

No. 624,336.

Patented May 2, 1899.

G. B. HUSSEY.
BRUSH.

(Application filed Apr. 14, 1898.)

(No Model.)

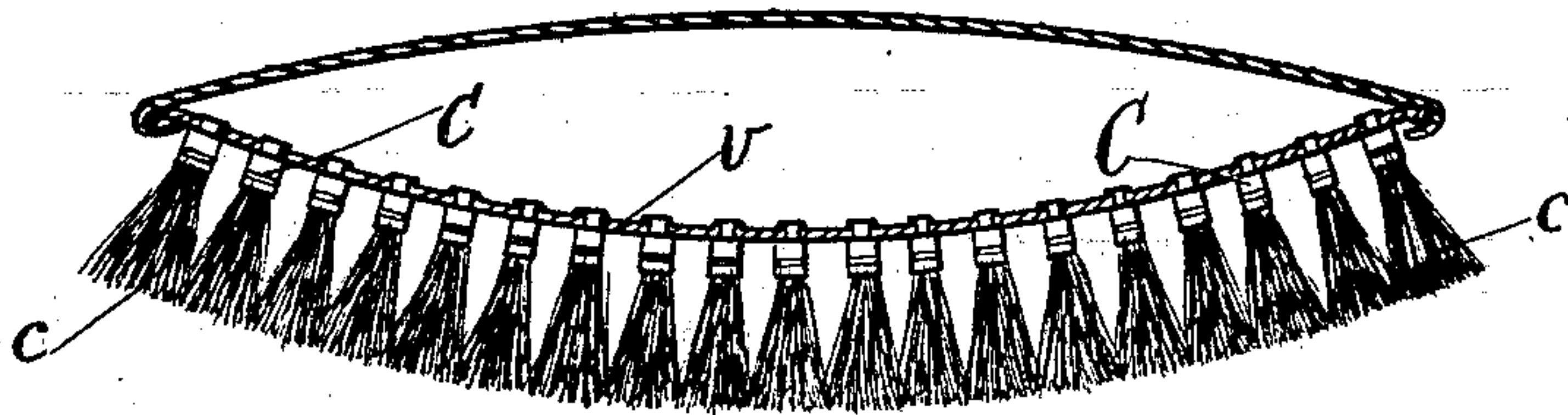


Fig. 1.

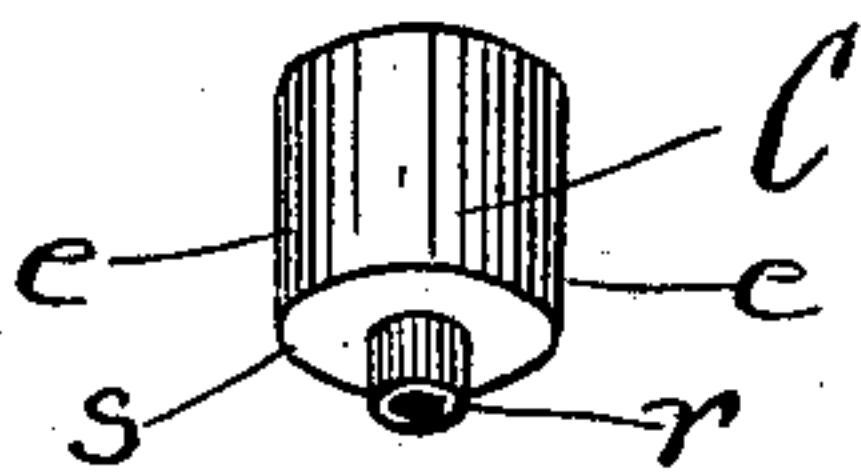


Fig. 2.

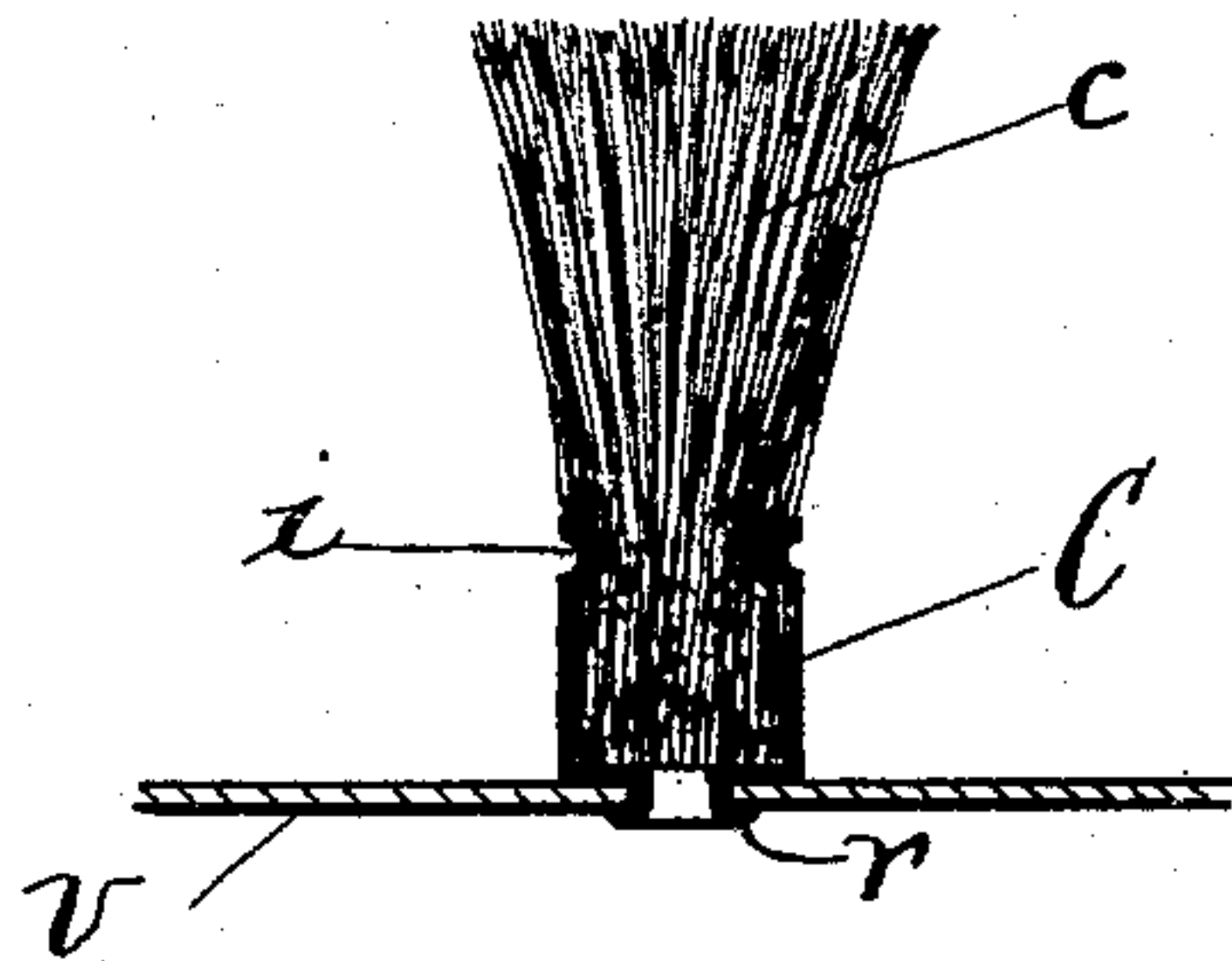


Fig. 3.

Fig. 5

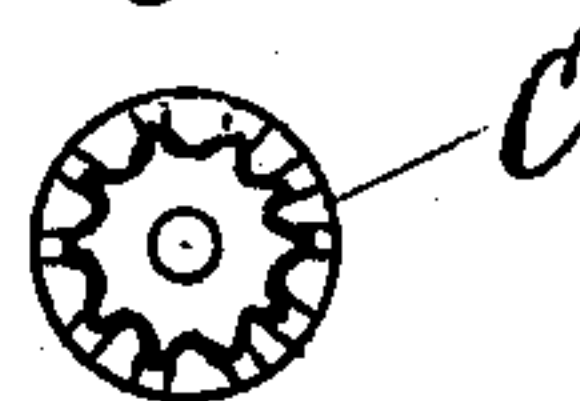
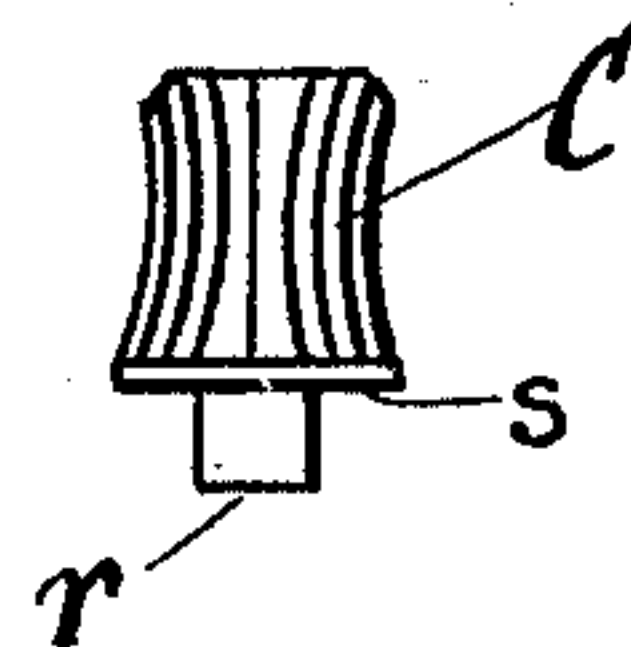


Fig. 4



Witnesses

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UNITED STATES PATENT OFFICE.

GEORGE B. HUSSEY, OF PROVIDENCE, RHODE ISLAND.

BRUSH.

SPECIFICATION forming part of Letters Patent No. 624,336, dated May 2, 1899.

Application filed April 14, 1898. Serial No. 677,529. (No model.)

To all whom it may concern:

Be it known that I, GEORGE B. HUSSEY, of Providence, in the county of Providence and State of Rhode Island, have invented certain
5 new and useful Improvements in Brushes; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked
10 thereon, which form a part of this specification.

This invention relates to the manner of constructing brushes, more particularly to the mode of holding the bristles or their equivalents in the brushes. It is fully explained and illustrated in this specification and the
15 accompanying drawings.

Figure 1 represents a cross-section of a brush, showing the general arrangement of
20 the holding-tubes and the bristles. Fig. 2 shows one of the tubes for holding the bristles separate. Fig. 3 is a vertical section through the center of one of the tubes filled with bristles and secured to a plate. Fig. 4 shows
25 another way of closing the tube on the bristles to retain them in place. Fig. 5 is a top view of the tube shown in Fig. 4.

The object of this invention is to provide a device for holding the bristles or their equivalents that can readily be attached to sheet
30 metal to be wrapped around a cylinder to form a roller-brush for machine use or to be secured by such plate or separately to blocks of wood or other material to make brushes
35 for any of the general uses they are put to.

The construction and use of the parts are as

follows: A tube C, Fig. 2, is swaged or drawn out of sheet metal, with a large part *e*, made to hold the bristles *c*, and a reduced portion *r*, by which to secure it to the plate *v*, and having a well-defined square-cornered shoulder
40 *s* between the two parts. Then the bristles *c* in a tuft either doubled or cut square across the end, with or without cement, are inserted by one end into the larger portion *e* of the
45 tube, and a groove *i* is rolled in the periphery to close the metal in on the bristles to keep them in, or the tube may be compressed with fluted corrugations, as in Figs. 4 and 5, to retain the bristles in them. This tube C
50 after the bristles have been secured in it has its small part *r* put through a hole made in the plate *v* to receive it, and the lower end is opened out and clenched on the plate *v* after
55 the manner of an eyelet, so as to draw the shoulder *s* down snug to the plate *v* and hold it fast.

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

In a brush a back-plate, a plurality of tubes each having a larger portion to hold bristles, and a smaller tubular portion to secure it to the plate by spreading open and
65 clenching on the under side of the plate, substantially as described.

In testimony whereof I have hereunto set my hand this 12th day of April, A. D. 1898.

GEORGE B. HUSSEY.

In presence of—

BENJ. ARNOLD,
HOWARD E. BARLOW.