

K. MAYER.
CLOTHES CLEANING DEVICE.
APPLICATION FILED JULY 15, 1912.

1,044,216.

Patented Nov. 12, 1912.

2 SHEETS—SHEET 1.

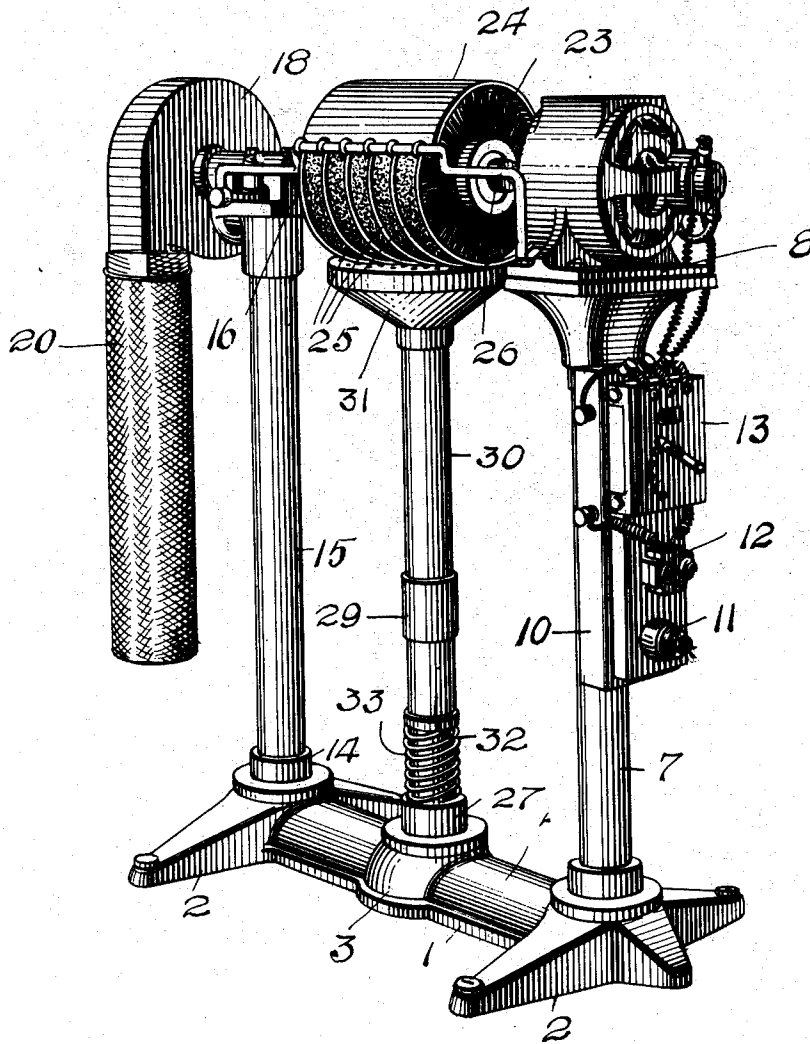


Fig. 1.

WITNESSES

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Max H. Srolowitz

INVENTOR

K. Mayer.

BY

A. C. [Signature]

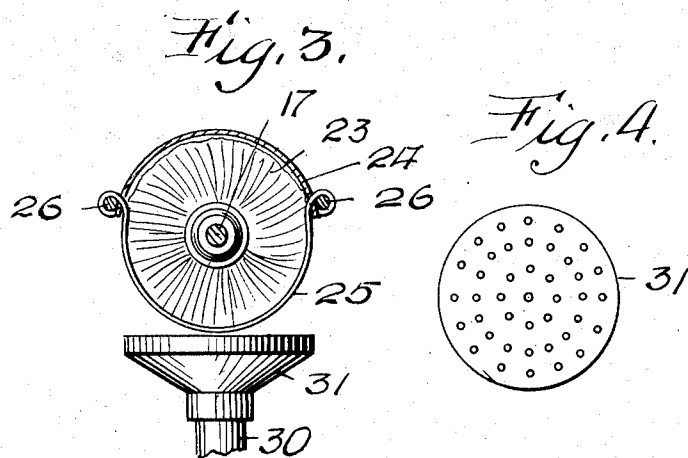
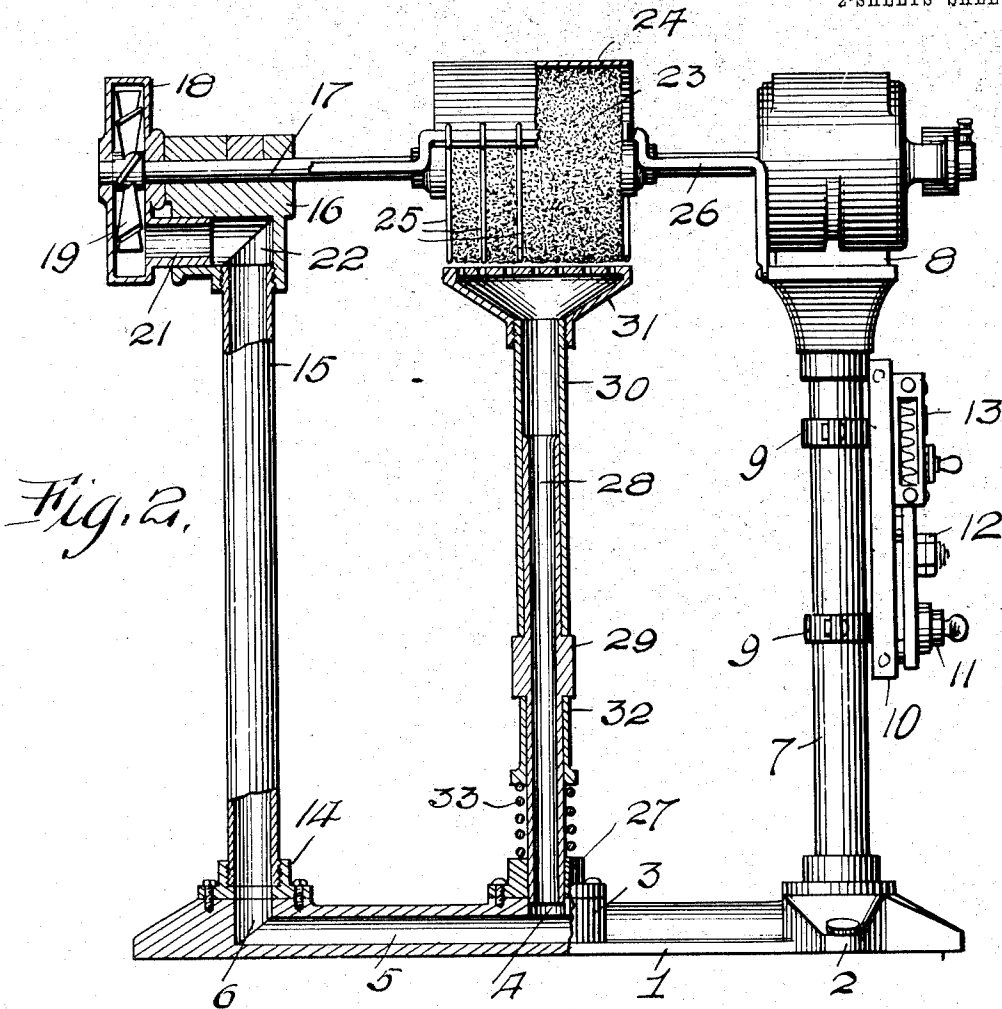
ATTORNEYS

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UNITED STATES PATENT OFFICE.

KAROLY MAYER, OF NAGY-KANIZSA, AUSTRIA-HUNGARY.

CLOTHES-CLEANING DEVICE.

1,044,216.

Specification of Letters Patent.

Patented Nov. 12, 1912.

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To all whom it may concern:

Be it known that I, KAROLY MAYER, a subject of the King of Hungary, residing at Nagy-Kanizsa, Zala, Austria-Hungary, have invented certain new and useful Improvements in Clothes-Cleaning Devices, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to a clothes cleaning machine, and the primary object of my invention is to provide an electrically operated machine wherein a brush and a suction of air are jointly utilized for removing dirt and other foreign matters from cloth or fabric.

Another object of this invention is to provide a machine of the above type consisting of comparatively few parts inexpensive to manufacture, not liable to injury by ordinary use, and highly efficient for the purposes for which it is intended.

With the above and other objects in view, the invention resides in a novel construction, combination and arrangement of parts to be hereinafter specifically described and then claimed, and reference will now be had to the drawing, wherein:—

Figure 1 is a perspective view of the machine. Fig. 2 is a side elevation of the same partly broken away and partly in section. Fig. 3 is a cross sectional view of a portion of the machine, and Fig. 4 is a plan of a suction head forming part of the machine.

A machine in accordance with this invention comprises a base 1 having the ends thereof provided with lateral feet 2. The base 1, intermediate the ends thereof, has an enlargement 3 that is provided with a vertical opening 4. The base 1 is cored out to provide a longitudinal bore 5 that is in communication with the opening 4 and the opposite end of the bore is in communication with a vertical opening 6 at one end of the base 1.

The opposite end of the base 1 is provided with a pedestal 7 for an electrically operated motor 8. Attached to the pedestal 7 by straps 9 is a switch board 10 that is provided with a socket 11, switches 12 and a rheostat 13, all which are of the ordinary and well known type for controlling the operation of the electric motor 8.

The base 1, at the opposite end from the pedestal 7, is provided with a coupling member 14 that is in communication with the

opening 6. The coupling member 14 is provided with a tubular hollow pedestal 15 and mounted upon the upper end of said pedestal is a bearing 16. Journalled in the bearing 16 is a longitudinal shaft 17 that is coupled to the armature shaft of the motor 8. The longitudinal shaft 17 extends into a suction fan casing 18, carried by the end of the bearing 16 and mounted upon the shaft 17 of the casing 18 is a suction fan or bladed wheel 19. The fan casing 18 has a discharge chute 20 and a spout 21, said spout extending into an angle port 22 formed in the bearing 16 and in communication with the hollow pedestal 15.

Mounted upon the shaft 17, intermediate the bearing 16 and the motor 8, is a rotary brush 23. Arranged over the brush 23 is a semicylindrical shield 24 and extending under the brush 23 are semicircular guards 25. These guards are equally spaced and said guards and the shield 24 are supported by longitudinal frames 26 having the ends thereof attached to the bearing 16 and the motor base 8.

Mounted upon the enlargement 3 is a guide 27 and extending through said guide into the vertical opening 4 is a tube 28. The tube 28 intermediate the ends thereof, has a collar 29 and mounted upon the upper end of said tube and resting upon the collar 29 is a pipe 30, the upper end of which is provided with a flat perforated suction head 31. The flat suction head 31 is circular in plan and is supported directly beneath the brush 23. Arranged upon the tube 28, below the collar 29, is a sleeve 32 and encircling the tube 28, between the lower end of the sleeve 32 and the guide 27 is a coiled compression spring 33 that yieldably supports the tube 28, the pipe 30 and the suction head 31 thereof. Assuming that the machine is in operation, the flat suction head 31 can be lowered whereby a piece of cloth can be placed over the head and by allowing the head 31 to assume this normal position, the piece of cloth is held against the bristle of the brush 23 and as the cloth is agitated by the brush, the dirt and foreign matter is sucked or drawn into the head 31, from where it passes through the pipe 30, tube 28, opening 4, bore 5; opening 6, hollow pedestal 15, angle port 22, spout 21, casing 18 into the discharge chute 20. The discharge chute 20 can be in the form of a bag for collecting the filth and foreign matter removed from

the piece of fabric that contacts with the brush 23. The cloth or fabric can be easily moved over the suction head, whereby it can be expeditiously cleaned.

5 It is thought that the operation and utility of the cleaning machine will be apparent without further description, and while in the drawing, there is illustrated a preferred embodiment of the invention, it is to be understood that the structural elements are susceptible to such variations and modifications as fall within the scope of the ap-
10 pended claims.

What I claim is:—

- 15 1. In a clothes cleaning machine, a base, pedestals carried by the ends thereof, a motor carried by one of said pedestals, a bearing carried by the other of said pedestals, a longitudinal shaft journaled in said bearing
20 and adapted to be revolved by said motor, a brush mounted upon said shaft, a suction head yieldably supported below said brush, and means operated by said shaft for producing a suction in said suction head.
- 25 2. A clothes cleaning machine comprising pedestals, a motor carried by one of said pedestals, a bearing carried by the other of said pedestals, a longitudinal shaft journaled in said bearing and adapted to be operated
30 by said motor, a brush mounted upon said

shaft, a suction head yieldably supported below said brush, and means including a fan for producing suction in said suction head.

3. A machine of the type described, comprising a base, pedestals carried thereby, a 35 motor carried by one of said pedestals, a bearing carried by the other of said pedestals, a longitudinal shaft journaled in said bearing and operated by said motor, a rotary brush mounted upon said shaft, a suction 40 fan carried by said shaft, and operated thereby, a suction head located below said brush and in communication with said fan through the medium of said base.

4. A machine of the type described com- 45 prising a base, pedestals carried thereby, a longitudinal revolvable shaft supported at the upper ends of said pedestals, a rotary brush mounted upon said shaft, a yieldable suction head located below said brush, and 50 means actuated by said shaft and including a fan for producing a suction in said suction head through the medium of said base.

In testimony whereof I affix my signature in the presence of two witnesses.

KÁROLY MAYER.

Witnesses:

KIJO FORRY,
JOSSEF DEINES.