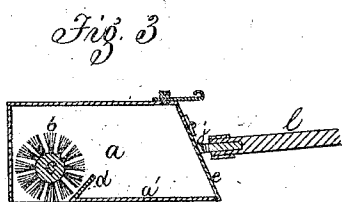
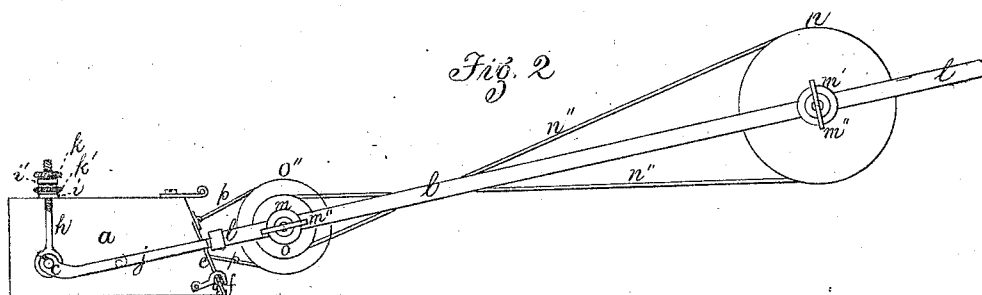
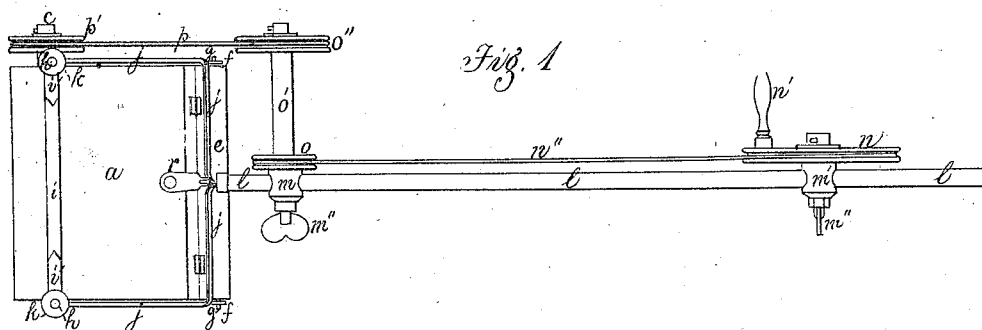


W. MILLER.
Carpet-Sweepers.

No. 140,293

Patented June 24, 1873.



Witnesses
Saml. M. Barton
Jesse F. Wheeler

Inventor
William Miller
by his atty
Camm D. Wright.

UNITED STATES PATENT OFFICE.

WILLIAM MILLER, OF BOSTON, ASSIGNOR TO HIMSELF AND J. J. HATLINGER, OF HYDE PARK, MASSACHUSETTS.

IMPROVEMENT IN CARPET-SWEEPERS.

Specification forming part of Letters Patent No. 140,293, dated June 24, 1873; application filed February 8, 1873.

To all whom it may concern:

Be it known that I, WILLIAM MILLER, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain Improvements in Carpet-Sweepers, of which the following is a specification:

Figure 1 of the accompanying drawing is a top view, and Fig. 2 is a side view, of my improved carpet-sweeper. Fig. 3 is a central vertical longitudinal section through the box of the sweeper.

The present invention relates to certain new and useful improvements in the class of carpet-sweepers whose brush is revolved by the operation of pulleys and connecting-bands; and has for its principal object the more effective operation of the sweeper.

To this end it consists in the combination and arrangement of parts as I will now proceed to describe.

In the accompanying drawings, *a* represents the body or box of a carpet-sweeper whose bottom *a'* is closed on the forward part, and left open rearward, to allow the action of a brush, *b*, connected with and revolved by an axle, *c*, that extends transversely across the interior and through the rear ends of the sides of the box *a*. Connected with the bottom *a'* at the rear, and sloping upward a sufficient distance, and at a proper angle toward the front, is a transverse strip or guide *d*, for the purpose of directing the dirt into and prevent its falling back from the box. The lower portion of the front of the box *a* is hinged to the upper part, and forms an outward swinging lid, *e*, that is held or released by hooks *f* pivoted to the sides of the box, that engage with or are disengaged from pins *g* connected with the ends of the lid *e*; or the lid *e*, which is for the purpose of allowing the removal of the dirt, may, if desired, be otherwise arranged to open and shut, and be fastened or released. Connected with the axle *c* so as not to interfere with its rotation, and yet hold the same, and extending upward either on the outside or inside of each side of the box *a* is a rod, *h*, formed on the top with screw-threads and passing through horizontal plates or bearings *i i'*, one above the other, leaving a space between, and attached to the top of the

box *a*. Turning on the screw end of the rod *h*, above the plate *i*, is a thumb-screw, *k*, and in the space between the plates *i i'* is a thumb-screw, *k'*, that also turns on the screw end of the rod *h*, so that by loosening the thumb-screw *k*, and turning the thumb-screws *k'*, the rod *h*, and consequently the axle and brush connected with them, are raised or lowered, and the brush adjusted as desired. Connected with the ends of the axle *c*, so as to turn on them, are the ends of lever-arms *j*, that extend forward on each side of and around the front of the box, where they connect at the center with the rear end of a handle, *l*, which is provided at the forward and rear ends with suitable sliding axles *m m'*, each formed with a screw-collar or socket, in which thumb-screws *m''* engage to release or hold the axles and allow of their proper adjustment on the handle *l*. Held by and turning on the forward axle *m'* is a pulley, *n*, provided with a handle, *n'*. The pulley *n* connects by a belt, *n''*, with a small pulley, *o*, that turns on the axle *m* and connects by a shaft, *o'*, with a larger pulley, *o''*, that connects by a belt, *p*, with a pulley, *p'*, attached to the main axle *c*. Pivoted on the forward part of the top of the box *a*, so as to be extended beyond the front or turned back over the top, is a catch, *r*, that, when extended, allows the box to be lifted by the handle and carried from one part of the room to another, without tipping.

By the above description, reference being had to the drawings, it will be seen that by turning the forward pulley *n* the several pulleys *o*, *o''*, and *p'* are by their connecting-bands operated, and the brush *b* revolved, thus throwing the dirt up the inclined guide *d* into the forward part of the box, from which it is removed by unfastening the hooks *f* from the pins *g* and opening the lid *e*. When it is desired to lift the handle *l* to remove the box from one position to the other, or to turn it up so as to be out of the way when the sweeper is not in use, it will be seen that the arms *j* connected with and turning on the same axle with the axle-pulley *p'*, and being affixed to the handle allows the latter, and consequently the box, to be raised or lowered, without vary-

ing the tension of the connecting-bands n'' and p .

It will also be observed that any wear of the brush may be taken up, or its position in regard to the carpet altered, as desired, by means of the screw-rods h connected with the brush-axle c , and operated by the thumb-screws k , as shown and above described.

Having thus fully described my improvements, what I claim as my invention, and desire to have secured to me by Letters Patent, is—

1. The screw-rods h , provided with thumb-screws k , and held in bearings i , in com-

bination with the axle c of the brush b , substantially as described, for the purpose specified.

2. The adjustable axles m , provided with pulleys n , in combination with the handle l and axles c , having the pulley p , substantially as and for the purposes set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

WILLIAM MILLER.

Witnesses:

CARROLL D. WRIGHT,

SAM'L. M. BARTON.