B. W. JOHNSON.

CARPET-SWEEPERS.

No. 194,095. Patented Aug. 14, 1877.

Fig. 1.

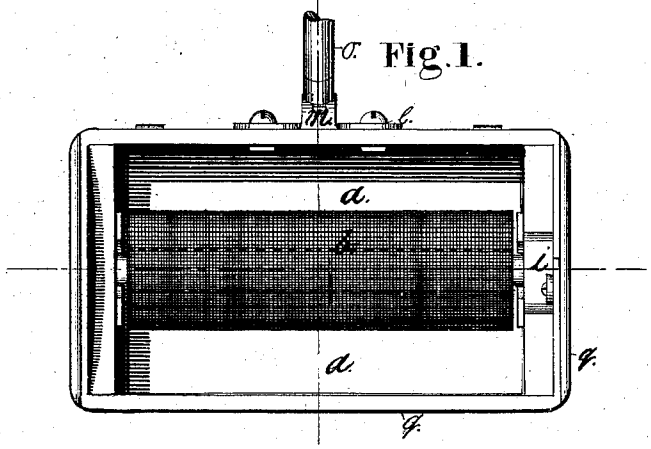


Fig. 2.

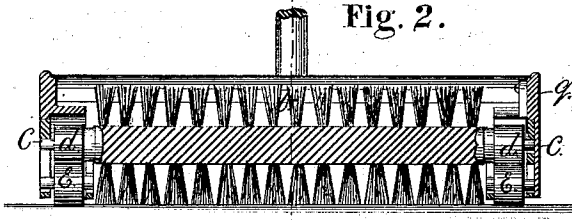


Fig. 3.

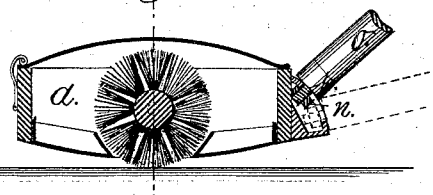


Fig. 4.

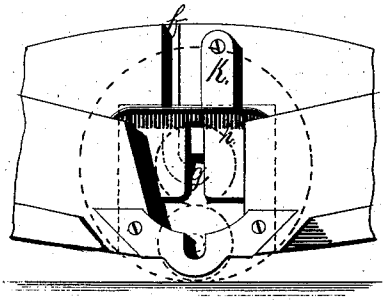


Fig. 5.

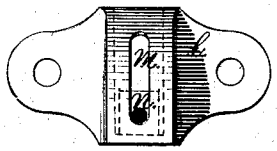
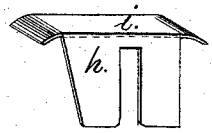


Fig. 6.



WITNESSES

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UNITED STATES PATENT OFFICE.

BENSON W. JOHNSON, OF PROVIDENCE, RHODE ISLAND, ASSIGNOR TO WILLIAM V. DABOLL, OF SAME PLACE.

IMPROVEMENT IN CARPET-SWEEPERS.

Specification forming part of Letters Patent No. **194,095**, dated August 14, 1877; application filed March 24, 1877.

To all whom it may concern:

Be it known that I, BENSON W. JOHNSON, of the city and county of Providence, State of Rhode Island, have invented certain new and useful Improvements in Carpet-Sweepers; and I hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 is a top view of a carpet-sweeper, showing the revolving brush and the guide and cover for the bearing of the same, the cover of the sweeper being shown removed to exhibit these parts. It also shows the adjustable handle and the bracket to which it is secured. Fig. 2 is a vertical section passing longitudinally through the axis of the revolving brush. Fig. 3 is a cross-section of the same. Fig. 4 is an enlarged view of the arrangement for inserting and removing the brush, and also of the guard-slide. Fig. 5 is an enlarged view of the curved bracket, by which the handle is secured to the box so as to be adjustable. Fig. 6 is the guard-slide, shown in perspective.

This invention consists, first, in the peculiar and novel arrangement by which the brush can be readily taken out and replaced, and be firmly secured when in place.

It also consists in the novel arrangement by which the handle is secured to the carpet-sweeper, and by which it can be readily adjusted to any desired angle.

In the drawings, *a a* is the sweeper-box, and *b* the revolving brush. C C are the pins forming the journals or axes of the revolving brush. *d d* are two rubber-covered rolls, secured to the revolving brush, and in contact with the rollers E E.

As formerly arranged, it was difficult to remove the brush, and to facilitate the insertion or removal I cut into one end the slot *f*, the lower end of which is curved, and forms a recessed bearing for the pins C at *g*. When, now, the pin C at one end of the brush is inserted into its bearing, and the other pin is pushed down the slot *f*, and the rollers *d* and E being somewhat elastic, are pressed together, the pin C will pass under the shoulder and enter the recess *g*, and the brush is thus firmly retained.

To close the opening through which the roller *d* has to pass, and also to prevent the possibility of the pin C leaving the recess *g*, I insert the slotted slide *h*, provided with the guard *i*, and secure the same by the turn-button K.

l is a bracket secured to the box *a*, provided with the curved and slotted segmental box *m*, in the inside of which the square nut *n* may freely slide, but in which it cannot turn. *o* is the handle, provided with the screw *p*, which, passing through the slot in *m*, enters the nut *n*, so that by turning the handle the same may be either loosened or firmly and readily secured at any convenient angle.

This device is applicable to many kinds of floor scrubbing or polishing devices.

A carpet-sweeper arranged with my improvements is more convenient in use, does not injure the parts of furniture and the room near the floor, and the revolving brush can be readily taken out, cleaned, and replaced, or a new one substituted therefor, and is in all respects more desirable than carpet-sweepers as heretofore constructed.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination, with the brush *b* and pins C C of the box, its ends having the slot *f* and recess *g*, the slotted slide *h*, provided with the guard *i*, and secured upon the shaft by the turn-button K, arranged to facilitate the insertion and retention of the brush, as and for the purpose set forth.

2. The handle *o*, provided with the screw *p*, in combination with the curved and slotted bracket *m*, arranged to hold the nut *n*, and allow it to slide in the segmental box, so that the handle may be adjusted and secured in any position, substantially as described.

BENSON W. JOHNSON.

Witnesses:

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