

(No Model.)

J. H. DAVIS.
FLUE BRUSH.

No. 497,636.

Patented May 16, 1893.

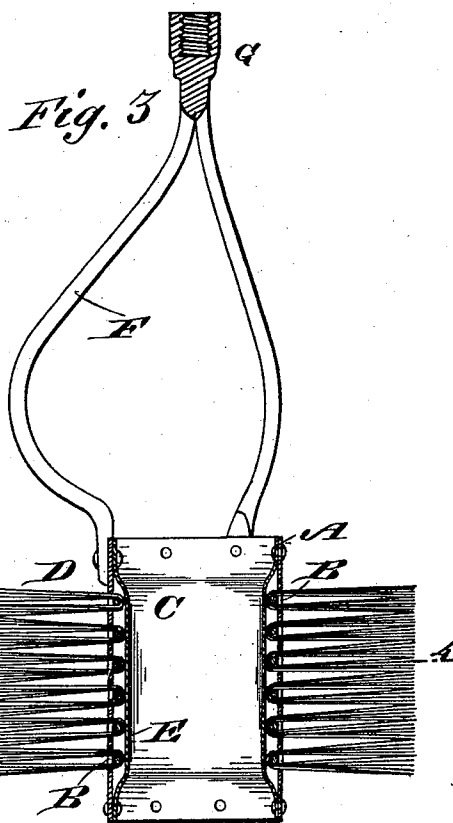
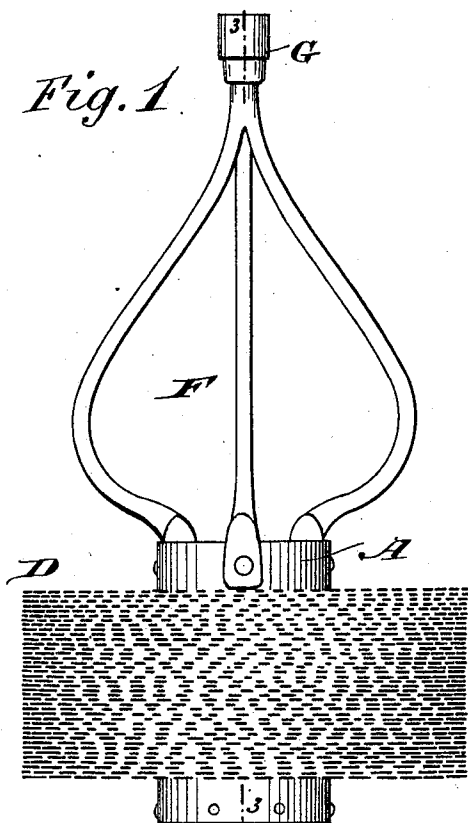
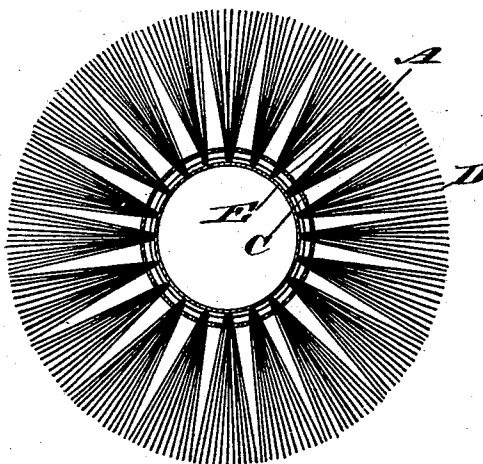
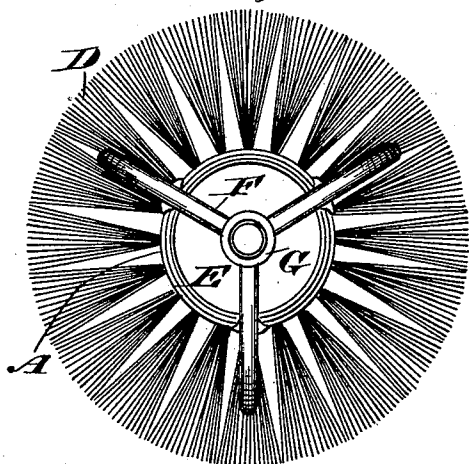


Fig. 2

Fig. 4



WITNESSES:

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UNITED STATES PATENT OFFICE.

JOSEPH H. DAVIS, OF SEWICKLEY, PENNSYLVANIA.

FLUE-BRUSH.

SPECIFICATION forming part of Letters Patent No. 497,636, dated May 16, 1893.

Application filed July 12, 1892. Serial No. 439,812. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH HORATIO DAVIS, of Sewickley, in the county of Allegheny and State of Pennsylvania, have invented a new and Improved Flue-Brush, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved flue brush, which is simple and durable in construction, very effective in operation, not liable to get out of order, and arranged to securely hold the bristles in place.

The invention consists of certain parts and details, and combinations of the same, as will be hereinafter described and then pointed out in the claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the improvement. Fig. 2 is a plan view of the same. Fig. 3 is a transverse section of the same on the line 3—3 of Fig. 1; and Fig. 4 is a sectional plan view of the same on the line 4—4 of Fig. 3.

The improved flue brush is provided with a tube A, of suitable length and diameter, and formed with rows of apertures B, the number of rows corresponding to the height of the bristles for the brush.

On the inside of the tube A and for each row of apertures B is arranged a wire C, carrying the bristles D, made of suitable material and each formed of a number of individual bristles bent over at the middle and over the wires and passed through the respective opening B in the tube A to the outside of the same, so as to extend from the latter, as shown, the doubled up end however being inside of the tube and passed around the respective wire C. The latter, as well as inner ends of the bunches of bristles are covered by a lining E, made in the shape of a tube riveted or otherwise fastened at its ends to the ends of the tube A, so that no

material can pass to the wires from the inside of the tube. As shown in the drawings, some of the rivets or other fastening devices for the upper end of the lining also pass through the arms of the guide F, provided at the upper end with the usual socket G, for attaching the handle of the brush. It is understood that the arms of the guide F are curved outwardly so as to form a guide for the brush in the tube to be cleaned. It will be seen that by this construction the inner bent over end of each bunch of bristles is completely protected by the lining E so that the brush will last until the bristles are worn off at their outer ends.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. A flue brush, comprising a tube provided with rows of apertures for the passage of the bristles, a wire fitted on the inside of the tube for each row of apertures, bunches of bristles bent over on the said wire and each passed through an aperture in the said tube, and a tubular lining attached at its ends to the said tube at the inside thereof, and forming a cover for the said wires and bent over ends of the bristles, substantially as shown and described.

2. A flue brush, comprising a tube provided with rows of apertures for the passage of the bristles, a wire fitted on the inside of the tube for each row of apertures, bunches of bristles bent over on the said wire and each passed through an aperture in the said tube, a tubular lining attached at its ends to the said tube at the inside thereof, and forming a cover for the said wires and bent over ends of the bristles, and a guide formed of curved arms fastened to the ends of the said tube, and provided at their upper ends with a handle socket substantially as shown and described.

JOSEPH H. DAVIS.

Witnesses:

JOHN R. CLARK,
JOHN SWAN, Jr.