

Mar. 27, 1923.

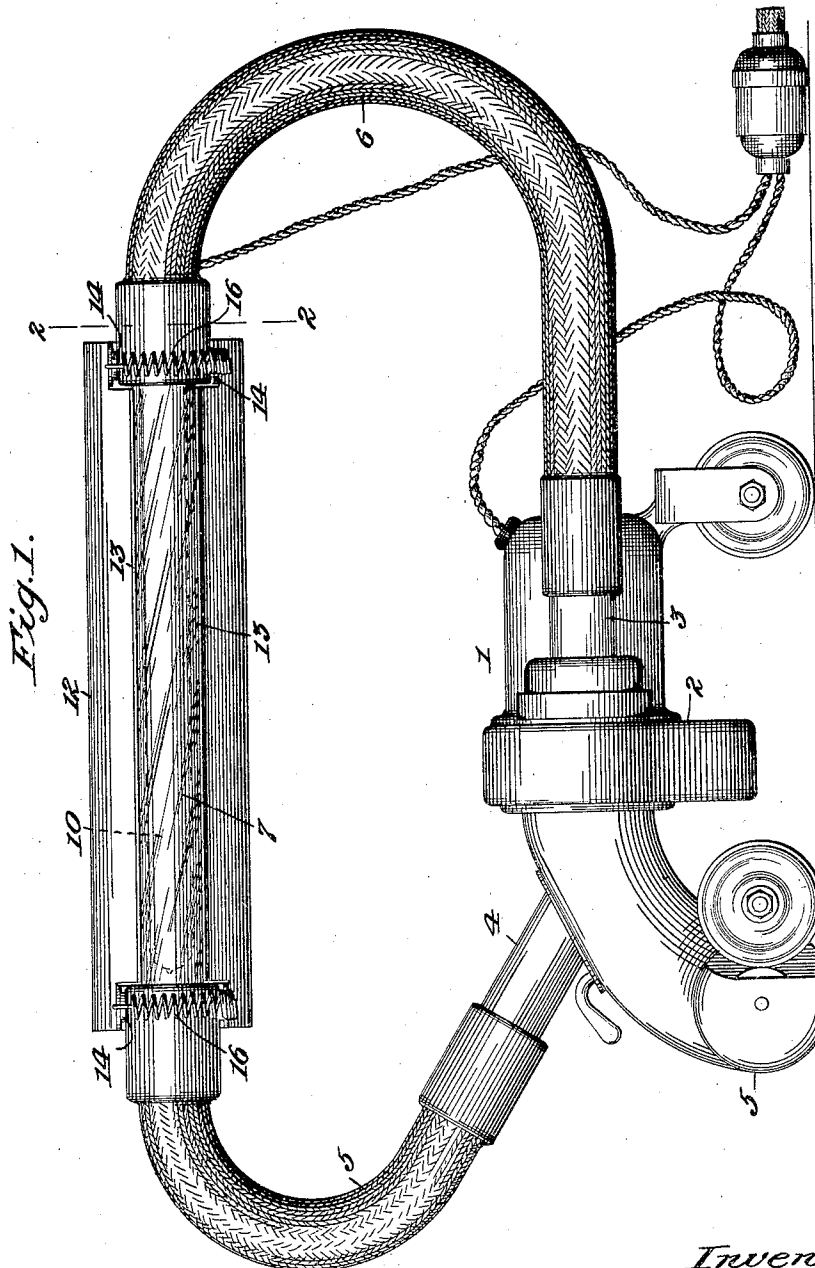
1,449,931

C. H. BARR

VACUUM CLEANER DEMONSTRATOR

Filed Mar. 7, 1922

2 sheets-sheet 1



Inventor:
Charles H. Barr
By Shurtz and Mason
Att'y.

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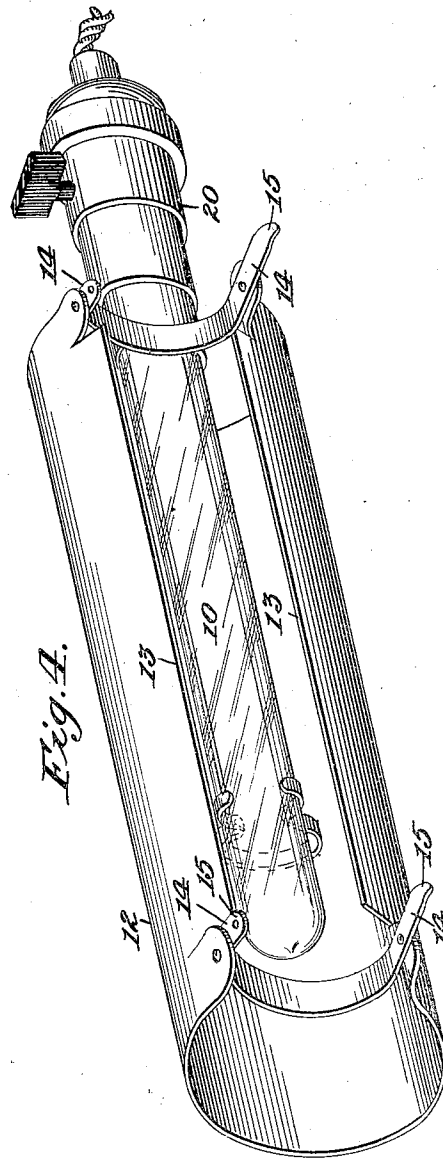
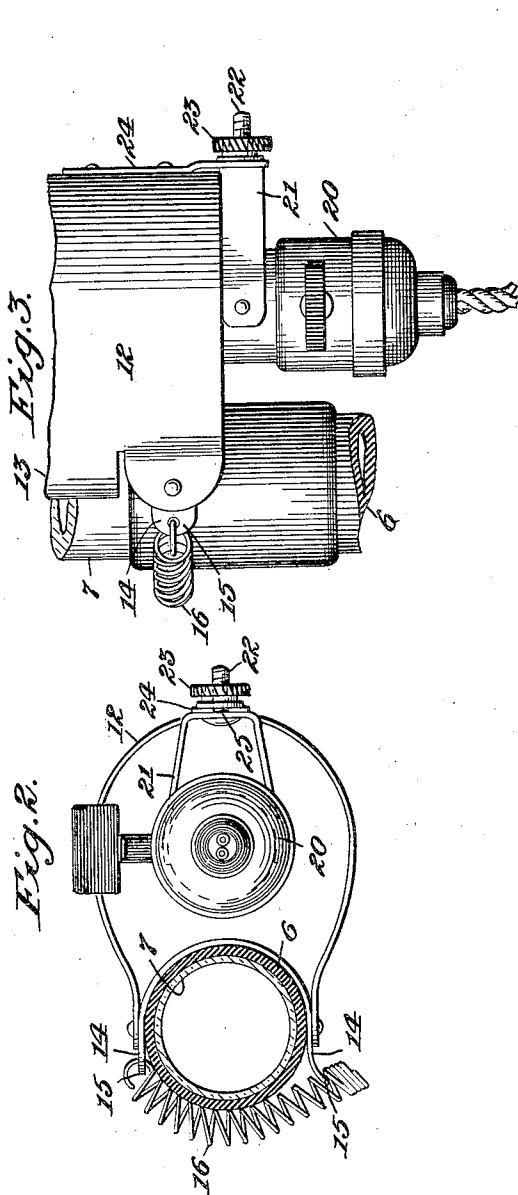
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2 sheets-sheet 2



Inventor:
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UNITED STATES PATENT OFFICE.

CHARLES H. BARR, OF TORRINGTON, CONNECTICUT, ASSIGNOR TO THE TORRINGTON COMPANY, OF TORRINGTON, CONNECTICUT, A CORPORATION OF CONNECTICUT.

VACUUM-CLEANER DEMONSTRATOR.

Application filed March 7, 1922. Serial No. 541,879.

To all whom it may concern:

Be it known that I, CHARLES H. BARR, a citizen of the United States, residing at Torrington, in the county of Litchfield State of Connecticut, have invented certain new and useful Improvements in Vacuum-Cleaner Demonstrators, of which the following is a description, reference being had to the accompanying drawing and to the figures of reference marked thereon.

This invention relates to a vacuum cleaner demonstrator.

The object of the invention is to provide a demonstrator in the form of a tubular conductor adapted to be attached at one end to the usual exhaust nipple of a vacuum cleaner in lieu of the dust bag and adapted at its opposite end for connection with the usual attachment nipple of the cleaner, so that a body of loose material such as dust, flour, meal, confetti, etc., placed within the conductor, will be carried around by the suction of the fan in a continuous unbroken or uninterrupted circuit; the tubular conductor at one point having a transparent tubular section or member, so that the material passing through may be readily viewed.

A further object is to provide the transparent section with means for illuminating it at night.

These objects I accomplish by the construction shown in the accompanying drawing, in which—

Figure 1 is a side elevation of a vacuum cleaner provided with my improved demonstrator;

Fig. 2 is a section on line 2—2 of Fig. 1 enlarged;

Fig. 3 is a plan of the parts shown in Fig. 2;

Fig. 4 is a perspective of the illuminating attachment removed.

The vacuum cleaner 1 is provided with the usual fan chamber 2, exhaust nipple 3, and the hose attachment nipple 4, which communicates as usual with the inlet side of the fan chamber 2 above the now closed floor nozzle 5. In other words, the vacuum cleaner will be adjusted as when used with a suction hose attached to nipple 4.

The demonstrator comprises a tubular conduit connecting the two nipple 3 and 4, so that the fan will cause an unbroken continuous current to flow through the conduit.

This conduit comprises two upwardly and inwardly curved tubes or sections of hose 5 and 6, connected at their upper intumed ends by a glass tube 7, and connected at their lower ends, respectively, to the nipples 4 and 3. It follows, therefore, that the fan will cause a continuous unbroken flow of air through the tubular conduit, and that dust or loose material placed within the conduit will be carried around continuously by the current and in passing through the glass tube will be in full view of the observers. This tubular conduit may be attached to modern vacuum cleaners by simply removing the dust bag and inserting the hose nipple 4, and then applying the free ends of the curved tubes thereto.

In order that the dust passing through the conduit may be visible in the dark, the electric light bulb 10 of elongated type may be secured in place parallel with the glass tube 7, as shown. The bulb 10 is mounted in a shield 12 open at its ends and also open at the side facing the glass tube 7, and there provided with parallel flanges 13 receiving the glass tube between them. Clamping arms 14 also extend forwardly from the shield 12 over the ends of the hose sections 5 and 6 with their outer free ends 15 connected by spiral springs 16 which hold the clamping arms securely in place.

The electric light socket 20 is provided with a support in the form of a yoke like bracket 21 from the outer cross piece of which projects an attaching screw 22 provided with a clamping nut 23. One end of the shield 12 is provided with an attaching arm 24 having a slot 25 to receive the screw 22 after which the nut 23 is screwed down to securely clamp the socket 20 to the shield. The inner end of the bulb 10 is supported by means of a spring clip 26 secured within the shield.

It will be seen that by starting the pump a continuous stream of air will pass in an uninterrupted circuit through the cleaner and the tubular demonstrator and that the dust in passing the transparent portion may be viewed by the observers.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent, is:

1. A vacuum cleaner demonstrator comprising a tubular glass member, tubular extensions connected with the respective ends

of said glass tube adapted for connection, respectively, with the hose attaching nipple and the exhaust or bag receiving nipple of an ordinary vacuum cleaner, and an illuminating means for the glass member, said illuminating means being mounted on said glass member.

2. A vacuum cleaner demonstrator comprising a glass tube provided at its ends with tubular extensions for connection at their free ends, respectively, with the hose attaching nipple and the exhaust or bag receiving nipple of an ordinary vacuum cleaner, a shield open at its side next to the glass tube, clamping means to secure the shield to the tube ends, and an electric light bulb within the shield.

3. A vacuum cleaner demonstrator comprising a glass tube provided with tubular extensions for connection at their free ends, respectively, with the hose attaching nipple and the exhaust or bag receiving nipple of an ordinary vacuum cleaner, a shield provided with clamps at its free ends for securing it to the ends of the glass tube, and open at the side next to said tube and there provided with forwardly extending flanges receiving the tube between them and an elongated light bulb within the shield parallel with the glass tube.

4. A vacuum cleaner demonstrator comprising a glass tube having tubular extensions at its ends for connection at their free ends, respectively, with the hose attaching nipple and the exhaust or bag receiving nip-

ple of an ordinary vacuum cleaner, a shield having forwardly extending clamps to engage the ends of the glass tube, springs drawing the outer ends of the clamps together, the shield being open at its side next to said glass tube, and an elongated electric light bulb within the shield.

5. The combination with a vacuum cleaner having a hose attaching nipple and a bag receiving or exhaust nipple of a tubular conduit of substantially uniform bore directly connecting the said two nipples, and having a glass section between its ends through which dust in its continuous passage may be viewed.

6. The combination with a vacuum demonstrator comprising the glass tube and its attaching end-extensions, of a reflector open at its side next to the glass tube and provided with end clamps for securing it in place; one end of the shield having an attaching arm, and an electric light socket having means for securing it to said arm, and a bulb carried by the socket.

7. The combination with a vacuum cleaner having a pump, of a demonstrator comprising a tubular conduit of substantially uniform diameter directly connected at its ends to the inlet and outlet sides of the cleaner, and having a transparent portion between its ends through which dust in its passage may be viewed.

In testimony whereof, I affix my signature.

CHARLES H. BARR.