

No. 674,106.

Patented May 14, 1901.

E. TIQUET.
BATTERY CELL.

(Application filed Jan. 9, 1901.)

(No Model.)

Fig.1

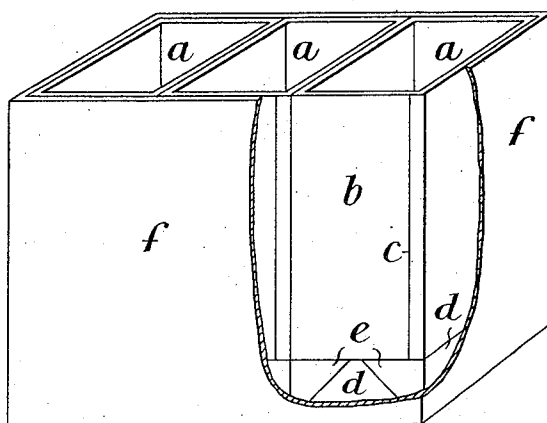
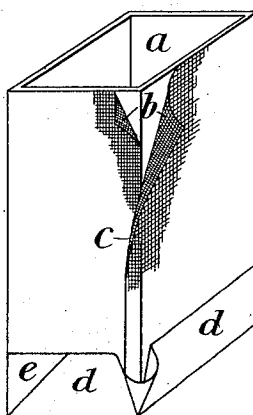


Fig.2



Witnesses.

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EDWARD TIQUET, OF ROMFORD, ENGLAND.

BATTERY-CELL.

SPECIFICATION forming part of Letters Patent No. 674,106, dated May 14, 1901.

Application filed January 9, 1901. Serial No. 42,686. (No model.)

To all whom it may concern:

Be it known that I, EDWARD TIQUET, a subject of the Queen of Great Britain, residing at 206 London road, Romford, Essex, England, have invented new and useful Improvements in Battery-Cells, of which the following is a specification.

My invention relates to cells for primary or secondary batteries. Hitherto such cells have usually been constructed of ebonite or other material which frequently becomes fractured or broken when in use.

The object of my invention is to provide a cell which is not liable to break and which is therefore very applicable for use on electrically-propelled carriages or in other situations where the cells are subjected to considerable vibration.

According to my invention I construct the cell of wood, papier-mâché, or other similar material or compound, the sides of the cell being dovetailed together or being formed by bending a piece of material previously grooved or connected in any other convenient manner. The bottom is also fixed by any convenient means. I next envelop this cell in a cover of canvas, calico, or other fabric, the said fabric being attached with Jeffery's marine glue, india-rubber solution, or other adhesive material having elastic, insulating, and waterproofing properties. The inside of the cell is also preferably coated with an insulating and waterproofing material.

In practice when a number of cells are used they are preferably inserted into an outer case.

My invention will be readily understood by reference to the accompanying drawings, in which—

Figure 1 is a sectional elevation of three cells constructed according to my invention and arranged in an outer case; and Fig. 2 is an elevation of one of the said cells, illustrating the method of applying the outer covering.

a a are the cells proper, which, as hereinbefore stated, are formed of wood, papier-mâché, or other similar material, and *b* is a covering of fabric. In practice I prefer to first of all wrap a strip of the fabric around the cell, so that the two ends overlap, as at *c*, (the said fabric being suitably cemented to the cell, as hereinbefore described,) and then to apply a separate piece to the bottom of the

cell, the said piece being of larger area than the bottom of the cell and being folded up on the sides, as shown at *d*, the corners being pressed together and folded back, as indicated at *e*. When the cover has been thus applied, the outer surface is again painted with an insulating and waterproofing material, such as Jeffery's marine glue or india-rubber solution, and a coating of the same material is also applied inside the cell.

f is the box in which the said cells are fitted. As shown, this box is adapted for receiving three cells; but it may be made either larger or smaller to receive a greater or less number. The said box is also preferably coated with Jeffery's marine glue or other insulating and waterproofing material.

It will be understood that cells constructed as hereinbefore described will not be liable to be injured by the shaking or jolting of a carriage or vehicle.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

1. A battery-cell comprising a main body, an inclosing envelop of woven fabric having portions surrounding the lateral walls of said main body and united to said main body by an elastic, waterproof and insulating medium, and a bottom piece of fabric larger than the bottom of said main body united to the bottom of said main body by said medium and having its edges folded upon and united to the lateral portions of said envelop by said medium, substantially as described.

2. A battery-cell having a main body of wood or the like, an inclosing envelop having portions wrapped around the lateral walls of said main body and united thereto by an elastic, waterproof and insulating medium, a bottom piece of greater size than the bottom of the main body, united thereto by said medium and having its edges folded upon and united to said lateral portions of the envelop by said medium, the interior of the main body and the exterior of said envelop being coated with said medium, substantially as described.

EDWARD TIQUET.

Witnesses:

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