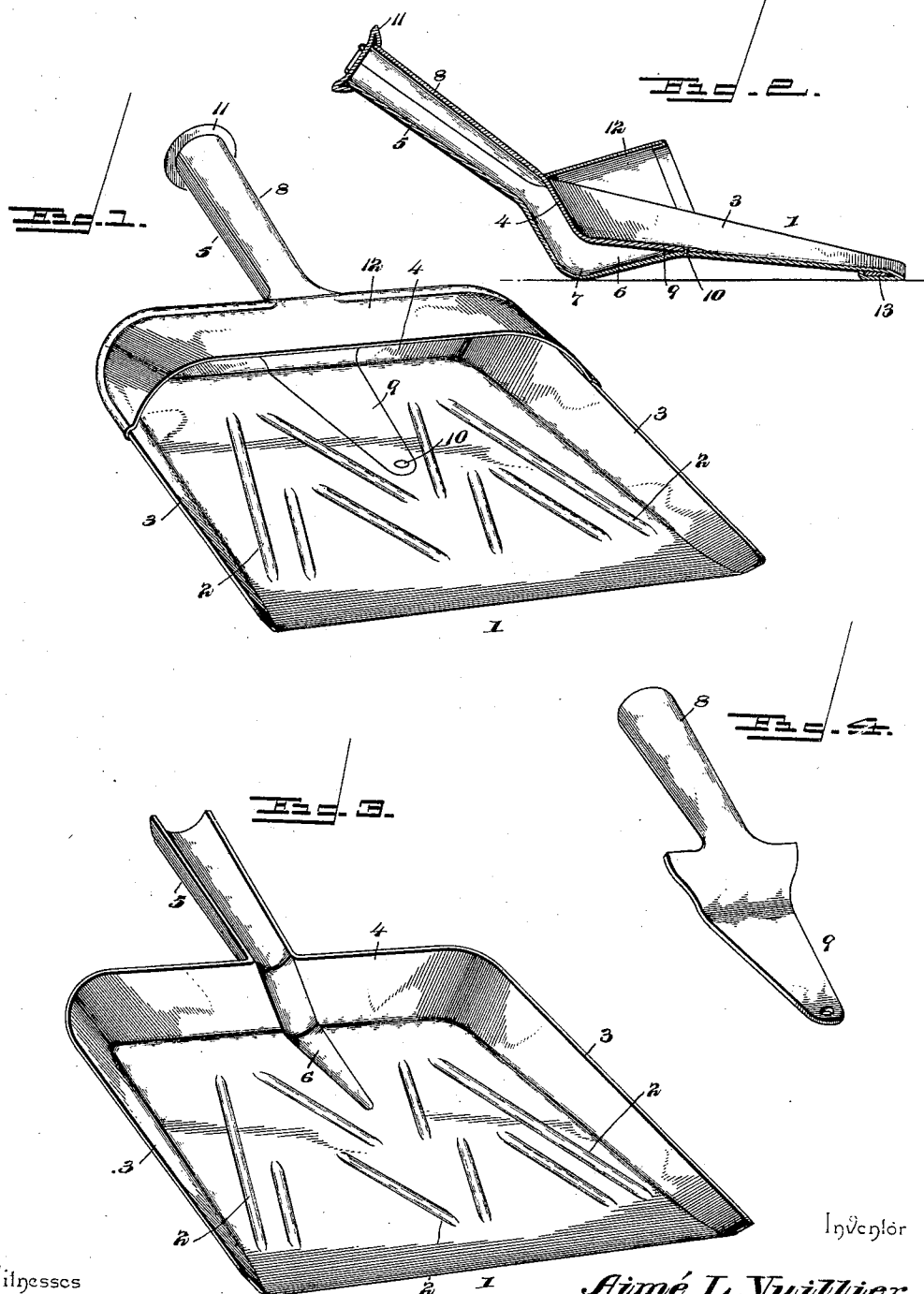


(No Model.)

A. L. VUILLIER.
DUST PAN.

No. 586,919.

Patented July 20, 1897.



Inventor

Witnesses

E. H. Stewart
R. M. Smith

By *his* Attorneys.

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UNITED STATES PATENT OFFICE.

AIMÉ LOUIS VUILLIER, OF BROOKLYN, NEW YORK.

DUST-PAN.

SPECIFICATION forming part of Letters Patent No. 586,919, dated July 20, 1897.

Application filed May 23, 1895. Serial No. 550,387. (No model.)

To all whom it may concern:

Be it known that I, AIMÉ LOUIS VUILLIER, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented a new and useful Dust-Pan, of which the following is a specification.

My invention relates to dust-pans, and has for its object to provide a simple and efficient construction whereby the body of the pan is strengthened at its point of connection with the handle and whereby the means for strengthening the pan at this point forms a heel rest or support for the pan to maintain it at an operative inclination when in use.

Further objects and advantages of this invention will appear in the following description, and the novel features thereof will be particularly pointed out in the appended claim.

In the drawings, Figure 1 is a perspective view of a pan constructed in accordance with my invention. Fig. 2 is a central longitudinal section of the same. Fig. 3 is a perspective view of the pan with the rear guard and the upper handle-section omitted. Fig. 4 is a detail view of the upper handle-section and integral securing-tongue detached.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

1 designates the body of the pan, provided in its floor with a series of corrugations 2 for the purpose of strengthening the material, as in the ordinary practice, said pan-body being provided with lateral and rear walls 3 and 4, respectively.

Integral with the pan-body is an upwardly-concaved extension forming a lower handle-section 5, and communicating with and formed as an extension of this handle-section is a longitudinal depression 6, formed in the rear wall 4 and in the floor of the pan-body, the same being tapered toward its front end and terminating at or near the transverse center of the pan-body. The convex lower side of this depression forms a rest for contact with the floor, whereby when the lowermost point 7 of said depression is in a horizontal plane with the toe or front edge of the pan-body the floor of the latter is inclined at a suitable angle for receiving sweepings, as indicated

clearly in Fig. 2. The toe of the pan is preferably beveled, as in the ordinary practice, and is doubled backwardly upon itself to form a sheath, in which is arranged a strengthening-strip 13, of steel or its equivalent, and the lower side of this sheath is horizontally disposed, and hence forms a flat toe-rest for the pan-body, while the heel-rest 7 prevents the depression of the rear portion of the pan-body sufficiently to raise the extremity of the toe from close contact with the floor. It will be understood that the heel-rest 7 is located only at the center of the pan, and hence does not interfere with the lateral rolling of the pan to suit inequalities of the floor and bring the transverse front or toe bearing in uniform contact with the portion of the floor from which the sweepings are to be removed.

The downwardly-concaved upper handle-section 8 is secured at its rear end to the contiguous extremity of the lower handle-section by means of a flanged cap 11 and is provided at its front end with a transversely flat tongue or extension 9, which covers and closes the depression in the rear portion of the pan-body, as shown clearly in Figs. 1 and 2, and is secured at its extremity to the pan-body by means of a rivet or its equivalent, as shown at 10. The longitudinal depression 6 is adapted to strengthen the pan-body longitudinally at its point of connection with the handle, and the tongue or extension 9 covers and conceals the depression to provide an unbroken interior surface for the pan-body. The usual dust-guard 12 may also be applied in the ordinary way to the rear portion of the pan-body to prevent sweepings from being thrown over the rear wall, this guard or hood being arranged to span the upper handle-section 8 at an intermediate point, and thus assist the terminal fastening devices, respectively the flanged cap 11 and rivet 10, to hold the upper handle-section against displacement.

By forming the depression 6 as an integral part of the pan-body and hence of the lower handle-section it enables me to construct the pan, including the guard or hood, from three blanks which may be stamped to the desired shape, and at the same time, inasmuch as the said depression is in continuation of the downwardly-convexed or semitubular shape of the lower hand-section, the point of con-

nection between the handle and the pan-body is strengthened against bending upon a transverse line, this being the weak point in devices of this class by reason of the downward pressure applied by means of the handle to the rear side of the pan-body to hold the front edge thereof in close contact with the surface being swept in order to prevent dust from passing under said front edge.

10 Having described my invention, what I claim is—

A dust-pan having a sectional handle comprising semitubular sections of which one is integral with the pan-body, and provided in
15 alinement with its handle with an integral longitudinal depression extending approximately to the transverse center of the pan-body to prevent bending upon a transverse line, and depending below the plane of the
20 bottom or floor of said body to form a rounded heel-rest upon which the pan-body may be

rocked laterally and longitudinally to secure a uniform bearing of the front edge or toe of the pan-body upon the surface to be swept, the upper section of the handle having a flat
25 tongue or extension arranged in the plane of the floor of the pan-body to close the open upper side of said depression, said upper handle-section and tongue being secured respectively to the lower handle-section and pan-body at their remote extremities, and a hood
30 or guard attached to the rear edge of the pan-body and spanning said upper handle-section to secure it at an intermediate point, substantially as specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

AIMÉ LOUIS VUILLIER.

Witnesses:

A. H. VUILLIER,
AIMÉ DEFRANCE.