M. J. PIKE.

DUST PAN.

APPLICATION FILED NOV. 21, 1914.

1,188,677. Patented June 27, 1916.

Fig. 1

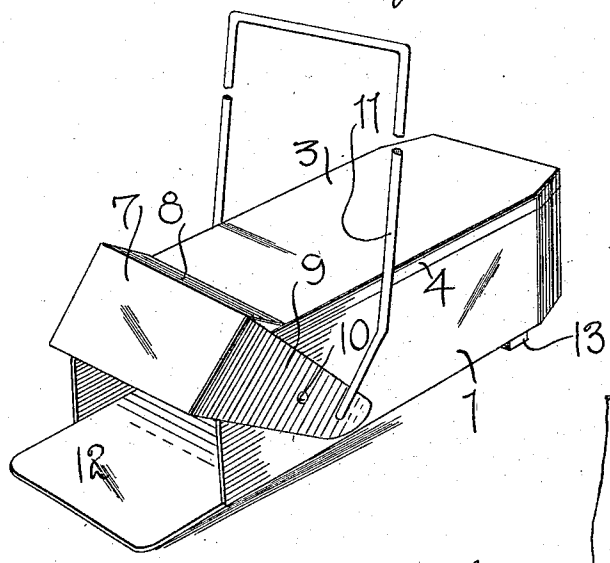


Fig. 3

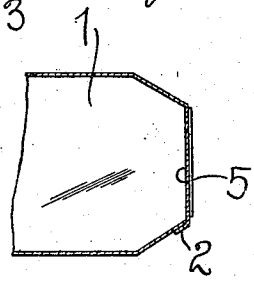
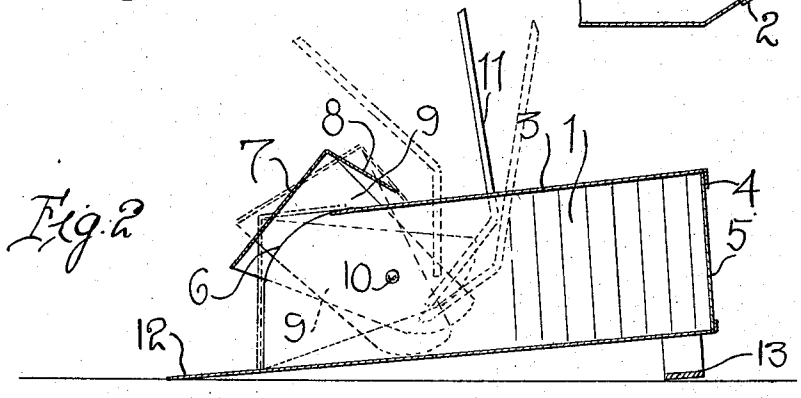


Fig. 2



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DUST-PAN.

1,188,677. Specification of Letters Patent. Patented June 27, 1916.

Application filed November 21, 1914. Serial No. 873,358.

To all whom it may concern:

Be it known that I, MAMIE J. PIKE, a citizen of the United States, residing at Stroudsburg, in the county of Monroe and State of Pennsylvania, have invented certain new and useful Improvements in Dust-Pans, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to new and useful improvements in dust pans and more particularly to what is known as an inclosed dust pan, the main object of the present invention being the provision of a dust pan having a hinged door or lid, which is adapted to close the open end of the body of the dust pan to prevent the dirt and dust from dropping therefrom, while the same is being carried from place to place.

Another object of the present invention is the provision of a dust pan of the above character which will possess advantages in points of efficiency and durability, is inexpensive to manufacture and, at the same time, is simple in construction and operation.

With the above and other objects in view, the invention consists in the novel features of construction, combination and arrangement of parts as will be hereinafter referred to and more particularly pointed out in the specification and claims.

In the accompanying drawing forming a part of this application, Figure 1 is a detail perspective view of a dust pan constructed in accordance with my invention. Fig. 2 is a longitudinal sectional view; and Fig. 3 is a detail horizontal sectional view.

In the construction of my improved dust pan, I form a substantially rectangular body, which is indicated in the accompanying drawings by the numeral 1, said body being constructed of a single piece of sheet metal, the side portions of which are bent upon themselves to form the side walls of the body 1, while one of the end walls thereof is bent upwardly against the side walls and the side edges of the end wall are bent inwardly to overlap the ends of the side walls, as illustrated at 2. The stationary cover which is indicated by the numeral 3 and which forms an inclosed receptacle, is provided with down-turned flanges 4 adapted to engage over the upper edges of the side walls and the end wall 5.

At the open end of the casing, the ends of the side walls are curved, as shown at 6, and mounted for pivotal movement to pass over these curved ends, is a hood 7, the upper edge of which is disposed at right angles and extending rearwardly to form a stop flange 8 which engages the top of the cover 3 when the hood is turned to an open position to limit the rearward swinging movement of the hood. The hood is provided with rearwardly extending wings 9 which are pivotally connected to the body 1, as shown at 10 and rigidly connected with the inner ends of the wings, is a U-shaped handle 11. The U-shaped handle member, when in normal position, it will be noted, is disposed at an oblique angle, while the ends thereof extend in a vertical position with respect to the wings and are soldered or otherwise secured thereto. The lower edge of the hood, when in closed position is adapted to normally rest upon the upper face of the extended flange 12 so as to entirely close the open end of the body 1. This flange 12 which extends forwardly beyond the ends of the side walls is adapted to engage the floor and form a platform upon which the dirt and dust is swept so that it can be readily passed into the body of the receptacle. In order to firmly engage the outer end of the flange 12 with the floor or other surface, I provide a support at the rear end of the body which includes a U-shaped strap 13, the ends of which are bent at right angles and rigidly secured to the bottom of the body 1, as shown at 14. From this it will be apparent that when the body is resting upon the floor, the U-shaped member will tilt the same so that the outer edge of the flange 12 will firmly engage with the floor so that dust, dirt and other particles can be readily swept on to the same and then passed into the body 1. By providing the handle rod 11 with an obliquely disposed portion and rigidly fixing the relatively short angularly disposed ends of said rod to the wings of the hood, it will be seen, from reference to Fig. 2, that the connection of the handle being inwardly of the pivots of the wings, said handle, by gravity, will act to hold the hood in an open position so that the dirt can be swept into the dust pan. On the other hand, this handle, owing to the provision of the obliquely extended portion, would also operate by gravity to hold the hood in its closed position, as clearly shown in dotted lines,

the major portion of the handle extending forwardly of the pivots of the hood. The handle is also supported, when the hood is in closed position, to be readily grasped in order to move the hood to its open position.

From the above description taken in connection with the accompanying drawing, it will be readily apparent that I have provided a simple and durable dust pan, wherein dust, dirt and other particles can be readily carried about from place to place within the pan so as to eliminate the necessity of dumping the same every time a small amount of dust and dirt is swept into the body. It will be noted that in carrying the same, it will be almost impossible for the hood 7 to accidentally open in view of the fact that the handle member, which is connected to the same will retain the hood in its closed position, through the weight of the body 1 and the contents thereof.

My improved dust pan, as herein shown and described, is extremely simple in construction and can be manufactured out of light material, such as aluminum and copper so that the cost of placing the same upon the market will be comparatively low.

While I have shown and described the preferred form of my invention, it will be obvious that various changes in the details of construction and in the proportions may be resorted to for successfully carrying my invention into practice, without sacrificing any of the novel features or departing from the scope of the invention, as defined by the appended claims.

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

1. A dust pan including a dust receptacle open at one end, a hood to close the open end of the receptacle pivotally mounted upon the sides of the pan and having a stop flange to engage the top of the pan and limit the movement of the hood in one direction, and a handle rigidly fixed to the ends of the hood in such relation to the pivotal point thereof that the handle acts by gravity to maintain the hood in open position when the pan is in use.

2. A dust pan including a dust receptacle open at one end, a hood to close the open end of the receptacle, said hood having end wings pivotally mounted intermediate of their ends upon the opposed side walls of the receptacle and provided between said wings with a stop flange for engagement with the top of the receptacle, and a handle rod having its ends rigidly fixed to the inner ends of said wings, said rod acting, by gravity, to retain the hood in open position when the pan is in use.

3. A dust pan including a dust receptacle open at one end and having a base wall projecting beyond said open end, a hood provided with parallel end wings pivotally mounted intermediate of their ends upon the opposed side walls of the receptacle and having a stop flange on its upper edge intermediate of said wings to engage the top of the receptacle and limit the movement of the hood to its open position, and a U-shaped handle rod extending over the receptacle and rigidly connected at its extremities to the respective wings of the hood inwardly of their pivots, said handle having an obliquely disposed portion acting, by gravity, either to retain the hood in its open position or in its closed position when the pan is arranged in position for use.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

MAMIE J. PIKE.

Witnesses:
ROBT. GRUVER,
CLAIR SMITH.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."