

(No Model.)

O. M. BARBER.
FOOTHOLD FOR DUST PANS.

No. 510,762.

Patented Dec. 12, 1893.

Fig. 1.

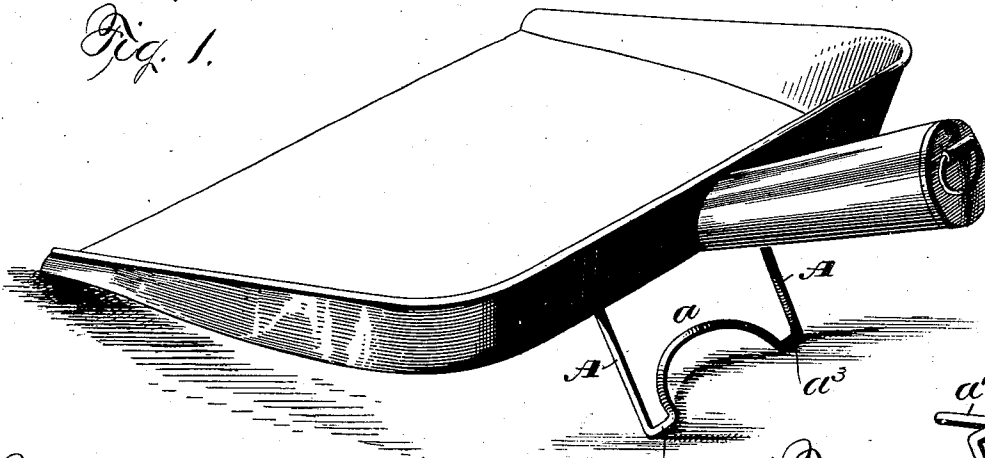


Fig. 2.

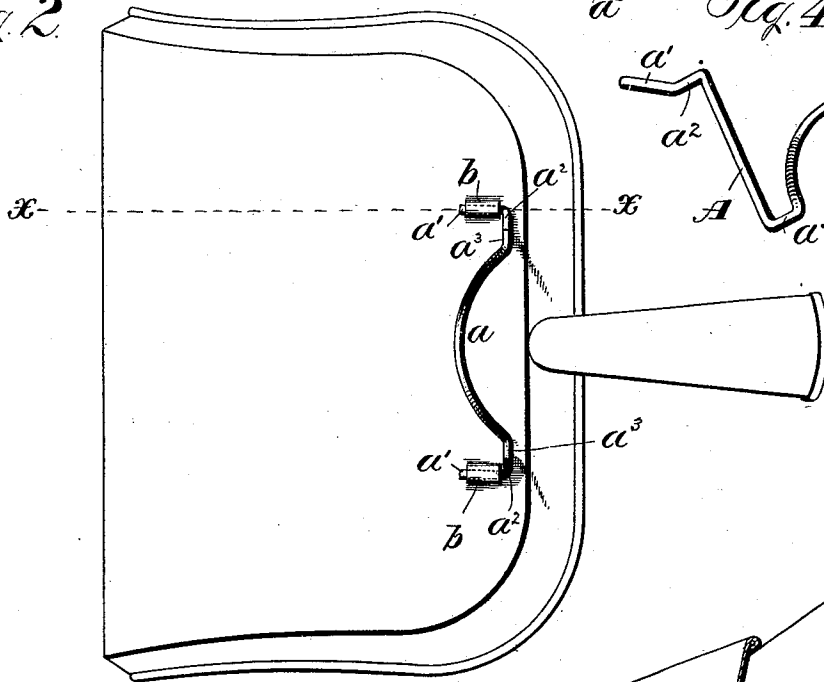


Fig. 4.

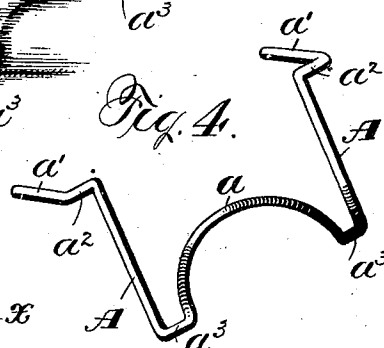
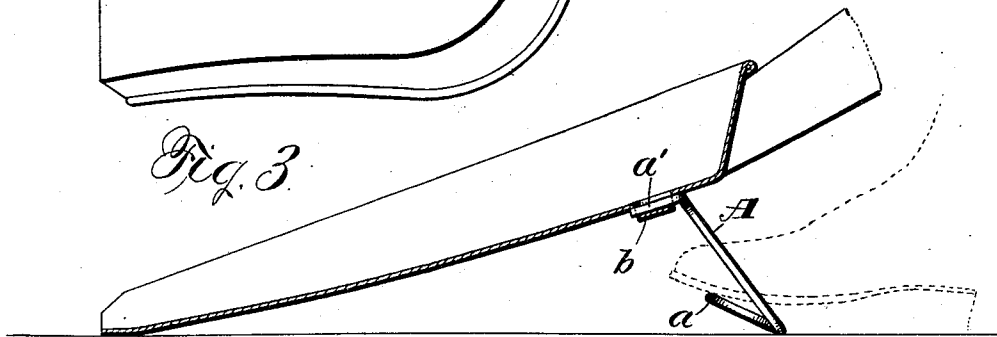


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

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FOOTHOLD FOR DUST-PANS.

SPECIFICATION forming part of Letters Patent No. 510,762, dated December 12, 1893.

Application filed January 3, 1893. Serial No. 457,121. (No model.)

To all whom it may concern:

Be it known that I, OLIN M. BARBER, of Port Richmond, in the county of Richmond, and in the State of New York, have invented certain new and useful Improvements in Foot-holds for Dust-Pans; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of a dust pan having my invention applied; Fig. 2 a bottom view thereof; Fig. 3 a longitudinal section on line $x-x$, Fig. 2, and Fig. 4 a perspective view of the foot hold alone.

Letters of like name and kind refer to like parts in the several views.

My invention relates to foot holds for dust pans to enable them to be held to the floor by the foot of the pan user, so that the latter need not bend down to hold the pan with the hand, and can have both hands free to use the broom.

My object in making such invention has been to provide a foot hold by which the front dust receiving edge of the pan will be closely and firmly held to the floor; which can be readily and easily attached to and detached from the pan; and which will be so simple as to be capable of ready and cheap manufacture and application to the pan.

To these ends, my invention consists in the foot hold, and its construction and combination with a dust pan, substantially as and for the purpose specified.

My invention is applicable to any form of dust pan, and hence I wish it understood that I do not limit myself to the one shown, which is the ordinary kind having a flat main portion with its forward edge adapted to rest upon the floor being swept, so that the dust will easily pass from the floor over it, the dust retaining sides, and the upturned back, to which is attached the usual handle by which it can be carried in the hand.

The foot hold is shown as attached to the pan on its under side near its back end and constructed and arranged, so as to lift the latter from the floor for the purpose of causing the front edge to lie closely thereto, which, as is well known, is necessary to insure the passage of sweepings into and not under the pan. Said foot hold is illustrated as formed in a single piece of wire, and comprises the

two downwardly and rearwardly extending arms A, A whose upper ends are connected in the manner to be described to the pan, and a piece a to be engaged by the foot connecting their lower ends. The connecting piece a does not run directly across from one arm to the other, but the wire is bent to carry it forward and upward from the point where the lower ends of said arms rest upon the floor. Downward pressure upon the piece a will, by reason of its being higher than and in advance of the lower, floor-engaging ends, of the arms A, A, draw the pan downward, and cause its front, dust-receiving edge to be most firmly and closely pressed, and held, to the floor, and so effectually prevent any sweepings passing under said edge. This clamping, or pressing, effect cannot be obtained by the use of foot-holds whose foot engaging parts rest upon the floor. The foot engaging piece a can be given any desired shape to enable it to act as a lever, with the floor engaging parts of the foot hold as fulera, to draw the pan down, when pressed by the foot; but a simple and efficient form is the one illustrated, which is a simple curve in the arc of a circle, and lying in a plane at an acute angle to a horizontal plane.

As far as the performance of the function above described is concerned, the foot hold may be attached to the pan in any desirable way and at any preferred point. I, however, prefer the attaching means shown, as being very desirable because of extreme simplicity and cheapness, and as permitting the easy and ready connection and separation of the foot hold and pan, the latter being of especial moment as with the foot holds removed from the pans, the pans can be compactly nested for the purpose of economizing space in shipping and storing. Such attaching means comprise two loops b, b projecting downward from the pan bottom, near the rear edge thereof and at points equi-distant from its transverse center, and a short straight, forwardly and downwardly inclined arm a' at the free end of each side arm A of the foot hold to engage one of the loops, by being inserted therein from the rear end. The arms a' are not extended directly from the side arms A, A, but from a short, right angled, outward extension a^2 from said side arm. This extension a^2 is a source of strength as it increases the surface engag-

ing the pan bottom. The loops *b, b* may be formed separately from the pan and attached thereto by riveting or soldering, but preferably they are made by offsetting or projecting downward a suitable portion of the pan bottom for each and then perforating the ends of this portion. By this expedient, the disadvantages of riveting, soldering and the like, are avoided, and simplification and cheapening of the device obtained.

The attachment of the foot hold to the pan is effected simply by passing the arms *a', a'* through the loops, and its detachment by withdrawing said arms.

For the purpose of increasing the floor-engaging fulcrum-forming part of my foot hold, a short, straight, horizontally extending piece *a³* is provided at each side between the extremities of the arched or curved piece *a* and the lower end of each side arm *A*.

Having thus described my invention, what I claim is—

1. In combination with a dust pan having loops on its bottom, a foot hold made in one piece of wire comprising two downwardly and

rearwardly extending arms, whose upper ends have forward and downward extensions engaging such loops, and whose lower ends rest upon the floor, and a foot engaging piece connecting said lower ends, and extending upward and forward therefrom, substantially as and for the purpose described.

2. In combination with a dust pan having loops on its under side, a foot hold made in one piece of wire, comprising two downwardly and rearwardly extending arms whose upper ends are carried laterally and then downward and forward and engages said loops, and whose lower ends have straight inwardly and horizontally extending floor engaging portions from the inner ends of which rises a forwardly extending, arched, foot engaging portion, substantially as and for the purpose shown.

In testimony that I claim the foregoing I have hereunto set my hand this 3d day of December, 1892.

OLIN M. BARBER.

Witnesses:

WM. H. LEE,
ALFRED E. MOSHER.