Jan. 1, 1952 R. F. TUCK 2,580,863

ROTARY BRUSH CLEANER FOR PANTS CUFFS

Filed May 10, 1948

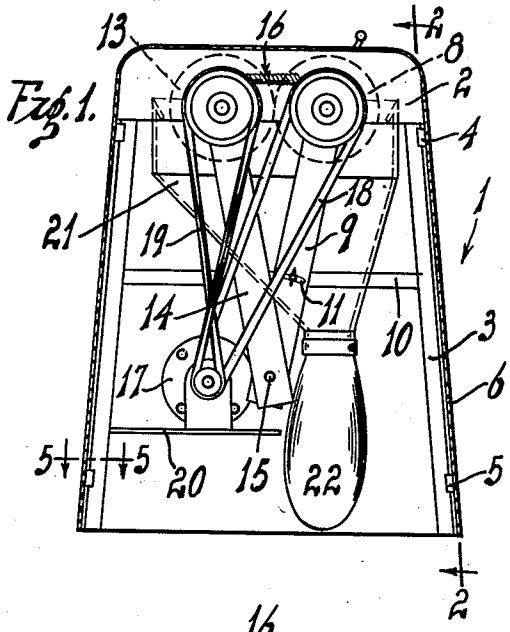


Fig. 1.

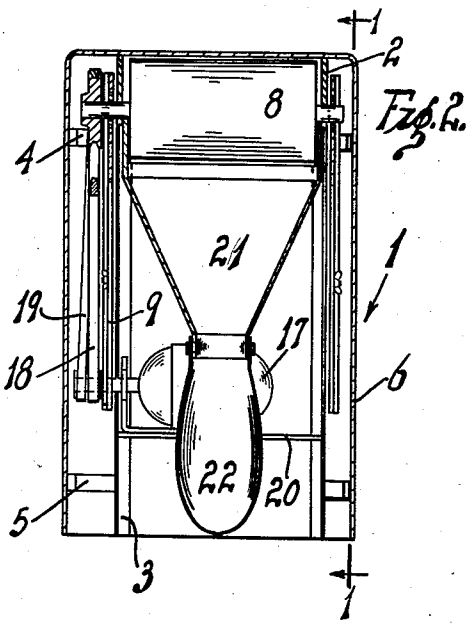


Fig. 2.

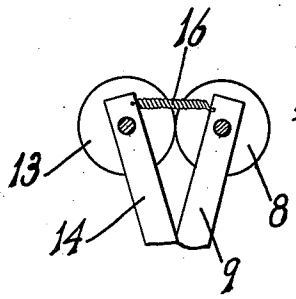


Fig. 4.

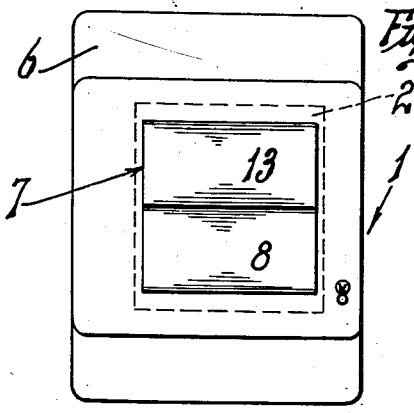


Fig. 3.

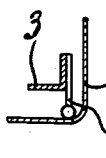


Fig. 5.

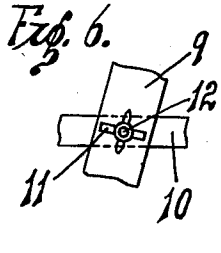


Fig. 6.



Fig. 7.

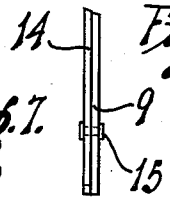


Fig. 8.

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ROTARY BRUSH CLEANER FOR PANTS CUFFS

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2 Claims. (Cl. 15—40)

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This invention relates to a rotary brush cleaner for pants cuffs, whereby a dry-cleaner may brush the dirt out of the cuffs of men's trousers very easily and quickly, prior to dry cleaning the garment.

An object of my invention is to provide a novel rotary brush cleaner for pants cuffs which will quickly and effectively clean the cuffs of accumulated dirt when the trousers are placed between the rotating brushes.

Another object of my invention is to provide a novel cuff cleaner of the character stated which is simple in construction, inexpensive to manufacture, and which will effectively clean the trouser cuffs without injuring the same.

A feature of my invention is to provide a novel cuff cleaner of the character stated in which the accumulated dirt is drawn into a hopper, and is then accumulated in a bag, thereby preventing the dirt from passing into the workroom.

Another feature of my invention resides in the novel means whereby the cleaning brushes are mounted so that the drive belts can be maintained at a proper tension, and also so that one brush can move relative to the other against the tension of a spring.

Other objects, advantages and features of invention may appear from the accompanying drawing, the subjoined detailed description, and the appended claims.

In the drawing:

Figure 1 is a sectional view taken on line 1—1 of Figure 2.

Figure 2 is a sectional view taken on line 2—2 of Figure 1.

Figure 3 is a top plan view of the device.

Figure 4 is a fragmentary side elevation of the brush mounting arms.

Figure 5 is a fragmentary transverse sectional view taken on line 5—5 of Figure 1.

Figure 6 is a fragmentary side elevation of one of the brush mounting arms.

Figure 7 is a side elevation of the structure shown in Figure 6.

Figure 8 is a fragmentary side elevation of the brush mounting arms.

Referring more particularly to the drawing, my cuff cleaner 1, comprises a rectangular frame 2, from which four legs 3, depend. The legs 3, are preferably formed of angle iron, although any structural shape will do. The legs are fixedly attached to the top frame member 2, and are each provided with fingers 4 and 5, at the top and bottom thereof, these fingers projecting outwardly to act as spacers and stops, as well as a

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support for the cover 6, which extends over the entire device. The cover 6, is not held in place, other than by its own weight, that is, there are no bolts or the like, and the spacing fingers 4, 5, properly position this cover so that it will not interfere with any of the moving parts. An opening 7, in the top of the cover gives access to the brushes, which will be further described, and the trouser legs are dropped through this opening in order to be cleaned.

A brush 8, is journaled in a pair of arms 9—9, and the arms 9—9 are each adjustably mounted on a horizontal frame member 10. The arms 9—9 are each provided with a slot 11, and a bolt 12, extends through the frame member 10, and through the slot 11, thus adjustably securing the arm 9, to the frame of the device. The second brush 13, is journaled between a pair of arms 14—14, and each of the arms 14, is pivotally secured to the lower end of the arm 9, as shown at 15. The brush 13, can thus move relative to the brush 8, but these brushes are pressed together by the spring 16. The brushes 8, 13, are both driven from the motor 17, through the medium of the belts 18, 19, respectively. The motor 17, is mounted on a horizontal platform 20, attached to the legs 3. A hopper 21, is mounted on the frame 2, and depends therefrom, and this hopper is immediately below the brushes 8–13, as shown, so that the dirt is all drawn into this hopper, and is deposited in the detachable bag 22. When the bag 22, is filled, the cover 6, can be easily lifted, and the bag is then detached from the hopper 21, and is emptied.

The arms 9, can be adjusted to properly tension the belt 18, by moving the arms within the limits of the slot 11. Since the arms 9, are eccentric to the armature shaft of the motor 17, it is thus possible to adjust the tension of the driving belts.

Having described my invention, I claim:

1. A rotary brush cleaner for trouser cuffs comprising a frame, a pair of brushes mounted within said frame, a pair of arms, one of said brushes being journaled in said arms, a second pair of arms pivotally attached to the first named arms, the second brush being journaled on the last named arms, a motor mounted on said frame, and two belts extending from said motor one to each of said brushes, and a spring connecting said arms and urging said brushes towards each other, and a hopper attached to said frame and positioned below said brushes, and a bag attached to said hopper, spacing fingers projecting horizontally from said frame, and a cover extending

over the frame of the trouser cleaner, and bearing against said fingers.

2. A rotary brush cleaner for trouser cuffs, comprising a frame, a pair of brushes mounted within said frame, a pair of arms, one of said brushes being journaled in said arms, a second pair of arms pivotally attached to the first named arms, the second brush being journaled on the last named arms, a motor mounted on said frame, and two belts extending from said motor one to each of said brushes, and a spring connecting said arms and urging said brushes towards each other, and adjustable means attaching the first named arms to said frame, said adjustable means being eccentric to the motor, and a hopper attached to said frame and positioned below said brushes and a bag depending from the hopper, spacing fingers projecting horizontally from said frame, and a cover extending over the trouser cleaner, and bearing against said fingers.

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