March 4, 1958 A. BONGIOVANNI 2,825,080

COMBINATION BRUSH AND POWDER DISPENSER

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Fig. 1.

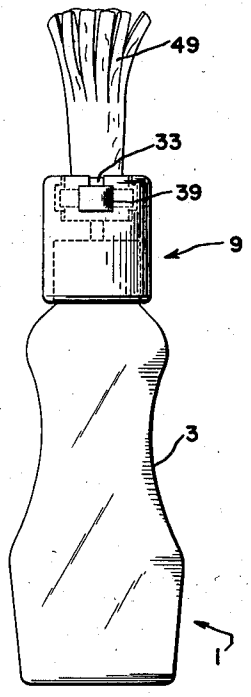


Fig. 2.

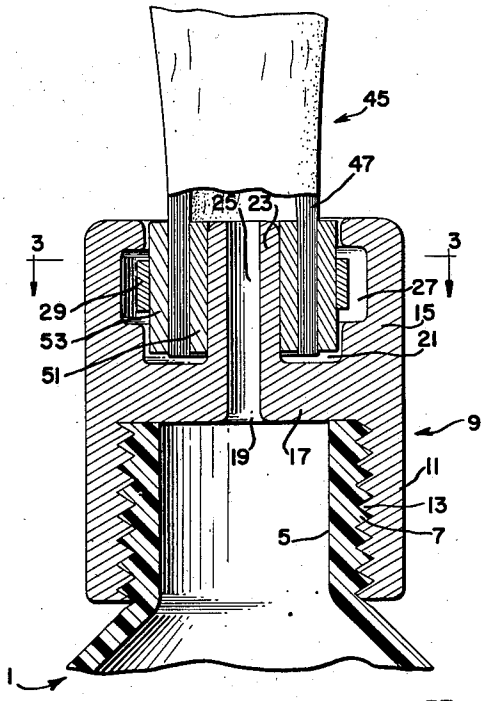


Fig. 3.

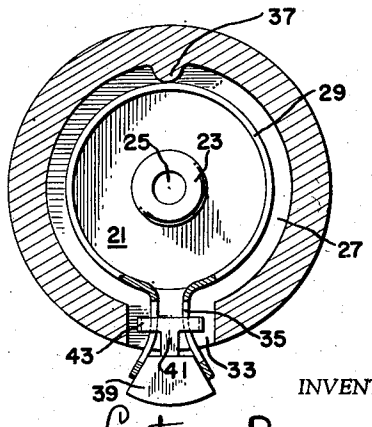
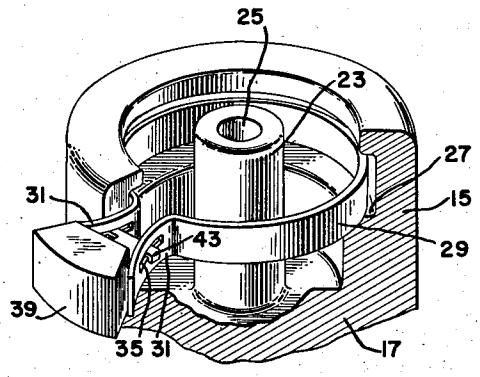


Fig. 4.



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COMBINATION BRUSH AND POWDER DISPENSER

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Fig. 5.

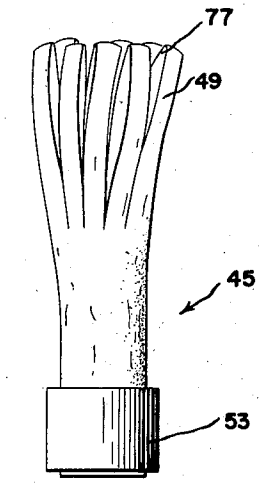


Fig. 6.

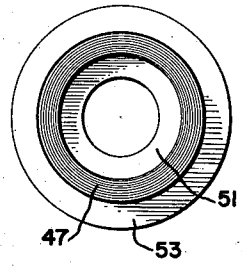


Fig. 7.

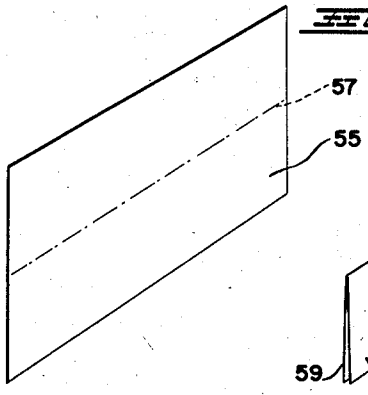


Fig. 8.

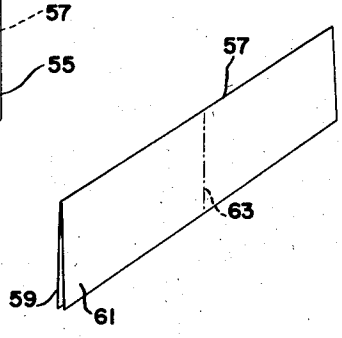


Fig. 9.

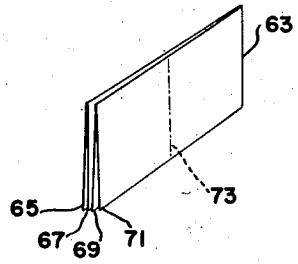


Fig. 10.

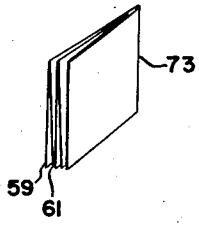
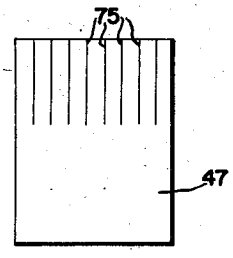


Fig. 11.



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COMBINATION BRUSH AND POWDER DISPENSER

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4 Claims. (Cl. 15—131.1)

This invention relates broadly to the barber's implement art and in its more specific aspects it relates to a combination neck brush and powder dispenser for use by a barber; and the nature and objects of the invention will be readily recognized and understood by those skilled in the arts to which it relates in the light of the following explanation and detailed description of the accompanying drawings illustrating what I at present believe to be preferred embodiments or mechanical expressions of my invention from among various other forms, arrangements, combinations and constructions, of which the invention is capable within the spirit and scope thereof.

It is conventional practice for barbers during the course of giving a hair cut to brush cut hair from the customer's neck and face and to apply powder thereto. In many jurisdictions the ordinances governing barber shops will not permit a neck brush to be used on different persons, hence after being used on a customer it must be disposed of and not re-used. Such health and sanitation requirements have caused various types of throw away brushes to be developed, among which are those which are formed from paper which is cut to provide a plurality of brushing strips. It has been my experience that such brushes or dusters do not function with the desired efficiency for the single thickness paper which is cut to provide the dusting strips or arms break off and in certain instances do not have the necessary degree of stiffness to properly perform their function.

It has been one of my objects to provide a throw away neck and face brush which has overcome the aforementioned and other defects which are inherent in conventional throw away brushes or dusters. In designing my brush or duster I have devised a unique laminated article which is endowed with many advantageous and novel characteristics.

It is now conventional practice for barbers to dust or brush the neck and apply powder thereto as two separate operations requiring the barber to use the duster and then apply the powder from a powder container. Obviously this is an inefficient and time consuming operation. I have evolved a combination brush and powder container whereby the brushing and powdering are done in one operation and simultaneously thereby eliminating the former inefficient separate operational procedure. In accomplishing this purpose I have devised a powder dispensing cap for a squeeze type powder container which removably receives my brush or duster whereby the powder is ejected into and through the brush or duster. Since the brush or duster is designed for a single use I have devised means for permitting application of the duster to the powder cap and for firmly holding the duster in operative position thereon and I have also devised means for operation to quickly and simply release the duster after use on a customer so that it may be disposed of. Thus my invention speeds up and simplifies the barbering procedure by providing a powder container and dispenser designed to operably releasably receive a brush

or duster thereon. In designing this combination brush and powder dispenser I have provided means on the container so that it will not be difficult for the barber to remove a used brush from the container and operatively position a new one thereon speedily and with merely a manipulative finger operation.

The invention involved in this application is one which is not difficult to produce, is inexpensive and is so made that under normal use conditions it will be long lasting.

With the foregoing general objects, features and results in view, as well as certain others which will be apparent from the following explanation, the invention consists in certain novel features in design, construction, mounting and combination of elements, as will be more fully and particularly referred to and specified hereinafter.

Referring to the accompanying drawings:

Fig. 1 is an elevational view of the combination brush and powder dispenser.

Fig. 2 is an enlarged vertical section through the dispensing cap and the brush with parts of the latter broken away.

Fig. 3 is a view taken on the line 3—3 of Fig. 2.

Fig. 4 is a perspective view of the dispensing cap and the brush clamping means with parts of the cap broken away.

Fig. 5 is an elevational view of the brush or duster.

Fig. 6 is a bottom plan view of the brush or duster illustrated in Fig. 5.

Fig. 7 is a perspective view of the blank from which the brush or duster is made.

Fig. 8 is a perspective view of the blank folded in the first step of the brush making operation.

Fig. 9 is a perspective view of the blank following the second folding operation.

Fig. 10 is a perspective view following the final folding operation.

Fig. 11 is a view illustrating the folded blank following cutting thereof to provide the brushing or dusting arms and prior to the rolling of the folded blank.

In the accompanying drawings, I have used the numeral 1 to designate in its entirety the powder container, this container preferably though not necessarily being of the squeeze bottle type, that is having resilient walls so that upon squeezing the walls thereof the contents will be expelled from the outlet of the container. The container may also be formed with a circumferential concavity 3 for ease of handling and operation. At its upper end the container 1 is formed with a neck 5 having external screw threading 7 provided thereon.

I provide a dispensing cap designated generally by the numeral 9, the dispensing cap as will become apparent as this description proceeds is adapted to be removably fastened to the neck 5 of the container 1. The dispensing cap is formed with a lower sleeve portion 11 which is internally screw threaded as at 13 for threaded engagement with the threads 7 of the neck 5 of the container. The dispensing cap also includes a body portion 15 having a solid portion 17 through which a duct 19 centrally extends and the body portion 15 is provided with an annular recess 21 which extends through the top of the body portion, the bottom of the recess being formed by the solid portion 17 of the cap. The circumferential inner wall 23 of the recess 21 is hollowed to form a duct 25 which is in alignment and communication with the duct 19. Thus, consideration of the drawings clearly indicates that there is a duct which extends completely through the dispensing cap 9. A peripheral annular pocket 27 is formed in the outer wall forming a recess for a purpose to be hereinafter described. The dispensing cap 9 may be made out of any suitable material, preferably of the type which is light in weight but is endowed

with a degree of rigidity and strength to withstand the requirements of continuous use.

Operatively positioned within the annular circumferential pocket **27** is an annular metallic clamping band **29** which is made of any suitable metal having the necessary spring to function as a clamping member as will be described. The clamping band is not a completely circular or closed band member and at each end is formed with operating arms **31** which extend through an opening **33** which is formed in the outer wall of the dispensing cap. The arms **31** are spaced apart and preferably are of outwardly flaring formation and are slotted as at **35**. Opposite the opening **33** the annular pocket **27** is formed with a projection **37** serving as a fulcrum point for the clamping band as it operates in a manner to be hereinafter described. An operating or camming member **39** is operatively supported on the arms **31** of the clamping member, the camming member **39** being provided with a supporting element fixed to and projecting inwardly therefrom, the supporting element comprising a leg **41** fixed to the camming member from which extend in opposite directions arms **43** which slidably extend into the slots **35** in the arms **31**. It will now be recognized that the camming member is operatively mounted between the arms **31** and that upon inward movement of the camming member the arms will be spread apart and the clamping band will also be spread apart, fulcruming on the projection **37** and it will be further understood that the normal non-distorted position of the clamping band is with the arms relatively close together and the clamping band is distorted into releasing position by moving the camming member inwardly between the arms of the clamping member.

I provide a dusting brush designated generally by the numeral **45**. This brush is designed for one use and may then be thrown away and is preferably formed of paper in a manner about to be described. The dusting brush is also adapted to be removably mounted on the dispensing cap **9** of the powder container. The dusting brush consists of a plurality of paper sections wound together to form a base **47** and is cut at its other end to provide a plurality of dusting arms **49**. The laminated base **47** is strengthened by means of an inner tubular member **51** upon which the laminations forming the base are wound and I also provide an outer tubular member **53** which is caused to adhere about the laminated base **47**.

The dispensing cap **9** has been especially designed to operably receive and release the dusting brushes **45**. When the barber or beautician is ready to dust the neck or face of the customer he merely grasps the powder container **1** and pushes inwardly on the camming member **39** to distort or spread apart the clamping band **29** whereupon he inserts the base end of a dusting brush **45** into the annular recess **21** and then releases the camming member, the clamping member will spring back into clamping position about the base of the dusting brush as clearly illustrated in Fig. 2 of the drawings. The operator or barber then squeezes the container **1** whereupon powder is ejected through the ducts **19** and **25** and into the center of the brush and is applied to the neck of the customer as the cut hair is dusted therefrom by a brushing action imparted to the container and the brush. It will be seen that when this operation is completed the brush may be easily removed from the dispensing cap by merely pushing the camming member inwardly between the arms to thereby release the base of the brush from the clamping action of the clamping band so that the brush may be removed from its operative position combined with the container and then thrown away.

In Figs. 7 through 11 I have illustrated a method which may be followed in producing the brush **45**. The paper blank **55** from which a brush is made is preferably of rectangular shape and may be formed of any appropriate

tissue-like paper so that the brushing or dusting arms **49** will be soft and flexible and function efficiently to remove cut hairs from the neck and to spread the dispensed powder thereover. The blank **55** is folded along the fold line **57** into the position shown in Fig. 8 of the drawings to provide two oblong sections **59** and **61**. The folded blank of Fig. 8 is then folded along the transverse line **63** to form sections **65**, **67**, **69**, and **71** as illustrated in Fig. 9 of the drawings whereupon the sections of Fig. 9 are folded along the transverse fold line **73** to form the final folded blank or laminated structure disclosed in Fig. 10 of the drawings. It will now be understood that there is one edge of the laminated structure of Fig. 10 which is wholly composed of folded lengths of the paper. It is this edge that is now slitted inwardly a distance providing a series of spaced cuts **75** to provide the plurality of brushing arms **49**. Due to this unique construction each such brushing arm is of laminated construction and there are no free or outer ends, that is each arm consists of a plurality of lengths of paper joined at their upper ends as at **77**.

It will now be appreciated that I have devised a paper throw away brush having laminated characteristics to provide an efficient brushing or dusting action and that I have provided such a brush which is adapted for mounting on the dispensing cap of a powder container, the powder being ejected into the center of the brush for application therefrom to the neck of the customer. Not only have I invented a highly advantageous brush but I have also evolved a dispensing cap for a powder container which is adapted to releasably receive the brush of this invention thereon.

I claim:

1. A neck dusting brush and powder dispenser including, in combination, a container for powder having a closed bottom end and an open dispensing end, a dispensing cap removably attached to said open dispensing end and having a powder dispensing duct extending therethrough and in communication with said open dispensing end of the container, said dispensing cap having an annular recess therein the outer circumferential wall of which is provided with a circumferential pocket, and a throw away dusting brush having a tubular base removably inserted in said recess, the bore of said tubular base being in communication with said duct, and a clamping collar operatively positioned in said pocket and being normally clamped about said tubular base and means connected with said clamping collar and manually operable to spread said collar to release said tubular base.

2. A neck dusting brush and powder dispenser including, in combination, a container for powder having a closed bottom end and an open dispensing end, a dispensing cap removably attached to said open dispensing end and having a powder dispensing duct extending therethrough and in communication with said open dispensing end of the container, said dispensing cap having an annular recess therein the outer circumferential wall of which is provided with a circumferential pocket, and a throw away dusting brush having a tubular base removably inserted in said recess, the bore of said tubular base being in communication with said duct, and a split clamping collar operatively positioned in said pocket, said clamping collar being normally clamped about said tubular base, arms connected to said collar and extending exteriorly of said dispensing cap for manually spreading apart to expand said collar to release said tubular base.

3. A neck dusting brush and powder dispenser in accordance with claim 2 wherein each of said arms extends from an end of said collar, and a camming member is mounted on and operable between said arms to spread them apart to thereby expand said collar to release said tubular base.

4. A neck dusting brush and powder dispenser including, in combination, a container for powder having a closed bottom end and an open dispensing end, a dis-

pensing cap removably attached to said open dispensing end and having a powder dispensing duct extending therethrough and in communication with said open dispensing end of the container, said dispensing cap having an annular recess therein the outer circumferential wall of which is provided with a circumferential pocket, a throw away dusting brush having a tubular base removably inserted in said recess, the bore of said tubular base being in communication with said duct, a fulcrum projection extending into said pocket, and a split clamping collar operatively positioned in said pocket in engagement with said fulcrum projection and having an arm extending exteriorly of said dispensing cap from each end of said collar and substantially opposite said fulcrum projection and means for spreading said arms apart to expand said collar to release said tubular base.

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