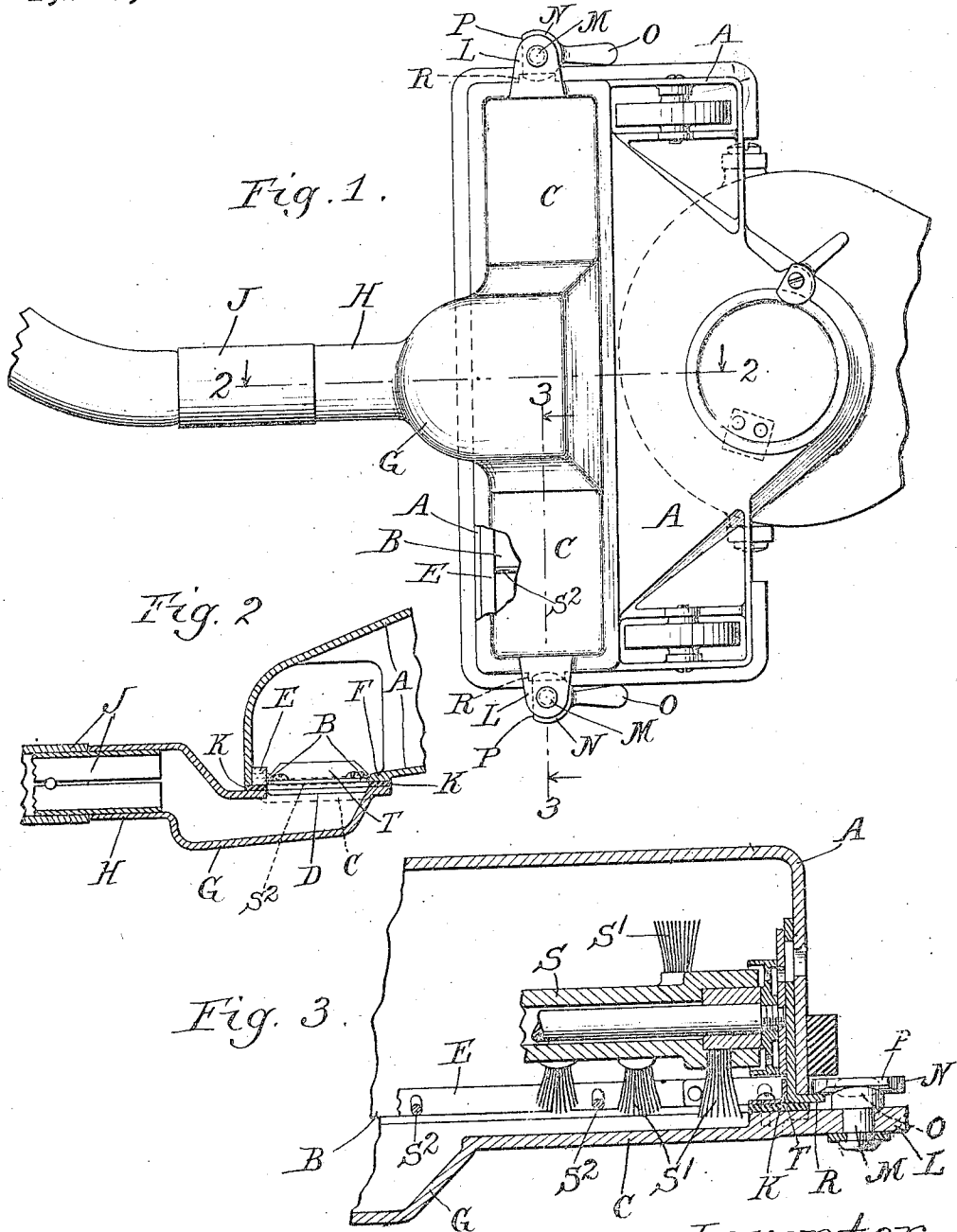


1,227,142.

Patented May 22, 1917.



Witnesses.
Edward T. Wray.
Minnie M. Lindenau

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UNITED STATES PATENT OFFICE.

HOWARD EARL HOOVER, OF CHICAGO, ILLINOIS, ASSIGNOR TO HOOVER SUCTION SWEEPER COMPANY, OF NEW BERLIN, OHIO, A CORPORATION OF OHIO.

CLEANER.

1,227,142.

Specification of Letters Patent.

Patented May 22, 1917.

Original application filed May 20, 1916, Serial No. 98,784. Divided and this application filed October 9, 1916. Serial No. 124,546.

To all whom it may concern:

Be it known that I, HOWARD EARL HOOVER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a certain new and useful Improvement in Cleaners, of which the following is a specification, this application being divided out of applicant's co-pending application, Serial No. 98,784, filed May 20, 1916.

My invention relates to suction sweepers and particularly to what I have called a converter device or a device whereby the apparatus which is commonly intended to be used on the floor can be converted into a device adapted to be used with a hose which can be applied to furniture, walls or ceilings or the like.

My converter is particularly applicable to and intended for use with suction sweepers wherein a power driven brush is used in proximity to the mouth.

It is illustrated in the accompanying drawings wherein

Figure 1 is a bottom view of a vacuum cleaner with my improvement attached;

Fig. 2 is a cross section on the line 2—2 of Fig. 1 with brush and carrying parts omitted;

Fig. 3 is a cross section on the line 3—3 of Fig. 1.

Like parts are indicated by the same letter in all of the figures.

A is the casing having the opening or mouth B. C is the pan-like closure for the mouth having the opening D of substantially the same area as the mouth of the casing. E is a bar and F a ledge which respectively border the mouth of the case. The pan has an enlarged or depressed central portion G with an outlet pipe H adapted to receive the hose connection J. K is a washer strip which may be interposed, if desired between the pan and the casing wall about the mouth. At each end of the pan is a projection L upon which is secured by the pivot M the cam N provided with a handle O. The cam is cut away at P and the case is provided with an outwardly projecting lug R so that when the cam is in the position shown in Fig. 1 the pan is locked to the case. When the cam is turned so that the cut away portion is adjacent to the case, then obviously the pan

will be free or disengaged. By this device the mouth of the cleaner is easily and readily closed by the dust and air-proof closure which permits easy attachment of the hose so that the cleaner can be converted from a floor cleaner into a wall or furniture cleaner.

S is the brush with the bristles S¹, and S² S² are guard fingers. The pan, it will be observed, is shaped so that it lies below the brush bristles so that when the brush is in position and particularly when it is rotating the pan portion of the converter does not make contact with the brush bristles.

One object of my invention is to provide simple means whereby a suction sweeper which contains a power driven brush may be quickly and easily converted from a floor machine to a wall machine or the like without even stopping the brush and without removing the brush even though it be stopped.

The enlarged portion G of the converter pan and the pipe which leads therefrom are centrally disposed so as to make the shortest possible path from the hose to the dust outlet within the case and the enlargement tends to concentrate the air action at this point. This apparatus, in fact, has a part of the case about the ends of the brush cut out of the line of air travel.

It will be understood, of course, that I do not wish to be limited to the particular size, proportion, form and arrangement of the several parts and that I wish my drawings to be taken as diagrammatic although they do present a substantially correct illustration of an operative machine.

The pan can be secured to the casing by any desired securing means.

T, T, are centering projections on the converter body or attached thereto in any desired manner, and they serve, when the converter is being inserted in place, to bring the parts into proper relation. The downwardly projecting part G can be used as a support for the apparatus and the hose connection piece rising above the bottom of this central portion G keeps the hose from dragging upon the carpet or floor and thus interfering with the action of the part G as a support.

I claim:—

1. In a suction sweeper the combination of an open mounted hood having end projections with a converter device having cen-

tering pieces adapted to be received within the hood and ends projecting beyond the hood, and with interlocking devices mounted on said ends and adapted to engage said
5 projections.

2. In a suction sweeper the combination of an open mouthed hood with a converter provided with a downwardly projecting portion, a hose connection arising from the
10 downwardly projecting portion at one side

of the hood and from a point above the bottom of the downwardly projecting portion, and means for detachably connecting the converter to the hood mouth.

In testimony whereof, I affix my signature in the presence of a witness this 22nd
day of September, 1916.

HOWARD EARL HOOVER.

Witness:

MINNIE M. LINDENAU.