

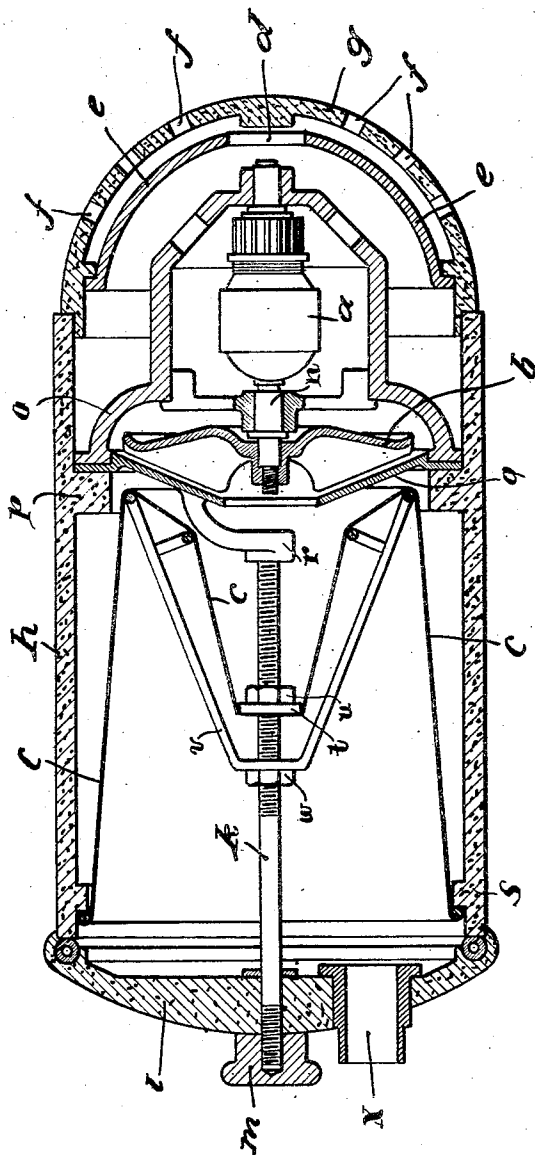
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O. ALDINGER

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CARPET DUST CLEANER

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UNITED STATES PATENT OFFICE

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CARPET DUST CLEANER

Application filed January 15, 1926, Serial No. 81,530, and in Germany September 2, 1924.

My invention relates to carpet dust cleaners, more especially of the type in which a motor driven fan enclosed in a casing exerts suction on the air from which the dust is to be extracted.

It is an object of my invention to protect the person operating the dust cleaner against electric shocks which may arise when coming in contact with the metal casing, and to reduce to a minimum the noise connected with the operation of the apparatus.

When a dust cleaner having a metal casing is opened for inspection the casing may accidentally be in contact with a pole of the electric system so that the person handling it may receive a shock which is particularly dangerous if the cleaner is operated at a comparatively high voltage, say 200 volts.

Another drawback of the metal casing is its sound reinforcing capacity, the casing acting as a resonator for the noise resulting from the operation of the fan and the motor.

These drawbacks are overcome according to my invention by providing a casing of suitable non-metallic and sound-deadening material. A material which has been found to be particularly suitable is cork composition. A carpet dust cleaner equipped with a casing of this material not only affords complete protection against short-circuiting and shocks but also reduces the noise to practically nil as compared with a device of equal size but equipped with a metal casing.

In the drawings affixed to this specification and forming part thereof a carpet dust cleaner embodying my invention is illustrated diagrammatically by way of example.

Referring to the drawings *h* is a cylindrical casing of electrically insulating and sound deadening material, and *g* and *i* are covers at both ends thereof and consisting of insulating material as well. Cork composition has been found to be very suitable. *n* is a shaft which is rotatably carried in suitable bearings of a flanged bracket *o* which may be secured to an annular projection *p* on the inside of the cylinder *h*. The armature of a motor *a* and a fan *b* are keyed on the shaft *n*. Another flanged bracket *q* is clamped between the projection *p* and the flange of the

bracket *o*, and *r* is a threaded boss at the end of an arm secured to or integral with the bracket *q*. A threaded rod *k* is secured in the boss *r* at one end. Its other end is also threaded and extends through the cover *i* where it is held by an insulating nut *m*.

c is a filter or screen which is secured to an annular projection *s* at one end and a washer *t* at the other end, this washer being held on the rod *k* by a nut *u*. A frame *v* is guided on the rod at its centre and adapted to be displaced by a nut *w* so as to impart tension to the screen *c*.

The cover *g* at the opposite end of the casing is hemispherical and perforated at *f*, *f*. A cap *e* with a central opening *d* is inserted in the cover *g*.

Air is drawn into the casing through a pipe *x* in the cover *i* and discharged through the opening *d* in the cap and the perforations *f* in the cover *g*.

It will be understood that the construction of the mechanical parts in the casing has no bearing on the invention, the only feature to be protected being the casing made of a non-conductive, sound deadening material.

I wish it to be understood that I do not desire to be limited to the exact details of construction shown and described, for obvious modifications will occur to a person skilled in the art.

I claim:—

Carpet dust cleaner comprising a casing or envelope of cork composition and an electric motor, a fan and a filter mounted in said casing or envelope.

In testimony whereof I affix my signature.
OTTO ALDINGER.

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