

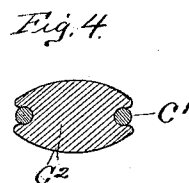
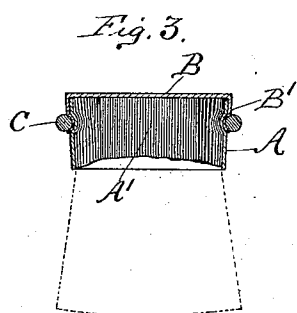
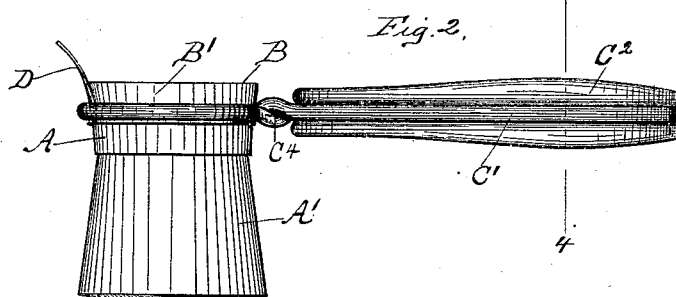
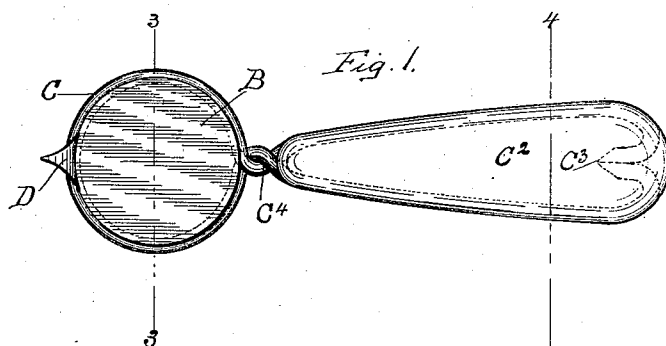
(No Model.)

2 Sheets—Sheet 1.

W. VAN KLEECK.
BRUSH.

No. 544,141.

Patented Aug. 6, 1895.



Witnesses:
Frank C. Curtis
W. H. Haeister Jr.

Inventor:
William Van Kleeck
by Geo. A. Moore
Atty.

(No Model.)

2 Sheets—Sheet 2.

W. VAN KLEECK.
BRUSH.

No. 544,141.

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Fig. 5.



Fig. 6.

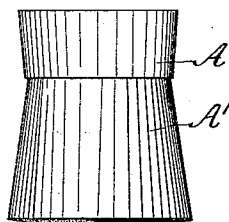


Fig. 7.

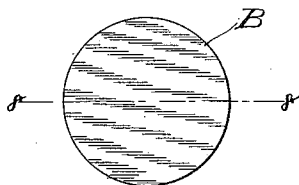


Fig. 8.

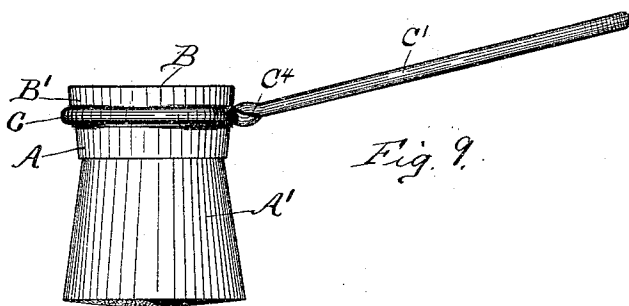
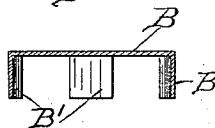


Fig. 9.

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UNITED STATES PATENT OFFICE.

WILLIAM VAN KLEECK, OF LANSINGBURG, NEW YORK.

BRUSH.

SPECIFICATION forming part of Letters Patent No. 544,141, dated August 6, 1895.

Application filed November 9, 1891. Serial No. 411,262. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM VAN KLEECK, a citizen of the United States, residing at Lansingburg, county of Rensselaer, and State of New York, have invented certain new and useful Improvements in Brushes, of which the following is a specification.

My invention relates to such improvements; and it consists of the novel construction and combination of parts hereinafter described and subsequently claimed.

Reference may be had to the accompanying drawings and the letters of reference marked thereon, which form a part of this specification.

Similar letters refer to similar parts in the several figures therein.

Figure 1 of the drawings is a top plan view of my improved brush. Fig. 2 is a side elevation of the same. Fig. 3 is a central vertical section of the brush-head, taken on the broken line 3 3 in Fig. 1. Fig. 4 is a vertical cross-section of the handle taken on the broken line 4 4 in Figs. 1 and 2. Fig. 5 is a front elevation of the mud-scraper before the same is attached to the brush-head. Fig. 6 is a side elevation of the knot of bristles and knot-inclosing band before the cover and handle are attached. Fig. 7 is a plan view of the cover before it is placed on top of the knot of bristles and secured to the band. Fig. 8 is a vertical central section of the cover, showing the depending flange in sections. Fig. 9 is a side elevation of the brush, showing the handle inclined and composed of wire only.

The tapered ferrule A forms the knot-inclosing band adapted to receive the single knot of bristles A' inserted at the back or larger end of the ferrule and projected from the face or smaller end, as shown in Fig. 2. The knot of bristles is held within the band by a cap or cover B, having a depending peripheral flange B', adapted to inclose and fit the back end of the band. The cap is held upon the band by a wire C, which is made to encircle the band and project laterally to form a handle C'. Sufficient power of compression may be applied to the encircling wire to indent the band and the inclosed knot of bristles, as shown in Fig. 3, thereby affording a retaining-groove for the wire to prevent it from slipping off the smaller end of the band.

The inwardly-projecting indented portion of the band also assists in preventing the knot of bristles escaping at the face end of the band. The laterally-projecting portion of the wire is given the form of a loop to inclose and support a wooden handle C². The handle is provided with edge grooves, in which the wire is embedded. The wire is preferably one piece, with the middle part surrounding the brush-head and the end portions inclosing the handle. The extremities of the wire are preferably inserted in an aperture in the projecting end of the handle, as indicated by dotted lines C³ in Fig. 1. The wooden handle is inserted within the wire loop and the twist C⁴ formed in the wire strands between the band and handle, as shown, thereby tightening the grip of the wire upon both head and handle.

When desired, a mud-scraper D, formed of a pointed piece of sheet metal or other material, may be inserted between the wire and band before the wire is tightened thereon, and the grip of the wire will suffice to hold the scraper in place.

When desired, the wooden portion of the handle may be omitted, the wire loop alone serving as the handle, as shown in Fig. 9.

I prefer to insert the wooden handle, as it affords a more comfortable and substantial grasp for the hand and does not absorb the natural warmth of the hand so readily as metal.

The handle may project from the knot-inclosing band at any desired angle, and the mud-scraper may be located on any side of the head. The peripheral flange depending from the cover may be integral and cylindrical, as shown in Fig. 2, or sectional, as shown in Fig. 8, wherein B² represents the cap and B³ the flange-sections depending therefrom.

The knot-inclosing band and the cover are preferably made of sheet metal.

The wire from which the loop is made may have any desired cross-sectional form.

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

1. In a brush, the combination with a knot of bristles; of a knot-inclosing band, a cover with depending band-lapping portions, placed on top of the knot of bristles; and a wire inclosing the depending portions of the cover and the band, and projecting from the band

to form a handle-support for the brush, substantially as described.

2. In a brush, the combination with the brush-head, and a head-inclosing wire, of a
5 mud-scraper inserted between and supported by the head and inclosing wire, substantially as described.

3. A grooved brush-head and a grooved handle block secured together by a wireloop
10 which incloses both the head and block, and is twisted intermediately of the head and

block, whereby the inclosing wire is firmly seated in the respective grooves in the brush-head and handle-block, substantially as described.

In testimony whereof I have hereunto set
my hand this 30th day of October, 1891. 15

WM. VAN KLEECK.

Witnesses:

GEO. A. MOSHER,
FRANK C. CURTIS.