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A. BEAGER ET AL

2,449,102

VACUUM CLEANER BAG

Filed Sept. 29, 1945

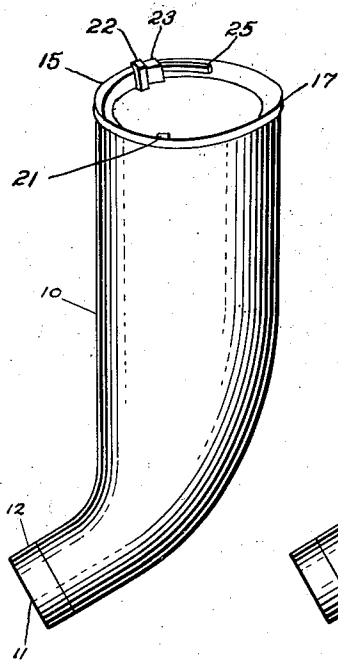


FIG. 1

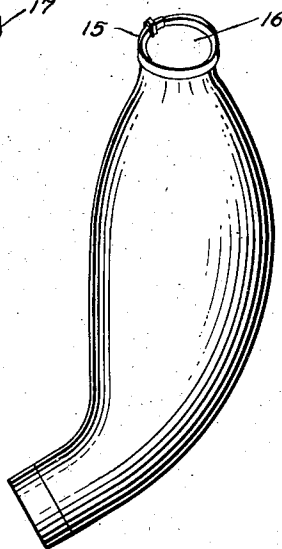


FIG. 2

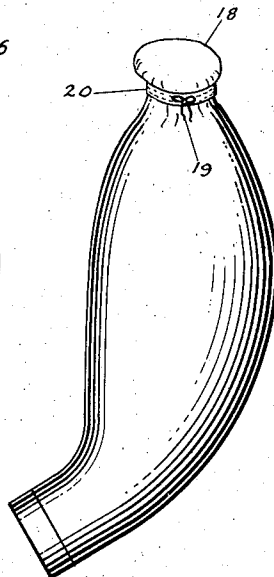


FIG. 3

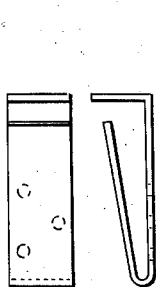


FIG. 8 FIG. 9

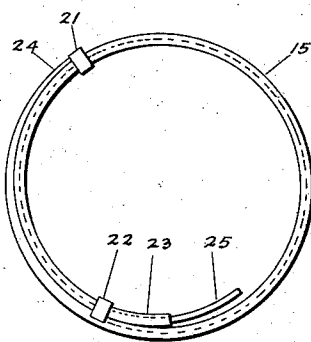


FIG. 4

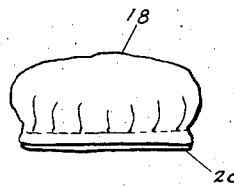


FIG. 7

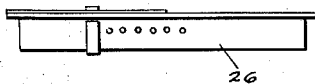


FIG. 5

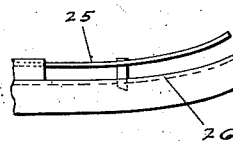


FIG. 6

INVENTORS

Arthur Beager and
Elizabeth W. Beager

BY

E. N. Jethirstonhaugh
ATTORNEY

UNITED STATES PATENT OFFICE

2,449,102

VACUUM CLEANER BAG

Arthur Beager and Elizabeth W. Beager,
New York, N. Y.

Application September 29, 1945, Serial No. 619,316

2 Claims. (Cl. 183—51)

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The invention relates to improvements in vacuum cleaner bags as described in the present specification and illustrated in the accompanying drawings that form a part of the same.

The invention consists essentially of the novel features of construction as pointed out broadly and specifically in the claims for novelty following a description containing an explanation in detail of an acceptable form of the invention.

The objects of the invention are, to devise a vacuum cleaner bag having an expandable opening for the purpose of introducing the bag into a disposable bag; to facilitate the work of the house-wife or other person using the vacuum cleaner in emptying the dust and dirt from the bag; to construct a means whereby the bag is easily emptied of the dust and dirt picked up by the cleaner and enable the person using the same to keep the bag clean and consequently reduce the amount of dust and dirt infiltrating into the motor and other working parts of the machine; to furnish an expansion member that may be detachably connected to an open end of a bag for keeping such opening expanded for the purpose of removing its contents; to aid in the cleaning of vacuum cleaner bags by utilizing a band that is introduced into the open end of a bag without interfering with the structure thereof, and when not in use, the band may be easily removed from the bag and stored away until it is required again, and generally to provide a vacuum cleaner bag that is easy to handle and efficient in operation.

In the drawings:

Figure 1 is a perspective view of the vacuum cleaner bag, showing the top opening expanded to its largest diameter.

Figure 2 is a perspective view of the bag showing the top opening contracted to its smallest diameter.

Figure 3 is a perspective view of the bag showing the application of a closure to the opening.

Figure 4 is a plan view of the adaptor.

Figure 5 is a side view of the adjustable band or adaptor showing the adjusting clamp and holes in the band.

Figure 6 is an enlarged fragmentary view of the band showing the spring catch which adjusts the band to various size openings.

Figure 7 is a perspective view of the sealing cap for the bag.

Figure 8 is a front view of one of the clamps showing the rivets which fasten it to the band.

Figure 9 is a side view of one of the clamps

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showing the position of the rivets by which it is fastened to the band.

Like numerals of reference indicate corresponding parts in the various figures.

Referring to the drawings, the vacuum cleaner bag consists of a bag made of pliable material, as indicated by numeral 10, and has an opening 11 at the bottom which is detachably secured by a coupling 12 to the vacuum cleaner. The bag is provided with an opening 16 at its other end and a flanged adjustable band or adaptor 15, made of plastic or other suitable material, is inserted in the opening 16 of the bag and the edge of hem 17 of the bag is turned in and securely fastened 15 around the band thereby holding the band in place and providing a stiff and flexible rim around the opening at all times. In this position, the bag is ready for emptying of dust and dirt.

When ready for use on the vacuum cleaner, the opening 16 is adjusted to its smallest size and a cap 18, made of cloth or other material, is fastened to the rigid opening of the bag and held tight by a draw-string 19, making the bag dust proof. The cap has a flexible metal band 20 sewn into the bottom edge, the ends of which do not quite come together. In the space between the ends of the band a draw-string is attached, which tightens the cap and secures it firmly to the rigid adaptor 15 of the bag.

The adjustable band or adaptor 15 consists of a circular flexible band, in the form of a resilient coil, made of plastic or other suitable material and is adapted to expand and contract the diameter of the opening 16 of the vacuum cleaner bag to which it is attached. Metal clamps 21 and 22 encircle the band and are secured to the free ends 23 and 24. The clamp 21 is riveted to the outside end of the band while the clamp 22 is riveted to the inside of the band. A spring catch 25 is secured to the band and holes 26 are made in the band, which are adapted to be engaged by the spring catch for adjusting the diameter of the opening 16 of the bag.

In operation, the opening 16 is contracted and the cap is placed thereover and securely tightened by the draw-string. The coupling 12 at the other end of the bag is inserted in the vacuum cleaner and turned until securely fastened to the cleaner. The vacuum cleaner bag is now ready to receive the dust and dirt picked up by the vacuum cleaner.

It is of course understood that the adaptor may be altered without in any way departing from the essential features as hereinabove described.

What we claim is:

1. In vacuum cleaner bags, a cleaner bag

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formed of pliable material and having open ends, one end of said bag being adapted to be connected to the dust outlet of the vacuum cleaner, and a closing cap formed of pliable material and adapted to seal the other end of said bag, the said closing cap being detachably engaged over an adaptor in the form of an expansible ring secured to the circumference of the opening of said bag and adapted to increase or decrease the size of said opening.

2. In vacuum cleaner bags, a cleaner bag formed of pliable material and having open ends, one end of said bag being adapted to be attached to the dust outlet of the vacuum cleaner, the other end of said bag having an expandable band secured to the circumference of the opening of the bag, the said expansible band having guide clamps secured to the free ends thereof, and a spring catch for maintaining various degrees of expan-

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sion, and a closing cap formed of pliable material adapted to be detachably secured over the said expansible band when contracted, and serving to seal the opening.

ARTHUR BEAGER.
ELIZABETH W. BEAGER.

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The following references are of record in the file of this patent:

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