

L. D. GRANT.
Metallic-Brush.

No. 219,395.

Patented Sept. 9, 1879.

Fig. 1.

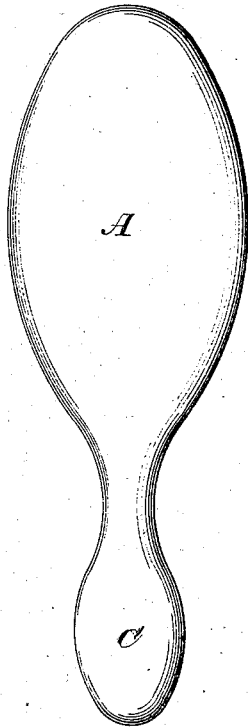


Fig. 2.

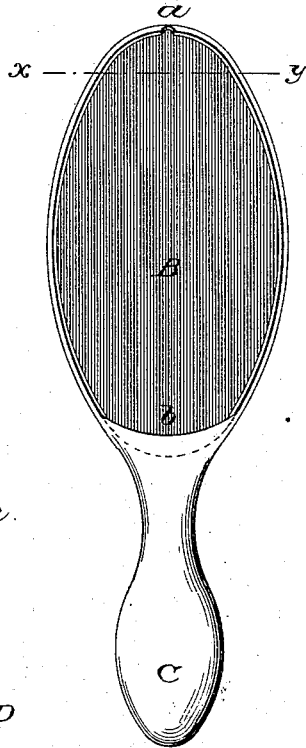
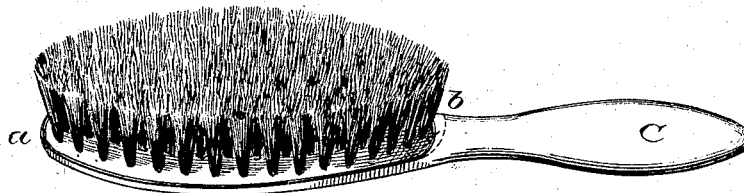


Fig. 3.



Fig. 4.



Witnesses:

Orin Campbell
James W. Palmer

Inventor:

Lorenzo Downing Grant.

UNITED STATES PATENT OFFICE.

LORENZO D. GRANT, OF LANSINGBURG, NEW YORK.

IMPROVEMENT IN METALLIC BRUSHES.

Specification forming part of Letters Patent No. **219,395**, dated September 9, 1879; application filed April 3, 1879.

To all whom it may concern:

Be it known that I, LORENZO DOWNING GRANT, of the town of Lansingburg, in the county of Rensselaer and State of New York, have invented a new and Improved Metallic Brush, which improvement is fully set forth in the following specification and accompanying drawings.

My improved brush consists, first, in the brush-holder having a cavity partly surrounded by a vertical rim and partly by the arch of the handle extended to the edge of the cavity, and, secondly, in having a sheet-metal perforated face and filling that may be readily inserted or withdrawn from the holder, substantially as herein described.

Figure 4 is a perspective view of my improved brush. Fig. 3 is a sectional view of the same without a handle. Fig. 2 is a plan of the face and hollow handle with brush removed. Fig. 1 is a view of the back of Fig. 2.

My metallic brush is constructed substantially as follows: A strip of thin ductile metal is cut in suitable shape, then rolled, pressed, or joined, so as to form a proper opening, B, for the brush, and a hollow handle, C, as indicated.

The opening or concaved space B has a flanged or vertical edge except at one end, where the arch of the handle is extended on the same plane, as seen in Fig. 2, and by means of this arch and vertical rim to hold or bind the brush in position.

The face of the brush is of metal, and has a suitable flange and ribs to securely hold the filling of wood or other material, and the face and filling are then perforated and the bristles inserted in the usual manner.

The metal face of the brush has at one extremity a wider margin than at the other, so as to pass under the arch of the handle C, as indicated by dotted lines *b*, Figs. 2 and 4.

The vertical rim partly surrounding the cavity B is made to conform to the beveled margin of the face until nearly to the outer extremity at points marked by dotted line *x y*, where the rim is rendered more rounding, so as to make a snap-catch or holding pressure on the detachable brush when in position seen in Fig. 4.

I do not confine myself to any particular form of the back and face of the brush, but prefer that the surfaces shall be rounded, as indicated.

The sheet metal for the brush-holder may be in one or more pieces, suitably cut, so that when united they may present the form desired, and the surfaces are highly polished or plated to make a tasty and finished appearance.

The wider end margin of the face is inserted under the arch of the handle, and the brush is pressed downward within the rim of the opening B, when the brush presents an appearance indicated in Fig. 4.

The brush may be readily detached from the back or brush-holder A by jarring one end of the same on a hard substance, or by inserting a sharp instrument or spring in a suitable cut in the flange indicated at point *a* in Figs. 2 and 4, and by this pointed instrument prying up or raising the face of the brush.

The advantages of my improved brush are, that I furnish in combination a face and brush of a uniformly-finished and tasty appearance, and make a brush of great strength and durability, and, also, when the face and back are detachable by the means used, different styles of brushes, mirrors, &c., may be readily inserted in the preparation of the toilet; or, when the bristles of the brush are worn out, the face may be easily removed and another inserted.

I claim—

1. A brush-holder having therein an opening or cavity partly surrounded by a vertical rim, and partly by the curved arch of the handle extended to the edge of the opening, substantially as described, and for the purpose set forth.

2. In a brush, a sheet-metal perforated face and filling of wood or other material that may be readily inserted or withdrawn from the back, substantially as described.

LORENZO DOWNING GRANT.

Witnesses:

ORIN GAMBELL,
JAMES W. PALMER.