

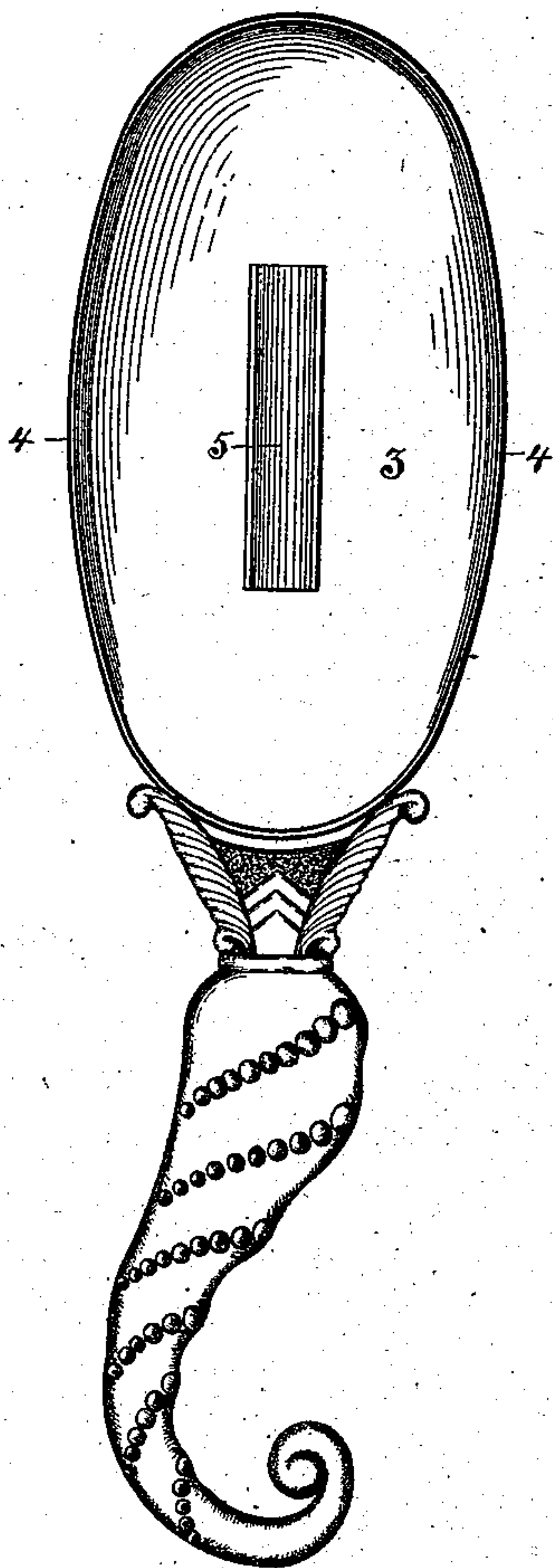
(No Model.)

H. BERRY.  
BRUSH.

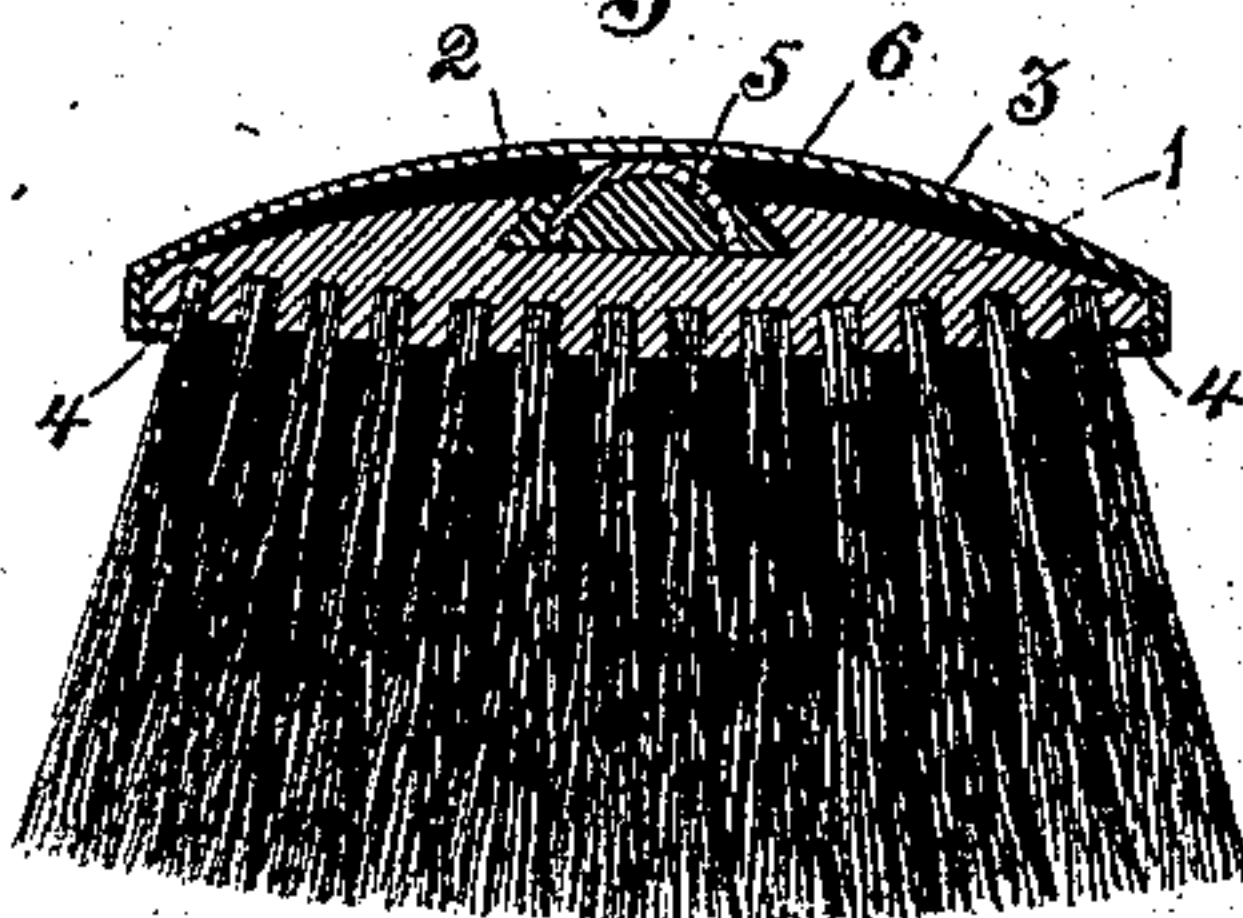
No. 381,206.

Patented Apr. 17, 1888.

*Fig. 1.*



*Fig. 2.*



*Witnesses,*  
*S. Williamson*  
*W. J. Hanland*

*Inventor*  
*Henry Berry*  
*by J. Smith and Hubbard*  
*Attorneys*



# UNITED STATES PATENT OFFICE.

HENRY BERRY, OF SHELTON, CONNECTICUT, ASSIGNOR TO THE DERBY SILVER COMPANY, OF SAME PLACE.

## BRUSH.

SPECIFICATION forming part of Letters Patent No. 381,206, dated April 17, 1888.

Application filed August 25, 1887. Serial No. 247,800. (No model.)

*To all whom it may concern:*

Be it known that I, HENRY BERRY, a citizen of the United States, residing at Shelton, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Brushes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in brushes; but more particularly does it appertain to that class of brushes wherein the brush and the wooden back thereof are secured to a backing of metal or similar material, whereby both strength and a highly ornamental appearance are secured; and with these ends in view my invention consists in the means hereinafter to be described for firmly securing the brush proper into the metal back, which will be hereinafter more fully described, and then recited in the claims.

In order that those skilled in the art to which my invention appertains may thoroughly understand my invention and how to make the same I will describe the same in detail, reference being had to the accompanying drawings, which form a part of this specification, and in which—

Figure 1 is a plan of the inner side of the metal backing prior to the securing of the brush therein, and Fig. 2 a central vertical transverse section of the brush and backing.

Similar figures indicate like parts in both the views.

1 is the wooden brush back, wherein the bristles are secured in any ordinary manner. At or near its center the wooden brush-back has made therein an undercut recess, 2, which is shown at the sectional view, Fig. 2.

3 is the metal backing, having a flange, 4, around its edge. The backing is adapted to fit over the wooden brush-back.

5 is a key, which is preferably concavo-con-

vex in cross section, and which is secured, as by soldering, to the inner surface of the metal backing. The said key is of such size as to be just capable of entrance into the undercut recess aforesaid.

By means of my device the brush and backing are secured together as follows: The undercut recess in the brush-back is first filled with some strong adhesive cement. The backing is then placed over the brush-back, and the key thereby caused to embed in the cement within the recess. As the cement hardens, the key is firmly retained therein. The section, Fig. 2, shows the assembled position of the parts, the cement being indicated by Fig. 6. As an additional means of security, the annular flange of the metal backing is spun or turned over the edge of the brush-back. In this way a brush of great solidity and strength is assured.

I claim—

1. The combination, with the metallic backing, of a key secured to the inner face thereof, a brush having a recess in its back within which the key is adapted to fit, and a stratum of cement arranged within the recess and surrounding the key, substantially as set forth.

2. The combination, with the brush having an undercut recess in the back thereof, of a metal backing provided interiorly with a key and annularly with a projecting flange, said backing being adapted to be secured to the brush-back by the embedding of the key in the cement within the undercut recess, and also by the turning of the annular flange to embrace the brush-back at its edges, substantially as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY BERRY.

Witnesses:

S. H. HUBBARD,  
W. J. MILLER.