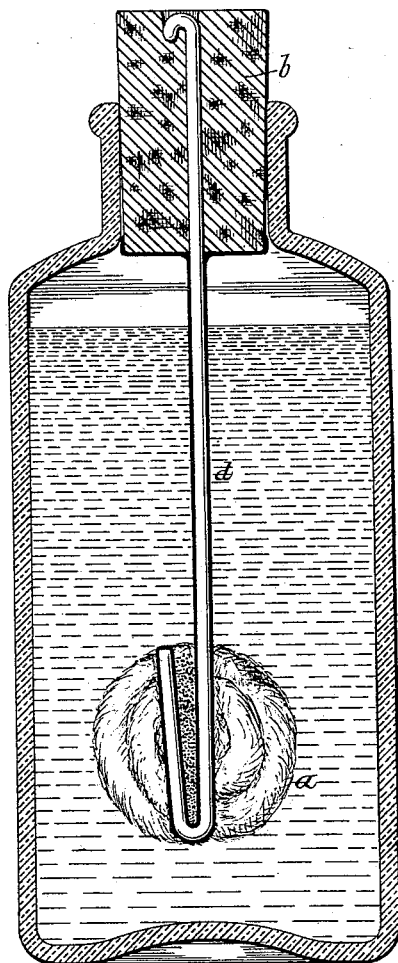


(No Model.)

G. S. WOLFF.  
BRUSH OR SWAB FOR LIQUID BLACKING.

No. 454,694.

Patented June 23, 1891.



Witnesses :

A. V. Groupé.  
R. Schleicher.

Inventor :

George S. Wolff  
by his Attorneys

Howson & Howson

# UNITED STATES PATENT OFFICE.

GEORGE S. WOLFF, OF PHILADELPHIA, PENNSYLVANIA.

## BRUSH OR SWAB FOR LIQUID BLACKING.

SPECIFICATION forming part of Letters Patent No. 454,694, dated June 23, 1891.

Application filed December 30, 1890. Serial No. 376,280. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE S. WOLFF, a citizen of the United States, and a resident of Philadelphia, Pennsylvania, have invented certain Improvements in Brushes or Swabs for Liquid Blacking, of which the following is a specification.

My invention comprises an improvement in that class of brushes or swabs in which the swab-holder consists of a wire suspended from the bottle-cork, my invention relating especially to the brushes or swabs used in connection with blacking compounds having alcohol as a solvent, and the object of my invention being to prevent decomposition or deterioration of such compounds when the same are kept in stock or not used for long periods of time. This object I attain in the manner hereinafter set forth, reference being had to the accompanying drawing, which represents on an enlarged scale a bottle of blacking having a swab constructed in accordance with my invention.

It is a common practice to provide bottles of shoe-blackening and like compounds with brushes or swabs suspended from the bottle-cork by means of a wire, for instance. In the drawing, *a* represents such a swab, *b* the cork, and *c* the suspending-wire. When such compounds have alcohol as a solvent, however, it has been found that after a time the compound is decomposed and the new compounds formed are worthless for the purposes for which the original compound was intended. This decomposition I conceive to be due to the presence of the naked metal wire in the compound, and my present invention therefore consists in providing said wire with a coating or covering insoluble in alcohol; that

which I have found to be preferable for the purpose being simply a coating of "glue," under which term may be included animal glue, gelatine, fish-glue, isinglass, &c. In addition to coating the suspending-wire, it is also preferable to coat the bottom of the cork, so as to prevent deterioration due to evaporation through the pores of the cork, the coating being applied after the wire has been inserted in the cork, so that said coating is continuous—that is to say, without the break which would be caused if the wire was inserted into a previously-coated cork.

Having thus described my invention, I claim and desire to secure by Letters Patent—

1. The within-described swab or brush for bottles containing alcoholic blacking compounds, said swab or brush having a suspending-wire provided with a coating insoluble in alcohol, substantially as specified.

2. The within-described swab or brush for bottles containing alcoholic blacking compounds, said swab or brush having a suspending-wire provided with a coating of glue, substantially as specified.

3. The within-described swab or brush for bottles containing alcoholic blacking compounds, said swab or brush having a wire suspended from the cork and provided with a coating insoluble in alcohol and extending continuously over both the wire and the bottom of the cork, substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

GEORGE S. WOLFF.

Witnesses:

EUGENE ELTERICH,  
HARRY SMITH.