

April 20, 1926.

1,581,568

B. FORD

STORAGE BATTERY CELL COVER

Filed June 30, 1925

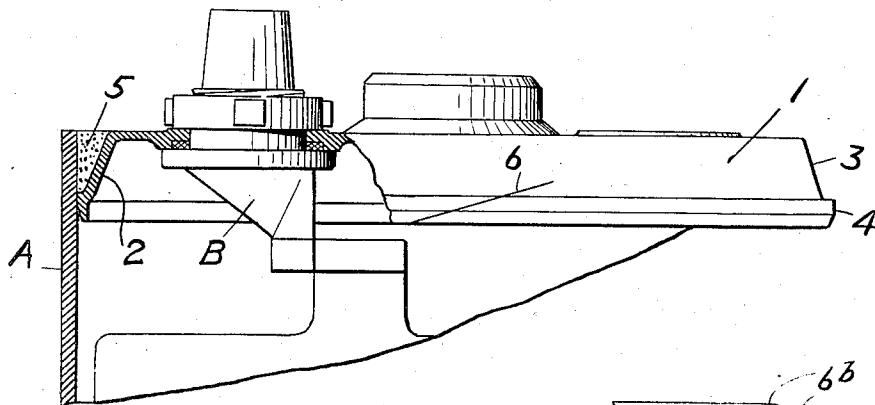


FIG. 1.

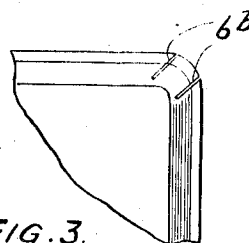


FIG. 3.

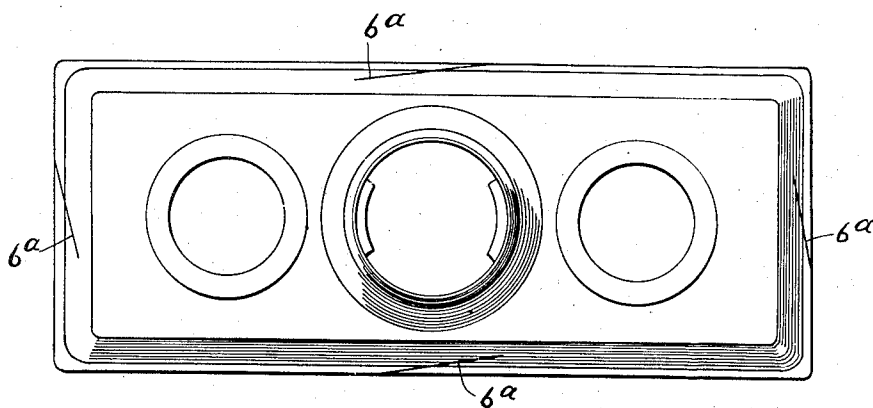


FIG. 2.

WITNESS:

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STORAGE-BATTERY-CELL COVER.

Application filed June 30, 1925. Serial No. 40,491.

To all whom it may concern:

Be it known that I, BRUCE FORD, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Storage-Battery-Cell Covers, of which the following is a specification.

The principal object of the present invention is to provide in the construction of cell covers of hard rubber or hard rubber material for permitting a cover that would be too large for a jar to be pushed into the jar and make such a good fit as is required or, in other words, to provide in the construction of a cell cover of hard rubber or rubber material for such contraction as is necessary for insuring the required fit in the jar without the necessity for grinding the cover which has heretofore been the practice and which is expensive and which is often overdone permitting sealing compound to run into the cell or jar.

Other objects of the invention will appear from the following description which will be made in connection with the accompanying drawing and at the end of which the invention will be claimed.

Referring to the drawing

Figure 1 is a view partly in section and partly in elevation illustrating one embodiment of the invention and showing parts of a storage battery.

Fig. 2 is a plan view of a cover embodying a modification, and

Fig. 3 is a plan view of a part of a cover embodying another modification.

In the drawing 1 is a cell cover of hard rubber or rubber material concave as at 2 and having a depending inwardly offset external marginal wall or skirt 3 provided with an outwardly extending marginal flange 4 to provide space for sealing compound 5 between it and the inner face of the wall of the jar A. It may be remarked that the cover is generally rectangular and is supported and positioned by the plate structure B, and that the offset of the marginal

wall or skirt provides space for sealing compound 5, and that the marginal flange is the means for preventing the sealing compound 5, when fluid, from entering the interior of the cell or jar, therefore there should be a good fit at the rim of the flange 4 with the interior surface of the jar B. By my invention this necessary fit is provided by slitting not only the flange portion 4 of the cover wall but also only such part of the sloping wall 3 of the cover as will enable the slits to function as a take-up in fitting and insure that the sealing compound 5 will cover the slits. The slits are of such width that no appreciable quantity of sealing compound may pass through them, and are preferably inclined at an angle to permit of minimum width in respect to amount of take-up. The slits may be provided by the use of appropriate cores in the mold in which the cover is made. The slits may be variously disposed and positioned and there should preferably be at least one slit for each of the four portions of the marginal wall of the cover. As shown in Fig. 1 the slits 6 are located about midway of the length of the wall through which they are provided, and they are inclined in the direction of the thickness of the cover. As shown in Fig. 2 the slits 6^a are inclined crosswise in the direction of the plane of the cover. As shown in Fig. 3 there are two slits 6^b for each side and two slits for each end of the cover and they are arranged in pairs at the four corners, inclined at an angle to the sides and ends of the cover.

In use the slits impart to the cover the ability to contract and enter a jar which would otherwise be too small to receive the cover and in this way proper fit for retaining the sealing compound is provided inexpensively and satisfactorily and without resort to grinding.

It will be obviously to those skilled in the art to which the invention relates that modifications may be made in details of construction and arrangement and matters of mere form without departing from the spirit of

the invention which is not limited to those matters or otherwise than the prior art and the appended claims may require.

I claim:

- 5 1. A concave cell cover of hard rubber or like material having an offset marginal wall provided with a flange and having slits through said flange and through a part of said wall.
- 10 2. A concave cell cover of hard rubber or like material having a depending marginal wall provided with a marginal flange having two slits for each side and two slits for each end, said slits arranged in pairs at the four corners.
- 15 3. A storage battery cover consisting of a body portion having a depending wall provided with a marginal flange, slits through said flange disposed in angular relation to the sides and ends to provide a take-up in fitting.
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BRUCE FORD.