(No Model.)

G. E. NEVILLE.

Dust Pan.

No. 232,361. Patented Sept. 21, 1880.

FIG. 1.

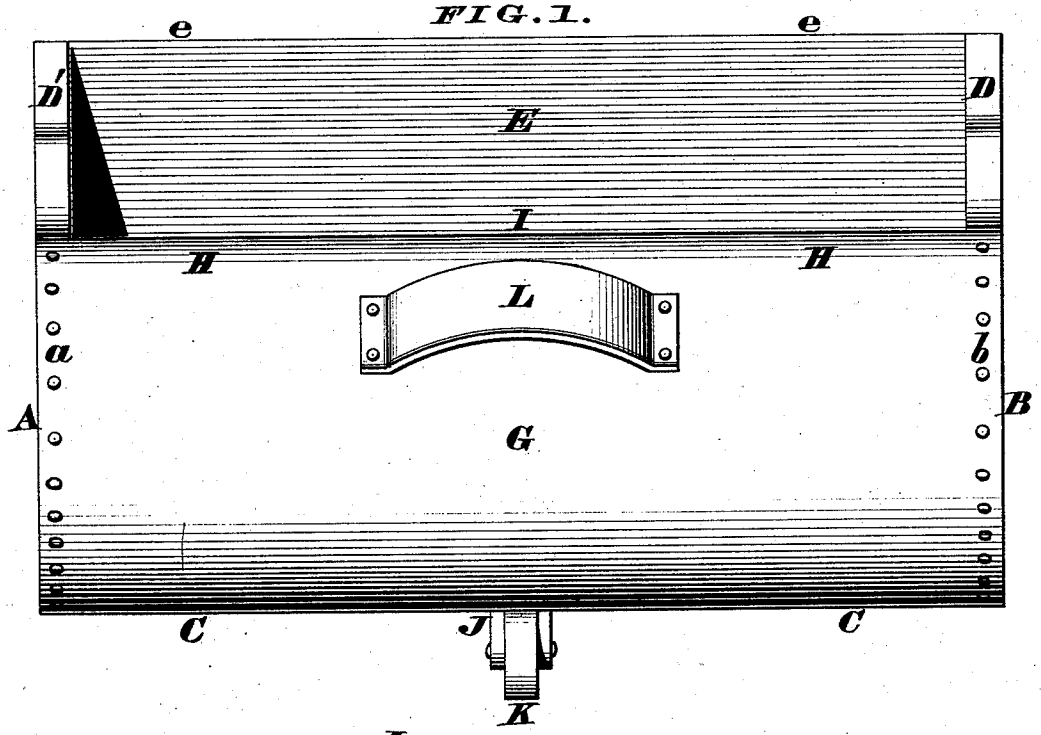
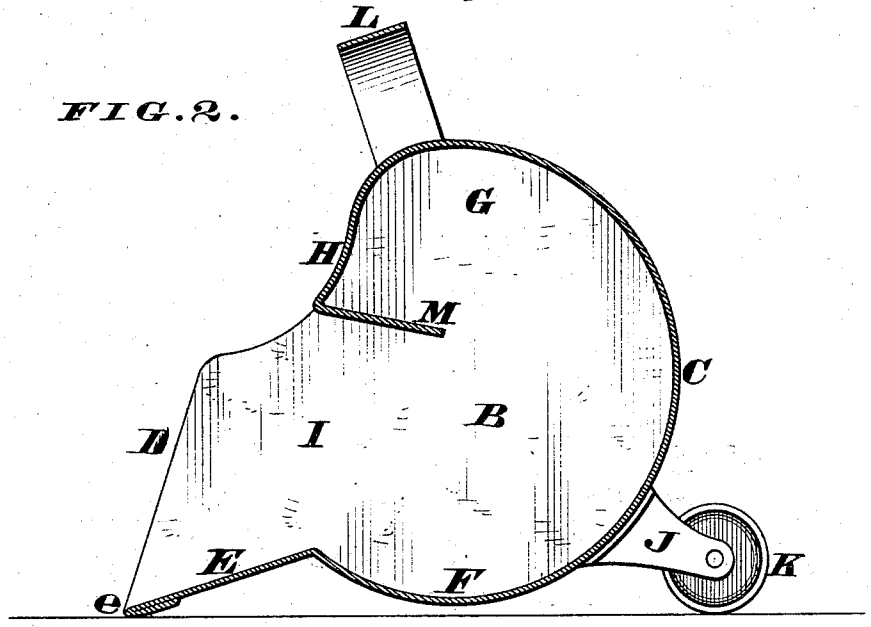


FIG. 2.



Attest:
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UNITED STATES PATENT OFFICE.

GEORGE E. NEVILLE, OF METAMORA, INDIANA.

DUST-PAN.

SPECIFICATION forming part of Letters Patent No. 232,361, dated September 21, 1880.

Application filed August 9, 1880. (No model.)

To all whom it may concern:

Be it known that I, GEORGE E. NEVILLE, of Metamora, Franklin county, Indiana, have invented certain new and useful Improvements in Rolling Dust-Pans, of which the following is a specification.

My invention relates to those implements which are adapted to be rolled over the floor or carpet when in use, and the first part of my improvements comprises a novel shape of the receptacle of the pan. This receptacle is composed of sheet metal, and has at front an apron or inclined plane, the lower margin of which rests directly upon the floor, while its upper edge forms a ridge where the pit or concavity of the pan commences. From this pit the pan gradually curves rearwardly and upwardly, so as to form a dome-shaped chamber, and then bends to the front, thus constituting a valance or curtain, that is carried down far enough to leave a suitable throat between this curtain and the apron, the lower edge of said valance terminating with a rearwardly-projecting deflecting-plate, which arrangement of pit, dome, valance, and plate prevents the lighter particles of dust, lint, &c., flying out into the room after being swept into the pan, as hereinafter more fully described.

The second part of my improvements consists in journaling a caster or small roller to the rear of the implement, which caster coacts with the front margin of the apron in affording a firm bearing for the pan, while at the same time the device can be readily pushed over the floor either by the foot of the operator or with the broom, as hereinafter more fully described.

The third part of my improvements consists in attaching the handle to the body of the implement in such a manner as to prevent the accumulated dust spilling out when the pan is lifted from the floor, as hereinafter more fully described.

In the annexed drawings, Figure 1 is a plan of my rolling dust-pan. Fig. 2 is a vertical section of the same, taken in the plane of the caster.

Referring to Fig. 1, A and B represent, respectively, the opposite ends or heads of the implement, which heads are preferably made of wood, and have secured to them at *a b* a piece of tin or other sheet metal, C, that constitutes the case or body of the pan.

By referring to Fig. 2 it will be seen that the head B has the shape of a segment of a circle with a forwardly-projecting wing, D, the extreme lower edge of which wing is in line with the bottom margin or bearing, *e*, of the apron or inclined plane E. This margin *e* is formed by folding the tin back on itself, so as to afford an increased stiffness of said apron where it rests on the floor or carpet, and from this margin the inclined plane is carried up and rearwardly as far as may be desired until a ridge is made at the junction of said apron with the concavity or pit F, that retains the dust, &c. From this pit the case or body of the pan curves rearwardly and upwardly, so as to form a dome-shaped chamber, G, terminating at front with a curtain or valance, H, between the lower margin of which valance and the upper edge of incline E is located the throat I of the pan. Attached to the rear of body C is a frame, J, which carries a caster, K, of any suitable construction.

L represents the handle of the implement, said handle being located near the front of the pan in order that the preponderating weight may be in the rear of the handle. Consequently when the filled pan is lifted the rear or closed side of the implement will naturally swing down, and thus prevent the accumulated litter falling out at the throat I.

D′ represents the wing of head A, which wing corresponds in size and shape with the opposite one, D. Attached to the lower edge of curtain H and projecting into the dome G is a deflecting-plate, M, which may either be horizontal or it may be inclined at any proper angle, or it may be hinged to said valance and rendered adjustable to suit circumstances.

To use my implement, it is simply placed on the floor, as seen in Fig. 2, and the dirt, dust, &c., are swept directly into the open throat I, and as soon as one portion of the carpet has been cleaned the pan is rolled to a new location by merely giving it a slight push with the broom or foot, and without compelling the operator to stoop and lift it up by hand. This facility of rolling the pan is due to the fact that its rear or advancing side is supported wholly by the caster K, and consequently the

implement cannot be arrested by any inequalities existing either in the floor or its covering. When in use the heavier particles of dirt, &c., are swept directly into the receptacle or pit F, while the lighter particles, such as dust, lint, &c., instead of being dispersed into the air by the current induced by the broom, are first collected in the dome G, and are then deflected or thrown back into said pit by the curtain H and its plate M. Furthermore, any lateral dispersion of dust, &c., is effectually prevented by the wings D D′.

I am aware it is not new to mount a box-shaped dust-pan on rollers and provide it with a hinged apron, up which the dirt is swept into said box, and therefore no broad claim is made for such use of rollers or casters.

I claim as my invention—

1. The combination, in a dust-pan, of heads A B, wings D D′, apron E, pit F, dome G, curtain H, throat I, and deflector M, as described.

2. A rolling dust-pan supported at front by the margin *e* of the rigid apron E and at back by a caster, K, as herein described.

3. In combination with a dust-pan having an apron, E, pit F, dome G, and throat I, the handle L, located in front of the center of gravity of such a pan, for the purpose herein described.

In testimony of which invention I hereunto set my hand.

GEORGE E. NEVILLE.

Witnesses:
JAMES H. LAYMAN,
JEREMIAH F. TWOHIG.