FRANCIS L. DANIELS.

DUST PAN.

105315

PATENTED JUL 12 1870

FIG. 1.

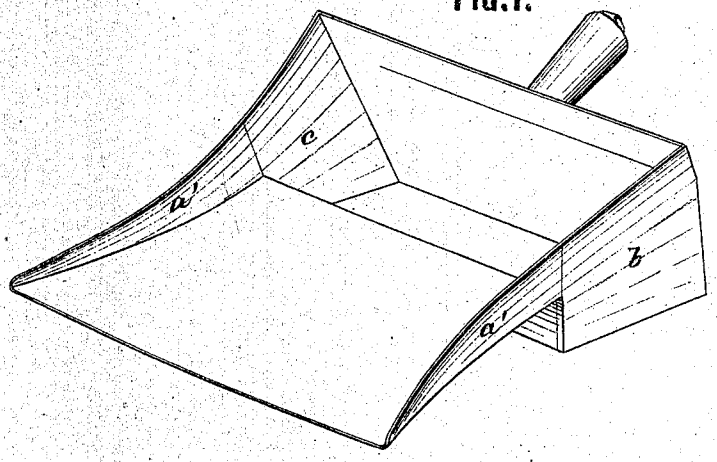


FIG. 2.

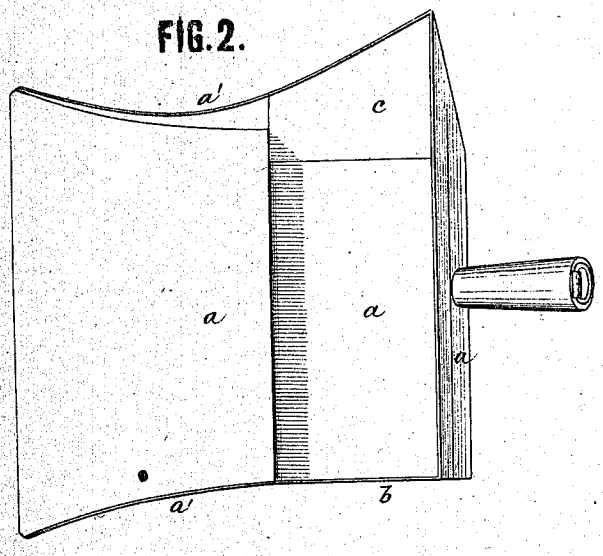
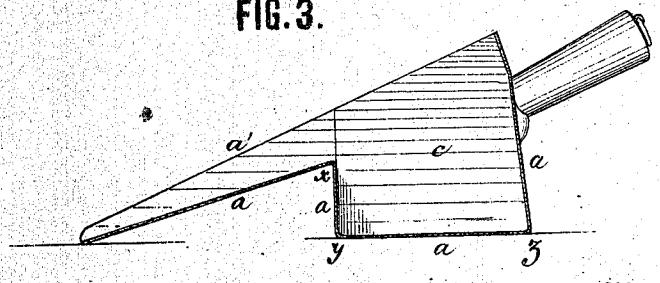


FIG. 3.



Francis L. Daniels
by his attorney
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WITNESSES.

W. Bailey

Wm. H. Hoffe Dale
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United States Patent Office.

FRANCIS L. DANIELS, OF BOSTON, MASSACHUSETTS.

Letters Patent No. 105,315, *dated July* 12, 1870.

IMPROVED DUST-PAN.

The Schedule referred to in these Letters Patent and making part of the same.

To whom it may concern:

Be it known that I, FRANCIS L. DANIELS, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Dust-Pans, of which the following is a specification.

In Letters Patent No. 97,276, granted me on the 30th November, 1869, I have described and claimed a dust-pan provided at its rear part with a trough or dust-receptacle, and an inclined curved lip or spout on one end of the trough, to allow the accumulated dust, &c., to be easily discharged therefrom.

My present invention relates to the same class of dust-pans, and

Its object is to improve the construction of the pan, so that all its parts may be readily made and put together, and so that the dust-discharge spout may be combined with the trough, to operate to better advantage in connection therewith.

My invention consists—

First, in the construction of the trough of the dust-pan with an acute-angled and inclined spout formed at the rear and on one side of the trough, in the manner hereinafter described.

Second, in a dust-pan, the body of which is composed of three pieces of sheet metal, shaped and combined, substantially as hereinafter described, so as to form the trough, the incline leading to the trough, the sides, for preventing the escape of the dust, and the acute-angled and inclined spout, from which the dust is discharged.

The manner in which my invention is or may be carried into effect will be readily understood by reference to the accompanying drawing, in which—

Figure 1 is a perspective view of a dust-pan made in accordance with my invention;

Figure 2 is a plan view; and

Figure 3 is a longitudinal vertical section of the same.

The body of the pan is composed of the three pieces of sheet-metal, *a b c*.

The part *a* is bent at three points, *x y z*, to form the incline leading to the trough, and the sides and bottom of the trough.

The two end pieces, *b c*, cover or close the ends of the trough, being soldered, or otherwise suitably secured in place, and the three parts, *a b c*, thus form the body of the pan.

The edges *a'* of the piece *a*, along the incline which leads to the trough, are bent up so as to form sides, which prevent the escape of the dust; and the side pieces *b c* are so formed that their upper edges are not parallel with the bottom of the trough, but slant upward, or so as to form a prolongation of the slanting edges of the sides *a'*, which follow the inclination of the inclined part of the bottom of the pan.

The back of the trough, to which the side-pieces *b c* are united, is correspondingly raised, so that the rear of the trough is its highest part, and is raised above the inclined bottom to such an extent as to prevent the dirt, when swept up the incline, from being thrown over the back of the pan.

Upon one side of the trough I place an acute-angled and inclined spout, which is formed by the junction of the back of the trough with the side *c*. In order to produce a spout of this form, I cut or shape the end of the back of the trough as shown in fig. 1, so that its top shall overhang or extend beyond its lower edge, where it is united with the bottom of the trough. The side *c*, in order to be united with this projecting part, must be inclined outwardly, forming an obtuse angle with the bottom, and an acute angle with the back, thus allowing the dust to freely escape from the bottom of the trough, and, at the same time, by reason of the acuteness of the angle which it forms with the back, preventing the dust from spreading, and gathering and discharging it in a narrow or small stream.

So far as this construction of the dust discharge-spout is concerned, it may be employed where the body of the pan is made of more or less parts than the three pieces *a b c*. I much prefer, however, to make the pan as herein described, as, when thus made, it is very cheap, and can be put together and finished with the greatest ease.

Having now described my invention, and the manner in which the same is or may be carried into effect,

What I claim, and desire to secure by Letters Patent, is—

1. The construction of the dust-trough or receptacle in a dust-pan, with an acute-angled and outwardly-inclined spout formed at the rear and on one side of the trough, substantially in the manner shown and described.

2. A dust-pan, the body of which is composed of parts *a b c*, formed and combined as herein shown and set forth.

In testimony whereof I have signed my name to this specification before two subscribing witnesses.

FRANCIS L. DANIELS.

Witnesses:

M. BAILEY,

EDM. F. BROWN.