Feb. 2, 1965 L. L. HOGAN 3,167,806

AUTOMATIC POWDER DUSTER

Filed May 6, 1963

Fig. 1

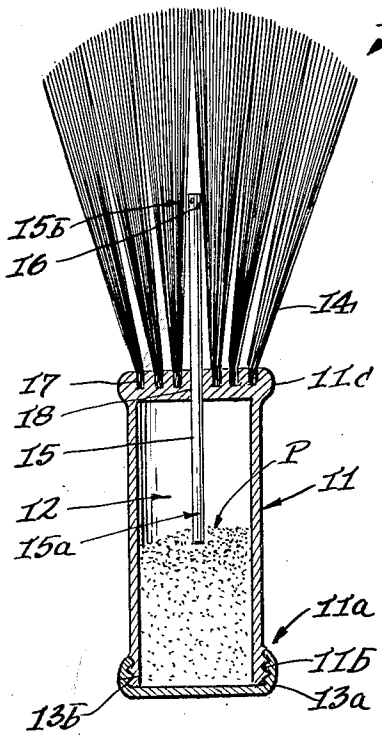


Fig. 2

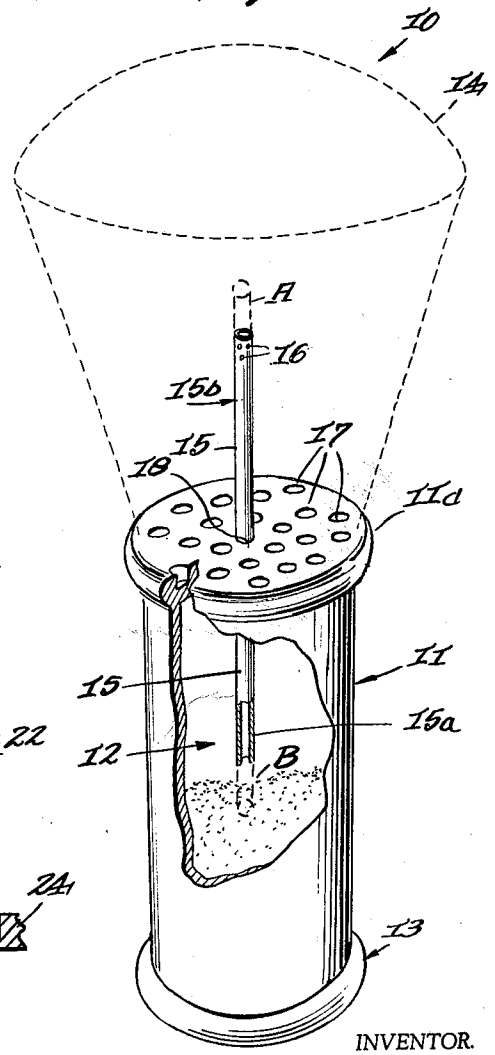
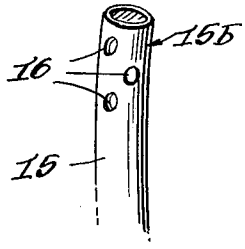


Fig. 3



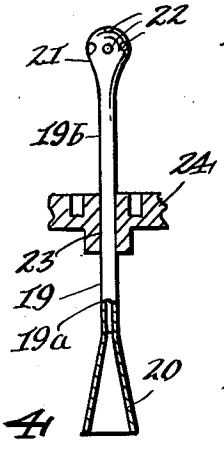


Fig. 4

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AUTOMATIC POWDER DUSTER

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The present invention relates to brushes, and more particularly to brushes of the type being used in the barber shop and commonly called neck dusters. Normally, powder is supplied to a neck duster by the barber. The present invention primarily concerns itself with providing a neck duster with its own supply of powder which may be dispensed by the brush automatically as it is being used.

Another object of this invention is to provide a neck duster which may be inexpensive to manufacture, durable and easy to operate.

A further object of this invention is to provide the neck duster with a handybrush handle appropriately shaped to fit a barber's hand.

Another object of this invention is to provide the neck duster with a brush handle and means for dispensing powder.

Another object of this invention is to provide a powder container in the handle and means for dispensing powder from said container.

An additional object of this invention is to provide the neck duster with a flexible tube which may supply powder from the powder container in the brush handle.

A further object of this invention is to provide the tube with openings from which powder may be dispensed from said powder container.

Another object of this invention is to provide the neck duster with an adjustable flexible tube which may act as a powder supply regulator. When the container is filled the tube is pushed lower into the brush handle, and as the powder container becomes empty the tube is pulled out to regulate the proper amount of powder to be dispensed.

Another object of this invention is to provide the flexible tube in the brush handle with a perforated head at one end thereof and a tapered cone-shaped member at the other end.

This invention also consists in certain other features of construction, and the combination and arrangement of parts, to be hereinafter fully described, illustrated in the accompanying drawings, and specifically pointed out in the appended claims.

In describing the invention in detail, references will be made to the accompanying drawings, where like character numerals denote like or corresponding parts throughout the several views, in which:

FIG. 1 is a side cross sectional view of the present invention;

FIG. 2 is a perspective view partly in cross section;

FIG. 3 is an enlarged detail of the end of the tube end; and

FIG. 4 is a modification of the tube.

It is to be understood that the present form of disclosure is merely for the purpose of illustration, and that there might be various modifications thereof, without departing from the spirit of the invention as herein set forth.

Referring now more particularly to the drawing, the powder duster **10**, shown in FIG. 1, made in accordance with the present invention, comprises, in combination, the brush handle **11**; the powder container **12**; the container cover **13**; the brush bristles **14**; the powder dispensing tube **15**; and the dispensing opening **16** in the dispensing tube.

It can be seen from FIG. 1 that the brush handle **11** may consist out of an elongated cylindrical hollow container **12** having an open end **11***a* which may be provided with an external thread **11***b*. The brush cover **13** may be provided with an internal thread **13***a* in its circular flange **13***b*. By means of the internal thread **13***a* the cover **13** may be threaded upon the outer thread **11***b* in the cylindrical handle **11** to securely close the container **12**. A quantity of fine talcum powder may be filled into the container **12** through its open end **11***a* before screwing thereto the cover **13**. A plurality of circular grooves **17** may be filled in the closed opposite end **11***c* in the handle **11** to receive the bristles **14** substantially as shown.

To promote the delivery or the dispensing of powder P from the container **12**, there may be provided a slim flexible pipe or tube **15** preferably made out of flexible rubber or plastic with one end thereof **15***a* being open to the powder in the container **12**, while its opposite end (extending beyond the container **12** on the outside) being closed and carrying a number of fine holes **16** (see FIG. 3). The slender tube **15** is passed through a hole **18** in the closed end **11***c* in the handle **11**.

FIG. 4 shows a modification of the tube **15**. In this latter case the slender tube **19** may be provided at its lowermost end **19***a* (facing the powder in the container **12**) with a cone-shaped member **20** or a gatherer, while its other closed end **19***b* having a round head **20** which may have a plurality of dispensing holes **21**. It is obvious, that in this case, the talcum powder from the container **12** may readily enter the tube **19** through the gatherer **20** to be delivered to the dispensing head **21**.

It will now be recognized from FIG. 1 that my neck duster **10** may be readily utilized in barber shops in the usual manner. By means of the slender tube **15** a measured amount of powder will be automatically delivered to the bristles **14** of the brush. In the event the powder in the container **12** becomes depleted, the barber may push the tube **15** slightly further out of the handle **11** as indicated by the dotted lines (A) in FIG. 2. In the event there is too much powder in the container, to promote better delivery the tube **15** may be pushed further into the container as shown by dotted lines (B) in FIG. 2. While FIGS. 1 to 3, inclusive, illustrate my dispenser tube **15** in its simplest form, the modification shown in FIG. 4 is an improvement. In this case to promote better delivery of the powder from the tube **19**, the latter may be provided at one end thereof with the cone-shaped member or gatherer **20** and at the other head with the powder dispenser head **21**, with its powder dispensing openings **22**. Although the dispenser tube **19** may be slightly more expensive to produce than the tube **15** (see FIGS. 1 to 3) by means of its gatherer **20** and the head **21** it may dispense talcum powder at greater efficiency. In addition, because of the bulkiness of the gatherer **20** it may not come off its mounting hole **23** in the base **24** when it is pulled.

A careful examination of the foregoing description in conjunction with the invention as illustrated in the drawing, will enable the reader to obtain a clear understanding and impression of the alleged features of merit and novelty, sufficient to clarify the construction of the invention as hereinafter claimed.

Minor changes in shape, size, materials and rearrangement of parts, may be resorted to in actual practice, as long as no departure is made from the invention claimed.

Having described my invention, what I claim is the following:

1. A neck duster of the class described, comprising, in combination, an elongated hollow brush handle of cylindrical contour open at one end and closed at the other to form a powder container, an outer thread cut at its

open end, a cover having a circular flange, an internal thread cut in said flange, said cover being threaded over the outer thread in said hollow handle to close said open end to form said powder container, means in said closed end to mount a plurality of fine bristles, a centrally disposed hole in said closed end communicating the outside with the container inside, a slender flexible tube functionally held in said opening and slideable therein, one open end thereof extending into said container with its other closed end extending outwardly among the bristles, fine holes in said outward end in said tube for dispensing powder from said container passing through the slender tube aforesaid.

2. The combination according to claim 1, and a plurality of circular grooves drilled in said closed end facing outwardly and means for securing fine bristles in said grooves to form a neck duster.

3. A neck duster of the class described, comprising, in combination a hollow container having a circular contour open at one end and closed at the other, a cover to close said open end, means in said closed end to hold a plurality of fine bristles, an opening centrally located in said closed end, and a powder dispensing tube frictionally held in said opening and slideable therein, one end of said tube extending beyond said container on the outside and having a head with holes among the bristles, with the opposite end extending into said container being provided with a gatherer.

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