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R. BASS

1,742,375

VACUUM CLEANER BRUSH

Original Filed Sept. 30, 1927

Fig. 1.

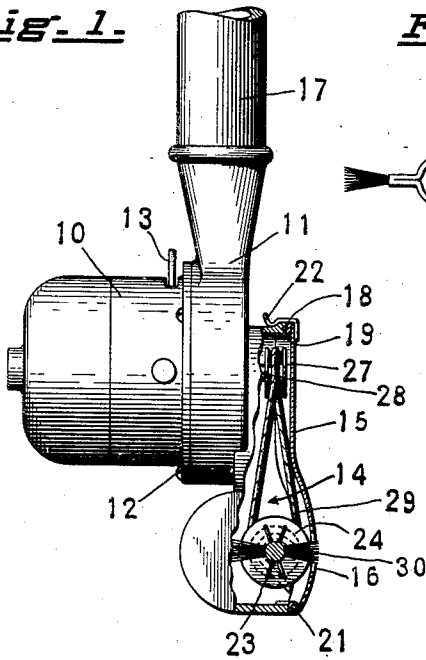


Fig. 6.

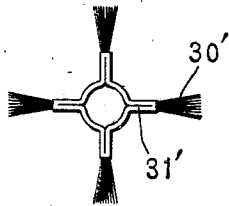


Fig. 2.

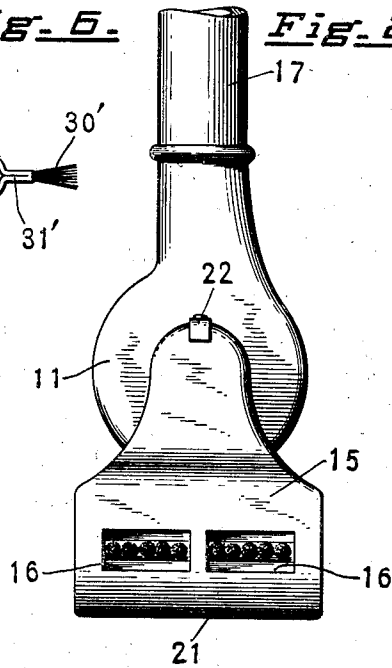


Fig. 3.

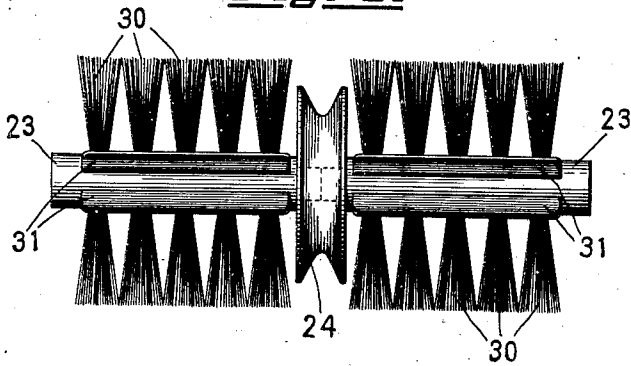


Fig. 4.

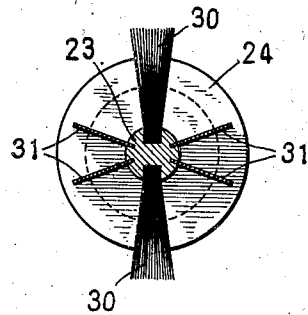
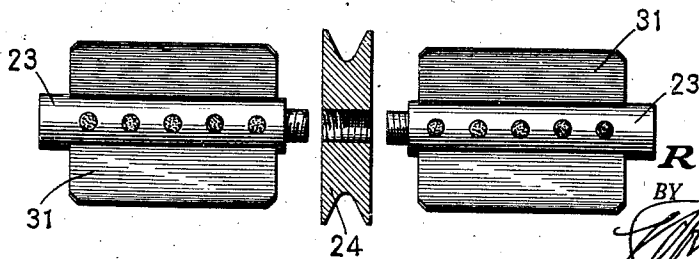


Fig. 5.



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UNITED STATES PATENT OFFICE

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VACUUM-CLEANER BRUSH

Original application filed September 30, 1927, Serial No. 223,062. Divided and this application filed March 31, 1928. Serial No. 286,312.

My invention relates particularly to brushes for vacuum cleaners, useful for cleaning clothes, furniture, draperies, etc.

One object of my invention is to prevent the clogging of the brush with threads, etc.

Another object is to facilitate the cleaning of the brush.

Another object is to facilitate replacement and repair of the brush.

10 In carrying out my invention, I suspend the brush and its driving belt in a chamber in the bottom of a casing which chamber is entirely open for the entry of this brush. This chamber is closed by a removable bottom
15 plate, having a suction inlet facing the brush.

This brush is made of a shaft having a pulley and longitudinal fins or plates along the shaft, and bristles set either on the fins or extending from the shaft.

20 This brush can also be made of two shaft sections having longitudinal fins or plates along the shafts and means for attaching these sections with the pulley.

Fig. 1 is an edge view and partial longitudinal section of the parts involving my invention showing the bottom plate in place.

Fig. 2 is a view showing the underside of the device with the bottom plate in place.

Fig. 3 is a side view of the brush.

30 Fig. 4 is an end view of the brush.

Fig. 5 is a detail view of parts of the brush and its driving pulley.

Fig. 6 is an end view of a modified form of brush.

35 The casing 10 is adapted to contain any suitable form of motor and suction fan. The lower part 11 of the casing may be secured to the upper part by a series of screws 12. A switch (not shown) having an operating
40 lever 13 may be provided for turning the motor on and off.

The bottom of the casing is provided with a chamber 14 which extends outwardly at one end and is normally closed when in use
45 by a plate or cover 15 having one or more suction openings 16 facing the brush. The dirt, etc., is picked up by the brush and drawn through the opening 16 and passes through
50 the casing and is ejected through the tube 17

and collected or disposed of in any suitable manner.

The joint between the plate 15 and the bottom of the casing may be made air tight in any suitable manner, as for instance by 55 providing a rubber gasket 18 and/or a flange 19 on the cover which overlaps the edge of the casing inside the recess 14. This plate 15 may be secured in any suitable manner, as for instance by means of a hinge 21 at one end and a spring catch 22 at the other end.

The brush may consist of two shaft sections 23 connected by a pulley 24 into which they are screwed. The brush ends are supported in suitable bearings in the opposite
65 sides of the chamber 14 in the casing in any suitable manner.

The drive shaft 27 of the fan motor extends into one end of the chamber 14 and is provided with a pulley 28 which is connected by means of a quarter turn belt 29
70 to the pulley 24 of the brush. In such devices in the past it has been customary to use an elastic belt which rapidly deteriorates due to the heating to which the device is frequently subjected. I prefer to use a leather
75 belt or a belt of other durable material which need be only slightly yielding so as to permit stretching sufficient to allow one end of the shaft 23 to be tilted up for the purpose of
80 removal and replacement.

In order to prevent threads, hair and the like from becoming entangled with the bristles 30 of the brush, I provided plates, or fins 31 which extend outwardly from the
85 shaft 23 and tend to knock off short threads and the like and prevent them from remaining in the brush.

I prefer to provide these fins spaced apart from each other so that if long threads, or the like, are wound around the fins they will be held spaced apart from the shaft so that a knife or the blade of a pair of scissors can be readily inserted between the fins to cut the
90 thread and facilitate its removal.

The bristles 30' may be mounted directly in the fins or plates 31' as shown in Fig. 6.

To replace a part of the brush a section of the shaft 23 is detached from the pulley 24 and a new section can instead be attached. 100

I claim:

A brush for a vacuum cleaner comprising a shaft, a number of rows of bristles secured to said shaft and radially disposed there-around, and a plurality of radially extending
5 longitudinal fins interposed between rows of bristles and spaced from each other circumferentially of the brush.

RUBIN BASS.

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