April 29, 1930. T. J. MOORE 1,756,519

ATTACHMENT FOR SUCTION CLEANERS

Filed April 21, 1928

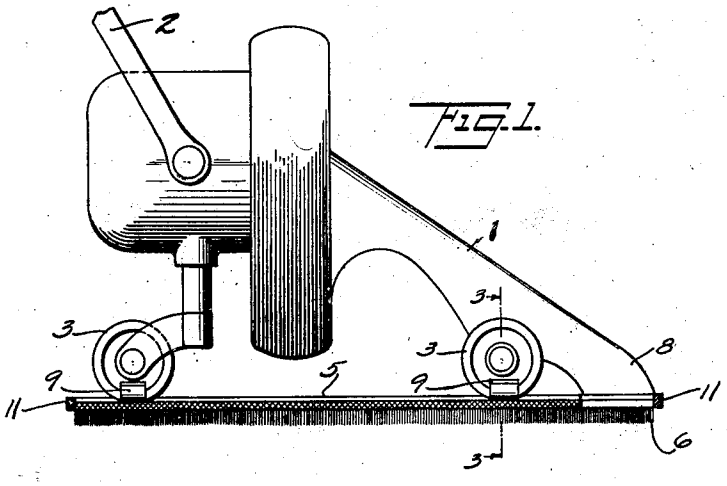


FIG. 1.

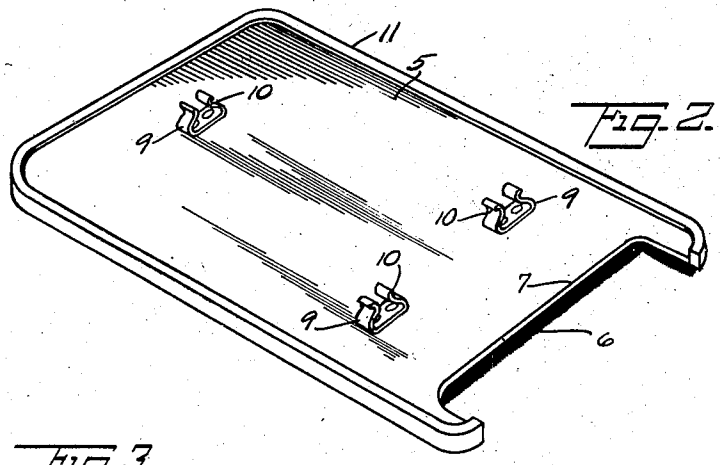


FIG. 2.

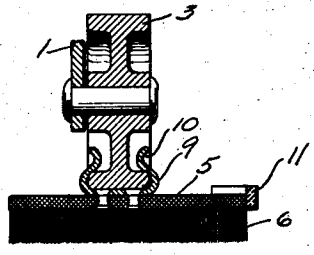


FIG. 3

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UNITED STATES PATENT OFFICE

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ATTACHMENT FOR SUCTION CLEANERS

Application filed April 21, 1928. Serial No. 271,669.

My invention relates generally to attachments for household suction cleaners, the suction of which is usually derived from a fan driven by an electric-motor and the apparatus is supported upon ground-wheels by means of which the operator may readily move the cleaner over the floor in the cleaning operation. There are several different constructions of these portable cleaners now in extensive use, and various detachable appliances are used with them in order to increase their facilities and usefulness and to render house-work easier. One of the principal objects of my present invention is to provide a floor rubbing or polishing attachment, which may be easily and removably secured underneath the suction-cleaner, so that not only is the full dead weight of the same thus utilized as a pressure element for holding my appliance down to its work on the floor, but the cleaner, including the handle, is used as the supporting and operating means by which the operator may apply my device in its assigned work. Other objects of my invention will appear from the hereinafter detailed description of the improvements.

I have illustrated a type of my invention in the accompanying drawings, wherein;

Figure 1, shows a side elevation of an ordinary type of suction cleaner with my improved device removably secured to the ground-wheels beneath the same, so as to take in practically the whole area of the base of the cleaner.

Figure 2, shows a perspective view of my device detached from the cleaner.

Figure 3, shows an enlarged view of a detail of the releasable fastener, the plane of the section being in the vertical and passing through the axis of a ground-wheel.

Referring to the drawings, 1 designates an ordinary suction cleaner, having the usual handle 2, and two forward and one rear ground-wheel 3, upon which the cleaner is supported and which serve to permit its movement over the floor, in the operation of cleaning the same.

My attachment comprises a flat rectangular-shaped body or member 5, made of durable material and preferably of sufficient length and width to include in its horizontal area, the basal area of the cleaner, so that the ground-wheels 3, lie some distance from the adjacent edges of the member when it is secured in place beneath the cleaner. Thus the body has a substantial area in order that it may not only have a large working-surface for acting upon the floor under treatment, but also to enable the body to be so positioned beneath the entire cleaner structure as to receive its total weight thereon. The large size of the body serves also to give a strong and solid quality to the assembled structure so that all of the various strains thrown upon the same may be well resisted and the device made more perfect in its operation.

The underside of the member or plate 5, is faced with a brush surface 6, made of ordinary bristles, and for this purpose there may be used any of the several well known waxing or polishing brush materials or means now on the market. It will also be noted that any other well-known kind of surface material may be applied to the member 5, instead of the bristles, as the character of the material may vary according to the character of the work to be done on the floor, such as ordinary dust or dirt cleaning, or waxing, or polishing or rubbing down the surface of the floor.

The forward end of the member or plate 5, is forked or recessed at 7, to receive the suction nozzle 8, of the cleaner, so that if preferred the motor of the cleaner may be run and the suction operation performed, while the attachment is in service. With this arrangement, the dirt or foreign matter loosened from the floor by my attachment, will be taken up by the suction and thus removed, thereby giving a cleaner polished or rubbed surface.

The member 5, is provided with spring-catches or clips 9, 9, on the upper side thereof, one being arranged for each ground-wheel 3, the peripheral rims of which are engaged by the spring-jaws 10, of the clips. This serves to securely hold the member snugly in place beneath the wheels. By this means the device may be quickly and easily attached in operative position and also quickly and easily

removed when so desired. In using the attachment, it is secured in place beneath the cleaner and receives the full weight thereof. The operator then moves the apparatus back and forth over the floor by means of the operating-handle 2, in the manner of operating the cleaner in its ordinary use. The weight of the cleaner itself, added to the weight of the attachment, which may be made especially heavy if desired, gives the desired pressure on the floor of the polishing or waxing brush surface and thus it is made to replace the well known heavily weighted waxing-brushes.

In addition to the dead weight of the combined apparatus, the operator in actuating the same by means of the handle applies considerable pressure thereto and this may be increased as he wishes, so that all told, great pressure is applied against the floor surface by the bristles or rubbing surface of my device.

The member 5, has its entire exposed edge covered with a soft material 11, to prevent marring or injuring any object with which the member may collide in operating the attachment.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:—

1. The combination with a portable suction floor cleaner having ground-wheels for engaging the floor and provided at one end with a suction-nozzle, of a floor rubbing device comprising a member having an area substantially sufficient to include said ground-wheels when placed beneath said cleaner and to receive the weight of the superimposed cleaner, one edge of said member being cut-away to fit around said nozzle, said member being provided with releasable fasteners for removably engaging said cleaner to hold it in place, the under side of said member being provided with rubbing means for engaging and acting upon the floor.

2. The combination with a portable suction floor cleaner having ground-wheels for engaging the floor, of a floor-rubbing device comprising a member having an area substantially sufficient to include said ground-wheels when placed beneath said cleaner and adapted to receive the weight of the superimposed cleaner, said device being provided with spring-clips for removably engaging the rims of said ground-wheels to sustain the device in operative position, the underside of said member being provided with rubbing means for engaging and acting upon the floor.

Signed at New York city, in the county of New York and State of New York, this 17th day of April, 1928.

THOMAS J. MOORE.