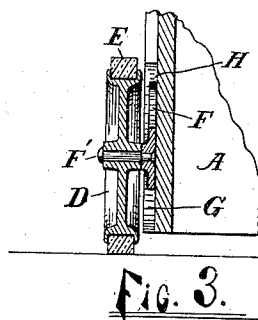
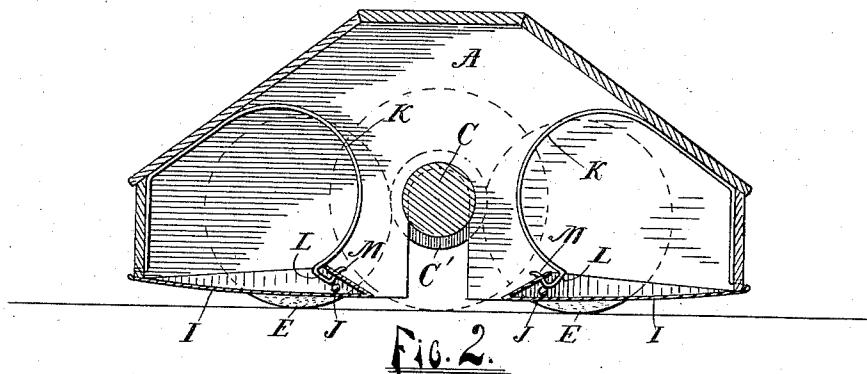
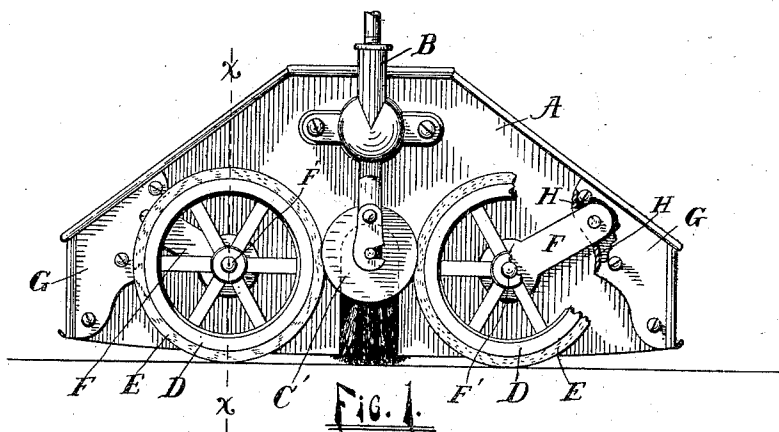


(No Model.)

S. H. RAYMOND.
CARPET SWEEPER.

No. 476,211.

Patented May 31, 1892.



WITNESSES:

George A. Shook
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UNITED STATES PATENT OFFICE.

SILAS H. RAYMOND, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR TO T. STEWART WHITE AND THOMAS FRIANT, OF SAME PLACE.

CARPET-SWEEPER.

SPECIFICATION forming part of Letters Patent No. 476,211, dated May 31, 1892.

Application filed April 15, 1891. Serial No. 389,074. (No model.)

To all whom it may concern:

Be it known that I, SILAS H. RAYMOND, a citizen of the United States, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Carpet-Sweepers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in carpet-sweepers; and its object is to provide the same with certain novel and useful features, as hereinafter more fully described, and particularly pointed out in the claim, reference being had to the accompanying drawings, in which—

Figure 1 is an end elevation of a device embodying my invention, with parts broken away; Fig. 2, a transverse vertical section of the same, and Fig. 3 a vertical sectional detail on the line $x x$ of Fig. 1.

Like letters refer to like parts in all the figures.

A represents the sweeper-case; B, the bail; C, the brush-shaft, having the usual hard-wood pulleys C'.

The driving-wheels D are provided with compressible elastic rims E, made of soft rubber, which are detachable and engage grooves in the rims of said wheels.

F designates arms which are provided with studs F' at their inner ends, upon which said driving-wheels are journaled, and at their outer ends are pivoted upon the inside surfaces of angle-plates G, which are provided with flanges H, thereby forming chambers H', within which the inner ends of said arms are located, said ends being thereby protected. These angle-plates G also serve to brace and strengthen the casing and provide a more secure fastening for the arms than is furnished by the cases, which are ordinarily made of thin wood. The flanges H, being located at opposite sides of said arms, serve as stops to limit the motion thereof, so that when the sweeper is lifted from the floor the wheels D will not

fall too far away from the pulley C', and also prevent said wheels from passing said pulley in an upward direction. The inner ends of said arms F thus have a limited movement inward and upward, whereby contact is maintained between said wheels and pulley. By compression of the soft-rubber rims E at the point of contact with the floor and brush-pulley its frictional surface is increased, and also vertical elasticity secured, whereby the brush is brought in closer contact with the carpet by pressure upon the bail B without the necessity of employing springs or other supplemental devices for the purpose.

I I are the dust-pans, pivoted near their inner edges at J and having inner upturned edges having perforations through which the hooks M on the ends of the springs K pass, which springs extend upward in a curve and thence outward along the angle of the case, to which they are secured at their fixed end in any suitable manner. Said spring has an intermediate part L substantially at right angles to said hook M, which when the pan is opened a sufficient distance contacts the edge of the same and stops its further movement. I thus provide these pans with independent springs, which serve to close the same and which also, by their peculiar form and relation to the pans, serve to stop the movement of the same when opened.

What I claim is—

In a carpet-sweeper, driving-wheels having compressible elastic rims engaging a pulley on the brush-shaft, said wheels journaled to rigid arms extending from said journals diagonally outward and upward and pivoted at their outer ends to angle-plates having stops to limit the movement of said arms, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

SILAS H. RAYMOND.

Witnesses:

LUTHER V. MOULTON,
GEORGE W. SHOOK.