

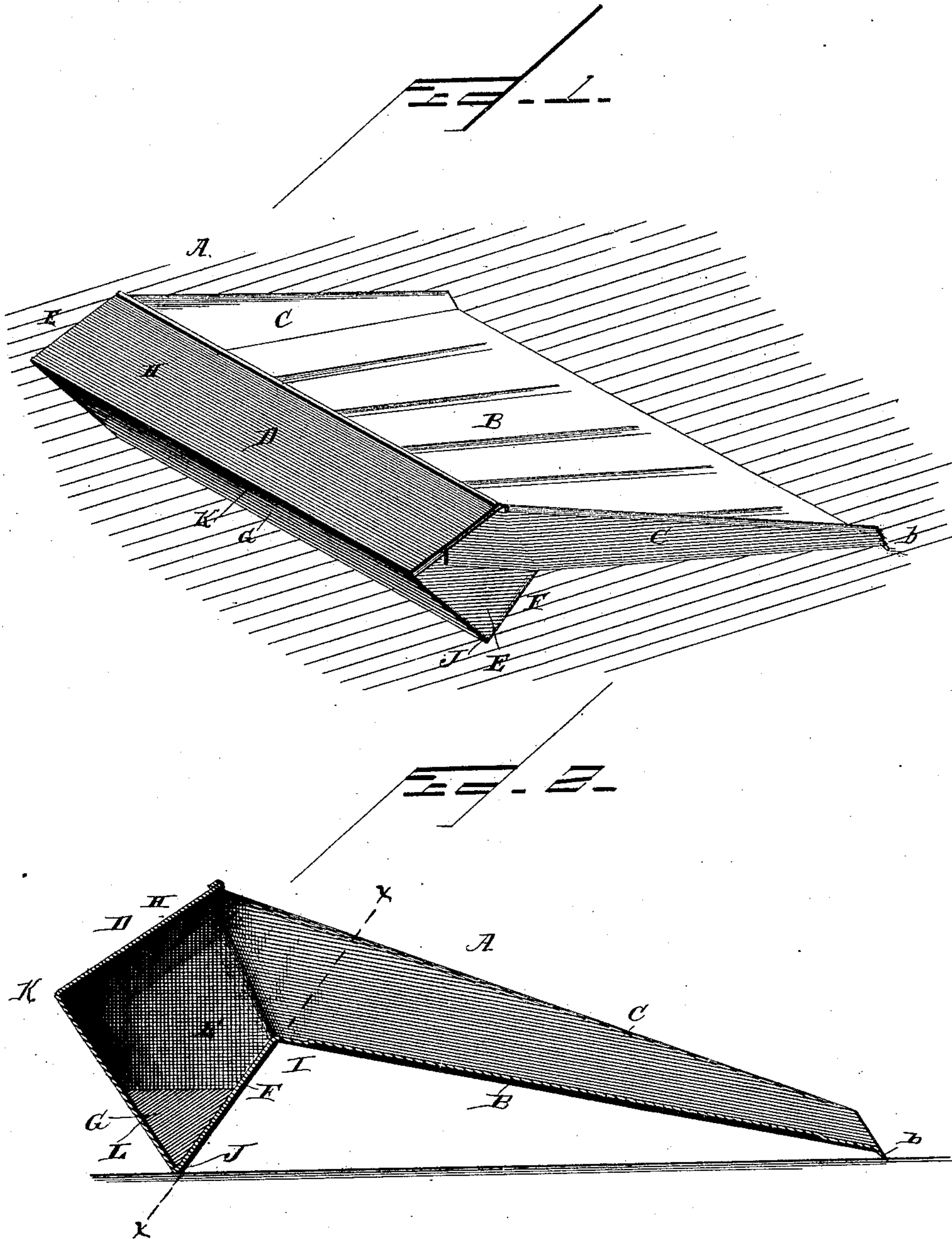
(No Model.)

2 Sheets—Sheet 1.

A. M. DOWNING.
DUST PAN.

No. 452,696.

Patented May 19, 1891.



Witnesses

G. Y. Thorpe,
H. E. Price.

Inventor

Arnold M. Downing.

By *H. S. Attorneys*

Higdon & Higdon.

(No Model.)

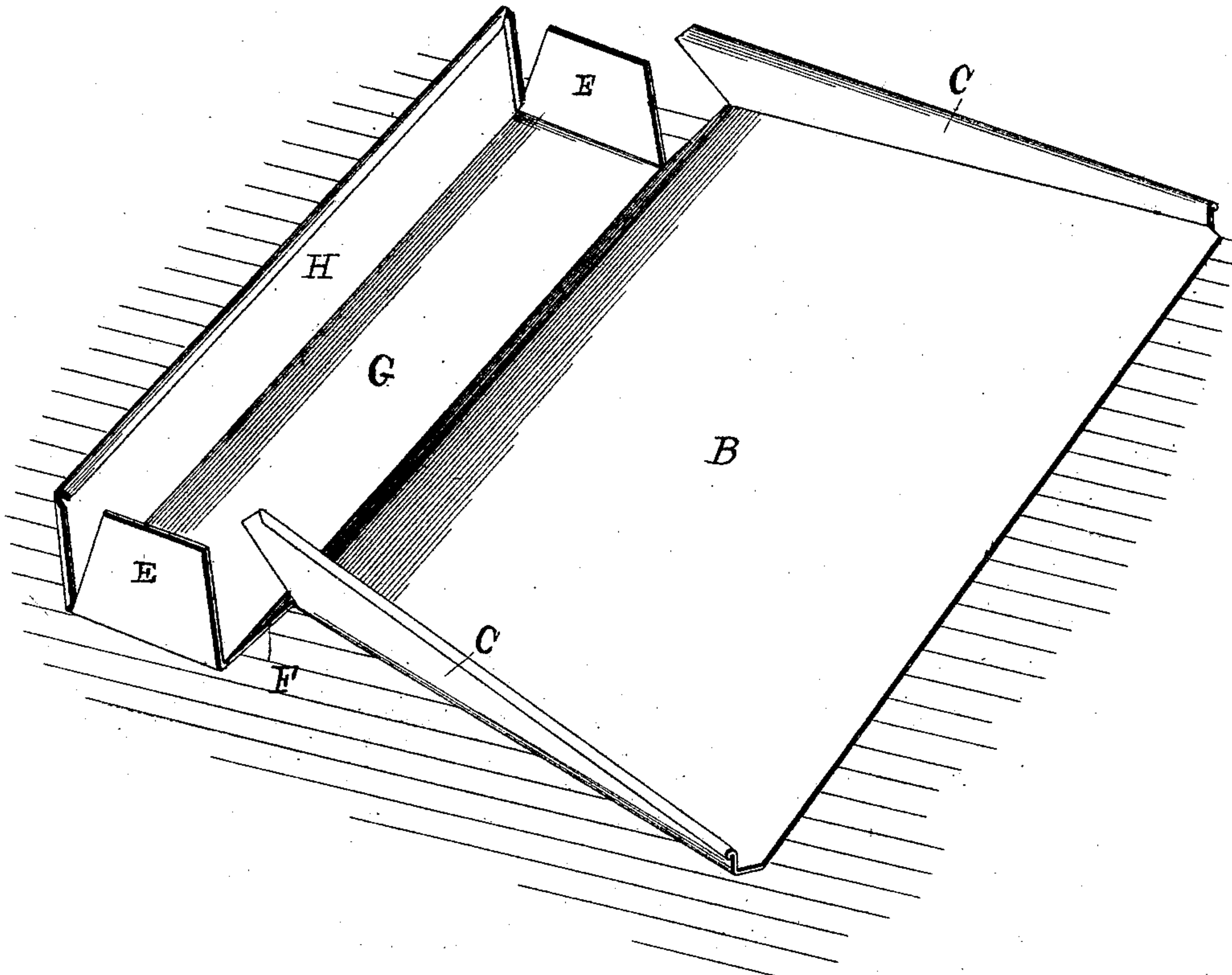
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Fig. 3.



Witnesses,

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Inventor:

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UNITED STATES PATENT OFFICE.

ARNOLD M. DOWNING, OF KANSAS CITY, MISSOURI.

DUST-PAN.

SPECIFICATION forming part of Letters Patent No. 452,696, dated May 19, 1891.

Application filed October 20, 1890. Serial No. 368,706. (No model.)

To all whom it may concern:

Be it known that I, ARNOLD M. DOWNING, of Kansas City, Jackson county, Missouri, have invented certain new and useful Improvements in Dust-Pans, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming a part hereof.

My invention relates to improvements in dust-pans; and it consists in the novel construction thereof, as will be fully set forth and described hereinafter, and particularly pointed out in the claim.

My object is to provide a dust-pan having the usual inclined base and the sides connecting at their rear ends with an annular trough or dust-receptacle of peculiar construction.

Referring to the drawings, which illustrate this invention, Figure 1 represents a perspective view of my dust-pan in accordance with my invention. Fig. 2 is a cross-sectional view of the same. Fig. 3 is a perspective view of dust-pan constructed in accordance with my invention while being folded into shape.

Similar letters refer to similar parts in all the figures, in which—

A represents a dust-pan consisting of the usual inclined base B, provided at its forward end with the transverse flange b, extending the entire width of the said plate B and adapted to rest on the floor, and said base provided at its opposite edges with the upwardly-flared sides C C, connecting at their rear ends with the opposite ends E E of the receptacle or trough D, the longitudinal walls F, G, and H of which are formed by bending the base-plate to form the angles I J K, leaving the forward side open and communicating with the chamber formed by the base-plate and sides thereof. Thus it will be understood that all the parts of the pan are formed integral from a blank sheet of metal, the meeting edges of the sides C C overlapping the ends E E and being suitably secured thereto by solder or other fastening, as shown in Fig. 1.

It will be seen that the base B and the inner wall F are arranged at a relatively acute angle and that said wall F describes a straight and direct line, as indicated by the inclined

dotted line *x x* in Fig. 2. In this way the base and receptacle (although formed of thin material) mutually support and brace each other very effectually against the downward and backward pressure of the broom. The fact of these parts being so relatively located the downward pressure of the broom or brush upon the inclined base (acting as upon a wedge) always tends to force the angle J into more intimate contact with the floor or carpet of the room, so much so, in fact, that no handle is necessary for the pan, and it has been found to stand, without other support than that afforded by the floor, perfectly rigid and immovable during the operation of sweeping into it with a broom.

No handle being required, there are no projections other than those formed by the corners of the pan itself, enabling me to provide a very light and neat-appearing article.

The angle J, formed by the meeting of sides F and G, is, as before stated, adapted to rest upon the floor when the dust-pan is in operative position and having secured in suitable manner the lead or other suitable weighty substance L in the angle thus formed. The roof or cover H forms a cover, the object of which will be presently explained.

To collect the sweepings my invention is placed on the floor in the position described, with the angle J and transverse flange or lip resting upon the floor, as described, and allows the operator to sweep the dust, &c., upon the base-plate B and into the receptacle D without affecting the position of the pan upon the floor, thus obviating the necessity of stooping and grasping the pan or placing the foot upon or in rear of the same to hold it stationary, as will be readily understood. When the dust, &c., is swept upon the pan, the lower end of the broom comes in contact with the front and upper edge of the roof or cover H of the trough or receptacle, which, inclining rearwardly and downwardly at an angle of about forty-five degrees, deflects the dust into the trough, thus preventing the dust from escaping to the floor, as will be readily understood. The angularly-located roof-plate H, by reason of its upper edge being located back of the front edge of the plane F, it follows that the scrapings from the broom will

fall directly into the open receptacle beneath without coming in contact with any portion of the pan above said receptacle.

5 The dust-receptacle is V-shaped in cross-section.

I am aware that the state of the art discloses covered dust-receptacles having curved and sliding covers, and therefore I do not claim by itself a covered dust-receptacle.

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

15 The improved dust-pan hereinbefore described, consisting of the base-plate B, having side walls C on either side thereof and extending rearward, a trough located at the rear of the said base-plate, the forward and rear walls F and G of which trough form an angle at their lower edges adapted to rest

upon the floor, a cover H for the said trough, 20 connected to the upper end of the said rear wall G and projecting upward and forward to above the level of the said base-plate, but in the rear thereof, and end walls for the said trough, formed by the forwardly-bent ends of 25 the walls G, to which the extended rear ends of the side walls C are secured, the said parts being formed of a single sheet of metal, in combination with a weight L, contained within the base of the said trough, substantially 30 as described.

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

ARNOLD M. DOWNING.

Witnesses:

G. Y. THORPE,
H. E. PRICE.