Dec. 16, 1924. 1,519,335

W. H. RUDOLPH ET AL

HANDLE FOR MOPS, BRUSHES, AND THE LIKE

Filed Jan. 13, 1922

Fig. 1.

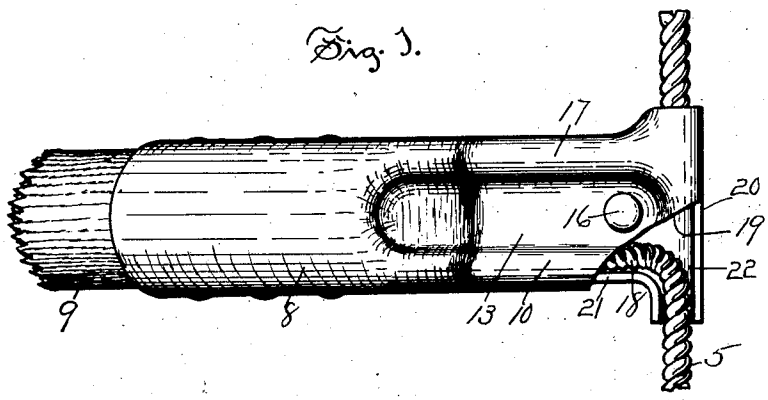



Fig. 3.

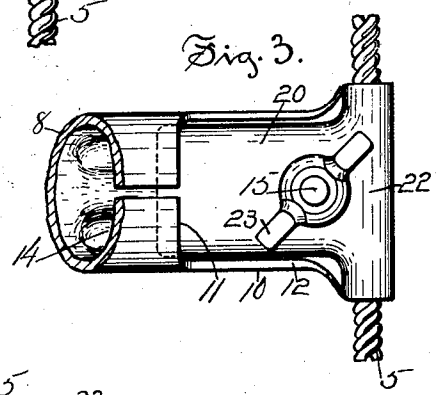



Fig. 2.

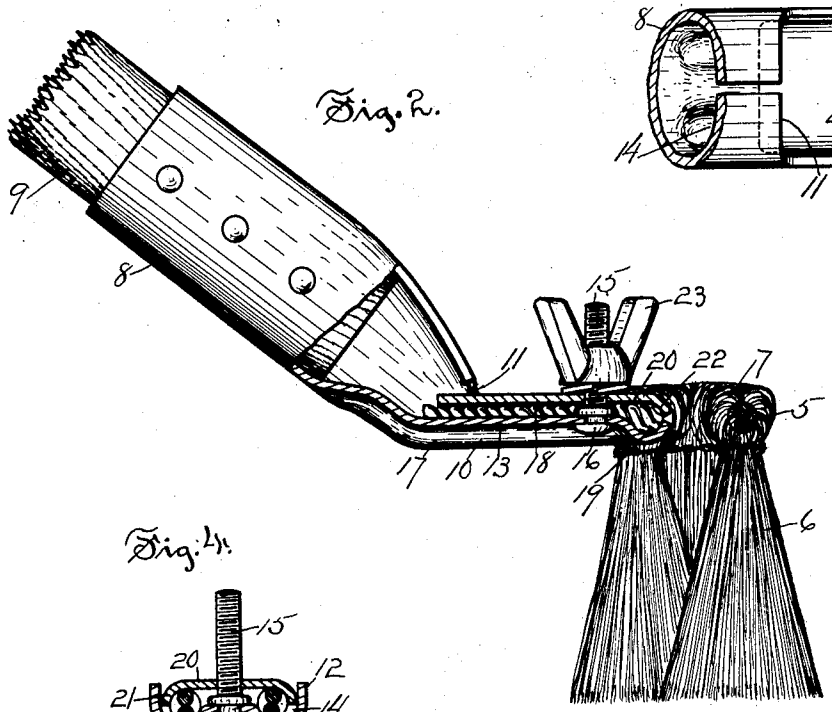



Fig. 4.




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# UNITED STATES PATENT OFFICE.

WALTER H. RUDOLPH AND WALLACE S. HART, OF HARTFORD, CONNECTICUT, ASSIGNORS TO THE FULLER BRUSH COMPANY, OF HARTFORD, CONNECTICUT, A CORPORATION OF CONNECTICUT.

## HANDLE FOR MOPS, BRUSHES, AND THE LIKE.

Application filed January 13, 1922. Serial No. 528,961.

*To all whom it may concern:*

Be it known that we, WALTER H. RUDOLPH and WALLACE S. HART, each a citizen of the United States, and a resident of Hartford, in the county of Hartford and State of Connecticut, have invented a new and Improved Handle for Mops, Brushes, and the like, of which the following is a specification.

Our invention relates more especially to the class of devices for attaching a handle to a mop, brush or similar article, and an object of the invention, among others, is to provide a device of this class that shall be strong and durable, and that may be readily affixed to or detached from a brush or the like, and one that shall be simple in construction.

One form of device embodying our invention and in the construction and use of which the objects herein set out, as well as others, may be attained, is illustrated in the accompanying drawings, in which—

Figure 1 is a bottom view of our improved handle attaching device.

Figure 2 is a side view illustrating this device as attached to a brush, with parts broken away to show construction.

Figure 3 is a top view illustrating the method of attachment of our improved device to a brush or the like.

Figure 4 is a detail view in cross section through the clamp illustrating its construction and method of attachment.

In the accompanying drawings the numeral 5 illustrates the frame of a brush, of common construction, that embodies a twisted arrangement of wires within which the material 6 comprising the brush is secured during the twisting operation, the frame 5 and the brush material secured thereto comprising a brush head 7. This brush, or a mop or other structure, to which a handle is to be secured may be of any desired form, as oblong and the ends of the wires comprising the frame 5 are bent at an angle to the head 7 to serve as a means of attachment for a handle to said head.

A socket 8 is suitably formed as from sheet metal to receive a handle 9 that may be of wood or other suitable material, this handle being inserted in the socket 8 to a distance to insure a firm and strong hold. The handle may be secured within the socket as by means of rivets. The lower end of the socket is formed into a clamp member 10 that is bent at an angle to the socket 8, one side of the socket being cut away so that when the member 10 is located at an angle to the socket as above described an opening 11 will be created between the member 10 and the end of the opposite side of the socket.

The member 10 is formed with sides 12 oppositely disposed and a groove 13 is also made in this member 10 extending lengthwise thereof along the central portion, the formation of the groove 13 also creating grooves 14, extending lengthwise along the member 10 on opposite sides of the groove 13.

A clamp screw 15 is secured to the member 10, the head 16 of this screw being located within the groove 13, the ribs 17 existing by reason of the grooves 13 and 14 enclosing the head 16 so that it will not come in contact with articles of furniture or the like to mar them. The grooves 14 on opposite sides of the groove 13 receive the ends 18 of the frame 5, which ends as hereinabove described, are bent at an angle to the head 7. A crosswise groove 19 is also formed in the member 10 to receive that portion of the frame 5 from which the ends 18 extend, and as shown in Fig. 1 of the drawings.

A clamp plate 20 is formed of a width to fit between the sides 12, this clamp plate having down-turned edges 21, forming a recess corresponding in a measure with the grooves 14, and this clamp plate has also an end 22 formed with a groove to correspond to the groove 19 in the member 10 and to receive the sides of the frame in a similar manner. The end of the clamp plate extends through the opening 11 into the recess in the socket as shown in Fig. 2, suitable means as a thumb screw 23 fitted on the clamp screw 15 serving to hold the outer end of the clamp plate in place, the securing of the clamp plate being aided by the insertion of its end into the opening 11.

We claim—

1. A holder comprising a socket member having an angularly disposed plate extension provided at its end with transversely disposed lateral projections, said end being curved through said projections to form a transversely extending groove, said extension being curved to form longitudinally extending parallel side grooves communicating at their outer ends with said trans-

verse groove, the intermediate portion of said extension being disposed above the side grooves and having an opening therein for receiving the headed end of a holding element with the head of said element positioned inwardly of the outer faces of said grooves, and means associated with the plate extension and holding element for clamping wires in said groove.

2. A holder comprising a supporting member having an angularly disposed plate extension, a clamp member associated with the plate extension, one of said members being provided at its end with transversely disposed lateral projections, said end being curved through said projections to form a transversely extending groove, and one of said members being curved longitudinally to form parallel side grooves communicating at their outer ends with said transverse groove, a portion of said member between said parallel grooves being disposed in a different plane from the side grooves and having an opening therein for receiving the headed end of a holding element, with the head of said element positioned inwardly of the outer faces of said grooves, and means associated with the plate extension and clamp member for clamping wires in said grooves.

3. A holder comprising a supporting member having an angularly disposed plate extension, a clamp member associated with the plate extension, one of said members being provided at its outer end with a groove extending transversely thereof and formed by a bend extending into the outer surface of said member and transversely thereof and said member being curved to form a longitudinally extending groove communicating at its outer end with said transverse groove and having an opening therein, a holding element located in said opening in the crosswise center of said member, and means associated with said holding element for clamping wires in said grooves.

4. A holder comprising a supporting member having an angularly disposed plate extension, a clamp member associated with the plate extension, one of said members being provided at its end with a transversely extending groove and one of said members being depressed in its outer surface for the reception of a holding element, and forming a projection on the inner surface of the member for the reception of parallely disposed brush wires upon opposite sides thereof, and a holding element extending through a hole in said projection and including means for forcing said supporting and clamping members toward each other.

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