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MACHINE FOR CLEANING TROUSER CUFFS

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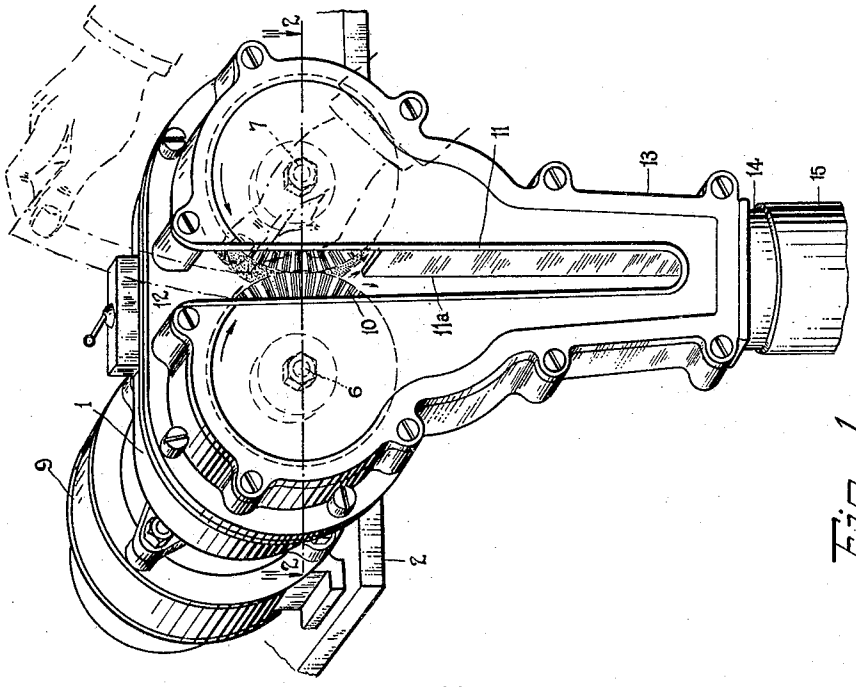


Fig. 1.

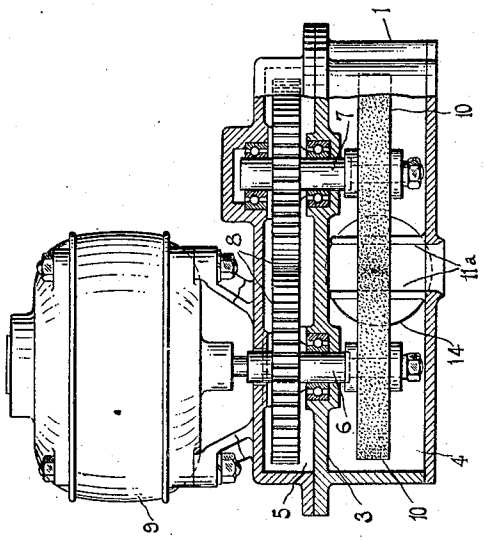


Fig. 2.

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MACHINE FOR CLEANING TROUSER CUFFS

Application filed December 5, 1927. Serial No. 237,767.

This invention relates to garment cleaning machines and particularly relates to a machine for cleaning the cuffs of trousers.

It is an object of the invention to provide a machine comprising a pair of motor driven brushes between which the cuff portions of a pair of trousers may be fed to clean the same, and particularly to remove such dust and dirt as may have accumulated in the folds of said portions.

Another object is to associate with a machine of the described character a receiver for dust and dirt removed from garments.

Still another object is to adapt one of the co-active brushes of a machine of the specified character for movement to and from the companion brush to facilitate introduction of a garment between said brushes, and its removal therefrom.

These and various other objects the invention attains by the construction hereinafter described and illustrated in the accompanying drawings, wherein:

Figure 1 is a perspective view of a machine embodying one form of the invention, it being indicated in dash lines how the work is fed between the brushes.

Figure 2 is a plan view of said machine, partly in section, on line 2—2 of Figure 1.

Referring first to the construction illustrated in Figures 1 and 2, the reference character 1 designates a casing bolted or otherwise suitably secured upon a table 2 (or the like), which casing is divided by a vertical partition 3 into front and rear compartments 4 and 5.

Jointly journaled in the partition 3 and in the rear wall of said casing is a pair of parallel shafts 6 and 7, which are so connected by a pair of gears 8 located in the chamber 5 as to rotate in reverse directions. The shaft 6 extends rearwardly of the casing 1 for driven engagement by a motor 9. In the compartment 4 of said casing there is mounted fast upon the shafts 6 and 7 a pair of similar circular brushes 10, which are peripherally contiguous or closely adjacent.

In the front wall of the casing 1, opposite to the meeting edges of the brushes 10, there is formed a vertical slot 11, which at its upper end communicates with a slot 12 formed in the top of the compartment 4 and which extends downwardly a sufficient distance below the brushes 8 to provide for feeding the cuff portions of trousers downwardly for their full width between said brushes. Preferably a pair of flanges 11*a* extend into the compartment 4 from the edges of the slot 11 below the brushes 10 to form a guide way for garments as the latter are fed downwardly.

The lower portion of the casing 1 is reduced to form a hopper 13 for receiving dust and dirt removed from trouser cuffs by the brushes and preferably said hopper terminates at its lower end in a collar 14 with which may be engaged a sleeve 15 for conducting the dirt to any desired receptacle or point of discharge.

In the use of the described machine, when the motor 9 is energized the brushes 10 are reversely driven in the direction of the arrows appearing in Figure 1. The cuff portions of a pair of trousers to be cleaned are first unfolded and are then successively fed downwardly between the brushes 10, as clearly indicated in Figure 1. During such travel of the cuff portions, any dust or dirt adhering to such portions and particularly such dust, dirt, and lint as may have accumulated in the folds of said portions, will be thoroughly removed from the garment and discharged by way of the hopper 13 to the sleeve 15. The downward extent of the slot 11 beneath the brushes 10 establishes a feedway for the garment, adequate to permit the full width of trouser cuffs to be fed between the brushes.

The invention is simple in its construction and operation and consequently requires no appreciable skill and training on the part of its operator. Said construction greatly expedites the thorough cleaning of trouser cuffs as compared with the practice now followed of manually brushing such portions of a garment.

While it will be apparent that the illustrated embodiments of our invention herein disclosed are well calculated to adequately

fulfill the objects and advantages primarily stated, it is to be understood that the invention is susceptible to variation, modification and change within the spirit and scope of the subjoined claims.

What we claim is:

1. In a device of the character described, the combination with a rotary brush for removing dirt from garments, of a casing enclosing said brush, having a receptacle in its lower portion for dirt removed by said brush and formed in one of its walls with a slot elongated transversely to the axis of said brush, through which slot a garment may be fed into and out of engagement with said brush, the edges of said slot being formed with flanges projecting into said casing to form a guideway for the garments.

2. In a device of the character described, the combination with a casing comprising a partition forming front and rear compartments in said casing, of a pair of parallel shafts journaled in said casing transversely to said partition, a pair of brushes mounted upon said shafts with their peripheries adjacent, gearing carried by said shafts within the rear compartment of the casing driving one of said shafts from and reversely to the other, and means establishing a drive connection to the other of said shafts, said casing being formed with a slot in the wall of said front compartment uncovering the mutually adjacent portions of the brushes for feeding a garment between the brushes.

3. In a machine of the character described, the combination with a rotary brush for removing dirt from garments, of a casing enclosing said brush having a reduced hopper-forming portion below the brush, said casing having an elongated slot in one of its walls extending in a plane substantially tangential to said brush, for guiding garments past said brush.

4. In a device of the character described, the combination with a pair of rotary brushes occupying an approximately tangential relation to each other, of means for reversely driving said brushes, a casing enclosing said brushes, comprising a guide plate arranged transversely to the brush axes and slotted downwardly from its upper edge in the plane of approximate tangency of the brushes, said slot guiding a garment downwardly between the brushes, said casing forming a hopper below said brushes, having a bottom opening, and a dirt receiver detachably connected to said hopper in communication with said opening.

5. In a device of the character described, the combination with a rotary brush for removing dirt from garments, of a casing enclosing said brush and forming a receptacle below said brush for dirt removed by the brush, a wall of said casing being slotted downwardly from its upper edge in a substantially tangential relation to the brush to provide for feeding a garment past the brush, and a pair of guides interiorly carried by the casing below said brush, substantially registered with the edges of said slot.

In testimony whereof we sign this specification.

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