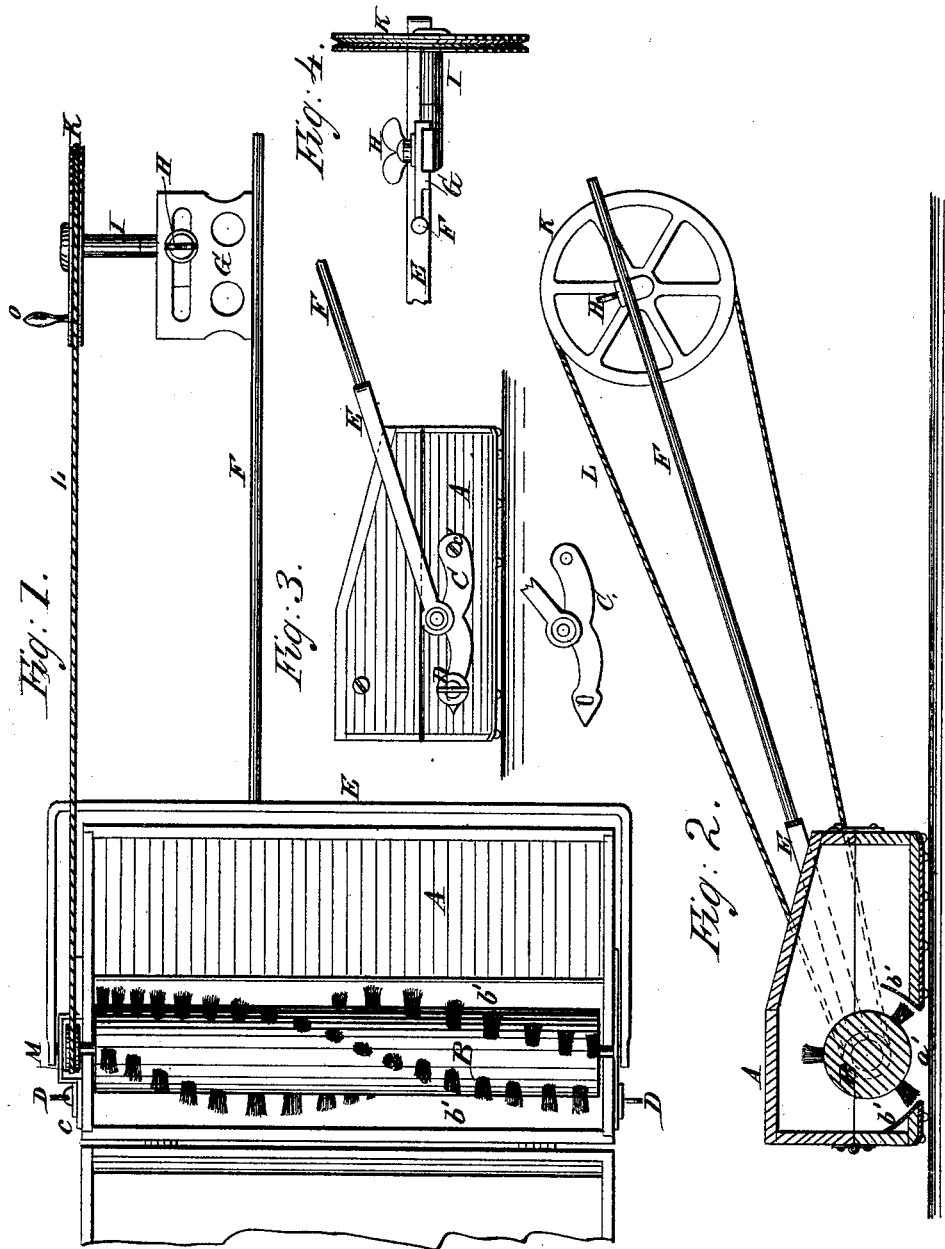


F. COOK.
Carpet-Sweeper.

No. 219,914.

Patented Sept. 23, 1879.



WITNESSES:

Achilles Schehl.
C. Sedgwick

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UNITED STATES PATENT OFFICE.

FREDERICK COOK, OF NEW HAVEN, CONNECTICUT.

IMPROVEMENT IN CARPET-SWEEPERS.

Specification forming part of Letters Patent No. **219,914**, dated September 23, 1879; application filed April 4, 1879.

To all whom it may concern:

Be it known that I, FREDERICK COOK, of New Haven, in the county of New Haven and State of Connecticut, have invented a new and Improved Carpet-Sweeper, of which the following is a specification.

Figure 1 is a plan of the sweeper with the box opened to show the revolving brush. Fig. 2 is a side view, partly in section. Fig. 3 is an end view of the box. Fig. 4 is an end view of the driving-pulley and its adjusting connections.

Similar letters of reference indicate corresponding parts.

The object of this invention is to provide a carpet-sweeper whose brush is made to revolve by means of adjustable cord and pulleys, and is also vertically adjustable in its box.

The invention consists of the box A, having a longitudinal opening, *a'*, in its bottom, extending its whole length. On the inside of the box, and attached along the edges of this opening, are two plates, *b' b'*, curved to correspond with the circumference of the brush B, that revolves between them.

Secured to either end of the box are the adjustable bearings C, that support the axle of the brush. These bearings are pivoted at *c'*, and through slots in their other ends pass the thumb-screws D, that hold them to the box and permit their adjustability.

By loosening the thumb-screws the bearings, and consequently the brush, may be moved within a limited range, up or down, and secured in position by tightening the screw.

A clevis, E, is attached to the axle of the brush, from near the central point of which projects the handle F. Attached to one side of the handle is a slotted plate, G, in whose slot moves the thumb-screw H, that holds the shaft I, with the pulley K, that revolves on it, in position.

The cord L connects the driving-pulley K with the pulley M, that is secured to the axle of the brush, between one end of the clevis E and the end of the box.

To operate the device, the position of the brush relative to the carpet is adjusted by the thumb-screws D D, and the tension of the cord L is also regulated by the action of the thumb-screw H. Then the operator, taking hold of the handle F with one hand, pushes the device forward, the bottom of the box resting and sliding on the carpet, while, with the other hand upon the pin O, he turns the pulley K and causes the brush to revolve at any desired speed. The revolving brush sweeps the carpet and deposits the result in the closed box.

The adjustability of the brush adapts it to every style of carpet or floor, whether it requires light or hard sweeping, while by the arrangement of the cord and pulleys it is possible to give rapid revolution to the brush while moving slowly over the floor.

It will be seen that by having the bearings of the brush axle altogether outside of the box considerable space is allowed between the ends of the brush and the bearings for the collection of threads, hair, &c., that when swept up are so liable in other sweepers to clog the bearings and make the brush run hard. By the arrangement of parts as herein shown and described, such threads, hair, &c., are absolutely prevented from interfering with the bearings, and as the box opens through its center the brush and axle can be easily got at to be cleaned without removing them.

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

The within-described carpet-sweeper, consisting of box A, brush B, adjustable and slotted bearings C, thumb-screws D D and H, clevis E, handle F, plate G, shaft I, pulley K, cord L, and pulley M, constructed and arranged substantially as herein shown and described.

FREDERICK COOK.

Witnesses:

NATHAN GREENMAN,
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