Sept. 18, 1928. 1,684,698

B. FREEMAN

POLISHING ATTACHMENT FOR VACUUM CLEANERS

Filed Jan. 26, 1927

Fig. 1.

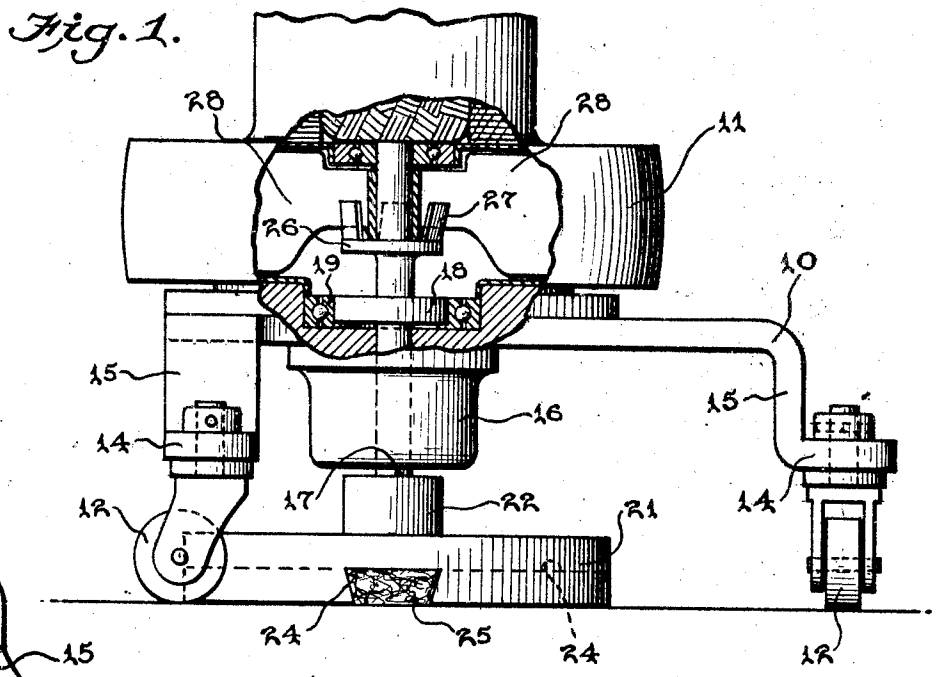


Fig. 2.

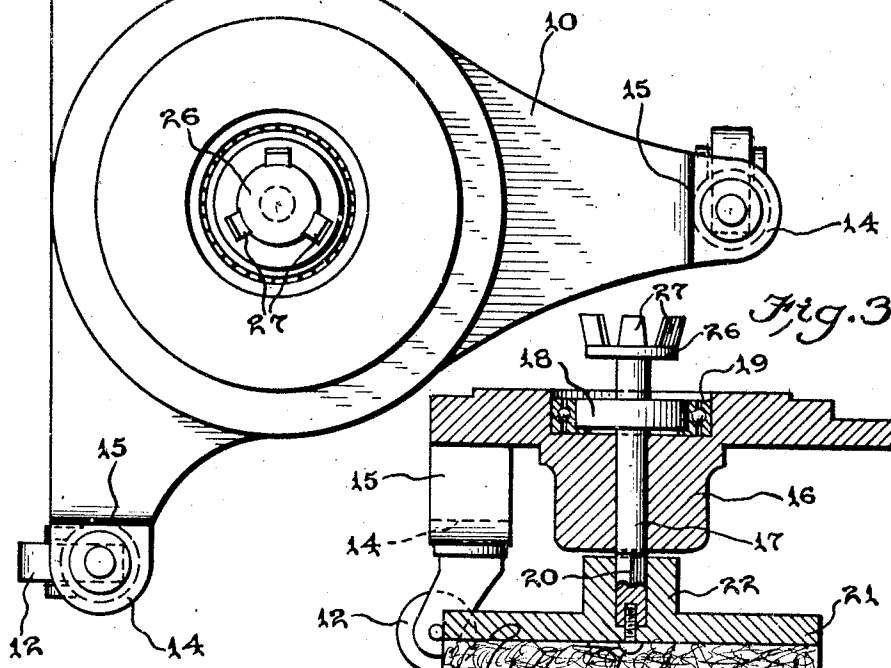


Fig. 3.

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UNITED STATES PATENT OFFICE.

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POLISHING ATTACHMENT FOR VACUUM CLEANERS.

Application filed January 26, 1927. Serial No. 163,714.

The object of the invention is to provide a device adapted for use in connection with a vacuum cleaner and operated by the rotary element thereof, so that the cleaner may be employed in the operations of waxing and polishing floors; to provide an attachment to which the cleaner may be easily applied and without the use of tools; and to provide an attachment of this character which may be easily and cheaply manufactured and therefore marketed at low cost.

With this object in view the invention consists in a construction and combination of parts of which a preferred embodiment is illustrated in the accompanying drawings, wherein:

Figure 1 is a side elevational view of the invention shown applied in operative positions in connection with a vacuum cleaner, the latter being partly broken away.

Figure 2 is a top plan view of the attachment.

Figure 3 is a central vertical sectional view of the attachment.

The frame 10 of the device constituting the invention follows in general outline the outline of the casing or housing of a vacuum cleaner, such as that illustrated at 11. The frame is supported on the casters 12 mounted in ears 14 of depending extensions 15 of the frame.

Journalled in a bearing in a boss 16 formed on the under face of the frame is a shaft 17, the latter having a collar 18 seated in a ball thrust 19. On the lower end of the shaft which is squared as indicated at 20 there is carried the polishing head 21, the latter having a hub 22 formed with an eye to correspond with the squared or angular portion 20. A screw 23 engaged in the shaft in the lower end serves to retain the polishing head on the shaft and the squared portion of the latter prevents relative angular or turning movement between the head and the shaft, so that when the shaft is rotated, the head, of necessity, rotates in synchronism therewith.

The head 21 is in the form of a disk and on the under face is provided with crossing transverse slots 24 in which are carried the polishing strips 25, the latter being preferably felt strips, inserted lengthwise into the slots which by virtue of the converging side edges thereof serve to effectively retain them in position on the head.

The upper end of the shaft is provided with a coupling member 26 consisting of a disk-like element with uniformly spaced upstanding arm or fingers 27. These interlock with the blades of the fan 28 of the vacuum cleaner when the casing or housing of the latter is disposed on top of the frame 10. Thus when the fan is caused to rotate by admission of current to the driving motor, the shaft 17 is rotated and with it the polishing head 21, the casters permitting the frame to be moved promiscuously over the floor, just as is the cleaner when the polishing device is not used.

The invention having been described, what is claimed as new and useful is:

In combination, a polishing device comprising a frame, a shaft rotatably mounted in the frame, a polishing head carried at the lower end of said shaft and disposed below the frame, and means on said shaft above the frame for attachmenet with the fan of a vacuum cleaner supported on said frame.

In testimony whereof he affixes his signature.

BERYL FREEMAN.