E. W. SMITH.

STORAGE BATTERY PLATE.

APPLICATION FILED APR. 13, 1908.

911,168.

Patented Feb. 2, 1909.

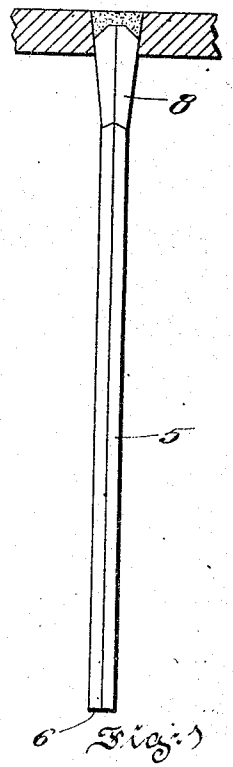


Fig. 1

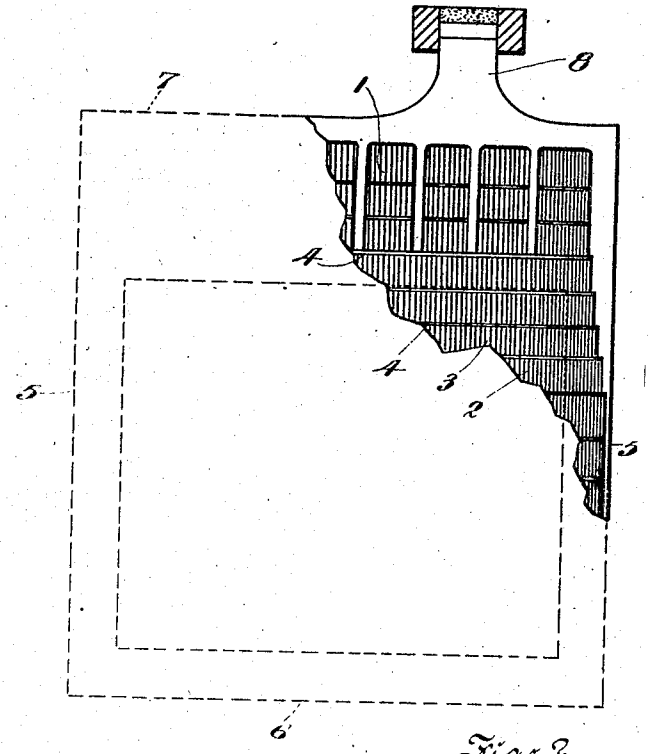


Fig. 2

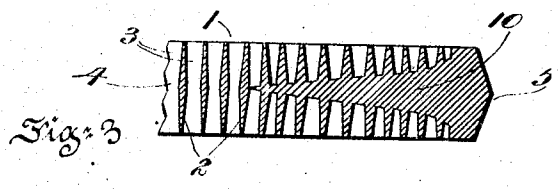


Fig. 3

Witnesses

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EDWARD W. SMITH, OF PHILADELPHIA, PENNSYLVANIA.

STORAGE-BATTERY PLATE.

No. 911,168. Specification of Letters Patent. Patented Feb. 2, 1909.

Application filed April 13, 1903. Serial No. 426,633.

To all whom it may concern:

Be it known that I, EDWARD W. SMITH, a citizen of the United States, and a resident of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Storage-Battery Plates, of which the following is a specification.

The principal object of the present invention is to improve the connection of the body of the plate with the sides and bottom of the rim thereof, to the end that the tendency to fracture and disintegration at these parts may be successfully opposed, and the effective life of the plate increased.

The invention will be claimed at the end hereof and an embodiment of it is illustrated in the accompanying drawings in which—

Figures 1 and 2, are respectively an edge and a face view of the plate, a portion of the latter only being shown and the rest being indicated in broken lines, and Fig. 3, is a transverse sectional view drawn to an enlarged scale, illustrating features of the invention.

Referring to the drawings the body 1, of the plate comprises a great number of exceedingly fine ribs 2, having spaces 3, between them, which extend clear through the plate. The body also comprises cross-wise ranging reinforcing ribs 4, which are spaced some little distance apart.

5, are the sides, 6, is the bottom and 7, is the top of the rim of the plate, which is provided with a lug 8.

In a plate of the character described, when in use, there is a tendency on the part of the sides 5, of the rim or frame, to crack, break and subsequently give rise to a rupture, that in time extends clear across the plate, thus dividing it in two. This defect is present even though the thickness of these parts be increased, but this defect is avoided in the manner to be described.

From the edge there extends in toward the body and about midway of the plate, a beveled or pointed web 10, shown clearly in Fig. 3, and indicated upon Fig. 2, by dotted lines inside of the plates. This beveled or pointed web really causes the body of the plate to merge gradually into the sides of the frame so that there is no sharp line of demarcation between the two, and the effect of it is to successfully oppose or restrain or prevent breakage such as has been referred to at the sides of the plate, so that the tapered web materially adds to the life and efficiency of the plate.

What I claim is:

1. A storage battery plate consisting of a body part of fine ribs having between them spaces which extend clear through the plate and having cross-wise ranging reinforcing ribs, and of a rim or frame the bottom and sides of which are provided with a tapering web that extends inward, substantially as described.

2. A storage battery plate consisting of a body part of fine ribs having between them spaces which extend clear through the plate and having cross-wise ranging reinforcing ribs, and of a rim or frame the sides of which are provided with a tapering web that extends inward, substantially as described.

In testimony whereof I have hereunto signed my name.

EDWARD W. SMITH.

Witnesses:

BRUCE FORD,

GEO. M. HOWARD.