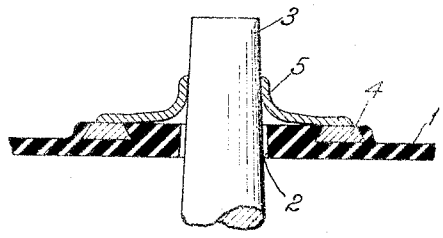
W. L. BLISS.

CONSTRUCTION OF ELECTRIC CONDUCTORS.

APPLICATION FILED MAY 13, 1918.

1,364,861. Patented Jan. 11, 1921.



WITNESS:

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CONSTRUCTION OF ELECTRIC CONDUCTORS.

1,364,861. Specification of Letters Patent. Patented Jan. 11, 1921.

Application filed May 13, 1918. Serial No. 234,116.

To all whom it may concern:

Be it known that I, WILLIAM L. BLISS, a citizen of the United States, residing at Niagara Falls, in the county of Niagara and State of New York, have invented new and useful Improvements in Construction of Electric Conductors, of which the following is a specification.

The present invention relates to construction of electric conductors.

More particularly the present invention relates to construction whereby an electric conductor may extend through the wall of a receptacle, being mounted in said wall in such a way as to prevent creepage of liquid along said conductor. The invention is illustrated and described in connection with storage battery construction.

An object of the present invention is to provide a construction of the kind above referred to which will be simple and cheap in construction while effectually preventing the creepage of liquid.

A further object is to provide a construction which will effectually prevent the creepage of liquid along the conductor while permitting a certain amount of relative movement between the conductor and the receptacle wall.

Further objects will appear as the description proceeds.

The one figure of the drawing represents in section one embodiment of the present invention.

A portion of a receptacle wall, which may be the side wall or the cover of a storage battery cell, is indicated by the numeral 1. The wall 1 is provided with an aperture 2 through which the electric conductor 3 is adapted to extend. Said conductor 3 may take the form of the ordinary cell post in a storage battery cell. Mounted in the wall 1 is an annular member 4 which surrounds the conductor 3 and should preferably be concentrically arranged therewith. The annular member 4 may be molded into the wall 1, threaded thereto, or secured in any other preferred manner. In any case, the member 4 should be in such intimate contact with the wall 1 as to prevent the passage of liquid therebetween. Surrounding the conductor 3 is a member 5 of flexible material. The member 5 should be bell-shaped in conformation and should be provided with a centrally placed aperture adapted to fit loosely around the conductor 3. The flared portion of the bell-shaped member 5 should engage with the annular member 4. The bell-shaped member 5 should be burned, soldered or otherwise secured to the conductor 3 and to the annular member 4. If preferred, the member 5 may be integral with the annular member 4. In storage battery construction, the member 5 may be of lead or similar material.

It will be obvious that the creepage of any moisture along the conductor 3 will be effectually prevented by the construction illustrated and described. No moisture can pass between the conductor 3 and the bell-shaped member 5, inasmuch as said members are sealed together as above described. No moisture can pass between the bell-shaped member 5 and the annular member 4 for the reason that said members are tightly sealed together. No moisture can pass between the annular member 4 and the wall 1, inasmuch as said members are in such intimate contact as to prevent the passage of moisture therebetween. The flexibility of the member 5 will permit a certain amount of movement between the conductor 3 and the wall 1. This is particularly advantageous in storage battery construction, inasmuch as the weight of the members connected to the conductor 3 may be carried by other parts rather than by the wall 1, thereby saving breakage.

One embodiment of the present invention has been described in detail. Many modifications will occur to those skilled in the art. It is intended in this patent to cover all such modifications that come within the scope of the present invention as defined by the appended claims.

What I claim as new and desire to secure by Letters Patent of the United States, is—

1. In a storage battery cell, in combination, a cell cover, a cell post extending through said cover, an annular ring embedded in said cover in such intimate contact therewith as to prevent the passage of electrolyte between said ring and said cover, and an imperforate, skirt-like, flexible member connecting said post to said ring, integrally united to said post and said ring, said

member being joined to said ring along a line relatively distant from said post, whereby to permit appreciable relative movement between said post and said cover.

2. In combination, a battery cover, a terminal extending therethrough, an anchor member embedded in said cover surrounding said terminal, and a skirt-like flexible member integrally united to said terminal and to said anchor member.

In witness whereof, I have hereunto subscribed my name.

WILLIAM L. BLISS.