Fig. 1.

Fig. 2.

Fig. 3.

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AIRWAY CLEANER SUPPORT

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This invention relates to apparatus for supporting airway electric suction cleaners, in which a hose-pipe connection is used to operate from the end of its suction pipe handle. In such cleaners it is usual in applying the floor tool to use floor roller supports which normally support the device at an angle of about 35 or 40 degrees with the floor, which is about the most convenient angle for sweeping purposes; but when the cleaner is to be set away, it is found more economical of space, and more easily concealed from view, to stand it in the erect position. In the erect position however, it has been necessary to lean the cleaner against a wall or some support, since the body and handle thereof are rigid and will not bend into position so as to throw their weight over the motor as is the case with the swinging handle type of cleaner.

Moreover, in the airway type of cleaner, which uses a suction handle, a hose-pipe extension of the handle, for other than floor cleaning, extension tubes and tools for further extension of the hose-pipe, and also paper dust filters for interior use in the device, it is desirable to provide a convenient place for keeping these accessories near the cleaner, where they may be readily seen and used, instead of having them at remote places where they are forgotten.

The objects of the present invention, therefore, are to provide an easel or standard for resting the cleaner in an erect position, to provide means for holding the suction hose-pipe in working connection therewith, to provide for holding extension pipes and other accessories for the cleaner, to display the same, and other objects as may appear in the specifications and claims.

To these ends, the invention consists of the design, construction and arrangement of parts as specified herein and illustrated in the accompanying drawings, in which:

Figure 1 is a view in perspective of the easel with a pair of extension tubes and a dust filter in place and with an airway cleaner with its hose connection in place, ready to be set away.

Figure 2 is a side elevation of the same, suggesting one of the extension tubes attached to the hose-pipe for service.

Figure 3 shows a side view of the two main portions of the easel separated and placed in position for convenient wrapping or packing.

Figure 4 is a perspective of the easel or standard hooked to a wall, carrying the hose-pipe and an L connection for the same, but with the cleaner removed.

Figure 5 is a view suggesting the manner of hooking the easel and cleaner with the hose-pipe attached to the swinging door of a closet, so that the hose-pipe shall be ready for use.

Like characters of reference denote like and corresponding parts in the several views.

Referring to the drawings, 1 denotes the body of a cleaner to be supported and 2 the suction pipe handle thereof which is to be operatively connected to the hose-pipe 3 through the medium of the swivelled L member 4, supported by a wire frame easel or standard comprising an upper frame 5 and a base frame 6. The upper frame 5 has a resilient loop or eye 7 preferably formed integral therewith, into which the neck of the L member 4 is inserted and permitted to have a rotative or swivelling motion; a mouth 7 of the member 4 being disposed to receive the end of the suction handle 3 and effect a seal therewith by the tension of the flexible wires of the frame 5. Since the wires are bent forward at 8, 8, when the rear roller support 21 of the cleaner sits on the rests 12, 12, the handle will not enter the mouth 7 without the wires being sprung upward and backward stressing the resilient frame. When so stressed it snaps the L member 4 into engagement with the handle, in response to the handle being pressed in by the hand. This arrangement also serves to firmly hold the handle of the cleaner and keep the whole in an erect position on the easel. A pair of loops, 9, 9, suitable on which to hang accessories, such as an electric cord, are formed from a wire which also having bent into it a hanger loop 19', is spot-welded to the frame 5, preferably near its upper end.

Another wire clamp 10, having pipe re-
taining lugs 10', 10' bent into it, is connect-
e to the frame 5 below the hanger loops 9, 9, 
etc. The latter is designed in addition to 
clamping pipes like 16, to hold dust filtering 
 bags as suggested at 13. A yoke 14 rigidly 
secured at both sides of the base frame 6 is 
arranged so that over turned lugs thereof 
are in vertical line over the eyes 15, 15, which 
are formed from a single wire having its ends 
spot-welded to both sides of the base 6. These 
lugs and eyes serve as sliding ways for the 
two wire legs of the upper frame 5 and per-
mit it to be slid upwards or downwards to 
adjust the easel to a proper length before it 
is to be fastened into place at the length re-
quired. The feet 11, 11, of the base 6, are 
mainly formed from loops 11', 11', which are 
spread wide enough to serve as holders for 
the lower end of extension pipes as 16, the 
upper ends of which are retained by lugs 10' 
of the wire clamp 10. Bracing wires may be 
crossed between the feet 11, 11 so as to form 
a V-shaped loop 20' to cooperate with the 
loop 19' when the easel with its contents are 
to be hooked to a wall or door by hooks 19 
and 20.

In using the device, when disconnected 
from the wall or door, the feet 11, 11, in con-
junction with the end rollers of the floor tool 
18, make the four points of support on which 
the easel and its lading are held erect while 
cleaning at remote places with extension tools 
such as the tool 17 and the like.

Having now described the device and its 
use, it is evident that the construction may 
be greatly varied and made from materials 
other than wire, without departing from the 
spirit of the invention. What I claim and 
desire to secure by Letters Patent is:

1. A standard provided with supports for 
the body and detachable suction hose-pipe of 
a suction cleaner, the said standard compris-
ing an upper frame and a base frame, the 
upper frame carrying the hose-pipe support 
and the base frame carrying the body sup-
port for the cleaner, and the frames being 
adjustably connected to vary the distance be-
tween said supports.

2. A standard for supporting a suction 
cleaner having a suction inlet, said standard 
including an upper frame and a base frame, 
means on said base frame for supporting the 
body of the cleaner, the said upper frame 
having integrally constructed therewith a 
looped member, a hollow L member detach-
ably swivelled in said looped member, said 
L member being adapted to connect with a 
suction inlet of the cleaner, when said clean-
er is supported by said standard.

3. A standard for a suction cleaner, which 
cleaner includes a body and a suction handle; 
said standard including a lower frame and an 
upper frame slidably connected to vary the 
length of the standard, means on said lower 
frame for supporting the body of said clean-

In testimony whereof I affix my signature.

DANIEL BENSON REPLOGLE.