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A. H. ROY

2,172,808

BRUSH ATTACHMENT FOR DUSTPANS

Filed March 31, 1938

Fig. 1.

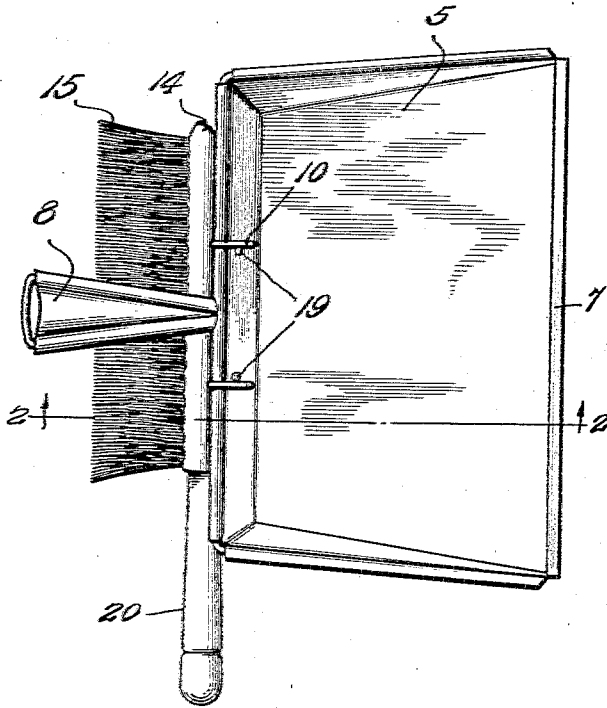


Fig. 4.

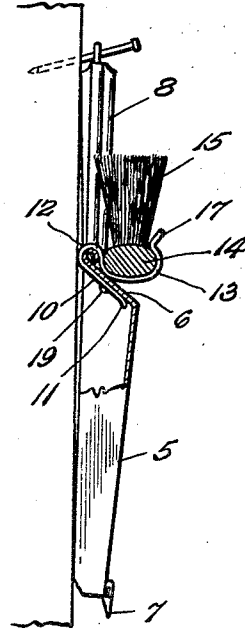


Fig. 2.

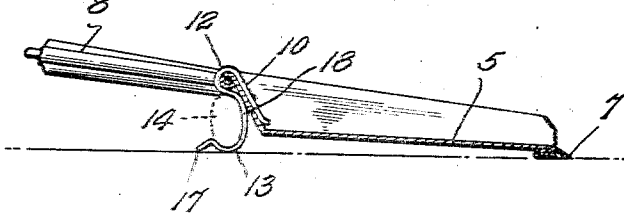


Fig. 5.

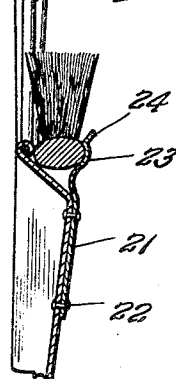
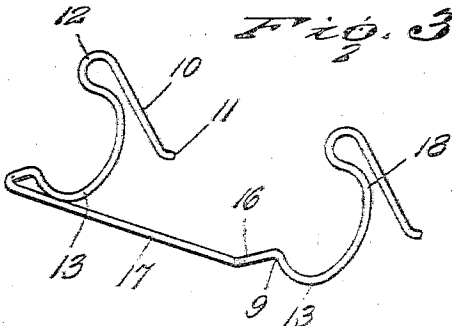


Fig. 3.



Inventor

Alfred H. Roy.

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Lacey & Lacey,

Attorneys

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BRUSH ATTACHMENT FOR DUSTPANS

Alfred H. Roy, Hudson, N. H., assignor of twenty per cent to Walter J. Roy and twenty per cent to Robert A. Roy, both of Hudson, N. H.

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2 Claims. (Cl. 65—62)

This invention relates to a brush attachment for dust pans and has for its object to provide a comparatively simple and inexpensive device of this character in which the brush is detachably mounted on the dust pan and movable therewith as a unit so that the brush is readily accessible at all times for immediate use when desired.

A further object of the invention is to provide a combined dust pan and brush in which the brush is supported on the rear wall of the dust pan beneath the handle thereof so as to permit the dust pan with the brush in position thereon to be conveniently suspended from a nail or other support and thus occupy very little space when not in use.

A further object is to provide a brush attachment comprising a resilient supporting clip adapted to detachably engage the rear wall of a dust pan and provided with a bar or lip which coacts with the handle of the dust pan to prevent displacement of the brush.

A further object is to so construct the supporting clip that by resting the back of the brush on the bar or lip and imparting a slight rotary movement to the brush, the head or back of the brush will be guided to its seat within the supporting clip by engagement with the lower face of the handle of the dust pan.

A still further object of the invention is generally to improve this class of devices so as to increase their utility, durability and efficiency.

In the accompanying drawing forming a part of this specification and in which similar numerals of reference indicate corresponding parts in all the figures of the drawing:

Figure 1 is a plan view of a combined dust pan and brush embodying the present invention.

Figure 2 is a transverse sectional view taken on the line 2—2 of Figure 1, the head of the brush being shown in dotted lines within the supporting clip.

Figure 3 is a perspective view of the resilient supporting clip detached.

Figure 4 is a vertical view, partly in section, showing the combined dust pan and brush suspended from a nail or other suitable support, and

Figure 5 is a similar view illustrating a modified form of the invention.

The improved attachment forming the subject-matter of the present invention may be used in connection with any style or type of dust pan and by way of illustration is shown applied to a standard dust pan in which 5 designates the body of the pan, 6 the inclined rear wall thereof, 7 the rubber floor-engaging lip and 8 the supporting

handle extending laterally from said rear wall. The device comprises a resilient supporting clip 9 preferably constructed from a single length of spring wire having its opposite ends bent downwardly to form spaced inclined clamping arms 10 having deflected terminals 11. After the arms 10 are formed the wire is bent to produce loops 12 adapted to receive the upper edge of the rear wall 6 of the dust pan, the wire being thence extended downwardly to form substantially semi-circular loops constituting seats 13 adapted to receive and support the back or head 14 of a brush 15 of standard construction. After the loops or seats 13 are formed, the wire is bent laterally at 16 to form a bridging bar 17 which connects the seats 13, as best shown in Figure 3 of the drawing. It will here be noted that the rear portion of the loops or seats 13 are bent inwardly at 18 so as to coact with the arms 10 and firmly clamp said arms in position on the rear wall of the dust pan. If desired, the metal constituting the rear wall 6 of the dust pan may be pressed outwardly to form stop lugs 19 for centering the clamping arms of the supporting clip on opposite sides of the handle 8 and preventing sliding movement of the clip on the rear wall of the dust pan. In positioning the brush on the dust pan, it is merely necessary to grasp the handle 20 of the brush and rest the head 14 thereof on the bridging bar 17 when by imparting a slight turning or rotary movement to the brush head the latter will enter the seat 13, said brush head being guided into the seat by engagement with the lower face of the handle 8 of the dust pan. In order to remove the dust brush, a slight rotary movement is imparted to the brush head in the opposite direction when the head of the dust brush will roll over the bridging bar 17 and permit the brush to be used in the usual manner.

Attention is here called to the fact that the dust brush is mounted on the rear wall of the dust pan immediately beneath the handle 8 thereof so that, when the brush is in position on the dust pan, the handle 8 will coact with the bar 17 and assist in preventing accidental displacement of said brush. The mounting of the dust brush on the rear wall of the dust pan immediately below the handle thereof also permits the dust pan with the brush in position thereon to be suspended from a nail or other suitable support so as to occupy very little space when not in use, as best shown in Figure 4 of the drawing. Inasmuch as the bristles of the brush extend rearwardly at the back of the dust pan, there is no liability of the brush bristles becoming filled

with dirt when the dust pan is used with an ordinary broom while the brush is in position thereon which would otherwise occur if the brush were mounted above the handle or in front of the rear wall thereof.

The supporting clip being detachable, it can be readily applied to any style of dust pan without necessitating any structural changes therein. It will, furthermore, be noted that, when the dust pan is in use, the seat 13 and bridging bar 17 will bear against the floor and thus give the desired pitch or angle to the bottom of the dust pan when sweeping dust or other foreign particles therein, as best shown in Figure 2 of the drawing.

In Figure 5 of the drawing, there is illustrated a modified form of the invention, in which the attachment is in the form of a metallic plate 21 having one end thereof spot welded, riveted or otherwise rigidly secured to the bottom of the dust pan, as indicated at 22, and its forward end bent to form a seat 23 terminating in a retaining lip 24, the construction and operation of this form of the device being otherwise the same as that shown in Figures 1 to 4 inclusive.

The device is exceedingly simple in construction and by the use thereof a dust brush will always be in convenient position on the pan for immediate use. Owing to the disposition of the brush with respect to the handle of the dust pan, said dust pan may be suspended from a nail so as to lie flush against a wall and thus conserve space particularly in small apartments where it is necessary to utilize all available space.

It will, of course, be understood that the devices may be made in different sizes and shapes and constructed of any suitable material without departing from the spirit of the invention.

Having thus described the invention, what is claimed as new is:

1. In combination with a dust pan having a handle and a rear wall provided with stops spaced from each other longitudinally of the rear wall and disposed at opposite sides of the handle, a resilient supporting clip disposed back of the rear wall and comprising substantially U-shaped brush-engaging clamps spaced from each other longitudinally of the rear wall, a bridging bar extending between outer ends of said clamps to hold the clamps in spaced relation to each other, the outer portions of said clamps cooperating with said bar to guide the brush into place for gripping engagement by the clamps and abutting engagement with the under portion of the handle, and jaws carried by inner arms of said clamps for straddling the rear wall and together with the clamps tightly gripping the wall, said jaws having engagement with said stops to prevent shifting of the clip along the rear wall of the dust pan.

2. A brush holding attachment for a dust pan comprising a strand of resilient material bent intermediate its length to form a bridging bar having arms extending from its ends, the arms being bent at points spaced from the bridging bar to form depending substantially U-shaped brush-engaging clamps open at their upper ends, and fingers carried by upper ends of inner arms of the clamps in depending relation thereto and cooperating therewith to form jaws for gripping the rear wall of a dust pan, said bridging bar and the adjacent portions of the arms serving to guide the back of a brush into said clamps.

ALFRED H. ROY.