No. 742,859. PATENTED NOV. 3, 1903.

P. H. GROSS & A. PETERSON.

DUST PAN.

APPLICATION FILED MAR. 19, 1903.

NO MODEL.

Fig. 1

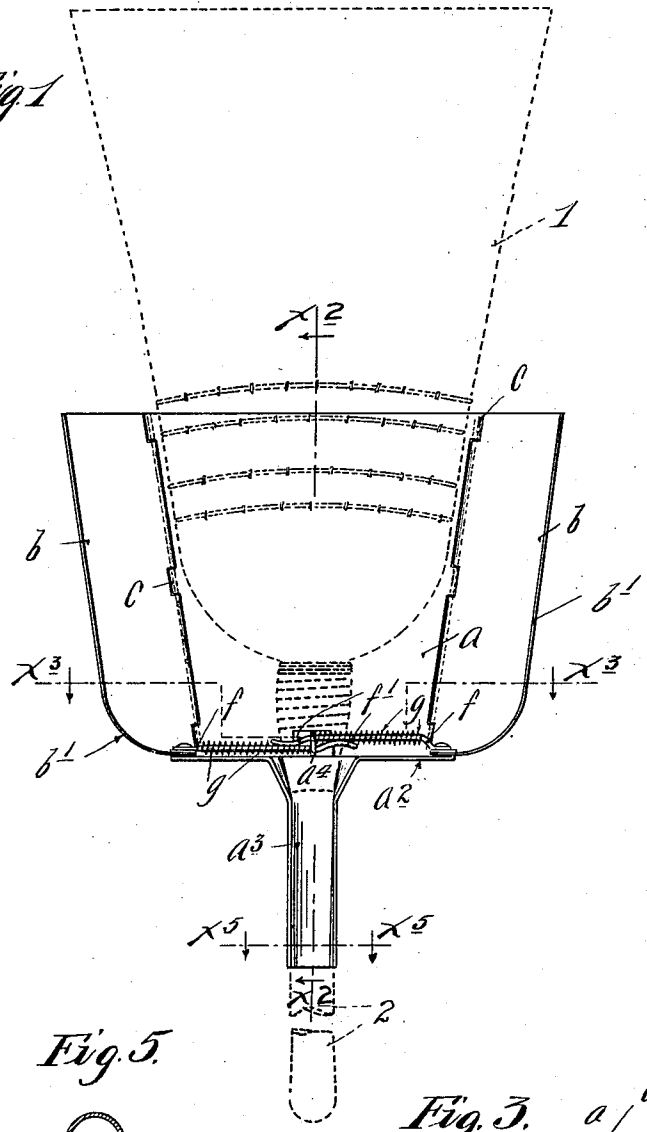


Fig. 2.

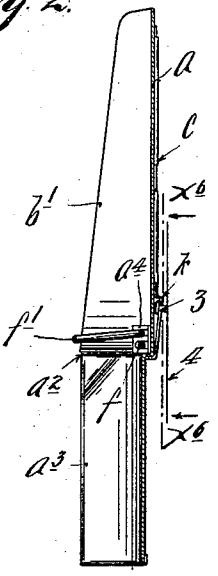


Fig. 5.

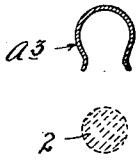


Fig. 3.

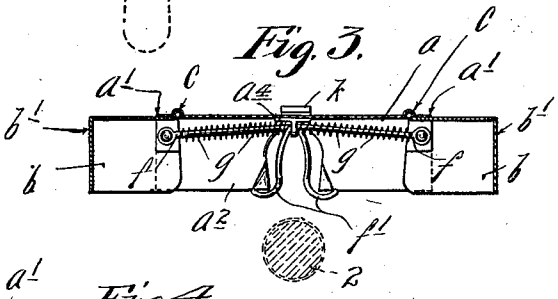
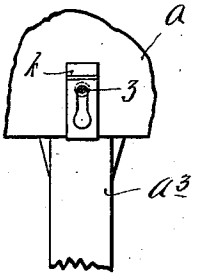


Fig. 6.

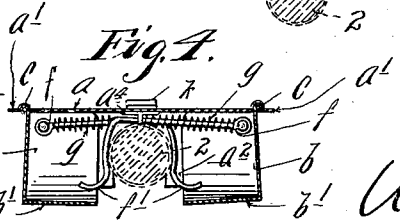


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Fig. 4.



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No. 742,859. Patented November 3, 1903.

UNITED STATES PATENT OFFICE.

PAUL H. GROSS AND ALBERT PETERSON, OF MINNEAPOLIS, MINNESOTA.

DUST-PAN.

SPECIFICATION forming part of Letters Patent No. 742,859, dated November 3, 1903.

Application filed March 19, 1903. Serial No. 148,465. (No model.)

To all whom it may concern:

Be it known that we, PAUL H. GROSS and ALBERT PETERSON, citizens of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented certain new and useful Improvements in Dust-Pans; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention has for its object to provide an improved dust-pan having an improved device for attaching it to a broom; and to this end it consists of the novel devices and combinations of devices hereinafter described, and defined in the claims.

The invention is illustrated in the accompanying drawings, wherein like characters indicate like parts throughout the several views.

Figure 1 is a plan view of the improved dust-pan, showing a broom in dotted lines. Fig. 2 is a section on the line x^2 x^2 of Fig. 1. Fig. 3 is a transverse section on the irregular line x^3 x^3 of Fig. 1. Fig. 4 is a view corresponding to Fig. 3, but showing the hinged sides of the dust-pan as folded. Fig. 5 is a section on the line x^5 x^5 of Fig. 1, and Fig. 6 is a section on the line x^6 x^6 of Fig. 2.

The numeral 1 indicates the body, and the numeral 2 the handle, of a broom, which parts are shown only by dotted lines.

The numeral 3 indicates a nail driven into the wall or support 4, which parts are shown only in Fig. 2.

The body of the dust-pan is made up of three sections—to wit, an intermediate section *a* and folding side sections or wings *b*—which sections are hinged at *c*. The wing-sections *b* are provided with vertical flanges *b'* at their outer and rear edges. The intermediate section *a* is provided at its sides with projecting edges *a'*, which limit the downward movements of the wing-sections *b*. At its rear end the intermediate section *a* is formed with a vertical flange a^2, which overlaps with the rear ends of the wing-flanges *b'* and at its intermediate portion runs into a channel-like handpiece a^3. This channel-like handpiece a^3 is adapted to receive the broom-handle, as shown by dotted lines in Figs. 1 and 4. To the rear end of each wing-flange *b'* is pivotally connected an operating-rod *f*. The rods *f* extend inward and work through a guide-lug a^4 on the section *a*, and their overlapping inner ends are bent upward to form cam-acting hooks *f'*. Coiled springs *g*, placed on the rods *f* and compressed between the lug a^4 and the pivoted ends of said rods *f*, normally yieldingly hold the wing-sections *b* of the dust-pan distended or turned outward, as shown in Figs. 1 and 3.

On the back and rear portion of the dust-pan section *a* is a slotted strip *k*, which is adapted to be applied to a nail 3 to hang the dust-pan against a wall.

The inturned edges of the handle 3 are so spaced that they must be slightly spread or sprung apart in order to permit the broom-handle to pass between the same, as shown by dotted lines in Figs. 1 and 4. The cam-acting hooked ends *f'* of the rods *f* are so spaced apart that when the broom-handle is forced into the dust-pan handle a^3, as just stated, the said ends *f'* will be engaged by the broom-handle and forced apart, as shown by full lines in Fig. 4. Under the above action of the broom-handle on the hooked ends *f'* the rods *f* are drawn inward against the tension of the spring *g* and the wing-sections of the dust-pan are moved pivotally or folded around the edge of the broom head or body. By reference to Fig. 1 it will be noted that the intermediate section *a* of the dust-pan is approximately the same width as that portion of the broom-body which when the broom is applied to the dust-pan stands in line therewith. The wing-sections *b* are of such width that they will fold closely around the adjacent edges of the broom-body.

From the foregoing description it is evident that when the broom is applied to the dust-pan it will not only be held thereby, but will be partially incased by the dust-pan. The wing-sections which close around the edges of the broom securely hold the broom. The dust-pan is thereby made to serve as a holder for the broom, and both, therefore, may be supported from the same nail or similar device on the wall or other support.

Aside from the feature of applying the dust-pan to the broom it is important to have a

dust-pan that will fold, so that it may be inserted through the door or through one of the top holes of a stove.

It will of course be understood that the device is capable of modification within the scope of our invention, as herein set forth and claimed.

What we claim, and desire to secure by Letters Patent of the United States, is as follows:

1. In a dust-pan having hinged wing-sections, the combination with spring-pressed operating-rods, connected to said wing-sections and having parts adapted to be engaged by the handle of a broom, to cause the wing-sections to fold around the body of the broom, substantially as described.

2. In a dust-pan, the combination with the section a, having the channel-like handle a^3, and hinged wing-sections b, of the operating-rods f, pivoted to said wing-sections b, suitably guided at their rear ends and provided with cam-acting hooked ends f' engageable with the handle of the broom to cause said wing-sections to fold around the body of the broom, when the broom-handle is placed in the said handle a^3, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

PAUL H. GROSS.
ALBERT PETERSON.

Witnesses:
GENEVIEVE HIRSCH,
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