

(No Model.)

2 Sheets—Sheet 1.

E. WRIGHT.
Paint Brush.

No. 235,841.

Patented Dec. 21, 1880.

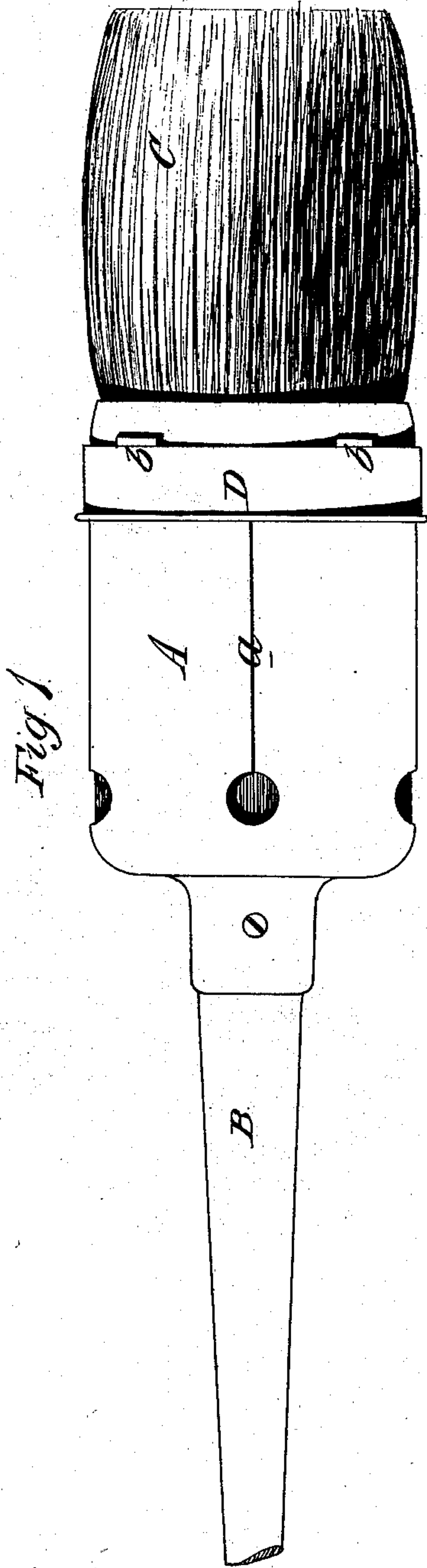
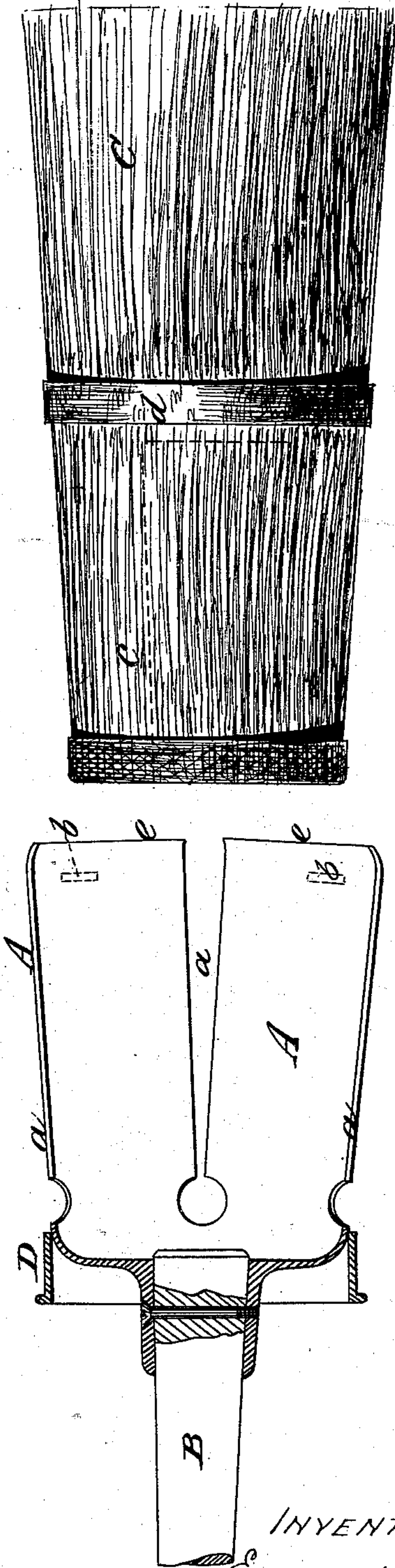


Fig. 2.



WITNESSES

H. L. Follenwider.
Henry Howson Jr.

INVENTOR

Edward Wright.
by his Attorneys.
Howson and Son

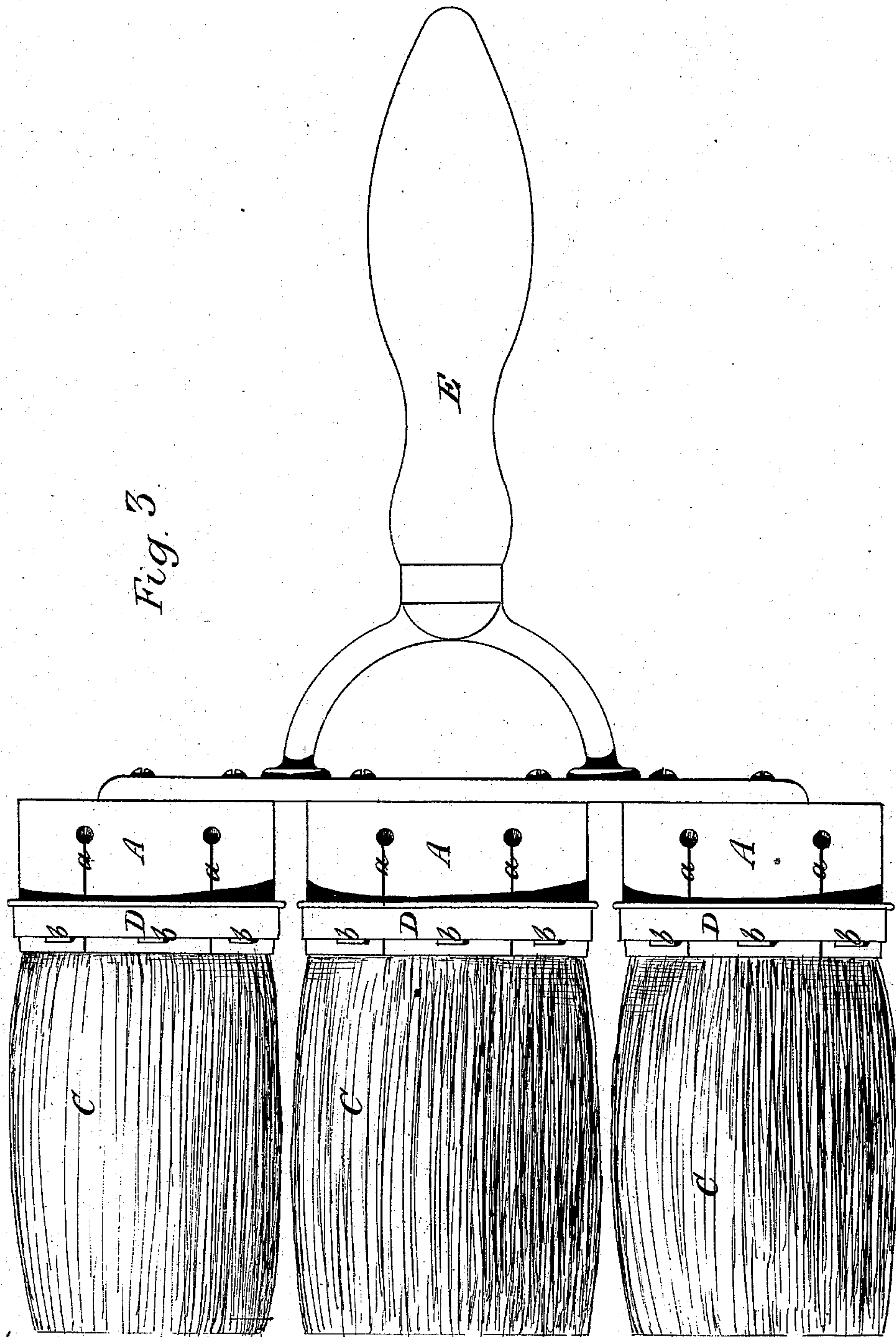
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Henry Howson Jr.

INVENTOR:

Edward Wright
by his Attorneys
Howson and Co.

UNITED STATES PATENT OFFICE.

EDWARD WRIGHT, OF BECKENHAM, COUNTY OF KENT, ENGLAND.

PAINT-BRUSH.

SPECIFICATION forming part of Letters Patent No. 235,841, dated December 21, 1880.

Application filed September 23, 1880. (No model.) Patented in England May 11, 1880.

To all whom it may concern:

Be it known that I, EDWARD WRIGHT, a subject of the Queen of Great Britain, and residing at Beckenham, county of Kent, England, have invented certain Improvements in Paint-Brushes, (for which I have obtained a patent in Great Britain, No. 1,930, dated 11th May, 1880,) of which the following is a specification.

My invention, relating to paint-brushes, has for its object effecting economy in the cost of their manufacture, rendering the brushes more durable, and facilitating the renewal of the brushes when worn out.

In carrying out my said invention, in order to effect these objects I form on or rivet or otherwise attach to the handle a stock or socket, which may be composed of either wood or metal, and is split or divided for a portion of its length, so as to be capable of expansion and contraction. The knot of bristles, having its end properly cemented, is introduced into the stock or socket when in its expanded condition, an elastic band being placed around the bristles at the portion of their length corresponding to the rear end of the stock or socket, so that such band shall be surrounded by the latter. A loose ferrule is then passed over the stock or socket from the handle end until it abuts against a flange shoulder projection or projections formed at or near the outer end of the stock or socket, whereby the latter is contracted and caused to press upon the knot of bristles and secure the same firmly in its place.

In order that my said invention may be fully understood, I shall now proceed more particularly to describe the same, and for that purpose shall refer to the several figures on the annexed sheet of drawings, the same letters of reference indicating corresponding parts in all the figures.

Figure 1 of the accompanying drawings represents a side elevation of a brush of the description known as "ground-brushes" constructed according to my said invention. Fig. 2 is a sectional elevation of the same, showing the parts detached and in the act of being put together so as to form the complete brush shown in Fig. 1. Fig. 3 illustrates, in eleva-

tion, the application of the invention to distemper-brushes.

Referring to Figs. 1 and 2, A is a stock or socket, which may be composed either of metal, as shown, or of wood, and be either riveted or otherwise attached to the handle B of the brush or formed thereon, according to circumstances. This stock or socket is split or divided for a portion of its length, as shown at *a a*, so as to be capable of expansion and contraction. When in its expanded condition, as shown in Fig. 2, it is ready for the reception of the knot of bristles C, the end of which has been properly cemented or otherwise secured, and after the introduction of the knot of bristles C into the stock or socket A a ferrule, D, is passed over the stock or socket from the handle end until it abuts against the projections or flange segments *b b*, formed on the stock or socket, (this position of the parts being indicated in Fig. 1,) whereby the stock or socket is contracted and caused to press upon the knot of bristles C and secure the same firmly in its place.

The knot of bristles is made up with a core, *c*, of cork or other suitable material, which may be either of a conical shape, as shown, or of a cylindrical or other form, if preferred, the bristles being either cemented round the core in a body or spirally bound round the same with narrow tape or twine. By these means the knot is rendered completely secure, while by cutting the core to a suitable form, so as to assist its expansion, it will be caused to press the bristles to the sides of the stock or socket, and thus prevent the paint from obtaining access to the interior of the stock or socket. Before the knot of bristles C is introduced into the stock or socket A an elastic band, *d*, is placed around the bristles at the portion of their length corresponding to the rear end, *e*, of the stock or socket, so that when the brush is made up the said band becomes interposed between the bristles and the contracted extremity *e* of the stock or socket, and the bristles are tightly held in their place, the contracted form of the end *e* of the stock or socket contributing, moreover, to this result.

By means of the said invention facility is afforded for adjusting the position of the knot

of bristles in the stock or socket so as to compensate for wear, and when the bristles become too short for use in a brush of an ordinary size they may be renewed, and the old bristles
5 may be utilized in the manufacture of the smaller class of brushes known as "sash-tools."

The invention is also applicable to distemper-brushes, an example of which is shown in Fig. 3, the several knots C of bristles being separately secured in split or divided stocks or
10 sockets A by ferrules D in the manner hereinbefore described with reference to the ground-brush, Figs. 1 and 2, and the whole of the stocks or sockets A being attached to a common handle, E.
15

The ferrule may be formed with sockets arranged at intervals around its periphery for the reception of the extremities of the wires of a skeleton wire guard, which is intended
20 to be placed on the brush so as to inclose the bristles when the brush is not in use, the object of the guard being to prevent the ends of the bristles from coming into contact with the bottom of the vessel containing water, into which
25 the brush may be placed when out of use, and thereby to avoid the injury to the brush which frequently occurs from that cause.

I am aware that it has been heretofore proposed to employ a split socket and sliding ferrule to confine the bristles of a brush. This, 30 therefore, I do not desire to claim, broadly; but

I claim as my invention—

1. The combination of a handle having a split socket secured thereto with a sliding ferrule and a knot of bristles secured to a core
35 and adapted to be inserted in said socket, all as set forth.

2. The combination of the split socket and sliding ferrule with the knot of bristles having a band, *d*, as and for the purpose set forth. 40

3. The combination of the knot of bristles with the sliding ferrule and split socket having a contracted lower end, *e*, as set forth.

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

EDWARD WRIGHT.

Witnesses:

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JOSEPH G. MAYHEW.

Both of 47 Lincoln's Inn Fields, London.