Feb. 7, 1950 W. F. MALONE 2,496,735

COVERED DUSTPAN

Filed June 18, 1948

FIG 1

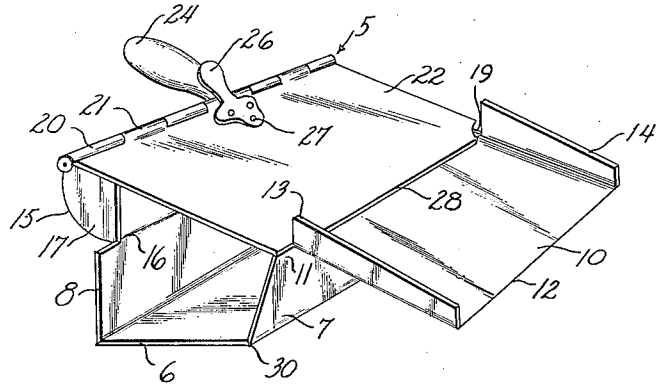


FIG 2

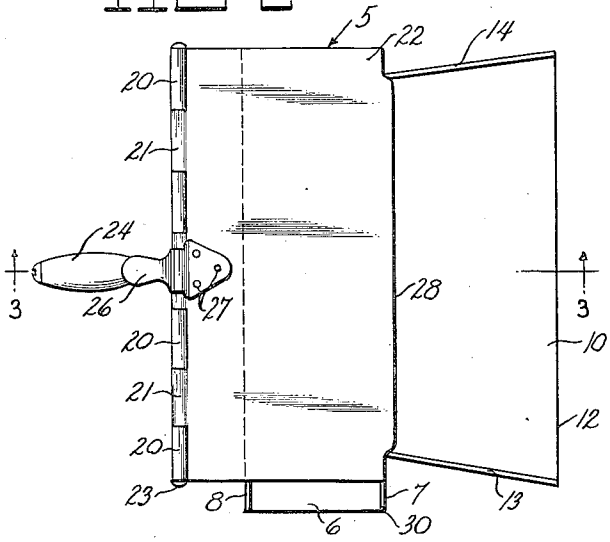
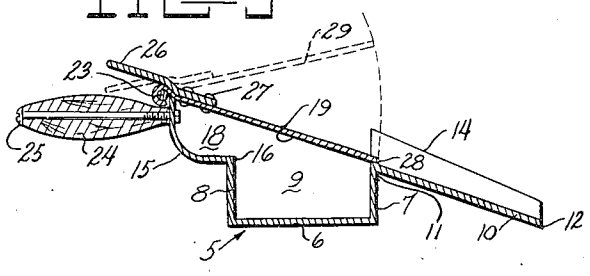


FIG 3



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COVERED DUSTPAN

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1 Claim. (Cl. 65—20)

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This invention relates to a dustpan, and particularly to type of dustpan having a hinged cover upon a portion thereof.

The main object of my invention is to provide means for sweeping up dust and dirt without danger of the dust flying about during the sweep-up operation by catching and covering the dust as received.

Another object is to provide dust-receiving means of the character indicated having facilities for catching and trapping the dust and dirt received and thereby covering it to prevent accidental escape or spreading thereof.

A further object is also to provide such dust-receiving means with facilities for discharging a load of dust without spilling or scattering any of the contents being discharged.

It is likewise an object to make a dustpan having the outlined characteristics of simple and practical form and at reasonable cost in order to encourage wide adoption and general use, thereby conferring on the public the advantages accruing from its practical application.

Other objects and advantages of my invention will appear in further detail as the specification proceeds.

In order to facilitate ready comprehension of this invention for a proper appreciation of the salient features thereof, the invention is illustrated on the accompanying drawing forming part hereof and in which:

Figure 1 is a perspective view of a covered dustpan made according to the invention and embodying the same in a practical form;

Figure 2 is a plan view of the same covered dustpan;

Figure 3 is a transverse section of the pan of Figure 2 taken on line 3—3.

In the three views, the same reference numerals indicate the same parts.

In sweeping the rooms in a house, the housewife is constantly chasing dirt, and particularly dust, which she sweeps into small heaps to be swept up one after the other. However, at this point, the housewife runs afoul of the danger of partly undoing her work, as the act of sweeping up piles of dirt into conventional dustpans tends to raise some of the dust into the air to settle again about the room and on the floor because it is all too easily disturbed and caused to fly up and float around instead of dropping and remaining on the dustpan used. Similar remarks apply to the disposal of the dust accumulated on the dustpan, for some will tend to be spilled and some will certainly tend to fly up in the air as caution

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is difficult to observe when handling a dustpan of the well known type.

After considering this problem, I have found it quite feasible to construct a special dustpan avoiding the mentioned disadvantages and fulfilling the foregoing objects, as will be described forthwith.

Hence, in the practice of my invention, and referring again to the drawing, the novel dustpan, generally indicated at 5, includes a dust bin or box consisting of a substantially flat bottom 6, an upright front wall 7, an upright rear wall 8 and an end wall 9 connected to the bottom and the front and rear walls, the near end of the box being open. These front and rear walls are substantially of the same height, the front wall having a forwardly and downwardly-inclined lip 10 extending integrally from the upper end or edge 11 thereof. This forwardly-inclined lip is of sufficient length to reach to the floor with its forward edge 12 when the bottom 6 of the pan lies flat on the same floor and both widens gradually from the upper portion thereof, and has a pair of side walls 13 and 14 to confine the dust upon the lip between said walls during the sweep-up operation.

Upon the rear wall 8, a rearwardly and upwardly-arched dust catcher 15 embodying an arcuate cup member which connects integrally with the upper edge 16 thereof and at the near end has an end wall 17 fixed thereto. At the other end, the end wall 9 of the pan has a corresponding rearward integral extension 18 connecting with the arcuate dust catcher 15, while the height of the rear upper portion of the latter is so calculated that the upper edge 19 of end wall sections 9 and 18 when cut straight from the rear of the dust catcher 15 to the upper edge 11 of front wall 7, this upper edge 19 will be substantially in line with the inclined plane of the inclined lip 10 for a purpose which will immediately appear.

The upper end or edge of arcuate dust catcher 15 is formed or provided with hinge members 20, 20 to which corresponding hinge members or sections 21, 21 of a substantially flat dustpan cover 22 are connected by means of a hinge pin 23. Upon the rear upper portion of the arcuate dust collector 15 and immediately beneath the hinge portions thereof is located a handle 24 fixed to the dust collector by means of a bolt 25 for handling the dustpan, while immediately above the hinge members and the handle is a rearwardly-extending lifting tongue or lug 26 which is riveted at 27 to the rear portion of the cover 22. The latter projects with

its forwardly-extending straight lip 28 in upon the upper edge 11 of inclined lip or tray 10 of the dustpan, but inasmuch as the rearwardly-extending tongue 26 of this cover projects rearwardly over handle 24 in spaced relation thereto, pressure applied to this rearwardly-projecting tongue with a finger while grasping handle 24 will cause the cover to be raised into the position indicated in broken lines at 29 in Figure 3. Thus, when dust is to be swept up off the floor onto the pan, the latter is simply laid on the floor with the bottom thereof lying flat on this floor and the cover raised by pressing on the tongue 26; the cover is thus raised into the position mentioned in Figure 3 and the dust simply swept up the inclined lip or tray 10 into the dust bin formed by the bottom 6 and the front and rear walls 7 and 8 and end wall 9. In this operation, some of the dust will tend to float in the air, but as it strikes the bottom of the cover 19 and is precipitated rearwardly, it is caught by the dust catcher 15 and therefore does not escape but tends to drop into the dust bin between walls 7 and 8 when the cover is released and allowed to drop into its normal position shown in full lines in views. When this dustpan is to be emptied, it also has facilities for making certain that the dust will not fly about, but will properly be discharged from a single point of the dustpan.

For this purpose, the open end of the dust bin or box including the bottom 6 and the front and rear walls 7 and 8, projects beyond the end wall 17 of the dust catcher 15, as well as the end of the cover 22 at 30 to form a pouring spout which may readily be directed into a garbage can or an ash can or other receptacle, and the dustpan tilted up sidewise so that the closed end is highest while the cover 22 remains closed and the dust found on the bottom 6 between front and rear walls 7 and 8 will be dropped out of the extended end 30 just mentioned with a minimum of stirring up of the dust accumulated therein and being dropped into the receptacle. The dustpan may be made of sheet metal or any other material which is suitable for the purpose and hence the material of which it is made forms no limitation as to the manufacture thereof.

Manifestly, variations may be resorted to and parts and features may be modified or used without others within the scope of the appended claim.

Having now fully described my invention, I claim:

A covered dust pan comprising a horizontally disposed bottom, vertically disposed front and rear walls arranged in parallel spaced relation with respect to each other and fixedly carried by said bottom, a downwardly inclined tray extending forwardly from said front wall and having one edge rigidly secured to the upper edge of said front wall, the lower edge of said tray being disposed in the same plane as said bottom, a dust catcher comprising a horizontally disposed arcuate cup member having an end wall positioned adjacent one end thereof and rigidly secured to said cup member, said dust catcher being arranged above and rearwardly of said rear wall and fixedly secured to the latter, another end wall extending across the other end of said arcuate cup member and the adjacent ends of said front and rear walls and fixedly secured to said arcuate member and said front and rear walls, a cover positioned in a plane parallel to said downwardly-inclined tray and having one side edge pivotally secured to the uppermost side edge of said arcuate cup member for swinging movement about same as a horizontal axis, the other side edge of said cover normally resting upon the front wall, manually actuable means on said cover for effecting said swinging movement, and the end of said bottom, front and rear walls adjacent said first-mentioned end wall of said arcuate cup member being extended so as to form a pouring spout.

WALTER FRANCIS MALONE.

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