

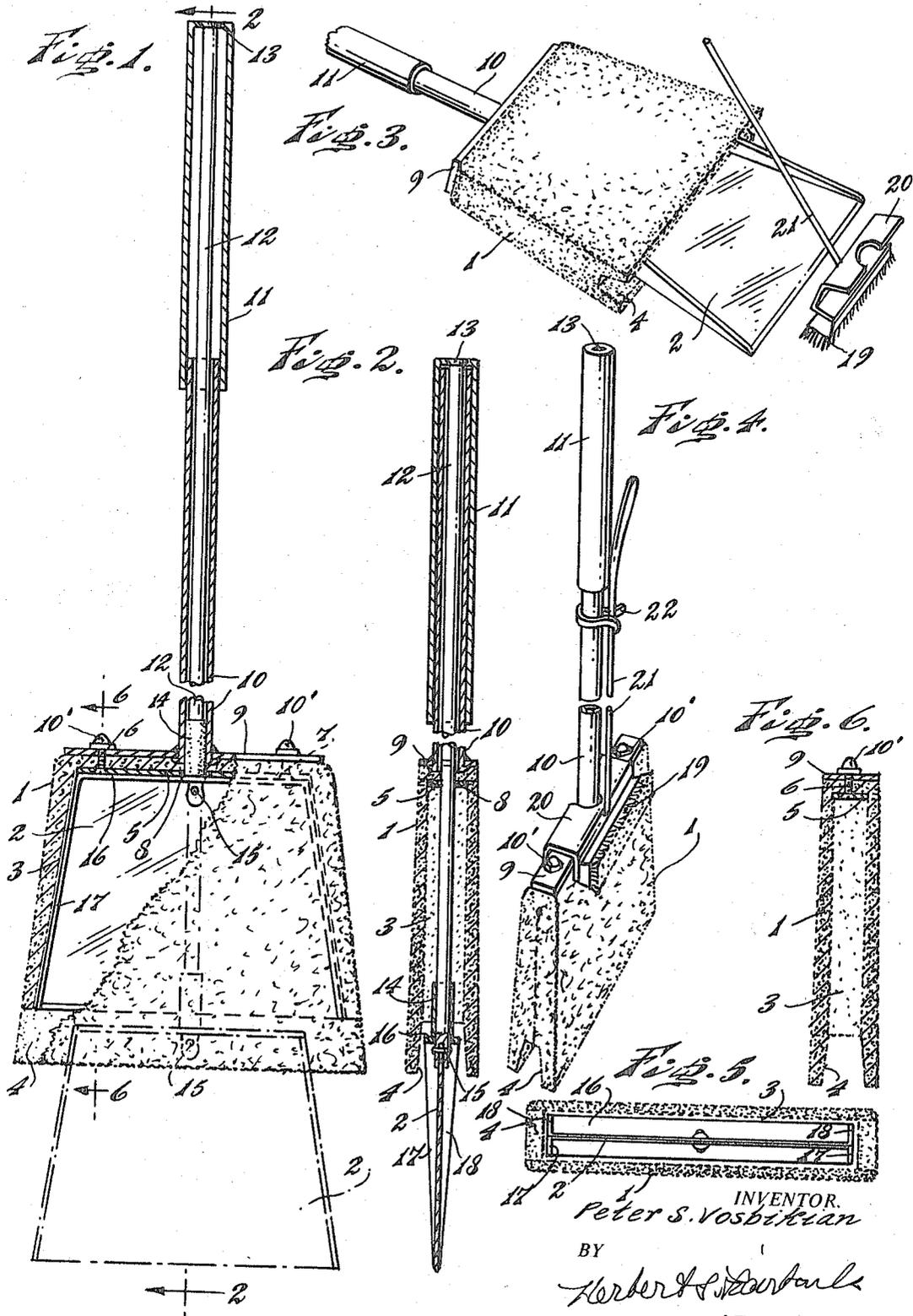
June 13, 1967

P. S. VOSBIKIAN
CLEANING DEVICE

3,324,494

Filed Feb. 24, 1965

2 Sheets-Sheet 1



INVENTOR
Peter S. Vosbikian

BY
Herbert S. ...

ATTORNEY

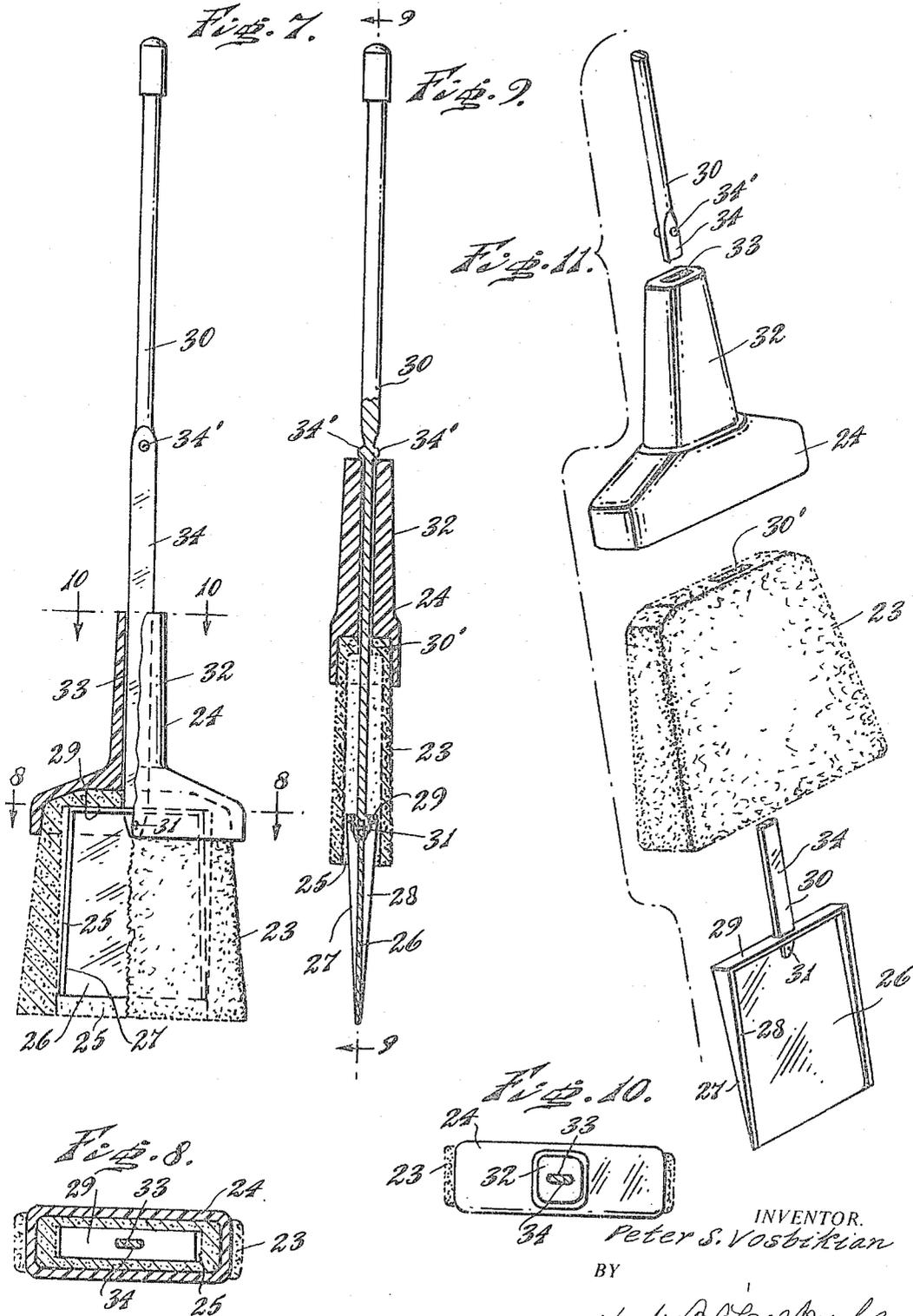
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Herbert A. Vosbikian
ATTORNEY

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CLEANING DEVICE

Peter S. Vosbikian, Melrose, Pa.

(1315 Cumberland St., Philadelphia, Pa. 19132)

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In the average household, ashes, dust and foreign material collect around chairs and tables, but not in sufficient quantities to warrant the assembly and use of a vacuum cleaner. As a result, the housekeeper collects this foreign material with a dust pan and brush, and in some cases has to use a broom to remove the material from the rug, carpets or floors.

In this invention I have devised a novel cleaning device comprising a broom having normally concealed within it a dust pan with means for causing relative movement of the broom and dust pan to expose the pan for use and also with means for maintaining proper alignment of the brush and dust pan at all times. If desired, a dust brush with a comparatively long handle is detachably connected with the device.

With the foregoing and other objects in view as will hereinafter clearly appear, my invention comprehends a novel construction and arrangement of a broom and dust pan.

For the purpose of illustrating the invention, I have shown in the accompanying drawings preferred embodiments of it which I have found in practice to give satisfactory and reliable results. It is, however, to be understood that the various instrumentalities of which the invention consists can be variously arranged and organized, and that the invention is not limited, except by the scope of the appended claims, to the exact arrangement and organization of these instrumentalities as herein set forth.

FIGURE 1 is a front elevation, partly broken away, of a cleaning device embodying my invention, with the dust pan withdrawn into the broom, as shown in full lines and extended, as in the dot and dash lines.

FIGURE 2 is a section on line 2-2 of FIGURE 1, but with the handle shown depressed and the dust pan extended into operating position.

FIGURE 3 is a perspective of the cleaning device with the dust pan in operating position, together with the detachable dust brush.

FIGURE 4 is a perspective view of the cleaning device showing the dust pan withdrawn within the broom and the dust brush clipped to the operating handle.

FIGURE 5 is a bottom view of FIGURE 1.

FIGURE 6 is a section on line 6-6 of FIGURE 1, with the dust pan removed.

FIGURE 7 is a front elevation, partly broken away, of another embodiment of the invention.

FIGURE 8 is a section on line 8-8 of FIGURE 7.

FIGURE 9 is a section on line 9-9 of FIGURE 7, but with the broom head retracted to expose the dust pan.

FIGURE 10 is a section on line 10-10 of FIGURE 7.

FIGURE 11 is an exploded perspective view showing the component parts of the cleaning device.

Similar numerals of reference indicate corresponding parts.

Referring first to FIGURES 1 to 6 of the drawings:

A broom 1 has normally concealed within it a dust pan 2. The broom material may be of any desired character, such as fiber glass, plastic, or any desired type of bristle material.

The broom 1 may be formed from a single strip of material as shown, and provided with a cutout portion

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3, adapted to receive the dust pan 2, and has a cut away portion 4 at its bottom to provide for better flexibility. A retaining bar 5 is inserted in the middle of the strip of broom material, and the broom material is folded over this bar, and the marginal edges of the material are then fixed together in any desired manner, such as by heat sealing, as best seen in FIGURE 4. The retaining bar 5 is provided with bolts 6 and 7 and a clearance hole 8 at its central portion. The bolts 6 and 7 are received in a bar 9 and held thereon by fastening means such as nuts 10', as best seen in FIGURE 1. The bar 9 has fixed thereon at its central portion in any desired manner, such as by welding, a tubular handle 10; said handle 10 is adapted to telescope within an outer handle 11. The handle 11 is adapted to receive within its bore a dust pan handle 12, said handle 12 being fixed to the top of the handle 11 at 13 in any desired manner, such as by welding. The handle 12 at its lower end may be provided with a plastic sleeve 14 adapted to be received in the bore of the handle 10, when the dust pan is in its retracted position within the broom, as best seen in FIGURE 1. The handle 12 is fixed to the dust pan 2 in any desired manner, such as by riveting as at 15. The dust pan may be constructed of plastic to provide flexibility and has formed thereon a back 16 and side flanges 17 and 18 on opposite faces of the pan. The dust pan, though flexible, has sufficient rigidity to stiffen the broom material in the sweeping operation.

If desired, a dust pan brush 19, provided with a U-shaped lower retaining portion 20, adapted to be received on the head of the broom, as best seen in FIGURE 4, is also provided, and with a handle 21 which is retained on the broom handle 10 by clip 22.

In the operation of this embodiment of the invention the dust pan is normally concealed within the broom and acts as a stiffener for the broom material. The relative movement between the broom and the dust pan is caused by moving the dust pan forwardly to expose it for use.

In the embodiment shown in FIGURES 7 to 11 inclusive, the cleaning device consists of a broom head 23 composed of any desired material, adapted to be received in a holder 24, and held therein in any desired manner, such as by cementing. The broom head 23 is recessed at 25 to receive a dust pan 26, said dust pan being provided with sides 27 on one face and sides 28 on the opposite face and a back 29. The dust pan 26 is provided with a handle 30, fixed thereon such as by riveting as at 31, and passes upwardly through a slot 30' in the broom material. The broom holder 24 is provided with a grasping portion 32, said portion 32 being provided with a slot 33 to receive, align and guide the handle 30, which is flattened as at 34. The upper part of the handle 30 near the termination of the flattened portion is provided with projections 34' forming stops to limit the extent of the rearward movement of the broom holder 24. The upper end of the dust pan handle 30, in this embodiment, forms the grasping handle for sweeping.

The relative movement of the broom and dust pan is caused by rearward movement of the broom to expose the dust pan for use, and during such movement, the broom and dust pan are maintained in alignment as before explained.

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

1. A cleaning device comprising a broom, a dust pan concealed within the broom, said pan having a central web having flanges at the back and opposite sides and extending outwardly beyond the front and rear faces of

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the web, said broom being chambered out to receive the dust pan, the sides of the broom being closed except at the forward end of the broom, a handle fixed to the rear end of the dust pan and a broom handle fixed to the broom and in telescopic relation with said dust pan handle. 5

2. The cleaning device defined in claim 1, wherein the dust pan is in the form of a flexible plate, with its side flanges tapering forwardly and normally concealed within the broom, to stiffen the broom material during a sweeping operation. 10

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DANIEL BLUM, *Primary Examiner.*