

(No Model.)

S. H. RAYMOND.  
CARPET SWEEPER.

No. 503,679.

Patented Aug. 22, 1893.

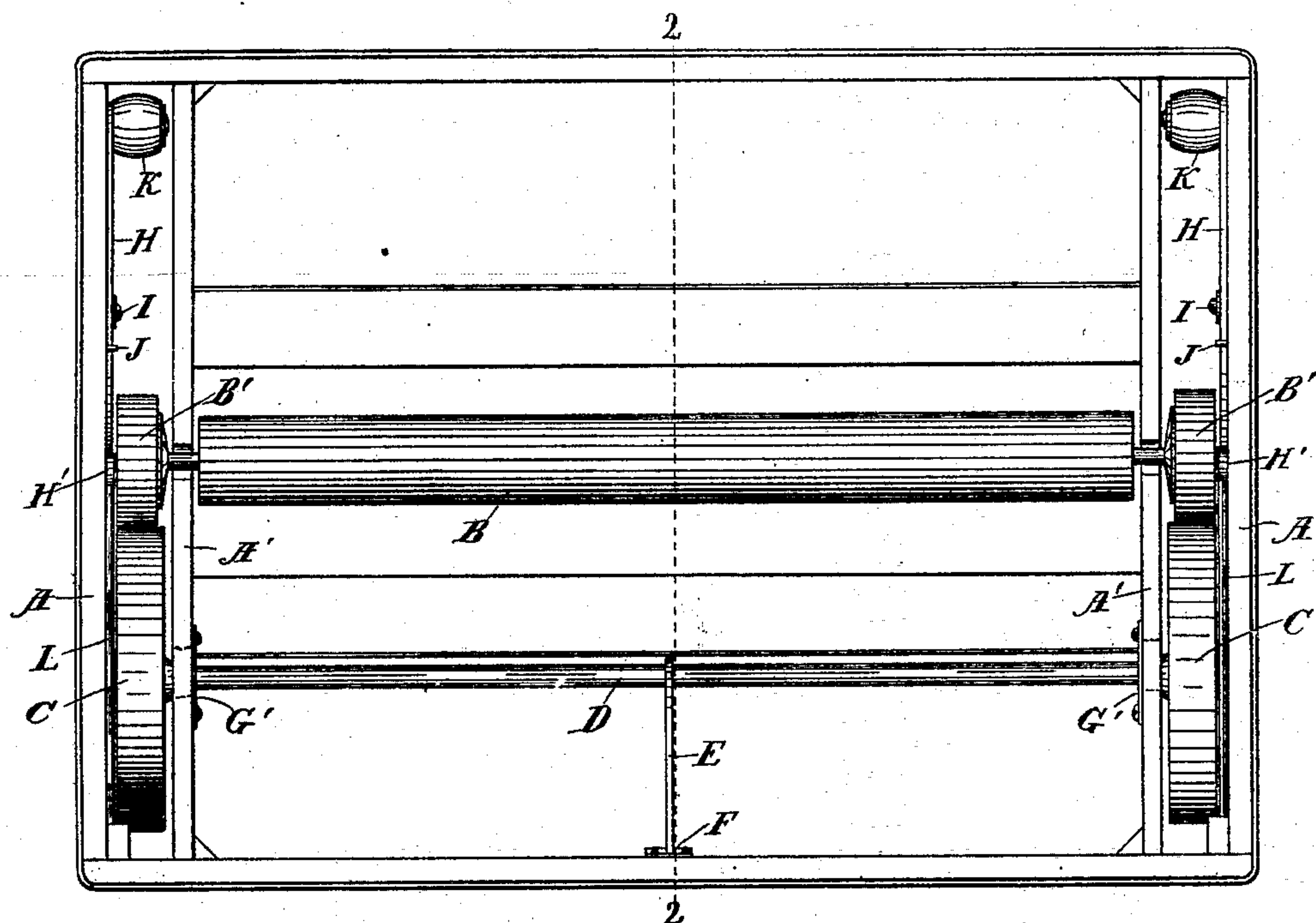


Fig. 1.

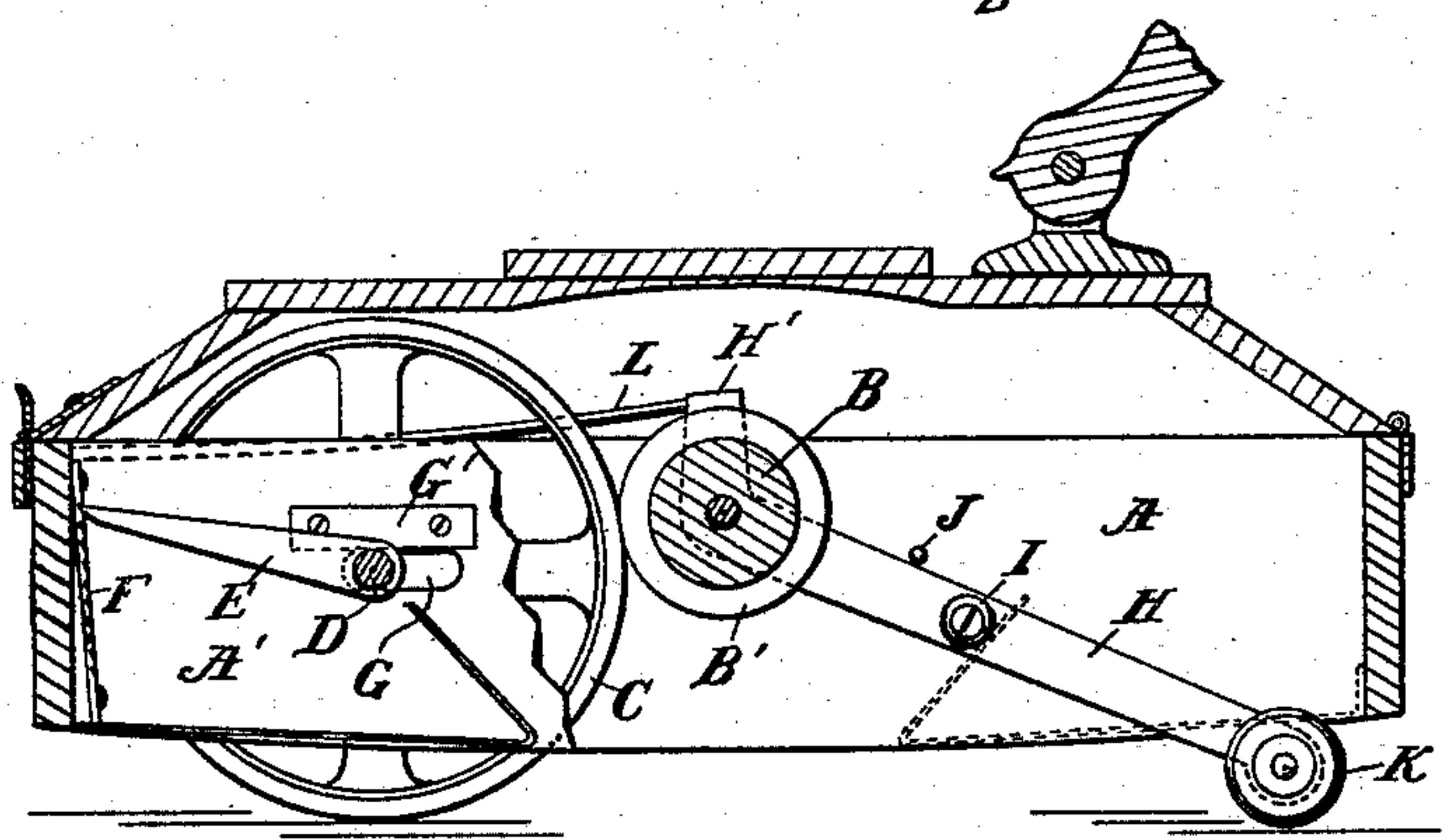


Fig. 2.

WITNESSES:

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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. 503,679, dated August 22, 1893.

Application filed May 3, 1893. Serial No. 472,839. (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 new and useful features, hereinafter more fully described and particularly pointed out in the claims, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view of a carpet sweeper embodying my invention, with the upper part of the case removed; and, Fig. 2 a vertical section of the same entire on the line 2—2 of Fig. 1.

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

A represents the outer end walls of the case, and A' the inner walls of the same.

B is the brush shaft, having pulleys B' at each end, and journaled in the upper end of inclined levers H, which levers are pivoted near the middle to the inner surfaces of the outer walls A at I, and provided at their lower ends with rolls K, which traverse the floor and support the rear side of the case.

Upon the upper ends of the levers H are upwardly projecting arms H' to which are attached springs L, which afford yielding resistance to the downward movement of the upper end of the said levers.

J, J, are stop pins engaging and limiting the upward movement of said lever and C are the drive wheels, which support the forward side of the case, and engage the pulleys B'; said drive wheels are journaled on the respective ends of a flexible rod D, which rod passes through horizontal slots G in the inner walls A', and is movable therein. Metal plates G' are secured to said walls and engage the rods to prevent wear of the upper side of the openings G. A brace E engages the rod D near the middle and extends to and

engages an inclined ratchet F, which ratchet approaches said rod D at its lower end. By adjusting the brace in this ratchet, the rod D will be pressed toward the brush shaft more or less thereby. Downward pressure on the bail will force the lower ends of the levers H upward, and thus lower the upper ends of the same, together with the brush shaft. This movement diagonally lowers the brush, thus bringing it closer to the carpet, and also further deflecting the rod D, thus also increasing the frictional contact between the drive wheels and brush shaft pulleys. At the same time the case is lowered at the side supported by the said levers, thus bringing the pans closer to the carpet, in a less degree than the brush.

What I claim is--

1. In a carpet sweeper in combination with a brush shaft, having a pulley attached, a lever supporting the journal of said brush shaft at one end, and engaging the floor at the other end, and intermediately pivoted to the case, and a drive wheel journaled on a yielding bearing, and engaging said pulley, substantially as described.

2. In a carpet sweeper a lever pivoted to the case, and engaging the floor at one side of said pivot, and supporting one side of the case, a brush shaft having a pulley attached and journaled in said lever at the other side of said pivot, a drive wheel supporting the other side of said case, said wheel also being journaled on yielding bearings and engaging said pulley, and a spring connected to said lever, substantially as described.

3. In a carpet sweeper, in combination with a case having slotted openings, and flexible rods, horizontally movable in said openings, and drive wheels journaled on said rod; a brace engaging said rod near the middle, and an inclined ratchet engaged by said brace, whereby the deflection of said rod by said brace may be adjusted, substantially as described.

4. In a carpet sweeper, levers pivoted near their middle to the case, rolls journaled on one end of said levers to engage the carpet, a brush shaft journaled in the other end of said levers, springs attached to said levers, pul-

leys on said brush shaft, drive wheels en-  
gaging said pulleys, slotted openings in the  
case, a rod having said drive wheels journaled  
thereon, and horizontally movable in said  
5 openings, a brace engaging said rod, and an  
inclined ratchet engaged by said brace, sub-  
stantially as described.

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

SILAS H. RAYMOND.

Witnesses:

LUTHER V. MOULTON,  
LOIS MOULTON.