No. 698,834. Patented Apr. 29, 1902.

W. L. HARRIS.

DUST PAN.

(Application filed Dec. 26, 1901.)

(No Model.)

Fig. 1.

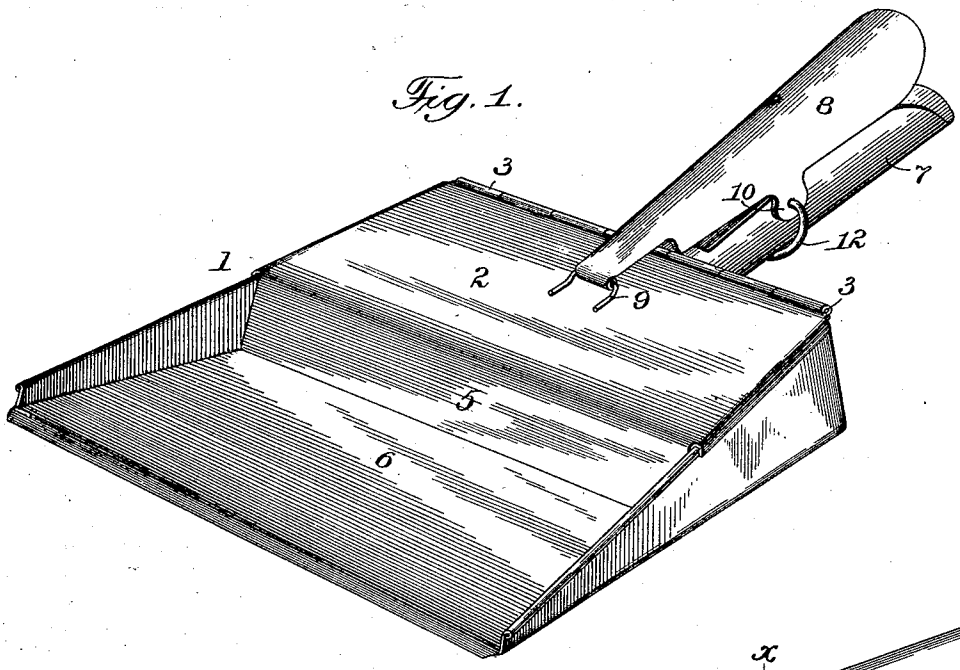


Fig. 2.

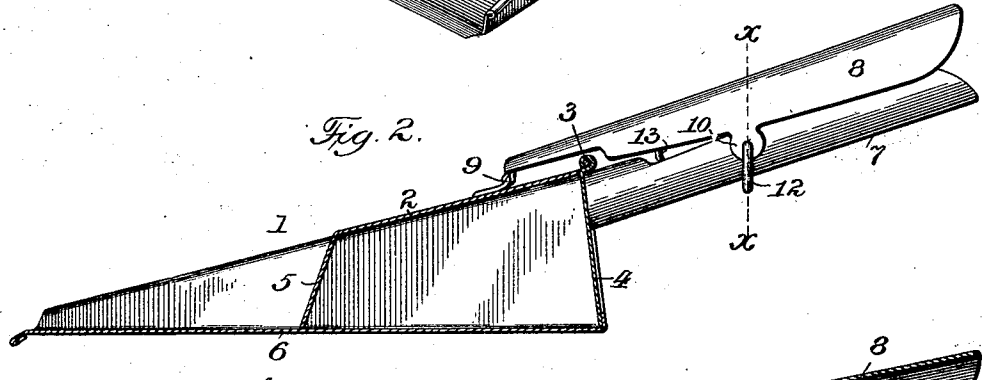


Fig. 3.

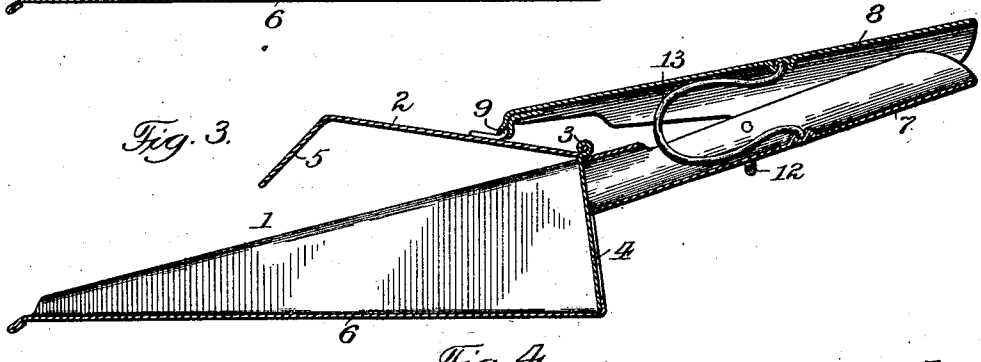
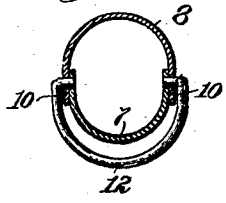


Fig. 4.



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UNITED STATES PATENT OFFICE.

WILLIAM L. HARRIS, OF CHICAGO, ILLINOIS, ASSIGNOR OF THREE-FOURTHS TO GEORGE H. B. FRENCH, GEORGE H. FRENCH, AND ADDA T. HOWLAND, OF CHICAGO, ILLINOIS.

DUST-PAN.

SPECIFICATION forming part of Letters Patent No. 698,834, dated April 29, 1902.

Application filed December 26, 1901. Serial No. 87,143. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM L. HARRIS, a citizen of the United States of America, and a resident of Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Dust-Pans, of which the following is a specification.

The present invention relates to a dust-retainer for household dust-pans, and has for its object to provide a simple, durable, and convenient arrangement and mechanism whereby the closure-plate or lid for the dust-receiving chamber can be conveniently manipulated by the user, all as will hereinafter more fully appear, and be more particularly pointed out in the claims.

In the accompanying drawings, illustrative of the present invention, Figure 1 is a perspective view of a dust-pan embodying the present improvements. Fig. 2 is a longitudinal sectional elevation with the parts in a closed condition; Fig. 3, a similar view with the parts in an opened condition to permit the dust or sweepings to be swept into the dust-holding chamber; Fig. 4, a detail transverse section at line x x, Fig. 2.

Similar numerals of reference indicate like parts in the several views.

Referring to the drawings, 1 represents the body portion of the dust-pan of any ordinary form and construction.

2 is an angular cover or member hinged at 3 to the rear wall 4 of the main body of the pan and with its substantially vertical front plate or wall 5 adapted when in a closed position of the parts to rest upon the bottom plate 6 of the dust-pan to form a closed dust-receiving chamber at the rear portion of the dust-pan and into which the dust and the like is adapted to be swept, with the said cover in an open or raised position.

7 is a fixed handle or grip member secured to and projecting rearwardly from the rear wall 4 of the dust-pan.

8 is a movable handle or grip member attached by a suitable link connection 9 with the cover 2 at a point forward of its pivot connection 3 with the body portion of the dust-pan. At about midway its length this handle or grip member 8 is pivotally connected to the fixed handle or grip member 7, the construction being such that the operator by squeezing upon the rear portions of said members 7 and 8 will cause the hinge-cover 2 to swing up into its open position, as illustrated in Fig. 3, and by releasing such rear portion from such squeezing action will allow the said hinged cover 2 to return to the closed position illustrated in Fig. 2, the operator during either manipulation retaining a grip upon the handle, so as to hold and carry the dust-pan.

13 is a spring-loop arranged between the handle members and adapted to force the rear ends of the same apart, and in a preferred construction the respective ends of said spring will be bent to form bearing-points which engage in recesses in the handle members to retain the spring in place, as shown in Fig. 3.

In my preferred construction of the parts, as illustrated in the drawings, the handle members 7 and 8 will be formed of sheet metal bent into a semicircular shape, and one member will be provided with pendent ears 10, through a pivot-hole in which the pivot-wire 12 passes to engage in a corresponding pivot-hole in the other handle member. Such pivot-wire 12 is preferably formed by a spring-loop 13, as illustrated in Fig. 3, so as to be capable of ready and convenient removal and replacement in an operation of repairing or replacing a broken or worn part of the dust-pan.

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

1. In a dust-pan of the character herein described, the combination of a pan-body, a hinged cover forming a dust-chamber at the rear of the same, a fixed handle member secured to the dust-pan body, and a movable handle member pivoted midway its length to the fixed handle member and operatively connected to the hinged cover at a point forward of the hinge connection of said cover to the body of the dust-pan, substantially as set forth.

2. In a dust-pan of the character herein de-

scribed, the combination of a pan-body, a hinged cover forming a dust-chamber at the rear of the same, a fixed handle member secured to the dust-pan body, a movable handle member pivoted midway its length to the fixed handle member and operatively connected to the hinged cover at a point forward of the hinge connection of said cover to the body of the dust-pan, and a spring-loop forming the pivotal connection between said handle members, substantially as set forth.

3. In a dust-pan of the character herein described, the combination of a pan-body, a hinged cover forming a dust-chamber at the rear of the same, a fixed handle member secured to the dust-pan body, a movable handle member pivoted midway of its length to the fixed handle member and operatively connected to the hinged cover at a point forward of the hinge connection of said cover to the body of the dust-pan, pendent pivot-ears on the movable handle member, and a spring-loop forming the pivotal connection between the handle members, substantially as set forth.

Signed at Chicago, Illinois, this 23d day of December, 1901.

WILLIAM L. HARRIS.

Witnesses:
ROBERT BURNS,
A. M. HOWLAND.