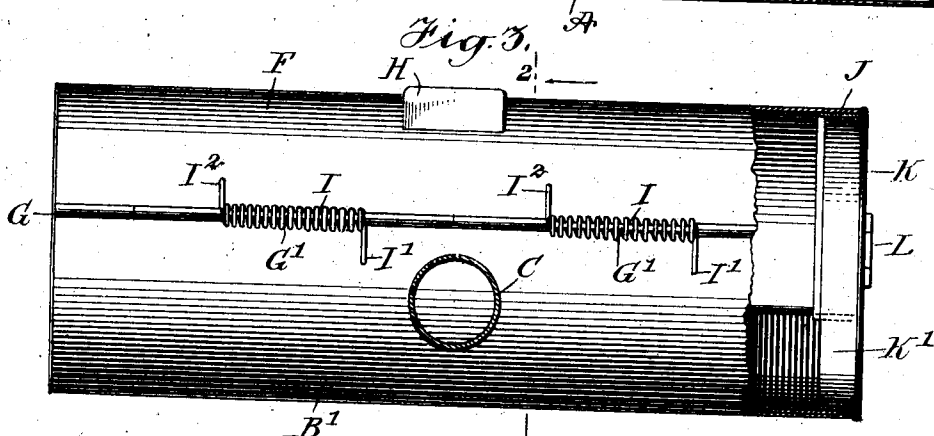
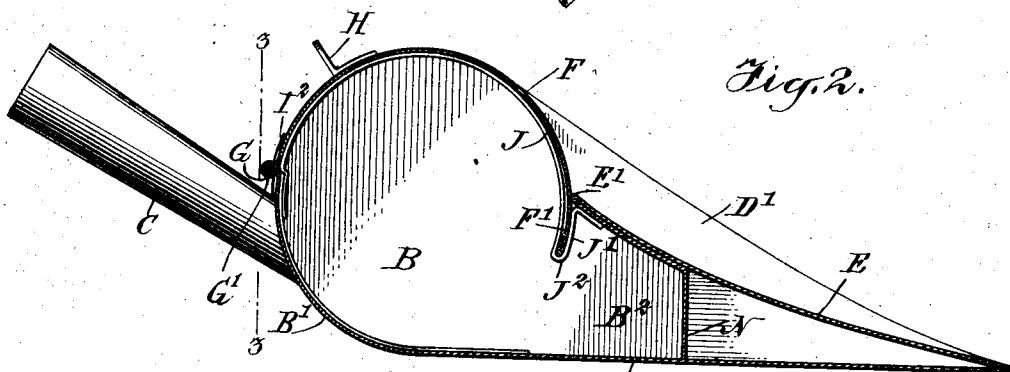
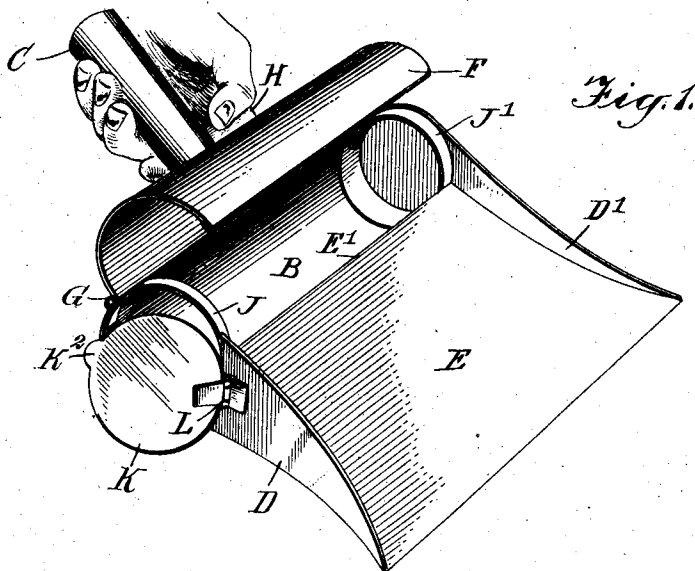


No. 834,770.

PATENTED OCT. 30, 1906.

W. N. STEELE.
DUST PAN.

APPLICATION FILED DEC. 9, 1905.



WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM NEILSON STEELE, OF NEW YORK, N. Y.

DUST-PAN.

No. 834,770.

Specification of Letters Patent.

Patented Oct. 30, 1906.

Application filed December 9, 1905. Serial No. 291,082.

To all whom it may concern:

Be it known that I, WILLIAM NEILSON STEELE, a citizen of the United States, and a resident of the city of New York, borough of the Bronx, in the county and State of New York, have invented a new and Improved Dust-Pan, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved dust-pan arranged to permit convenient sweeping of the dust, crumbs, and the like into the pan, to securely retain the sweepings, and to allow ready dumping of the accumulated sweepings whenever it is desired to do so and without danger of spilling any of the sweepings while carrying the dust-pan and its contents from the room to a place of discharge.

The invention consists of novel features and parts and combinations of the same, which will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the improvement, showing the cover and the door in an open position. Fig. 2 is a sectional side elevation of the same on the line 2 2 of Fig. 3; and Fig. 3 is a rear sectional elevation of the same, partly broken away, the section being on the line 3 3 of Fig. 2.

The horizontally-disposed bottom A of the dust-pan is curved upward at its rear end to form the rear side B' of a cylindrical receptacle B, and from the said rear side B' extends rearwardly a handle C, adapted to be taken hold of by the operator for conveniently manipulating the dust-pan. The vertical sides D and D' of the dust-pan extend upwardly from the bottom A and a distance above a top plate E, inclined rearwardly and upwardly from the front end of the bottom A. The rear end E' of this top plate E terminates at the front of the receiving-receptacle B, so that the dust, crumbs, and like sweepings swept up the inclined top plate E readily pass into the receiving-receptacle B. The latter is normally closed on top by a cover F, having its rear connected by a hinge G with the top of the rear side B' of the receiving-receptacle B, and on the said cover F

is secured or formed a thumb-piece H, adapted to be taken hold of by the thumb of the hand holding the handle C.

The cover F is spring-pressed and normally held in a closed position, and for this purpose I prefer to use two springs I, made of spring-wire coiled on portions of the pintle G' of the hinge G and having the terminals I' and I² engaging the rear side B' and the cover F, respectively, as plainly shown in Fig. 3. The front F' of the cover F is adapted to extend a distance below the rear end E' of the top plate E at the time the cover F is in a closed position, (see Fig. 2,) and the lower edge of this end F' of the cover F is adapted to be seated on stops J², preferably forming parts of reinforcing-bands J and J' for the sides of the receiving-receptacle B, the said bands being secured to the rear side B' and a portion of the bottom A and extending over the top portion of the receiving-receptacle B, as will be readily understood by reference to Fig. 1. By having the stops J² arranged as described they limit the closing movement of the cover F, and as the end E' extends up to the outer face of the cover F a distance above the free edge thereof it is evident that a perfectly dust-proof joint is obtained between the cover F and the top plate E, and consequently the sweepings contained in the receiving-receptacle B are not liable to escape therefrom when carrying the dust-pan from one place to another.

The rear portion of the side D' of the dust-pan closes the receptacle B at the reinforcing-band J', while the other side D terminates at the reinforcing-band J, and this side of the receiving-receptacle B is normally closed by a door K, connected by a hinge L with the side D. The door K is provided with an inwardly-extending annular rim K', fitting into the reinforcing-band J, so as to form a tight joint with the same, and on the said door K is arranged a finger-piece K², adapted to be taken hold of by the operator for conveniently swinging the door K into an open or shut position.

The bottom A of the dust-pan is connected with the top plate E by a transversely-extending vertically-disposed brace N, located a distance forward of the rear end E', so as to form an extension B² of the dust-receiving receptacle B, thereby increasing the capacity of the latter, at the same time forming a firm

support for the top plate E throughout the width thereof—that is, from the side D to the side D'.

In practice the bottom A, the rear side B', the top plate E, and the brace N are preferably formed from a single piece of sheet metal bent into the shape described. By the construction set forth an exceedingly strong and durable dust-pan is provided.

In using the dust-pan the operator takes hold with one hand of the handle C, and by the use of the thumb of this hand engaging the thumb-piece H the operator swings the cover F into an open position, and with the other hand wielding a brush or the like the operator sweeps the dust, crumbs, and the like up over the top plate E into the receiving-receptacle B. When the sweeping is finished, the operator releases the thumb from the thumb-piece H to allow the springs I to close the cover F, the downward-swinging motion of which is limited by the stops J² as well as by the reinforcing-bands J and J', under which the inner face of the cover fits snugly, as indicated in the drawings. The dust-pan may be used repeatedly in the manner described, and when a sufficient quantity of sweepings have accumulated in the dust-pan then the operator can conveniently carry the dust-pan to a suitable place of discharge and there open the door K, so as to permit of dumping the sweepings out of the receptacle B and its extension B². After this has been done the door K is again closed and the dust-pan is again in condition for receiving other sweepings.

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

1. A dust-pan comprising a bottom, a top plate inclined upwardly and rearwardly from the front end of the bottom, side walls extending from the sides of the bottom upward past the said top plate to form retaining-flanges, a receiving-receptacle at the rear end of the bottom and at the front of which the top plate terminates, a cover hinged to

the said receptacle at the rear thereof, and reinforcing-bands secured to and extending within the said receiving-receptacle, said bands conforming to the shape of and serving as supports for the cover when in closed position, the lower ends of said bands extending below the rear end of the top plate, and being there bent to form stops, on which the forward end of said cover rests when in the closed position.

2. In a dust-pan, the combination with a bottom and sides, of a top plate between the sides and inclined up from the forward portion of the bottom, a receiving-receptacle formed at the rear of the top plate, a cover for the receptacle, and bands for reinforcing the walls of the receptacle and adapted to support the cover when in a closed position, said bands being secured to the receptacle and bottom near the sides thereof and terminating in stops for the edge of the cover, which stops extend below the rear edge of the said top plate.

3. A dust-pan, comprising a bottom plate, a top plate inclined upwardly and rearwardly from the front of the bottom, side walls extending from the sides of the bottom up past the top plate, a receiving-receptacle at the rear of the bottom plate and having one end open, reinforcing-bands secured to the receptacle at the ends and extending over the top thereof with their ends projecting below the rear edge of the inclined top plate and forming stops, a cover hinged to the rear of the receptacle and having its free edge extending below the edge of the top and engaging said stops, and a door hinged to one of the sides and having a flange on its inner face fitting into one of the reinforcing-bands.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM NEILSON STEELE.

Witnesses:

THEO. G. HOSTER,
EVERARD B. MARSHALL.