

Sept. 15, 1931.

G. J. R. THAMM
VACUUM CLEANER BRUSH
Filed Oct. 24, 1928

1,823,071

Fig. 1.

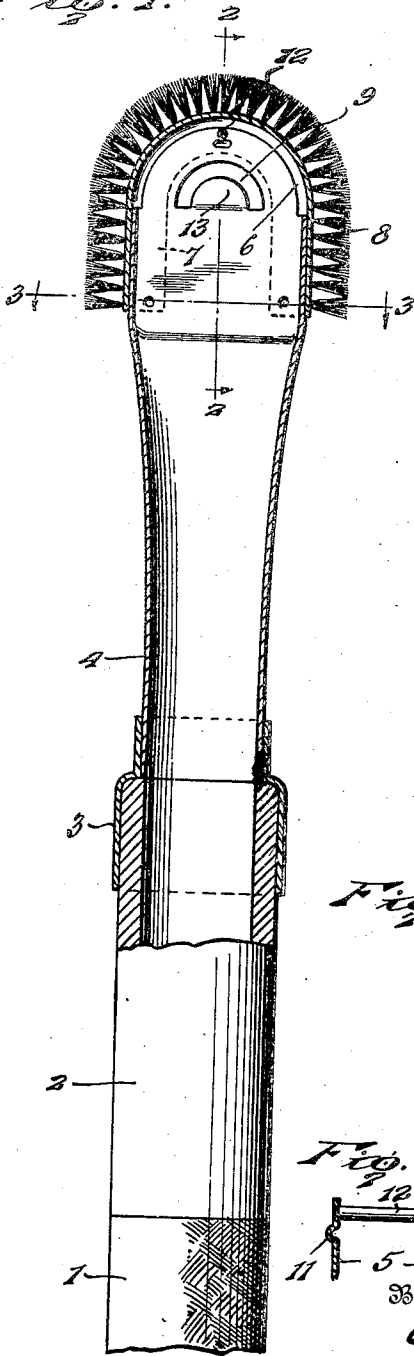


Fig. 2.

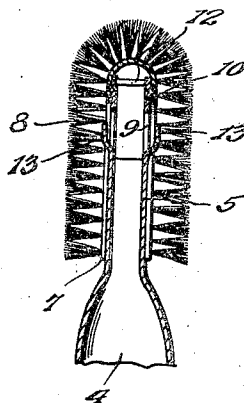


Fig. 3.

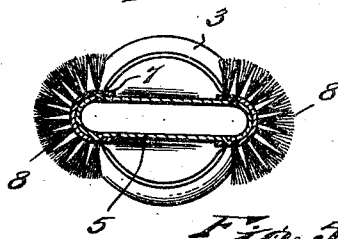


Fig. 5.

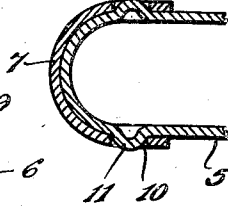


Fig. 4.

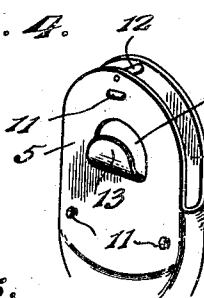
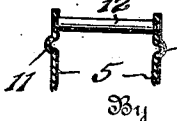


Fig. 6.



Inventor

Gustav J. R. Thamm.

Lacey & Lacey, Attorneys

UNITED STATES PATENT OFFICE

GUSTAV J. R. THAMM, OF NEW YORK, N. Y.

VACUUM CLEANER BRUSH

Application filed October 24, 1928. Serial No. 314,726.

The invention provides a brush attachment for vacuum cleaners, whereby dust may be removed from lamp shades and similar articles and furnishings without any possible injury to the delicate covering and trimming, yet insuring a thorough removal of the dust and like matter settling thereon.

While the drawings illustrate a preferred embodiment of the invention, it is to be understood that in adapting the means to meet specific needs and requirements, the design may be varied and such other changes in the minor details of construction may be resorted to within the scope of the invention as claimed, without departing from the spirit thereof.

For a full understanding of the invention and the merits thereof, reference is to be had to the following description and the drawings hereto attached, in which:—

Figure 1 is a central, longitudinal sectional view of a vacuum cleaning brush embodying the invention.

Figure 2 is a sectional detail on the line 2—2 of Figure 1 looking in the direction denoted by the arrows.

Figure 3 is a detail sectional view on the line 3—3 of Figure 1.

Figure 4 is a detail perspective view of the delivery end of the nozzle.

Figure 5 is an enlarged fragmentary, sectional view showing more clearly the snap connection between the brush and the nozzle.

Figure 6 is a fragmentary sectional view of the tip of the nozzle.

Corresponding and like parts are referred to in the following description and designated in the several views of the drawings by like reference characters.

The numeral 1 designates the flexible tube of a vacuum cleaner which is reinforced by a metal end 2. The numeral 3 denotes the collar which is adapted to be connected to the metal end 2 by means of a slip joint. The numeral 4 designates the nozzle which is connected to the collar 3 in any preferred way. The delivery end of the nozzle 4 is flattened as indicated at 5. The extremities of the flattened sides of the part 5 are spaced apart to form an opening, as indicated at 6.

A pin 12 gracefully connects the terminals of the flattened sides 5. Openings 9 are formed in the flat sides 5 through which air and dust are drawn when the nozzle is in active service. The openings 9 are formed by partly cutting portions from the sides 5 and pressing said portions outwardly, as indicated at 13. These parts 13 constitute tongues or deflectors to catch the dust and direct it through the openings 9.

A brush is fitted to the flattened end 5 of the nozzle and comprises a U-shaped head 7 to which is applied tufts 8 of bristles or other suitable brush material. The brush head 7 is channeled, or substantially of U-shape in cross section, to fit about and embrace opposite edges of the flattened end 5 of the nozzle and extend over and close the opening 6.

Openings 10 are formed in marginal or side portions of the brush head 7 in position to register with projections 11 pressed outwardly from the flattened sides of the end 5 to retain the brush in place when applied to the nozzle. The brush head 7 consists of sheet metal pressed into the required shape so as to snugly fit the flattened end of the nozzle. The projections 11 ride into the openings 10 and when sufficient force is applied the brush may be removed from the nozzle by the projections 11 riding out of the openings 10.

The device is used in substantially the same manner as any attachment applied to the outer end of the flexible tube of a vacuum cleaner, the dust being dislodged by the brush and drawn into the nozzle through the side openings 9, as will be readily appreciated.

The brush attachment may be readily applied to or detached from the nozzle, thereby admitting of the latter being used in the ordinary way, the dust being drawn in through the open end 6 and side openings 9. When the attachment is in position the open end 6 is closed by the head 7, the side openings 9 remaining uncovered to admit of dust being drawn therethrough into the nozzle. The U-shape of the brush head insures a close fit between the side portions thereof and the nozzle, since the distance between the legs is less than the width of the nozzle and said

legs are pressed apart when placing the attachment on the nozzle.

Having thus described the invention, I claim:—

5 1. A nozzle having a flattened end, the sides of which are spaced apart and provided with openings, a substantially U-shaped head hollow upon its inner side to snugly embrace the marginal portion of the nozzle and extend
10 across the end and along opposite side edges thereof, and tufts of brush material fitted to and projecting laterally from the said head.

2. The combination with a nozzle having a flattened end and having portions partly
15 cut from the flat sides and bent outwardly to form side openings and deflectors, a U-shaped head channeled upon its inner side to receive and snugly fit the marginal portion of the flattened nozzle end and extending across
20 and along the side edges thereof, brush material carried by the head, and interengaging means between the parts of the nozzle and head in contact consisting of complemental openings and projections.

25 3. A brush attachment for vacuum cleaners comprising a substantially U-shaped head of spring material, the legs of the U being sprung toward each other, said head being provided with bristles projecting outwardly
30 therefrom, said head being channeled upon its inner side and adapted to extend across the edge and embrace the sides of a flat nozzle.

In testimony whereof I affix my signature.

35 GUSTAV J. R. THAMM. [L. S.]

40

45

50

55

60