

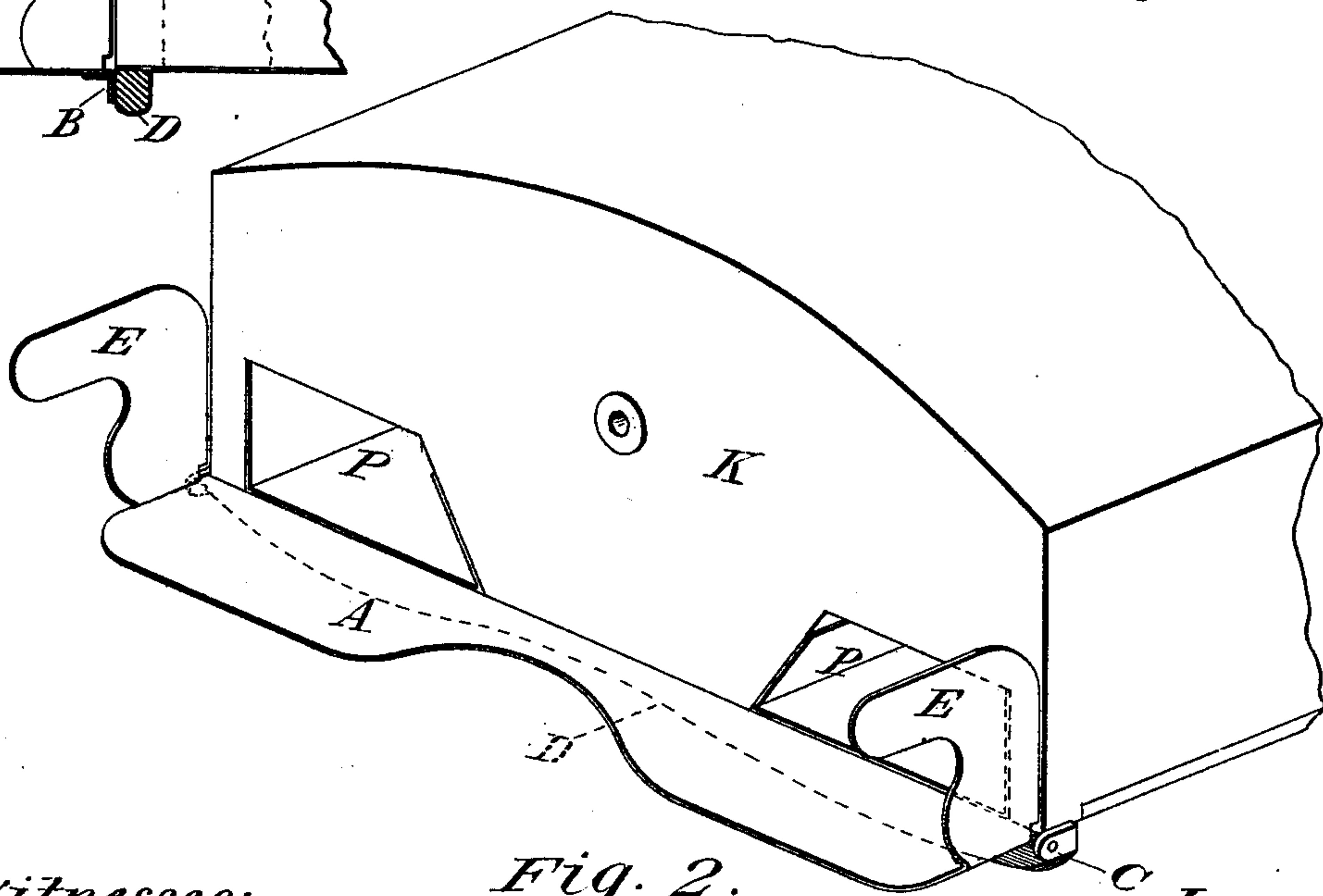
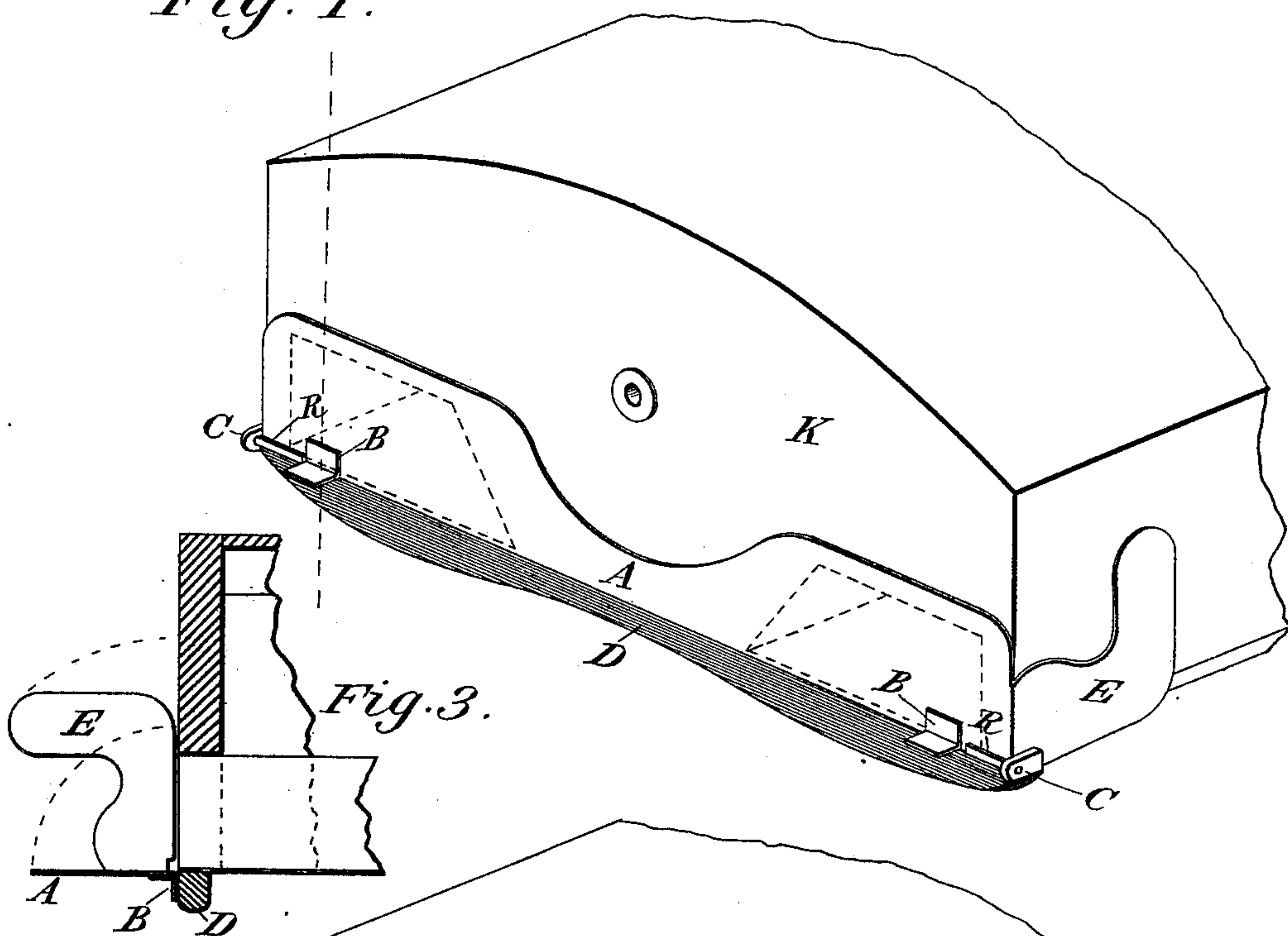
(Model.)

M. R. BISSELL.
Carpet Sweeper.

No. 233,137.

Patented Oct. 12, 1880.

Fig. 1.



Witnesses:

W. F. Lawton,
O. G. Wilson.

Fig. 2.

Inventor:
Melville R. Bissell.

UNITED STATES PATENT OFFICE.

MELVILLE R. BISSELL, OF GRAND RAPIDS, MICHIGAN.

CARPET-SWEEPER.

SPECIFICATION forming part of Letters Patent No. 233,137, dated October 12, 1880.

Application filed May 24, 1880. (Model.)

To all whom it may concern:

Be it known that I, MELVILLE R. BISSELL, of the city of Grand Rapids, county of Kent, and State of Michigan, have invented certain
5 new and useful Improvements in Carpet-Sweepers, of which the following is a specification.

My invention relates to that class of carpet-sweepers in which the dust is discharged from
10 stationary pans through openings in the end of the sweeper, the openings in my sweeper being closed by an automatically-working door, which, when opened, forms an extension of the
15 dust-pans; and the objects of my invention are, first, to form an extension of the pans by means of the opening of the door which covers the end apertures of the sweeper, and, second,
20 to facilitate the discharge of the dust by the automatically-working door. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a perspective end view of a sweeper with the door closed, and Fig. 2 is a perspective end view of a sweeper with the
25 door open. Fig. 3 is a vertical sectional view on a line passing through the lug B, which is shown by dotted line in Fig. 1.

Similar letters refer to similar parts throughout the several views.

30 In Fig. 1, K represents the case of the sweeper; D, the shoe; A, the door; C C, two lugs attached to the shoe D, one at each end. R R are bolts or rods rigidly attached to the door A, and turning in the lugs C C, thus forming
35 hinges for the attachment of the door to the shoe or dust-pans. B B are two ears projecting from the lower side of the door and at right angles to it, so as to rest against the shoe when the door is opened, and to hold it
40 on a line with the bottom of the dust-pans, thus forming an extension of the dust-pans. The hinges, instead of being constructed as above described, may be made in any suitable manner, and may be attached to the sweeper-
45 case or to the ends of the dust-pans, and instead of using the ears B B to support the door in a horizontal position any other suitable device may be used. The position of the door when opened is shown by A in Fig. 2.

E E are two weights attached to the door, 50 one at each end, and may be made from the same metallic plate with the door A, bent at right angles to the door, so as to fit up against the sides of the sweeper-case when the door is closed, as shown in Fig. 1. The weight E 55 is of such weight and shape as to close the door automatically when the sweeper is brought toward a vertical position, and to open the door automatically when the end of the sweeper to which it is attached is dropped down a 60 sufficient distance to allow the dust to be discharged from the pans.

In Fig. 2, E shows the position of the weight when the door is open, and A the position of the door. The upper surface of the door A is 65 in the same plane with the upper surface of the bottom of the dust-pans P P, as shown, so that the dust slides from the pans onto and off from the door A. The weights E E form the sides of the extension of the dust-pans 70 when the door A is open.

The operation of my invention is as follows: When the sweeper is loaded with dust the operator lifts it from the floor, tilts down the end to which the door is attached, thereby open- 75 ing the door, so as to form an extension of the pans, and discharges the dust. He then brings the sweeper toward a vertical position, when the door is automatically closed by the weights E E and the sweeper is ready for use. 80

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

1. The door A, provided with ears B B and side weights, E E, in combination with the 85 sweeper-case K, working automatically, when constructed substantially as and for the purpose described.

2. In a carpet-sweeper, the door A, provided with the side pieces, E E, and ears B B, in 90 combination with the dust-pans P P, so constructed as to form, when opened, an extension of the dust-pans, substantially as described.

MELVILLE R. BISSELL.

Witnesses:

N. A. EARLE,
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