Boxes, of which the following is a specification.

The object of my invention is to construct a very cheap light dust-guard of considerable strength, which will form a good close easy-running joint. In order to accomplish this purpose I make the dust-guard of an apertured piece of vulcanized fiber or like material countersunk into the face of a carrying-board.

I am aware that broadly the use of vulcanized fiber for a dust-guard is old. I am also aware that it is old to fasten an apertured sheet of leather upon an apertured board, and I do not therefore claim any such subject-matter.

My peculiarities and novelties of structure are specifically set forth in the claims.

In the accompanying drawings, Figure 1 is a front view; Fig. 2, a horizontal central section of one form of my invention; Fig. 3, a front view, and Fig. 4 a top edge view, of another form of the invention.

A represents a circularly-apertured board having an annular countersink or recess in one face around the opening. Within this recess may be secured a ring of vulcanized fiber, B, which may be screwed, nailed, or cemented to the board. The vulcanized-fiber ring may be cut from a solid piece of fiber, or may be formed from a strip either cut straight or spirally, and at the side of the dust-guard have its ends united by a lap-joint, *b*, as clearly seen in Fig. 2. By forming the ring of fiber from a strip, as just mentioned, great economy results, for the strips may be cut either straight or spirally from waste pieces of vulcanized fiber resulting from the manufacture of other articles. When the ring is secured in position, it forms a strong brace, which tends to prevent the board from splitting.

Instead of making the dust-guard in this form it may be constructed as shown in Figs. 3 and 4—that is, the board A may be formed with a rectangular countersink running from edge to edge of the board, and a rectangular piece of vulcanized fiber apertured to correspond with the aperture in the board secured in any suitable way in the countersink, so as to be flush with the board on the face and upper and lower edges. This form, as will be obvious, also gives strength to the board and prevents splitting, and is also more economical than the use of a strip of fiber the full size of the board.

Obviously, dust-guards thus constructed are exceedingly cheap, very light, strong, and durable.

I am aware of the patent of Sweeny, No. 308,579, of November 25, 1884, which shows a board with metal rings secured in each face, the rings being formed with lateral flanges, which meet within the aperture of the board and form a continuous metal bearing, against which the axle runs. I do not claim any such organization; but, on the contrary, distinctly disclaim the use of metal in contact with the axle, my claims being limited to the use of vulcanized fiber.

I claim as my invention—

1. A dust-guard for railroad-axle boxes, consisting of the combination of an apertured board having a countersink or recess formed around the aperture on one face of the board and a correspondingly-apertured piece of vulcanized fiber secured in the countersink, substantially as set forth.

2. A dust-guard for railroad-axle boxes, consisting of the combination of an apertured board having an annular countersink formed around the aperture and a ring of vulcanized fiber secured in the countersink, said ring being formed of a strip of fiber having its ends united by a lap-joint, substantially as set forth.

In testimony whereof I have hereunto subscribed my name.

FRANKLIN TAYLOR.

Witnesses:
HENRY M. TAYLOR,
WILLIAM P. WEBB.