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C. GABEL

2,544,014

DUSTPAN

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Fig. 1.

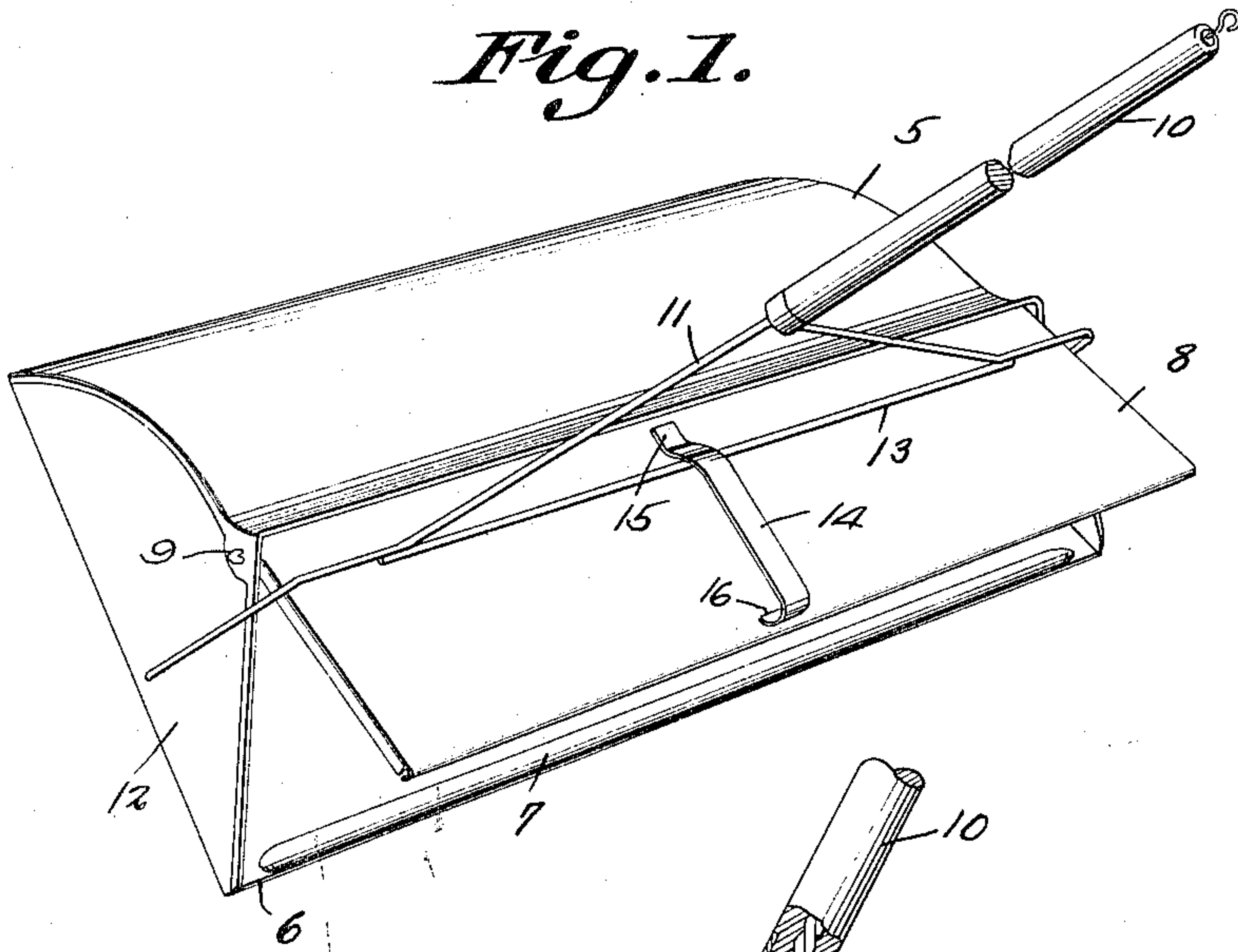


Fig. 2.

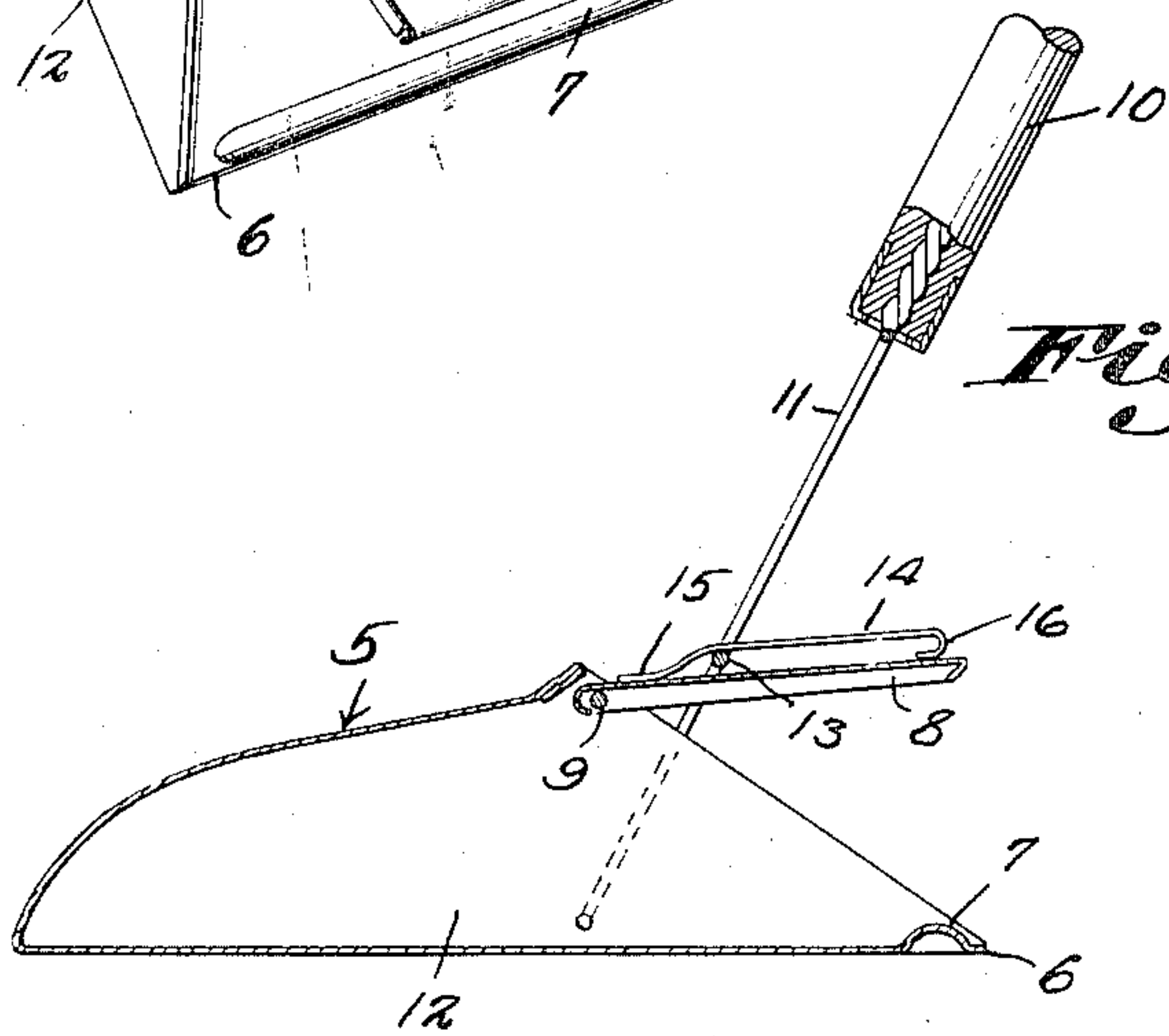


Fig. 3.

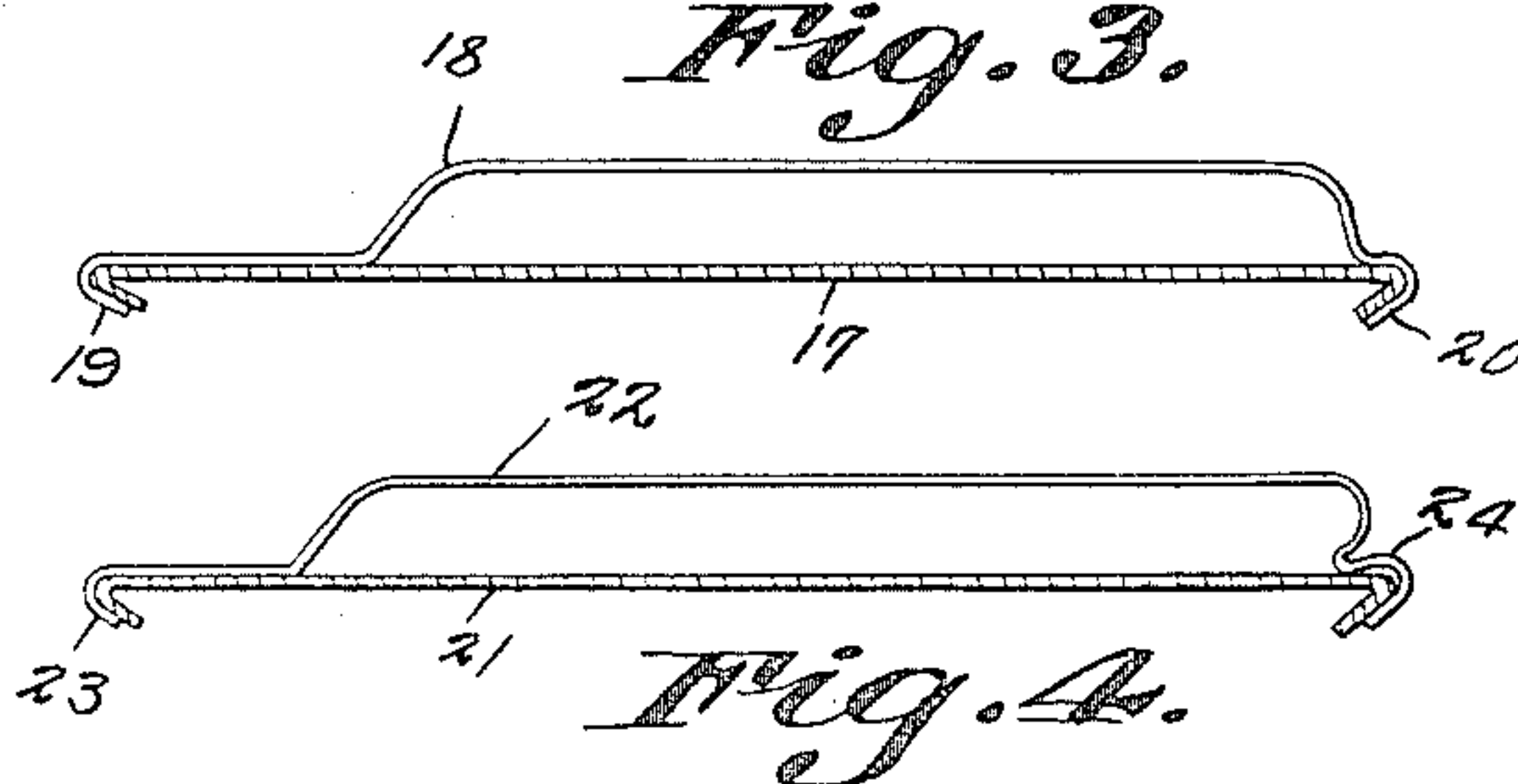
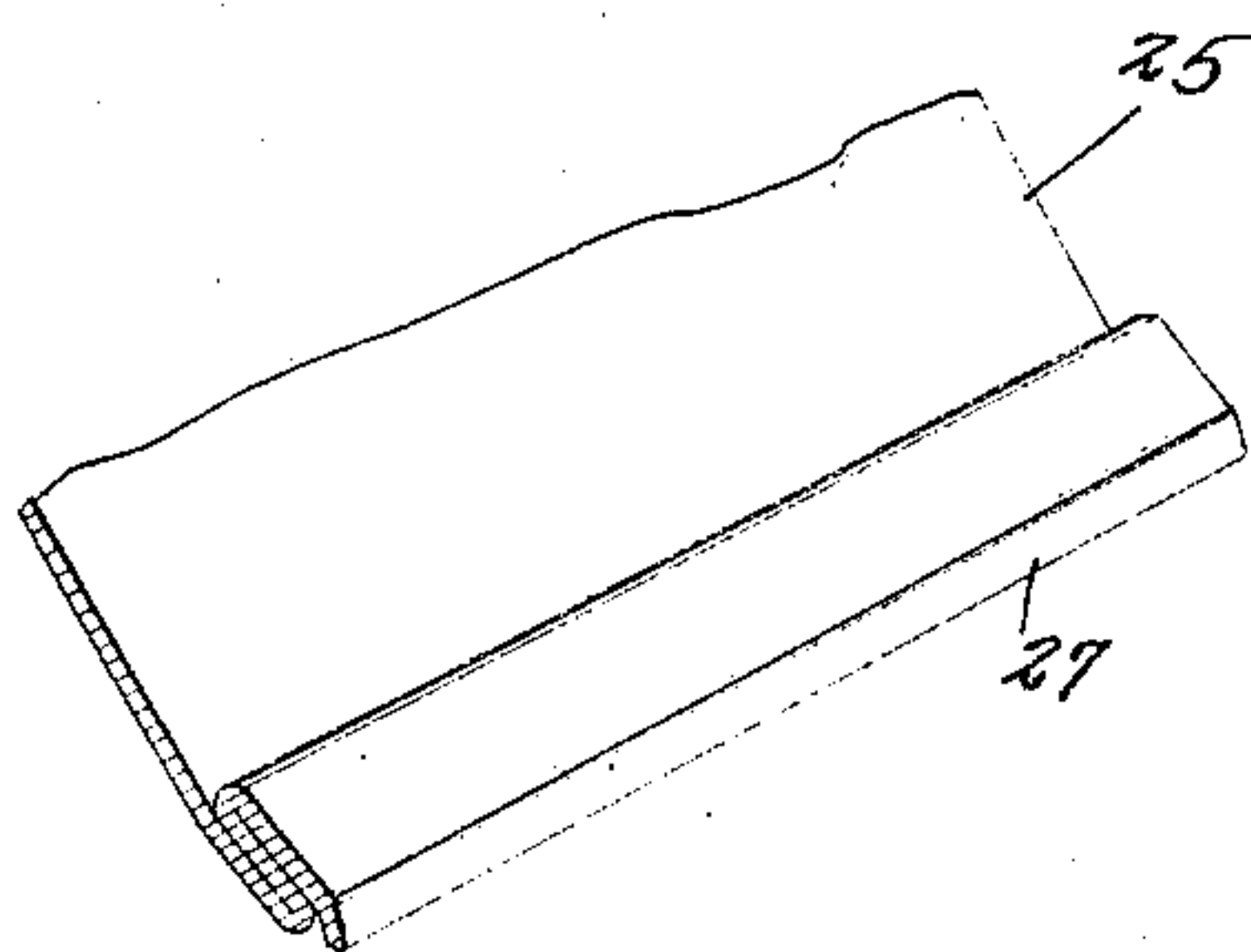


Fig. 4.

Fig. 5.



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DUSTPAN

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1 Claim. (Cl. 65—20)

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This invention relates to dust-pan construction, the primary object of the invention being to provide a dust-pan having a closure so constructed and arranged that when the dust-pan is positioned on a surface to receive material, the door or closure will automatically move to its open position to permit the material to be brushed into the dust-pan.

Another object of the invention is to provide a dust-pan having a hinged closure and a handle mounted on the dust-pan in such relation with the hinged closure, that the weight of the dust-pan will overbalance, causing the dust-pan to assume a vertical position with the door or closure when moved to its closed position, to prevent material from falling therefrom, as the dust-pan is being carried from place to place.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claim, it being understood that changes may be made in the construction and arrangement of parts without departing from the spirit of the invention as claimed.

Referring to the drawing:

Figure 1 is a perspective view of a dust-pan constructed in accordance with the invention, illustrating the door or closure as partially open.

Figure 2 is a transverse sectional view through the dust-pan illustrating the door or closure as open to permit material to be brushed into the dust-pan.

Figure 3 is a sectional view through the door or closure, illustrating one form of bracket to be secured to the door or closure for engagement with the handle.

Figure 4 is a sectional view through the door or closure showing a further modified form of bracket.

Figure 5 is a view illustrating a modified form of holder blade used at the bottom edge of the dust-pan.

Referring to the drawing in detail, the reference character 5 indicates a dust-pan, which is formed with an opening, the lower front edge thereof providing a scraper blade 6, the scraper blade being formed with a longitudinal enlargement 7 designed to brace the forward edge of the scraper blade. The reference character 8 indicates the hinged cover, which is pivotally connected to the dust-pan at 9, the cover being so arranged that it will normally close the opening of the dust-pan.

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The handle 10 is connected with the arms 11 that extend laterally and have their ends extended inwardly, where they are positioned in openings formed in the ends 12 of the dust-pan, pivotally connecting the handle to the dust-pan.

As shown by Figure 1 of the drawing, the arms diverge from the handle and are connected by means of the rod 13, which is welded to the arms, as clearly shown by Figure 1 of the drawing. The rod 13 is positioned under the spring arm 14 that has one of its ends welded to the inner edge of the hinged cover, at 15, the opposite end of the spring arm 14 being curved inwardly and rearwardly, providing the hook 16, adapted to be engaged by the rod 13, when the handle 10 is swung downwardly, or the weight of the pan 5 is lifted by the handle 10, to close the hinged cover 8. Because the outer or hooked end 16 of the arm 14, is free of the cover 8, it will be seen that the handle may be readily disconnected by pulling the ends of the arms 11 outwardly, disconnecting them from the ends of the dust-pan. The spring arm 14 may now be lifted at its free end and the rod 13 removed therefrom.

In the form of the invention as shown by Figure 3 of the drawing, the reference character 17 indicates the hinged cover to which the arm 18 is connected, the arm 18 having one end bent downwardly and inwardly as at 19, while the opposite end is bent downwardly and inwardly as at 20.

In Figure 4 the cover 21 is supplied with a spring arm 22, that has a downwardly and inwardly extended end 23, adapted to fit over one edge of the cover, the opposite end of the arm 22 being bent upon itself, providing the hook 24, to be positioned over the opposite edge of the cover, removably securing the arm in position.

In Figure 5 I have illustrated one edge of the pan formed into the scraping blade 25, the free edge of the blade 25 being bent upon itself, providing a strong and rigid scraping edge 27.

From the foregoing it will be seen that due to the construction shown and described, I have provided a dust-pan having a hinged cover, so connected with the handle of the dust-pan, that the swinging movement of the handle will cause the cover to move to its open or closed position, and that when the dust-pan is being carried from place to place it will swing on the handle to cause the contents thereof to remain within the dust-pan while being carried.

Having thus described the invention, what is claimed is:

55 A dust-pan comprising a body portion having

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an open side the open side having its forward edge extended rearwardly and forwardly defining a scraping edge, a hinged cover normally closing the open side of the body portion, a spring arm disposed transversely of the cover at a point intermediate the ends of the cover, one end of the arm being secured to the cover, at a point intermediate the side edges of the cover, the opposite end of the arm being free of the cover and curved inwardly and rearwardly against the cover, a handle including spaced arms pivotally connected to the dust-pan, a horizontal rod connecting the spaced arms of the handle and being removably held under the spring arm in contact therewith, slidably connecting the handle and cover, whereby said handle moves the cover to its open or closed position as the handle swings on the body portion.

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REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
931,867	Hawkinson	Aug. 24, 1909
953,756	Olson	Apr. 5, 1910
956,968	Hubert	May 3, 1910
978,724	Folsom et al.	Dec. 13, 1910
1,182,190	Magami	May 9, 1916

FOREIGN PATENTS

Number	Country	Date
271,165	Great Britain	May 20, 1907