

(No Model.)

S. H. RAYMOND.
CARPET SWEeper.

No. 473,438.

Patented Apr. 19, 1892.

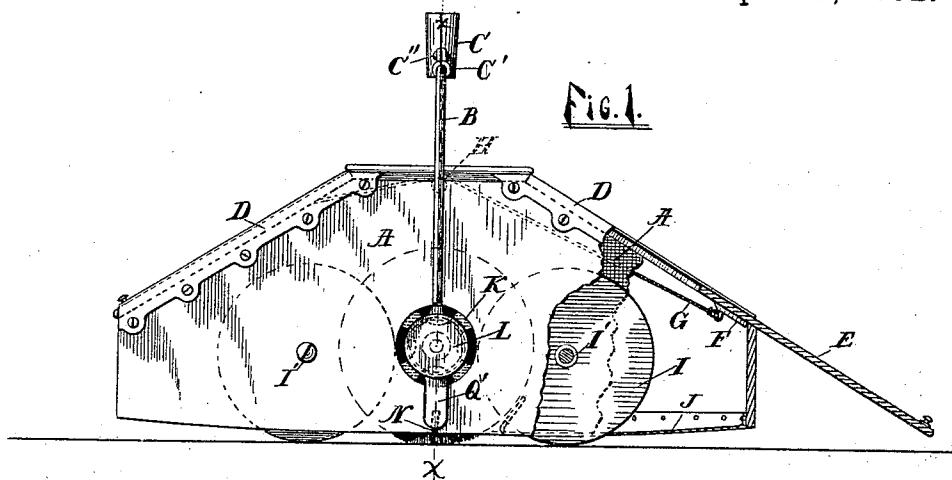


Fig. 1.

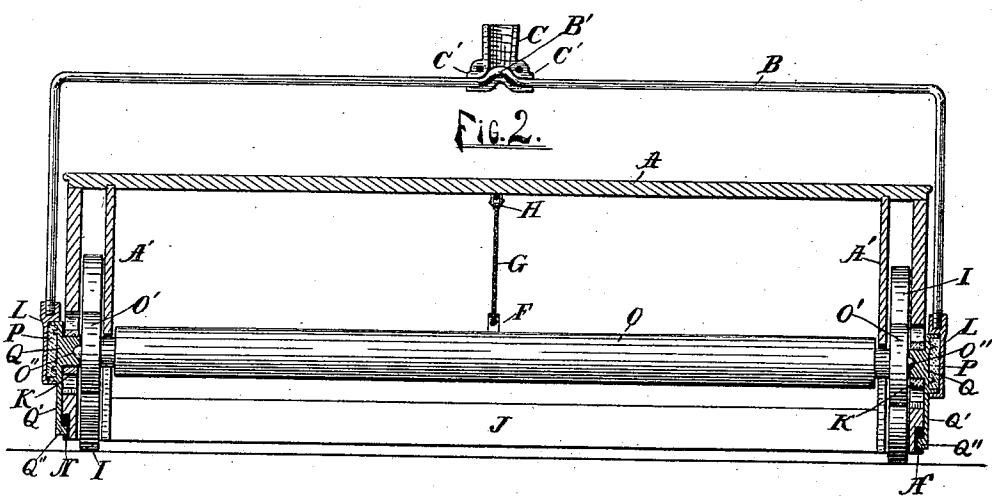


Fig. 2.

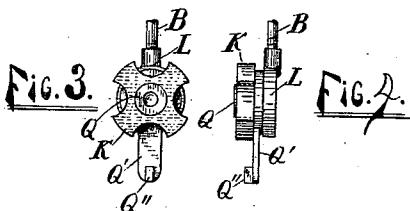


Fig. 3.

WITNESSES
J. D. Buchanan,
Julia E. Fince,

INVENTOR

Silas H. Raymond
BY
Marshall & Rogers,
ATTORNEYS

UNITED STATES PATENT OFFICE.

SILAS H. RAYMOND, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR TO WM. B. REMINGTON, ERASTUS J. HORTON, FRED. C. REMINGTON, S. STEWART WHITE, AND THOMAS TRIANT, ALL OF SAME PLACE.

CARPET-SWEEPER.

SPECIFICATION forming part of Letters Patent No. 473,438, dated April 19, 1892.

Application filed September 16, 1890. Serial No. 365,183. (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 5 which it appertains to make and use the same.

My invention relates to carpet-sweepers, and has for its object to produce improvements in the construction of these articles for increasing their utility; and it consists in the 15 construction, combination, and arrangement of the various parts hereinafter described, and fully pointed out in the claims, reference being had to the accompanying drawings, wherein—

20 Figure 1 is an end elevation of a device embodying my invention, with parts broken away to better show the construction; Fig. 2, a vertical longitudinal section on the line X X of Fig. 1, and Figs. 3 and 4, detail views in elevation of the bail end and its attached parts.

25 Like letters refer to like parts in all the figures.

A is the case, which is provided with partitions A' near each end, between which and 30 the end walls of the case are located the driving-wheels I, which rotate upon fixed journals I', located at proper distance from each other to permit the insertion between said driving-wheels of the solid friction-pulley O on the 35 brush-shaft O'. The brush-shaft is provided with journals or centers O'' at each end, which engage with suitable depressions in the brush-bearings Q, which are surrounded by flexible bushings K of elastic material having radial 40 arms inserted in suitable openings in the end walls of the case A. Said bearings Q are provided with cups at their outer ends, having suitable wood friction-disks P and pendent arms Q', provided at their lower ends with lugs Q'' to engage grooves N in the case A. The bail consists of a spring-steel rod B, having a kink or bend B' at its middle, to which 45 the handle-socket C is attached, which socket is made in two similar parts having lateral

arms C' C', suitably channeled to embrace 50 said rod B and secured to each other by rivets or bolts C''. At each end of said bail B is a suitable cap L, which incloses the cup upon Q, the rod B being so bent as to press inward at each end and exert a pressure upon the 55 various parts between. Dust-pans J are fixed upon each side of the brush for receiving the sweepings, which are removed through openings in the top closed by sliding lids E, arranged upon each side, provided with stops F 60 for limiting their outward movement and an elastic cord G for automatically closing the same. It will now be seen that by this arrangement of parts I secure a flexible bearing 65 for the brush-shaft, which is journaled substantially within the compass of the bail ends and under the immediate control of the operator, and that the brush has a vertical movement independent of the driving-wheels and case, whereby it may be protruded more or 70 less for increasing or diminishing its bearing upon the floor.

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

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1. In a carpet-sweeper and in combination with a suitable case mounted upon traction-wheels with fixed journals I', arranged upon each side of the brush-shaft, a brush-shaft having a pulley in contact with said traction-wheels, bearings for the brush-shaft attached to the bail ends and projecting through the end walls of the case, and elastic bushings K, surrounding the bearings, having radial arms, and arranged in said end walls of said case, 85 substantially as set forth.

2. In a carpet-sweeper and in combination with a case mounted upon traction-wheels with fixed journals I', a brush-shaft having a pulley in contact with said traction-wheels, 90 and journals O'' at each end engaging with brush-bearings, brush-bearings Q, connected to the bail ends, and elastic bushings K, surrounding the bearings and having radial arms arranged in end walls of the case, substantially as set forth.

3. In combination with a case provided with suitable driving-wheels journaled therein, a

brush-shaft having bearings Q, having downwardly-projecting portions Q' and lugs Q'', and a friction-disk P, and surrounded by an elastic bushing K, arranged in the end walls 5 of the case, and a bail B, having a cup-bearing L, engaging the bearing Q, substantially as and for the purposes set forth.

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

SILAS H. RAYMOND.

Witnesses:

DENNIS L. ROGERS,
LUTHER V. MOULTON.