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F. E. BEAGLE

2,428,306

DUSTING BRUSH

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Fig. 1

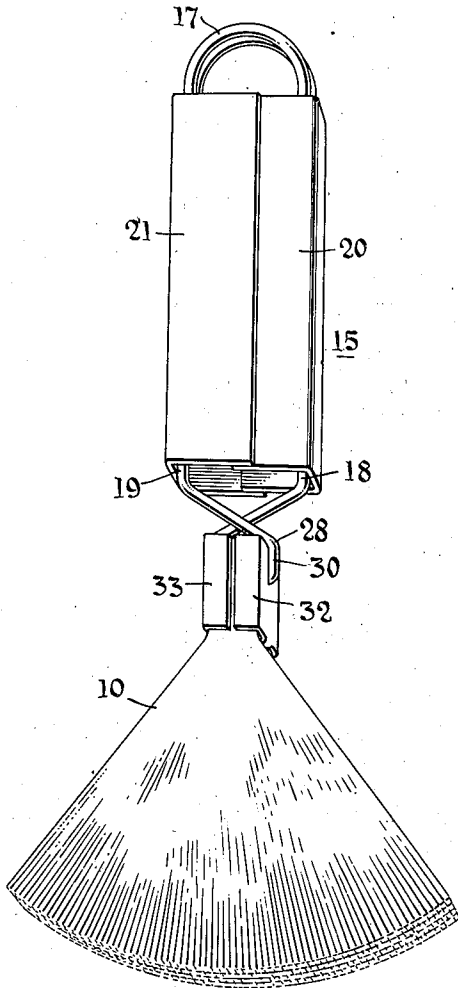


Fig. 2

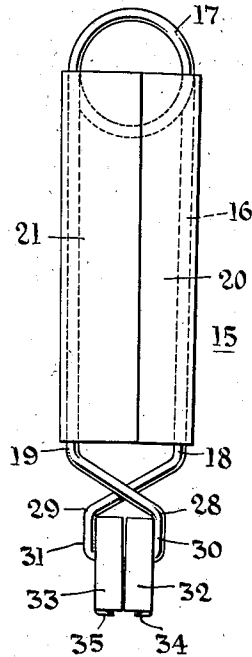


Fig. 3

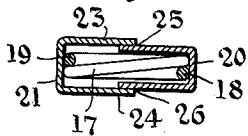


Fig. 4

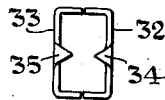
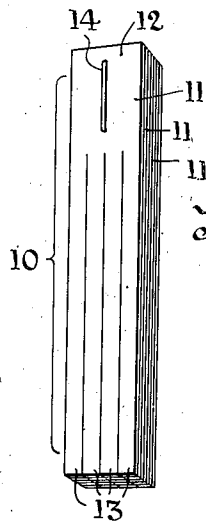


Fig. 5



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UNITED STATES PATENT OFFICE

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DUSTING BRUSH

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2 Claims. (Cl. 15-147)

1

The present invention relates to dusters, brushes or the like and more particularly to a novel detachable duster, or brush, made from disposable material for use in barber shops and beauty parlors.

The health department, for example, in some States, requires that dusters or brushes for brushing loose hair from each customer's face and neck be sterilized or discarded after such use. Sterilization is not practical and such brushes if they are to be discarded must be of inexpensive material.

Accordingly, an object of the present invention is to provide a novel brush made of disposable material such as paper, soft cellulose material or the like for use in barber shops and beauty parlors.

Another object is to provide a novel method of making brush inserts from strips of disposable material to thereby obtain a thick brush head and a shank or base portion particularly adaptable for attachment within a suitable handle or holder.

Another object is to provide a novel brush insert for use with a suitable holder, which insert is so shaped and so formed as to be handily packed and shipped in relatively small compact packages.

Another object is to provide a novel handle adapted to be retained for use with new duster or brush inserts for each new customer and arranged to release the used inserts to be thrown away by merely squeezing the handle.

A still further object is to provide a novel disposable duster brush made from sheets of soft flexible material in combination with an easily and cheaply manufactured handle designed to provide a quick detachable holder for such disposable material.

The above and other objects and advantages of the present invention will appear more fully hereinafter from a consideration of the detailed description which follows, taken together with the accompanying drawing, wherein the features of the present invention are illustrated. It is to be expressly understood, however, that the drawings are for the purpose of illustration and are not designed as a definition of the limits of the invention. Reference for this latter purpose should be had to the appended claims.

In the drawings wherein like reference characters refer to like parts throughout the several views:

Figure 1 is a perspective view of a novel holder with a novel duster insert therein ready for use.

2

Figure 2 is a side elevational view of the novel duster brush holder.

Figure 3 is a cross section view of the novel holder taken along the line 6-6 of Figure 1.

Figure 4 is a bottom end view of the brush clamping jaws of the novel duster brush holder.

Figure 5 is a perspective view of the novel duster brush insert as it appears when first removed from its container package and before it is inserted in the holder.

Referring to the drawing and first with particular reference to Figure 5, there is shown a brush duster insert 10, comprising a plurality of stacked elongated sheets 11, of a disposable material, such as soft paper, cellulose material or the like. Each of the elongated sheets 11 may be cut longitudinally so as to define an uncut shank portion 12 and a plurality of narrow strips 13.

The sheets 11 are fastened together by a suitable means, such as a staple 14, which is inserted through the several plies of stacked sheets 13 in the uncut shank portion 12 to hold them together at one end.

The several plies of elongated sheets 11 may, if desired, be cut before stacking and stapling to define the uncut shank portion 12; or stacked and stapled and then cut into narrow strips 13. Also, by another method the sheets 11, if they are of double length, may be cut into the duster strips 13 from each end to an intermediate doubly long uncut portion, which when creased and folded in half before stacking and stapling through the folded over uncut portion, define the hereinbefore referred to shank portion 12.

Thus, as shown in Figure 1, the insert 10, may have the stapled uncut shank portion 12 thereof inserted in the holder 15 with the strips 13 freely depending therefrom.

The holder 15 is of novel construction and comprises a forked wire frame 16 having a coil spring 17 at one end thereof, and a pair of legs 18 and 19 extending from the convolutions of the coil 17.

Fastened as by soldering or the like, to the leg 18 is a handle section 20, and similarly fastened to leg 19 is a handle section 21. Each handle section 20 and 21 may be shaped in cross section as shown in Figure 3, section 20 being relatively smaller than section 21, so as to be transversely slidable between the sides 23 and 24 of section 21. Normally when a brush insert 10 is in the holder 15, the outer longitudinal edges 25 and 26 of section 20 are always engaged between the outer longitudinal edges of the sides 23 and 24 of section 21.

The handles 20 and 21 may be substantially the

3 same length, but are each shorter than legs 18 and 19 of frame 16, which legs 18 and 19 are bent inwardly below the ends of the handle sections 20 and 21, so that they cross and extend to equidistant diverging points 28 and 29, see Figure 2. From each point 28 and 29 the legs 18 and 19 are bent downwardly into arms 30 and 31 on the inner facing sides of which are mounted jaws 32 and 33 of the duster brush holder 15.

The jaws 32 and 33 are U-shaped in cross section, see Figure 4, and are of substantially the same size, so that the peripheral edges of each U-shaped jaw are normally held in contact by coil spring 17 to thereby define a closed rectangular clamping ring for the reception of the shank 12 of the duster brush insert 10. The jaws 32 and 33 comprise a clamping ring or split sleeve which forms a socket for receiving the shank portion of the brush insert.

Integrally defined from the sides of each jaw 32 and 33, and bent inwardly toward each other are pointed lugs or teeth 34 and 35 adapted to bite into the material of the uncut shank 12, and thereby more readily retain the insert 10 between jaws 32 and 33, which as above stated are normally held clamped together by the action of coil spring 17, which biases arms 30 and 31 toward each other due to their crossed relation.

In actual use the handle sections 20 and 21 are squeezed together so as to spread apart the U-shaped jaws 32 and 33, whereupon the shank 12 of insert 10 is manually held therein until the pressure on the handle section is released and spring 17 clamps the jaws together and teeth 34 and 35 bite into the material of the shank 12.

The strips 13 are then spread apart and ruffed up, as shown in Figure 1 for use. After the barber has used the brush insert on a customer, he then may quickly detach the same by squeezing the handle sections 21 and 22 together to thereby release the shank 12 of the brush from between the jaws 32 and 33.

Thus there is provided a novel sanitary duster brush for barber shops and beauty parlors, which is economical and easily produced from different readily available materials and which complies with health regulations.

While the several features of the invention have been illustrated and described in considerable detail as an embodiment of only one form of the novel implement, other changes and modifications which will now appear to those skilled in the art

may be made without departing from the scope of the present invention. Reference is therefore to be had to the appended claims for a definition of the limits of the present invention.

5 Having thus described the invention what is claimed as new and desired to secure by Letters Patent is:

1. Means for dusting loose hair and the like from barber shop patrons comprising in combination a brush of disposable material and a handle for said brush, comprising a pair of transversely telescoping channel sections, a yieldable frame having a pair of elongated leg members, one of each of said leg members being secured within one of said channel sections, resilient means in one end of said frame adapted to exert a force tending to spread said leg members apart, a pair of crossed arms in the other end of said frame adapted to be drawn toward each other by said resilient means, and an oppositely disposed jaw member secured to the end of each of said arms adapted to form a split clamping ring for said brush.
2. A holder for disposable duster inserts comprising a forked spring-wire frame including spring means at the rear end thereof for urging the legs of said frame apart, the two legs of said frame being crossed at the front end thereof, a clamping socket for said duster inserts comprising a split sleeve having the two halves thereof carried by the crossed end portions of the legs of said frame and being urged into contact with each other by the action of said spring means, and a pair of handle sections each mounted on one of the legs of said wire frame, said handle sections comprising channel members arranged facing each other and having their sides extending towards each other in transversely telescoping relation.

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