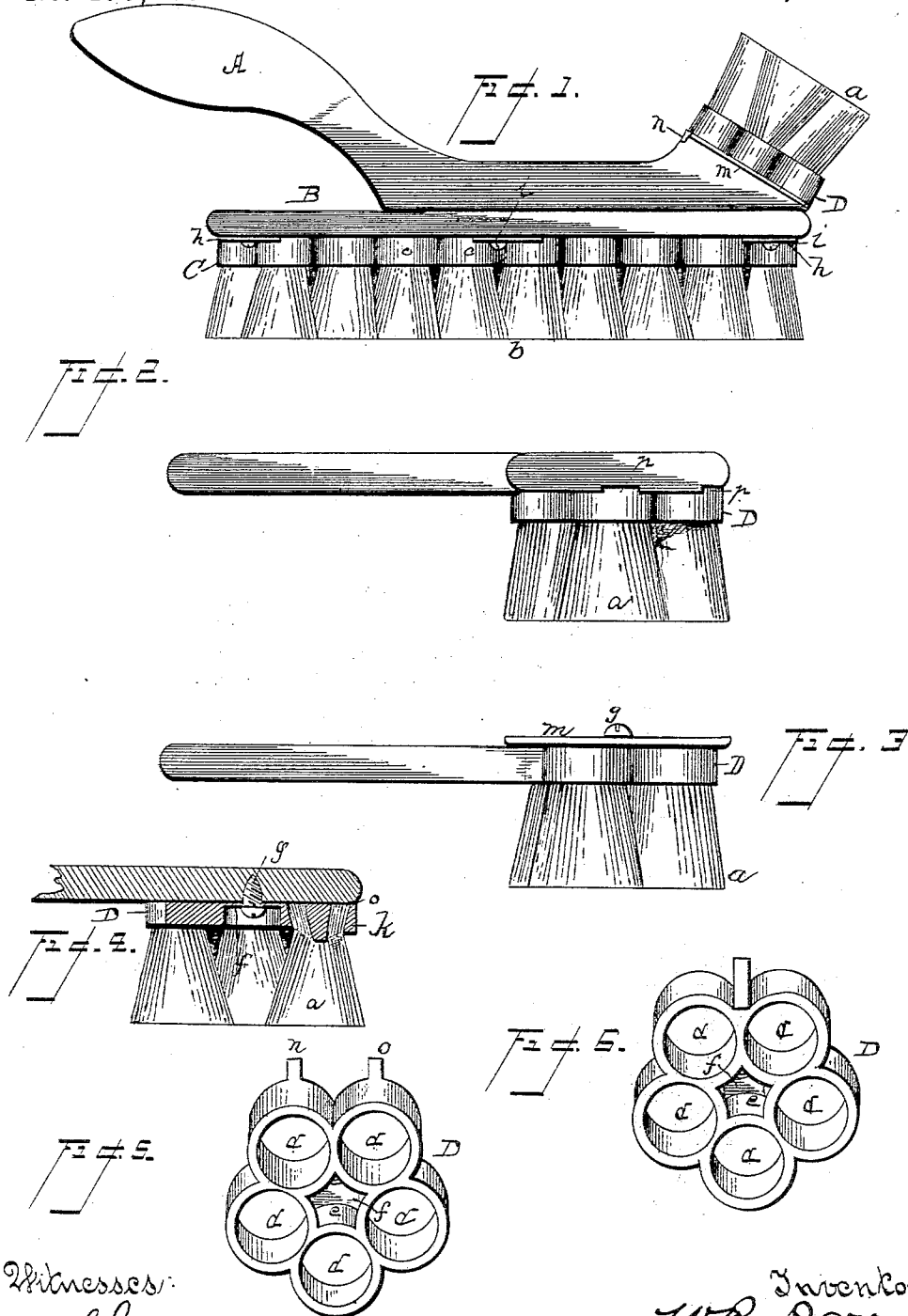


(No Model.)

W. R. DERR.
BLACKING BRUSH.

No. 476,449.

Patented June 7, 1892.



Witnesses:
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Inventor:
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UNITED STATES PATENT OFFICE.

WILLIAM R. DERR, OF BALTIMORE, MARYLAND.

BLACKING-BRUSH.

SPECIFICATION forming part of Letters Patent No. 476,449, dated June 7, 1892.

Application filed September 6, 1890. Serial No. 364,194. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. DERR, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Blacking-Brushes; and I do 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to brushes, and especially to blacking-brushes, and has for its object to strengthen, lighten, and generally improve them.

With this object in view my invention consists in the improved construction, arrangement, and combination of parts hereinafter fully described, and afterward specifically pointed out in the claims.

In the drawings, Figure 1 is a view in side elevation of a blacking-brush embodying my invention. Fig. 2 is a view in side elevation of a dauber-brush embodying my invention. Fig. 3 is a similar view of a dauber having a metal backing for the bristles; Fig. 4, a section through the head of the dauber shown in Fig. 2. Fig. 5 is an isometric view of a dauber-head frame having two retaining-prongs, and Fig. 6 is a similar view of a dauber-head frame with a single prong.

Like letters of reference mark the same parts wherever they occur in the various figures of the drawings.

Referring to the drawings by letters, A is the wooden handle of a blacking-brush of a well-known form, and B is the wooden body thereof, *a* being the bristles of the dauber and *b* the bristles of the main brush or polisher.

C is a frame, of any suitable material, preferably of cast metal, in which the bristles of the polisher are secured, and D a somewhat similarly-constructed frame to receive the bristles of the dauber.

In Figs. 2 and 3 I have shown daubers separate from the polishers, while in Fig. 1 the dauber and polisher are secured together in a single complete structure. The metal bristle-retaining frame D of the dauber consists of a number of rings, (preferably five,) as at *d*

d, &c., joined together in a single casting. A central space *e* between them is open at its outer end, but closed by the wall *f* at its inner end, except a small perforation or hole through said wall to receive the screw *g*, which secures the frame to the wood.

The frame C for the polisher consists, also, of a number of similar rings, as at *c*, &c., joined together in a single body, as specially shown in Fig. 1, flanges *h* being provided at proper intervals for securing the frame to the wood back by means of screws, nails, or tacks *i*.

The rings of the polisher and dauber are of the same construction individually, being thicker at their outer ends than at their inner ends, so that the spaces inclosed are tapering, being largest at their inner ends, the bunches of bristles being held from pulling outward by means of a tapering plug *k*, driven into the bunch of each ring from the inside, the bristles and plug being properly secured by cement and the inner end of the bristles being cut off flush with the inside of the frame.

The frame C of the polisher, having been furnished with bristles, is placed upon the body by the screws, nails, or tacks *i*, and securely held, as shown, all backward strain being removed from the bunches of bristles by their bearing against the body, which tends to force them always into the tapering rings *c*.

In the dauber the bunches of bristles are secured in the same way and the frame and bristles fastened to the body by means of the central screw. The wood E of the separate daubers (shown in Fig. 2) being of the full width of the metal frame D, forms a backing for the bristles in the manner described for the polisher, but the wood A of the handle to which the bristle-frame of the dauber is fastened (in Fig. 1) being of less width than the metal frame, a sheet-metal backing *m* is used to serve the purpose of the wood backing in the other structures. A similar metal backing is used in the dauber shown in Fig. 3. There being only a single screw to hold the dauber-frame, there is a tendency to turn and loosen the frame in use. This is obviated by means of the retaining-prongs *n* and *o*, there being a single one or two, as desired, for either construction, although for the construction shown in Fig. 1 two are preferred, they straddling the wood A of the handle, while one is

preferred for the structure shown in Fig. 2, the single prong entering a hole in the wood. The one prong might, however, be used in the structure shown in Fig. 1 in the same manner, and the two prongs would serve in the separate dauber.

pp in Fig. 2 are flanges for embracing the wood of the dauber to further secure the structure and to protect the corner of the wood, and they are extensions of the upper portions of the rings of the bristle-frame. Such flanges might be used, if desired, on the bristle-frame of the polisher for the same purpose.

Blackening-brushes made in accordance with my invention are light, strong, neat in appearance, durable, and cheap, and are believed to be a great improvement over anything of the kind now in use.

Having thus fully described my invention,

what I claim as new, and desire to secure by Letters Patent of the United States, is—

1. A cast-metal bristle-frame for brushes, consisting of a group of tapered rings in a single piece, having a central separating-opening closed on one side by a perforated plate, through which the central fastening-screw may be passed, as set forth.

2. A cast-metal bristle-frame consisting of a group of tapered rings cast together, provided with a central opening through which to introduce the fastening-screw, and prongs to engage the wood of the brush to prevent turning and loosening, as set forth.

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

WILLIAM R. DERR.

Witnesses:

JNO. T. MADDOX,
CHAS. C. STIEFF.