

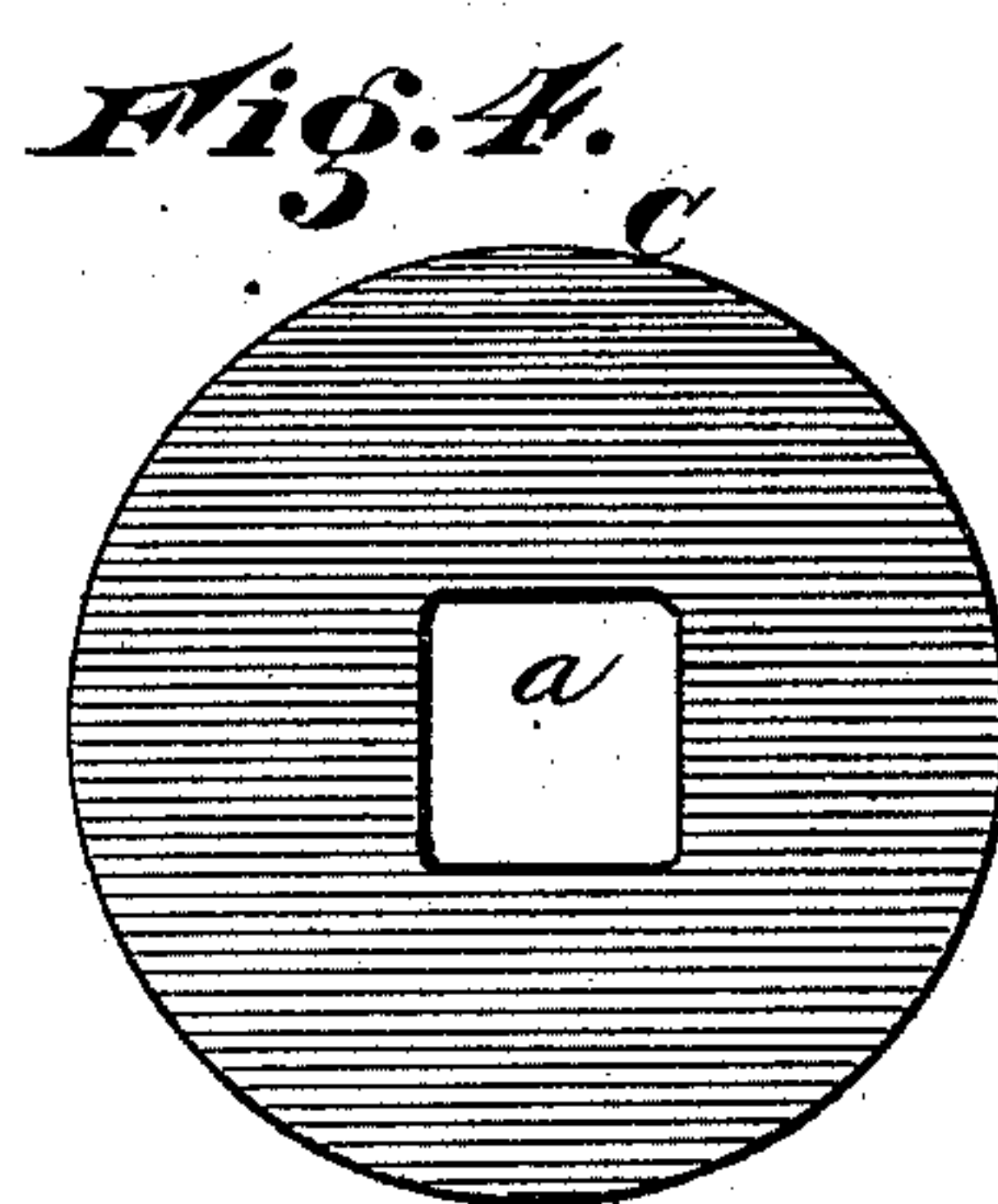
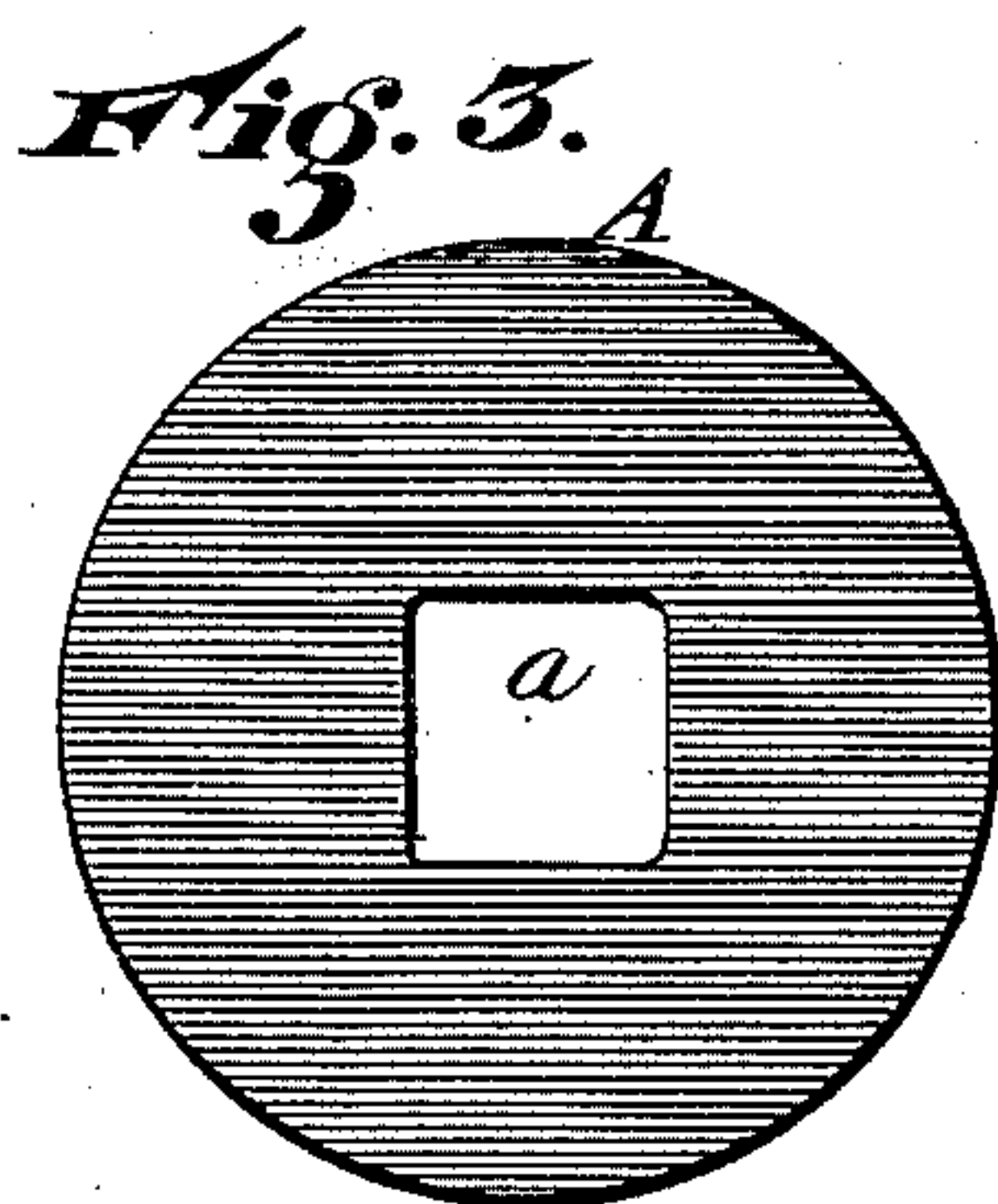
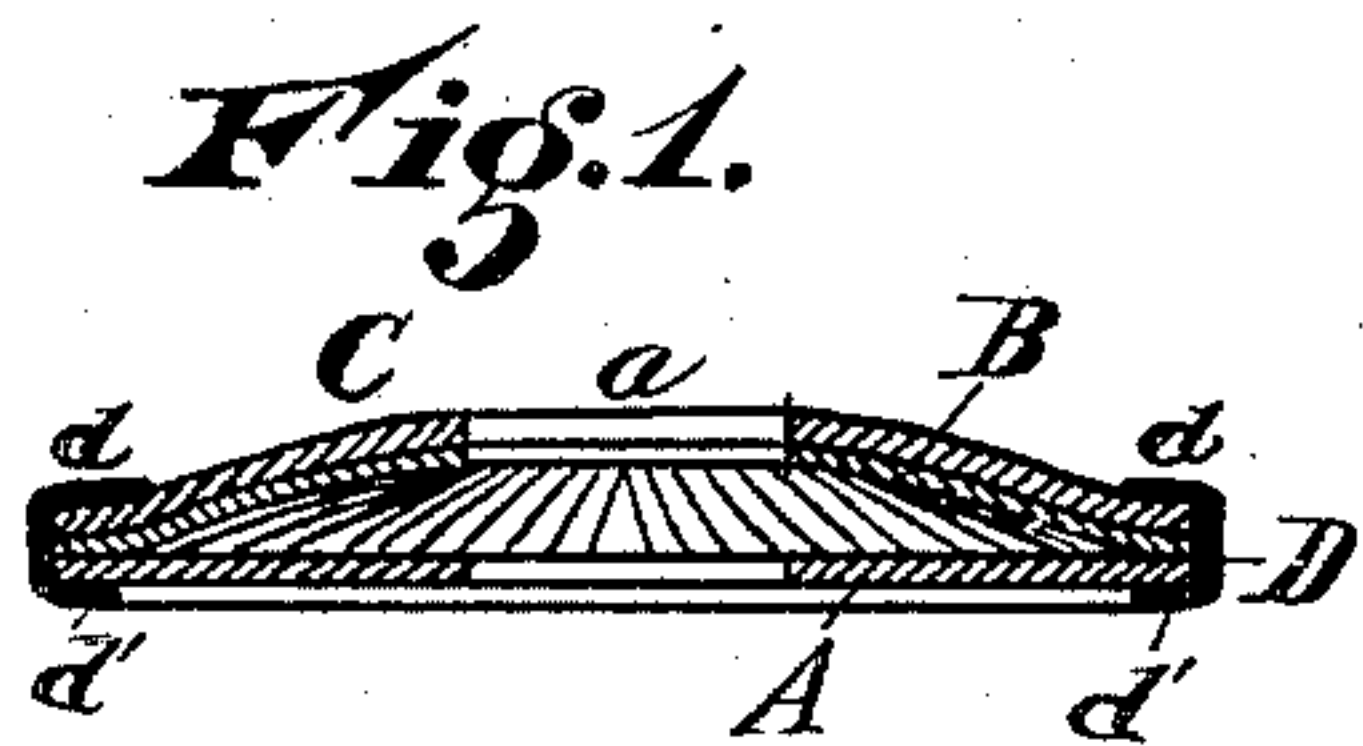
(No Model.)

E. ROTH LISBERGER.

WASHER FOR TOP PROPS.

No. 313,773.

Patented Mar. 10, 1885.



Attest
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UNITED STATES PATENT OFFICE.

ERNESTE ROTH LISBERGER, OF CINCINNATI, OHIO.

WASHER FOR TOP-PROPS.

SPECIFICATION forming part of Letters Patent No. 313,773, dated March 10, 1885.

Application filed August 2, 1884. (No model.)

To all whom it may concern:

Be it known that I, ERNESTE ROTH LISBERGER, a citizen of the United States, and a resident of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Washers for Carriage-Top Props, of which the following is a specification.

My invention relates to an improved washer for carriage-top props. It is desirable to have the outer faces of both of the washers finished ornamentally, and it is especially desirable to use patent-leather or other similar enameled goods to finish the faces of the washers. It has been customary hitherto to make these washers of leather bodies and sew them by hand. They are very liable to get out of shape, and the finishing of the washers by sewing cracks the enameled goods.

I have invented an improved washer which is stiffer and more durable than the washers hitherto used, as well as being more ornamental, from the fact that the joining of the parts together does not crack the enamel, and the base of the washer always retains it in perfect condition, so that I obtain at the same time a more durable as well as a more ornamental finish for the carriage-top.

Figure 1 represents a vertical cross-section of my improvement. Fig. 2 represents a vertical cross-section of a modification of the device shown in Fig. 1. Fig. 3 is a plan view of the base-plate. Fig. 4 is a plan view of the finished face of the washer; Fig. 5, an elevation of the supporting-plate; Fig. 6, an elevation of the finished washer; Fig. 7, a central cross-section of the modification of the washer shown in Fig. 1.

A represents the base-plate of the washer. It is made of tin or other light sheet metal.

B represents a convex supporting-plate resting upon the base A, and made of similar material.

C represents the finished washer-surface, made of patent-leather or other enameled goods.

D represents a double cup-flange, the flanges *d* and *d'* being turned down to rest upon the plates A and C and hold them securely together.

All the parts composing the washer are pierced with a square hole to receive the shank of the bolt of the prop-nut.

Fig. 2 is of the same construction as Fig. 1, except it is provided with a filling, E, of leather or other soft material, to occupy more or less space between the plates A and B. This space between said plates may be entirely filled with fibrous material, or not, as desired. When the plates are sprung but slightly apart, the filling serves to strengthen them in some degree.

Fig. 7 is another modification of my improved washer, and of the form designed to be used behind the inner end of the prop. It is made of enameled covering C and base-plates A and B, with the cup-flange D and the parts pierced with the shank-hole *a*. One thick firm base-plate may be used in lieu of the plates A B. The difference between this and Fig. 1 is that the plates A and B are not sprung apart to form an oval or convex finished washer, which is the preferred form. These washers can be quickly and cheaply made by dies and finished without in any way injuring the enamel of the washer. It may have imitation stitches *e* formed on the upper flange, *d*, which are made by being struck-up by a die.

I claim—

1. A carriage-top washer composed, substantially, of the plates A E, covering C, pierced with the shank-hole *a*, and united together by means of cup-flange D, substantially as specified.

2. A washer for a carriage-top prop, composed, substantially, of the metallic plate A, convex plate B, enameled covering C, each pierced with the shank-hole *a*, and united together by the annular cup-flange D, substantially as specified.

In testimony whereof I have hereunto set my hand.

ERNESTE ROTH LISBERGER.

Witnesses:

JOHN S. ROEBUCK, Jr.,
JOSEPH W. SIMS.