

A. G. DAVIS.

Improvement in Battery-Insulators.

No. 129,465.

Patented July 16, 1872.

Fig. 1.

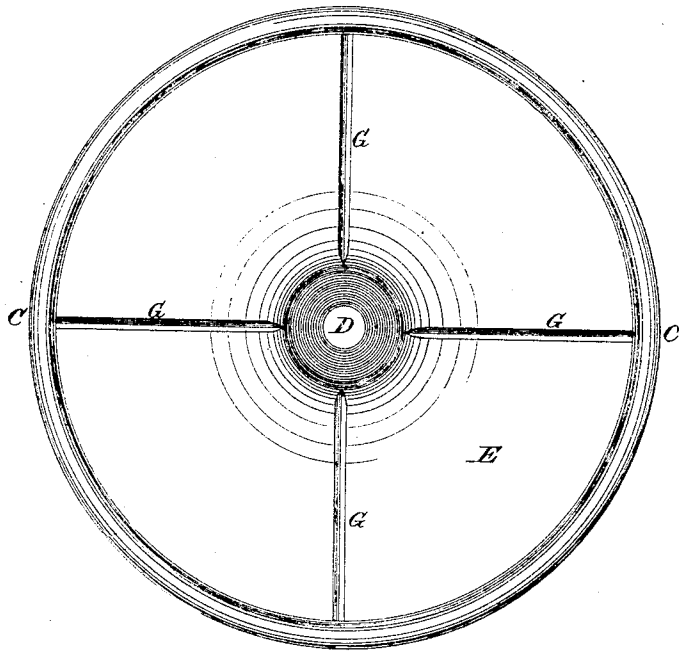
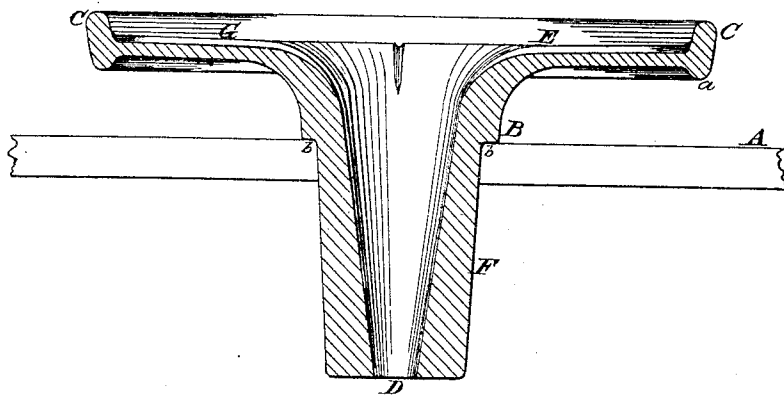


Fig. 2.



Witnesses:

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# UNITED STATES PATENT OFFICE.

AUGUSTUS G. DAVIS, OF BALTIMORE, MARYLAND.

## IMPROVEMENT IN BATTERY-INSULATORS.

Specification forming part of Letters Patent No. 129,465, dated July 16, 1872.

Specification describing certain new and useful Improvements in "Battery-Insulators," invented by AUGUSTUS G. DAVIS, of the city and county of Baltimore and State of Maryland.

The object of this invention is to provide an insulator for batteries which shall perfectly insulate the cells thereof from each other and avoid any danger of electrical connection being formed between the same by reason of any overflow or of condensed moisture; and it consists in an insulator made of a head or bed and shank cast or made in one piece, and provided with a central aperture for conducting away any overflow or any moisture which may condense upon the sides of the cells, all as more fully herein set forth.

Referring to the drawing, Figure 1 is a top or plan view, and Fig. 2 a sectional view, of my insulator.

E is the head or bed of the insulator, upon which the battery-cell sets, the cell being held thereon securely and prevented from slipping off by flange C extending a suitable distance above the bed. This flange also extends below the base of bed, as at A, preventing any moisture which may happen to be on C from connecting with the under side of the bed. The under side of the head or bed E is somewhat bracketed in shape, as shown in Fig. 2, the curve of the bracket extending to B, where a shoulder, *b*, is formed, upon which the shank F extends downward a distance sufficient to carry the end of the shank below the under side of the table on which the insulator is placed, and is either of a uniform size, or slightly tapering. Through the center of the bed or head and the shank the central aperture D is made somewhat trumpet-shaped, widest at the top, in order to furnish a sure means of carrying off all moisture which may condense or be otherwise formed upon the outside of the battery, and preventing such moist-

ure from falling upon the table or other support of the battery, and forming a connection between the various cells. As seen, the aperture conducts the moisture beneath the table, where it may fall upon the floor, where it can do no damage; or it may fall into any suitable receptacle or trough.

In order to afford a sure passage for the moisture underneath the cell I may make three, four, or more radiating gutters, seen at G; or, in lieu thereof, their equivalent may be used—viz., lugs or projections, on which the cell may rest.

I construct this insulator of glass, porcelain, rubber, or any known insulating materials, and in one piece. It may be cast, pressed, turned, or otherwise made.

To the particular material and method of working up the same I lay no claim. I am aware that insulators have been made in several pieces, the head or bed either slipping into or over the shank; such I do not claim; but

What I do claim, and desire to secure by Letters Patent, is—

1. As a new article of manufacture, a battery-insulator provided with a bed or head piece and shank made in one piece, substantially as set forth.

2. A battery-insulator provided with a central longitudinal aperture, substantially as set forth.

3. A battery-insulator having a bed or head piece provided with the radiating gutters G, substantially as set forth.

4. The combination of the bed or head piece E, shank F, flange C, and aperture D, with or without the radiating gutters, substantially as set forth.

A. G. DAVIS.

Witnesses:

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