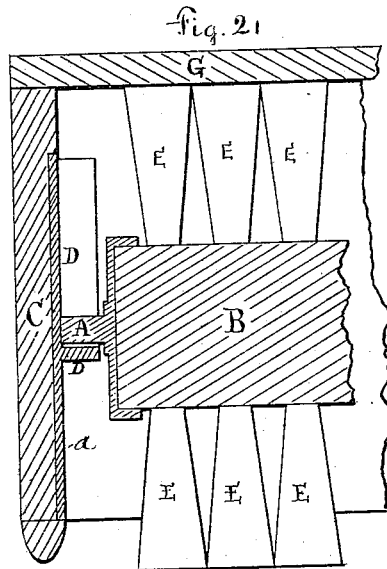
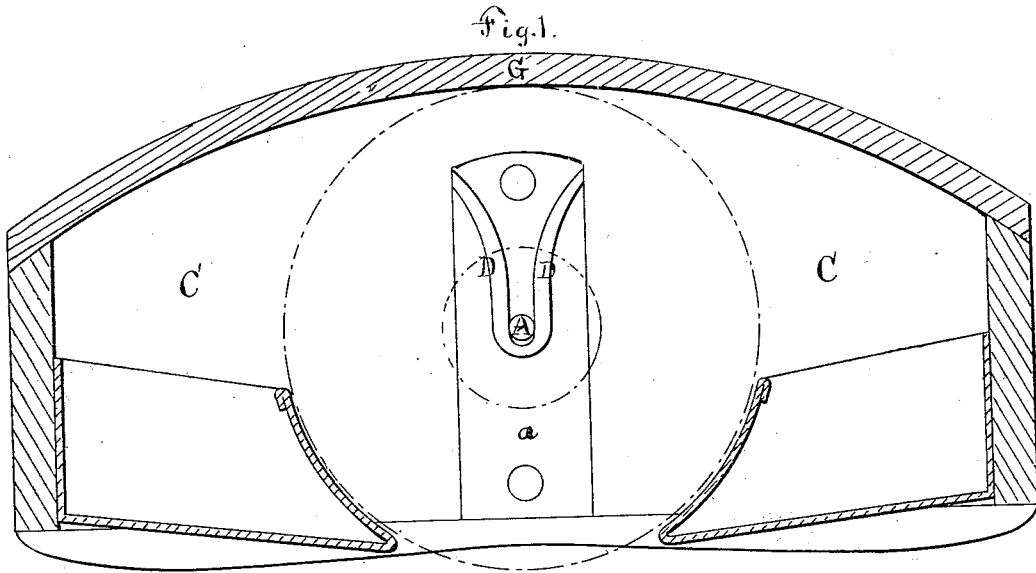


A. H. SPENCER.
Carpet-Sweepers.

No. 166,422.

Patented Aug. 3, 1875.



Chas. F. Sleeper.
J. E. Renox

Albert H. Spencer
by J. E. Maynard
his atty.

UNITED STATES PATENT OFFICE.

ALBERT H. SPENCER, OF BOSTON, ASSIGNOR TO JOHN J. HALEY, OF NEWTON, AND HENRY C. MORSE, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN CARPET-SWEEPERS.

Specification forming part of Letters Patent No. **166,422**, dated August 3, 1875; application filed June 27, 1874.

To all whom it may concern:

Be it known that I, ALBERT H. SPENCER, of Boston, Massachusetts, have invented an Improvement in Carpet-Sweepers, of which the following is a specification:

My invention consists in so mounting the brush in the box of a carpet-sweeper that it will be held in contact with the floor by its own weight. Heretofore all carpet sweepers known to me have had the boxes to receive the brush-shaft so constructed and arranged that the axis of the brush was always at a given distance from the carpet until adjusted to some other height by some mechanical device.

In the drawing, A is the spindle upon which the brush revolves; B, the brush-shaft; C, the case, or an end thereof, with the cover G closing it at the top; D, the elongated bearing formed upon the end plate *a*.

In my improved carpet-sweeper, the weight of the brush rests upon the carpet, and is supported by the bristles, the bearings being elongated vertically in order to allow a slight vertical motion to the brush. One of the bearings—that next the driving-wheels—may be made in the usual way, care being taken not to make the spindle fit it too snugly, as the driving-wheels tend to keep the brush in its place. The other bearing should be a ver-

tical slot—that is, of a diameter vertically much greater than its diameter horizontally. For convenience in removing and replacing the brush, I prefer to make this slot open at the top.

When one of my sweepers is in use, this bearing of the brush-shaft is formed by the two vertical walls of the slot, and the slot might well be open both at top and bottom, so far as the operation of the sweeper is concerned, as the bristles, acting on the floor, would keep the brush from falling too low; but I prefer in all cases to close this slot at the bottom, as otherwise the brush is liable to get displaced when the sweeper is lifted; but there is no need of closing this slot at the top, as the bristles come in contact with the cover, and thus prevent the brush from rising far enough to disengage its spindle from the slot when the cover is closed.

What I claim as my invention is—

The combination, in a carpet-sweeper, of the case C, cover G, spindle A, brush-shaft B, and open vertically-slotted bearing-plate D, substantially as and for the purpose set forth.

A. H. SPENCER.

Witnesses:

J. E. KNOX,
J. E. MAYNADIER.