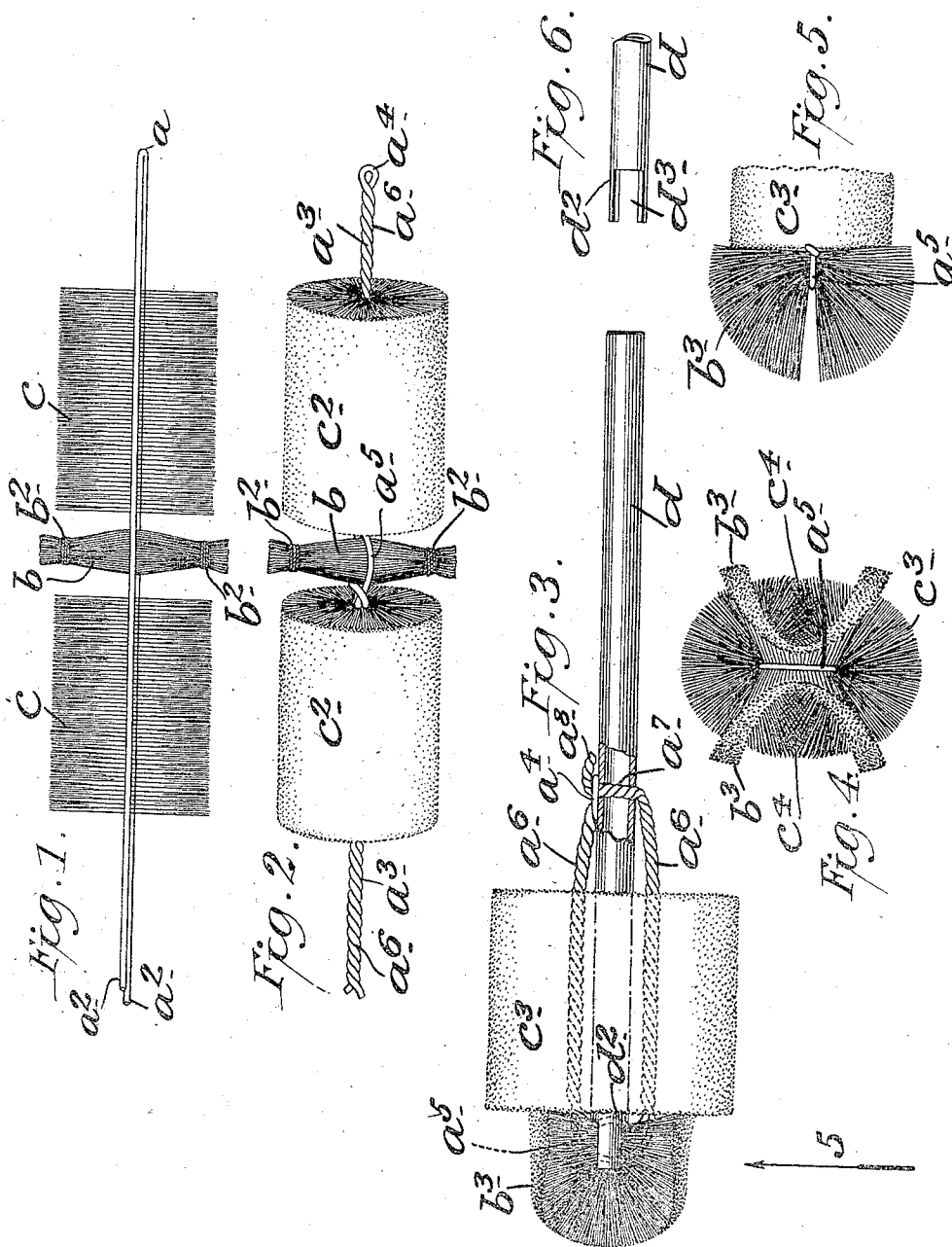


1,034,576.

Patented Aug. 6, 1912



WITNESSES

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BOTTLE-BRUSH.

1,034,576.

Specification of Letters Patent.

Patented Aug. 6, 1912.

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To all whom it may concern:

Be it known that I, WILLIAM P. BRAUN, a citizen of the United States, and residing at Evergreen, Brooklyn, in the county of Queens and State of New York, have invented certain new and useful Improvements in Bottle-Brushes, of which the following is a specification, such as will enable those skilled in the art to which it appertains to make and use the same.

The object of this invention is to provide an improved brush for use in cleaning lamp chimneys, bottles, jugs, jars and similar vessels; a further object being, to provide a brush of this class which is conveniently, cheaply and easily made, and which is strong and durable, and at the same time comparatively inexpensive.

The invention is an improvement on that described and claimed in the U. S. Letters Patent, granted to me January 5, 1904, Number 748,917, and is fully disclosed in the following specification, of which the accompanying drawing forms a part, and in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:—

Figure 1 is a plan view showing the first step in the construction of making my improved brush:—Fig. 2 a similar view showing the brush partially completed:—Fig. 3 a similar view showing the brush complete:—Fig. 4 an end view looking in the direction of the arrow 4 of Fig. 3, Fig. 5 a side view of one end portion of the brush looking in the direction of the arrow 5 of Fig. 3, and Fig. 6 a side view of one end portion of the handle of the brush.

In the practice of my invention I take a strong wire, and fold the same centrally as shown at *a* Fig. 1, to form two parallel members *a*², and between the parallel wire members *a*², and centrally thereof, I place a bunch *b* of bristles, sea-grass, or other suitable material, the ends of which are tied together as shown at *b*². At each side of the central bunch *b* of bristles, or other suitable material, and at a short distance therefrom, I place between the wire members *a*², and longitudinally thereof, as shown at *c*, bristles, sea-grass, or other suitable material, this material being arranged in sheets, and the separate wire members *a*² are then firmly twisted together as shown at *a*³ in Fig. 2, which operation forms at one end of said

wire members a loop or ring *a*⁴, and centrally thereof a loop *a*⁵ through which the bunch or bundle *b* of bristles, or other suitable material passes, and in which said bunch or bundle is securely bound, and this operation of twisting the wire members *a*² together as shown in Fig. 2, causes the bristles, or other material *c*, to form cylindrical brush members or sections *c*², as shown in Fig. 2. I also provide a tubular handle *d* of the end portion *d*² of which is provided with deep transverse recess *d*³, and the central loop portion *a*⁵ in which the central bunch or bundle *b* of bristles, or other material, is bound, is placed transversely in the recess *d*³ of the handle, one side of said loop *a*⁵ fitting in the bottom of said recess so that the said bunch or bundle *b* of bristles, or other suitable material, is securely bound in said recess. The separate end portions *a*⁶ of the twisted wire members *a*³ are then drawn tight along the sides of the handle *d* as shown in Fig. 3, and the end *a*⁷ is passed transversely through the handle, and through the loop or ring *a*⁴ in the other end, and is drawn tightly, and cut off, and pressed down on or parallel with the handle as shown at *a*⁸. At the end of this operation, or before the twisted wire members *a*³ are secured to the handle, the bindings *b*² at the ends of the bunch or bundle *b* of bristles, or other suitable material, are cut, and the said ends allowed to spread, and the said end portions of the bunch or bundle *b* of bristles or other material, assume the form shown at *b*³ in Fig. 4, said form consisting of two oppositely directed U shaped portions which form radial wings, which preferably project slightly beyond the said body of the brush.

In the operation of securing the brush members to the handle above described the cylindrical brush members *c*² shown in Fig. 2 are divided centrally and longitudinally of one side so that the handle *d* will fit between the same, and this forms a brush body *c*³ the bristles or other material, of the brush members *c*² interlocking as shown at *c*⁴, and as will be readily understood.

The U shaped brush members *b*³, at the end of the brush body particularly adapt my improved brush for use in cleaning bottles, jugs, jars and similar vessels, and especially the bottoms of such vessels, and while I have shown the handle *d* as tubular in form, this is not essential, all that is

necessary in this connection being that a suitable handle having the recess a^3 in one end thereof, be provided, and that one of the twisted wire members a^6 be passed there-
 5 through as shown in Fig. 3, but other means may be provided, if desired, for securing the ends of the twisted wire members to the handle.

It will be observed that the bristles, or
 10 other material, from which the central bunch or bundle b is formed are longer than the bristles, or other material c , or which make up the sheet c , and this enables the wing members b^2 at the outer end of the
 15 brush to project beyond the brush body b^3 as shown, but this projection of said wings beyond said brush body is not an essential element of my invention.

Having fully described my invention
 20 what I claim as new and desire to secure by Letters Patent is:—

1. A brush composed of wires twisted to-
 25 gether and folded centrally to form parallel parts connected at one end by said fold in which is formed a loop, brush material held between the twisted wires of said parallel parts for a portion of their length, a transverse body of brush material held in

said loop, and a handle placed between said parallel parts and one end of which is pro- 30
 vided with a transverse recess in which said loop fits, and the free end portions of said parts being secured to said handle.

2. A brush composed of wires twisted to-
 35 gether and folded centrally to form parallel parts connected at one end by said fold in which is formed a loop, brush material held between the twisted wires of said parallel parts for a portion of their length, a trans-
 40 verse body of brush material held in said loop and longer than the brush material held between the wires of said parallel parts, and a handle one end portion of which is
 45 placed between said parallel parts and provided with a transverse recess in which said loop fits, the free end portions of said parts being secured to said handle.

In testimony that I claim the foregoing as my invention I have signed my name in
 50 presence of the subscribing witnesses this 26th day of January 1912.

WILLIAM P. BRAUN.

Witnesses:

C. E. MULREAMY,
 S. ANDREWS.