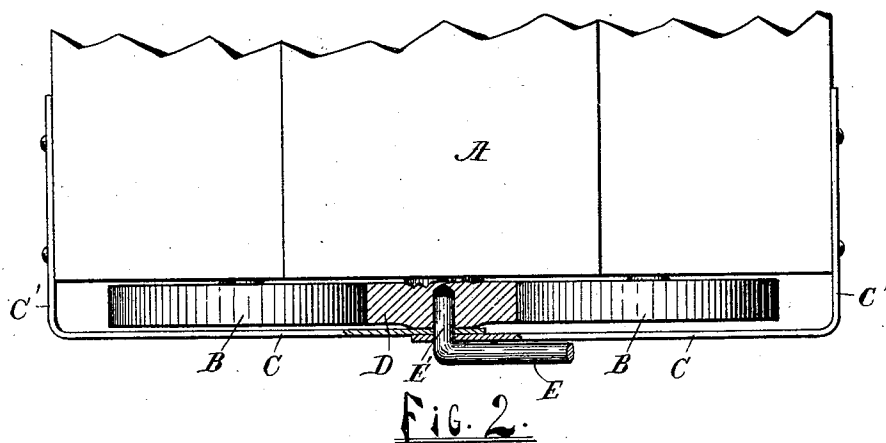
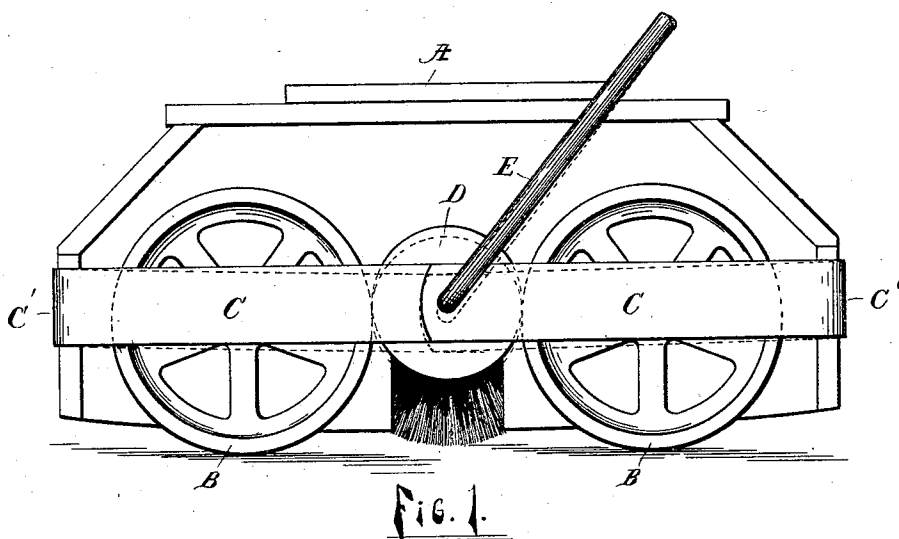


(No Model.)

S. H. RAYMOND.
CARPET SWEEPER.

No. 542,207.

Patented July 2, 1895.



Witnesses
Leura E. Glanders
Louis Moulton

Inventor
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By Attorney
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UNITED STATES PATENT OFFICE.

SILAS H. RAYMOND, OF GRAND RAPIDS, MICHIGAN, ASSIGNOR TO T. STEWART WHITE, THOMAS FRIANT, GAIUS W. PERKINS, AND CHARLES J. REED, OF SAME PLACE.

CARPET-SWEEPER.

SPECIFICATION forming part of Letters Patent No. 542,207, dated July 2, 1895.

Application filed October 29, 1894. Serial No. 527,240. (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 novel means whereby the brush will be lowered by pressure upon the bail, and also to simplify and cheapen the construction, reference being had to the accompanying drawings, in which—

Figure 1 is an end elevation of a device embodying my invention, and Fig. 2 a plan view of one end of the same with parts in horizontal section to show the construction.

Like letters refer to like parts in both of the figures.

A represents the case, of the usual construction, and provided with driving and supporting wheels B, which wheels engage the brush-pulley D and rotate the same.

C is a guard-bar made of a strip of flexible metal, arranged with the width in a vertical plane and extending parallel with the end of the case and outside the wheels B and pulley D. Said guard-bar is divided and overlapped at the middle, and perforated through the overlapping part to receive the inwardly-turned end E' of the bail E, which end thus pivotally connects the overlapping ends of said guard-bar. Said inwardly-turned end E' also projects within an axial opening in the brush-shaft and serves as a journal for said shaft. The inwardly-extended parts C' of the guard-bar are firmly secured to the case, and the portions of the same opposite the wheels B are free to twist as the jointed middle part of the said guard-bar descends, thus providing a vertically-flexible guard-bar, to which the bail and brush-shaft are attached and which supports the same. The guard-bar

thus serves the usual purpose of such bars, and also as a yielding support for both the bail and brush-shaft, whereby downward pressure on the bail lowers the brush into closer contact with the floor or carpet. The inwardly-turned end of the bail, while serving the usual purpose of pivoting the bail to the sweeper, also serves to pivotally connect the overlapping parts of the guard-bar, and also as a journal for the brush-shaft.

I thus secure an extremely simple structure, which operates quite as well as the previous more complicated and expensive devices.

What I claim is—

1. In a carpet sweeper, in combination with a case having driving and supporting wheels, and a brush shaft having pulleys engaging said wheels, vertically flexible guard bars supporting said brush shaft, and a bail attached to said bars, substantially as described.

2. In a carpet sweeper, in combination with a case having driving and supporting wheels, and a brush shaft having pulleys engaging said wheels, guard bars secured to said case at their ends and projecting outward from said case, said bars also having overlapping and pivoted portions near the middle, journals for said brush shaft and a bail attached to and supported by said bars, substantially as described.

3. In a carpet sweeper, guard bars attached at their respective ends to the sweeper case, and having divided and overlapping middle portions, a bail having inwardly projecting ends, passing through said middle portions, a brush shaft journaled on the said inwardly projecting ends of said bail, and means for rotating said brush shaft, substantially as described.

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

SILAS H. RAYMOND.

Witnesses:

LEWIS E. FLANDERS,
LUTHER V. MOULTON.