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A. BEAGER ET AL

2,435,490

VACUUM CLEANER BAG

Filed Sept. 20, 1945

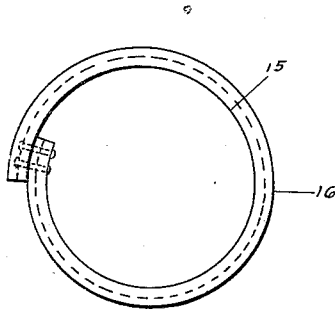


FIG. 1

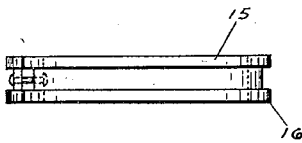


FIG. 2

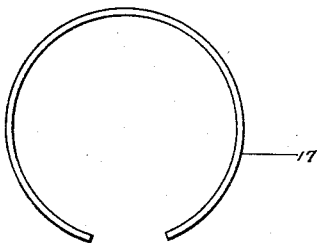


FIG. 4

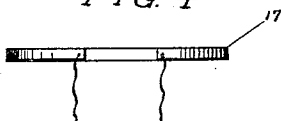


FIG. 5

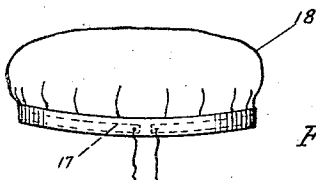


FIG. 6

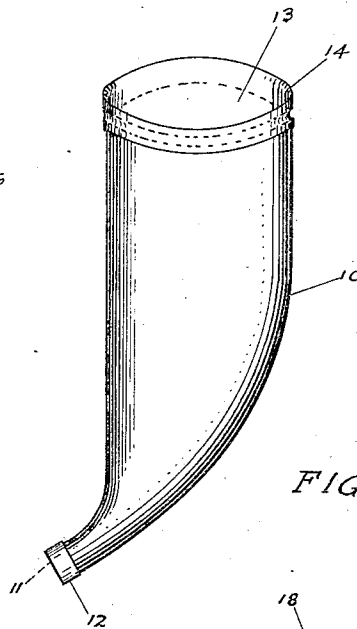


FIG. 3

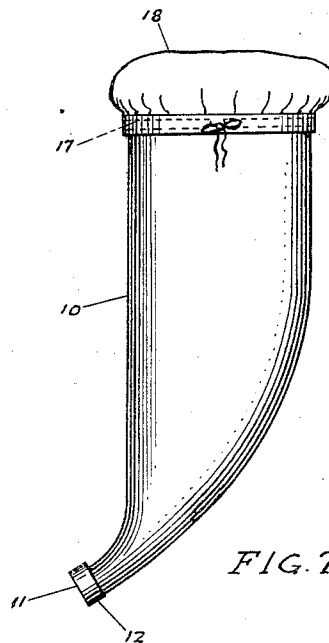


FIG. 7

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2,435,490

VACUUM CLEANER BAG

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Application September 20, 1945, Serial No. 617,624

2 Claims. (Cl. 150—3)

1

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 means for keeping the discharge end of the bag constantly open for the purpose of removing its contents and for sealing the discharge end when the bag is attached to the vacuum cleaner; to facilitate the cleaning of the vacuum cleaner bag by utilizing a rigid member, such as a ring or hoop, that is introduced into and around the discharge end of the bag and permanently secured thereto; to aid the house-wife or other person in their work by enabling the user to empty the cleaner bag quickly and efficiently and at the same time avoid the spreading of dust or other particles which occasionally occurs in using other bags; and generally to provide a vacuum cleaner bag that will be durable and efficient for its purpose.

In the drawings:

Figure 1 is a plan view of a rigid ring.

Figure 2 is a side view of the ring.

Figure 3 is a perspective view of a vacuum cleaner bag having the ring fixedly secured to the discharge end thereof.

Figure 4 is a plan view of the split ring.

Figure 5 is a side view of the split ring.

Figure 6 is a perspective view of a sealing cap having the split ring secured thereto.

Figure 7 is a view of the vacuum cleaner bag showing application of the sealing cap.

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

Referring to the drawings, the vacuum cleaner bag, as indicated by numeral 10, is provided with an inlet 11 having the usual coupling 12, and a discharge end 13. The bag is made of the usual material that is at present in use and the inlet thereof is constructed in the usual manner.

The discharge end is provided with a hem 14 around its circumference and the hem is used for securing a rigid ring or hoop 15, made of plastic or other suitable material and used for permanently keeping the discharge end of the bag in its expanded or open position.

The means for securing the ring to the discharge end may of course be varied according to the requirements, as for example, it may be

2

securely attached by rivets or simply clamped in position.

The rigid ring or hoop is provided with a channel 16 which is adapted to be engaged by a split ring 17 secured around the circumference of the open end of the sealing cap 18, the ring being provided with draw-strings in order to tighten the cap to the discharge end of the vacuum cleaner bag.

The removable sealing cap is made of pliable material and is provided with the metal band or ring as hereinbefore mentioned; in certain cases the sealing cap may be in the form of a metal or plastic cover which is simply placed over the discharge end of the bag and held thereto by means of the channel formed in the ring 15.

The use of this invention is obvious, the vacuum cleaner bag is provided with a rigid permanent expanded opening at its discharge end, and when the machine is being used or when the bag is not being emptied, the discharge end is covered by the sealing cap which snugly fits over the opening, and in that way prevents any possibility of the dust or other particles from escaping from the bag when not in use. When it is desired to clean the bag all that is necessary for the house-wife to do is to detach the bag from the machine, remove the cap from the discharge end, and the rigid ring, being a fixed part of the bag, rigidly supports the opening for use in emptying the vacuum cleaner bag into a disposable receptacle of a type as illustrated and described in the applicant's co-pending application, "Disposable receptacles for emptying vacuum cleaners," filed August 27, 1945, and bearing Serial No. 612,784, although it will be understood that the bag may be emptied by any other ordinary methods, as the permanent expanded opening of the bag will lend itself for quick and speedy removal of its contents.

What we claim is:

1. In a vacuum cleaner bag having an inlet end and an outlet end, a hem formed at the outlet end of said bag, a rigid ring enclosed within the said hem, the said ring having an exterior channel and so constructed and arranged as to keep the outlet end of the bag in a permanent open position, a sealing cap formed of pliable material, a split ring secured to the circumference of said sealing cap, and draw-strings secured to the ends of said split ring for the purpose of snugly fastening the sealing cap to the flange portion of the ring in the outlet end of said bag.

2. In a vacuum cleaning bag having an inlet end and an outlet end, a hem formed at the outlet end of said bag, a rigid ring having a channel in

2,435,490

3

its outer surface and enclosed within the said hem, a circular sealing cap formed of pliable material, a split ring secured to the circumference of said sealing cap and adapted to fit loosely around the outside of said rigid ring, and draw strings secured to the ends of said split ring and adapted to contract the said split ring in the channel in said rigid ring.

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