

(Model.)

A. D. PLUMB.
Carpet Sweeper.

No. 233,371.

Patented Oct. 19, 1880.

Fig. 1

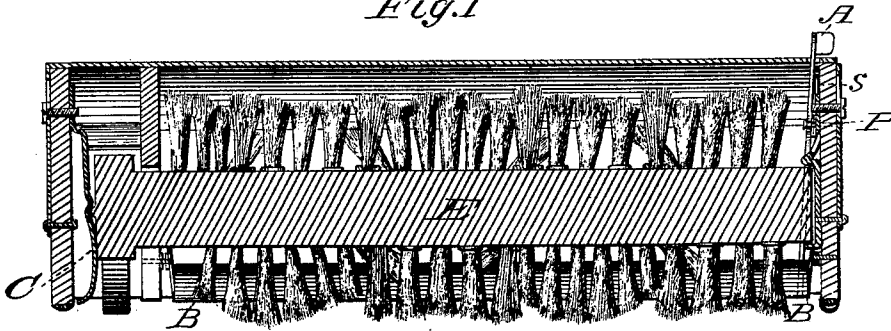


Fig. 2.

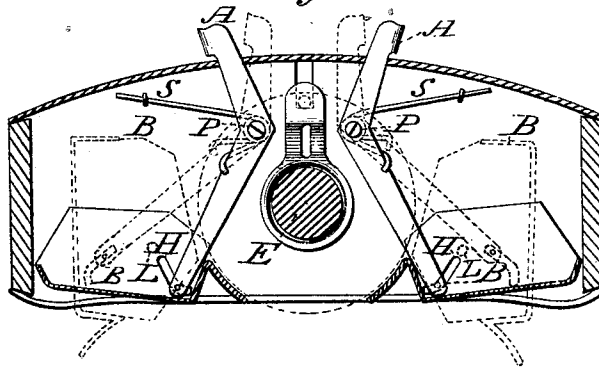
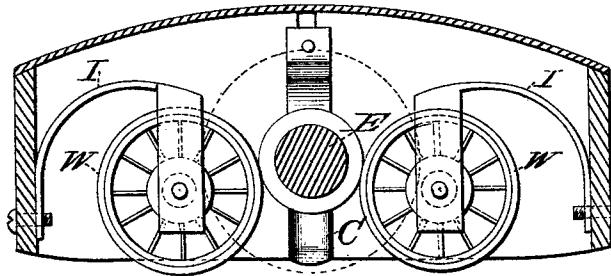


Fig. 3.



Witnesses:

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ADELMER D. PLUMB, OF GRAND RAPIDS, MICHIGAN.

CARPET-SWEEPER.

SPECIFICATION forming part of Letters Patent No. 233,371, dated October 19, 1880.

Application filed April 24, 1880. (Model.)

To all whom it may concern:

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

My invention relates to improvements in carpet-sweepers having the brush-rollers operated by friction driving-wheels; and the objects of my invention are, first, to dump the dirt by revolving the pans by means of spring-levers so constructed as to lock the pans firmly in place when returned to the sweeping position; second, to journal the driving-wheels to bearings having both vertical and lateral motion, substantially as described. I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a longitudinal sectional view through the center of the brush-roller. Fig. 2 is a cross-section at a point near the end of the sweeper, having the dumping-levers and spring attachments; and Fig. 3 is a sectional view, near the end of the sweeper, carrying the driving-wheels.

Similar letters refer to similar parts throughout the several figures.

B B represent the dust-pans supported at either end by pivots L, on which they partially revolve.

H is a slot in the end piece of the dust-pan, so constructed as to receive a pin, which pin is rigidly attached to the bent lever A. The levers A A are attached to the frame of the sweeper by means of pins P P. The pin P is the fulcrum of the lever.

S S are springs, one of which is attached to each lever in the form shown. These springs are designed to bring the levers and pans into place for sweeping, and to lock the pans in such position after they have been thrown out of place, or revolved for the purpose of emptying the dust.

The levers A A project above the case of the sweeper a short distance to enable the operator to readily grasp them between the thumb and finger.

W W represent the driving-wheels; E, the

brush-roller; C, a strip of metal attached to the end of the case and forming a bearing for one end of the brush-roller.

I represent the springs, so arranged as to produce the friction by pressing the driving-wheels against the friction-pulley on the brush-roller.

The spring I may be made of one piece of metal, or of more, and the bearing of the wheel may be a flat piece of metal, or may be in the form of a yoke. The spring I may also be varied in length. The fastening of the spring to the case of the sweeper in one place only allows the free motion of the wheel, and the center of the brush-roller being above the centers of the driving-wheels enables the operator to increase the friction between the wheels and the brush-roller by merely pressing down on the sweeper. I prefer to attach this spring I to the side of the case and have it pass over on a curve in the form shown in the drawings; but it may be varied in form and construction to suit the operator.

The springs S S, as above stated, are designed to bring the pans into position for sweeping after the dumping of the dust and to bring the levers A A into position to lock and hold the pans in place.

The locking of the pans is effected in the following manner: When the pan is closed the pin in the lower end of the lever A fits into the slot H in such a position that by pressing downward on the pan the strain is in a direct line from the slot-pin to the fulcrum-pin P, the slot being so shaped that the slot-pin will not slide in the slot by any pressure that can be brought to bear on the pan, except by pressure brought to bear on the levers A A. By pressing the top of the levers A A together the slot-pin presses on the lower side of the slot, thereby opening the pans, as above described.

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

1. The lever A, provided with the spring S, in combination with the partially-revolving pan B, the lever A provided with a pin working in the slot H, so arranged and constructed as to open the pans from the brush-roller and

to form a lock on the pans when closed, substantially as described.

2. The combination of the springs I I, driving-wheel W, and sweeper-case, the springs
5 being attached at one end to the side of the sweeper-case, and supporting the wheel W by a journal, on which the wheel W revolves,

when constructed as and for the purpose described.

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