

A. J. MEIER.
 LINING FOR STORAGE BATTERY JARS.
 APPLICATION FILED NOV. 6, 1908.

941,720.

Patented Nov. 30, 1909.

Fig. 2.

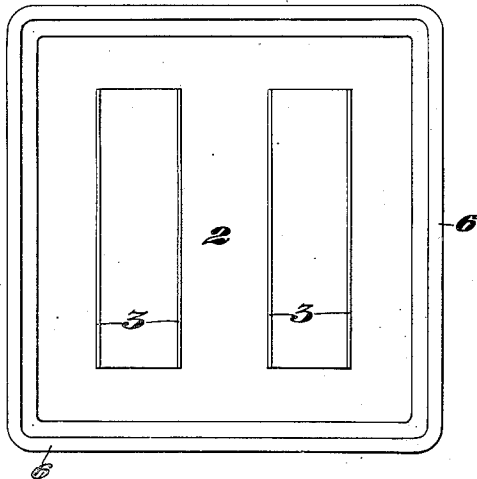


Fig. 3.

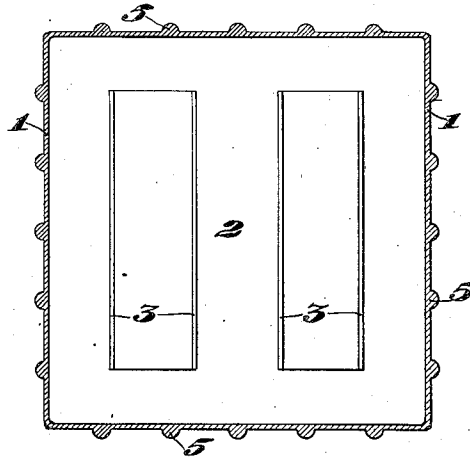


Fig. 1.

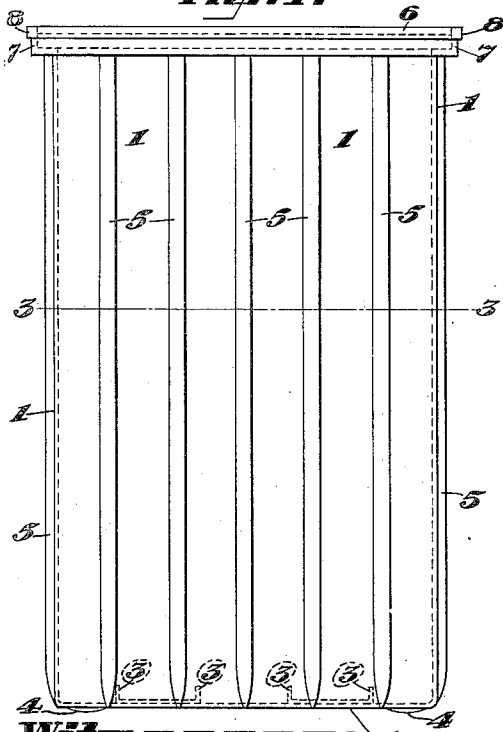
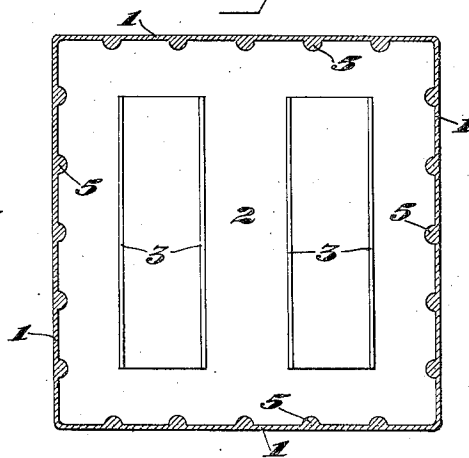


Fig. 4.



Witnesses: 1

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UNITED STATES PATENT OFFICE.

ALBERT J. MEIER, OF GLENDALE, MISSOURI.

LINING FOR STORAGE-BATTERY JARS.

941,720.

Specification of Letters Patent.

Patented Nov. 30, 1909.

Application filed November 6, 1908. Serial No. 461,280.

To all whom it may concern:

Be it known that I, ALBERT J. MEIER, a citizen of the United States, residing at Glendale, in the county of St. Louis and State of Missouri, have invented certain new and useful Improvements in Linings for Storage-Battery Jars, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention consists in improvements in the manufacture of lead linings for storage battery jars, whereby same are rendered more durable, of better quality, and produced with less labor, and, therefore, decreased cost. The invention is, also, suitable for embodiment in drum traps used in plumbing.

Linings for storage battery jars have heretofore sometimes been made of lead as is contemplated by the present invention, but same have not been made except by pressing, with the result that various seams have been found therein, particularly, at the corners thereof. To get rid of such seams, it has heretofore been necessary to burn all seams and corners. In the first place, such treatment of these objects involves a great deal of labor, and, therefore, expense, and, in the second place, the heat of burning produces a detrimental chemical action on the lead. The present invention contemplates making said linings of one piece and without the necessity of burning any part thereof. The manner of making same is described in an application for patent for a machine for forming such linings which I am about to file in the Patent Office (filed December 24, 1908, Serial No. 469,097).

Another feature of this invention is the formation of said linings with strengthening ribs or corrugations, said ribs being preferably longitudinal, and said ribs being preferably on the periphery of said linings or upon the inner circumference thereof. A transverse strengthening rib is, also, provided. Floor ribs in a shape like channel irons have heretofore been attached to the inside of the bottom of such linings by burning, or brazing; but the present invention does away with the necessity of so burning said floor ribs, as it is herein contemplated that same will, also, be formed in one piece with the rest of the lining.

In the drawings forming part of this specification, in which like numbers of refer-

ence denote like parts wherever they occur, Figure 1 is a side elevation of a lining of the kind mentioned above; Fig. 2 is a top plan view of same; Fig. 3 is a sectional view on the line 3—3, Fig. 1; and Fig. 4 is a similar sectional view of a modification.

Every part herein mentioned is preferably made of lead, and the whole is composed of one piece. Thus the side wall 1 is integral with the bottom 2, as are, also, the floor ribs 3, the feet 4, and the corrugations or strengthening ribs 5, and the rim or transverse strengthening rib 6. The feet 4 serve to raise the lining from the floor of the storage battery jar. The ribs 3 are shown in the drawings as formed like channel irons, but may project directly from the floor 2. They serve to hold or support any object that may, as in ordinary use, be placed within same. The ribs 5 so strengthen the wall 1 as to make it firm, and prevent its buckling, and the same purpose is subserved by the transverse rib or rim 6. The rim 6 is preferably formed with an L-shaped part 7 projecting outwardly from the wall 1, and surrounded by a partially overlapping L-shaped flange 8. The ribs 5 may be either all upon the outside of the lining, as shown in Figs. 1 and 3, or all upon the inside thereof, as shown in Fig. 4, or part may be inside and part outside.

Having thus described my said invention, what I claim and desire to secure by Letters Patent is:

1. A lead lining for storage battery jars composed of side walls, a bottom, a series of ribs on each of said side walls arranged in spaced relation and extending the length thereof, a rim carried by the side walls formed with an outwardly projecting L-shaped part and a partially overlapping L-shaped flange surrounding said L-shaped part, all of said recited elements being formed in a single integral piece.

2. A lead lining for storage battery jars composed of side walls, a bottom, a series of ribs on each side wall extending parallel thereto and lengthwise thereof, and a continuous L-shaped member at the tops of the side walls acting as a transverse strengthening element.

3. A lead lining for storage battery jars composed of side walls, a bottom, a plurality of vertical strengthening ribs carried by each side wall, and a series of transverse

overlapping L-shaped strengthening members at the tops of the side walls surrounding the latter.

4. A lead lining for storage battery jars
5 composed of side walls, a bottom, a plurality of lengthwise strengthening ribs carried by each side wall, a plurality of transverse overlapping L-shaped strengthening members at the top of said side walls, and a plurality of

channel members on the inner face of said 10 bottom, all of said parts being formed in one integral piece.

In testimony whereof I have affixed my signature in presence of two witnesses.

ALBERT J. MEIER.

Witnesses:

EDNA J. GOCKEL,
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