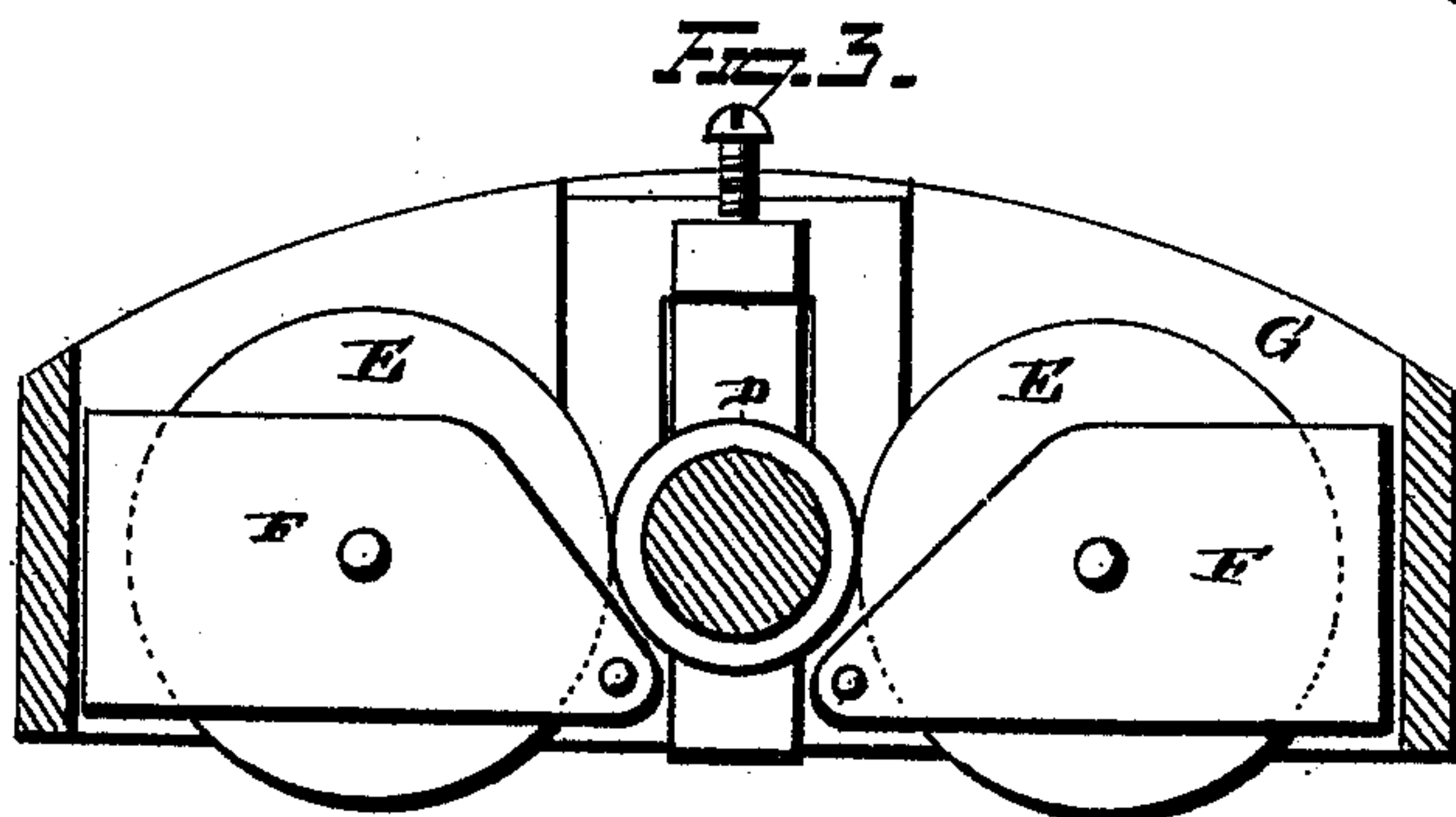
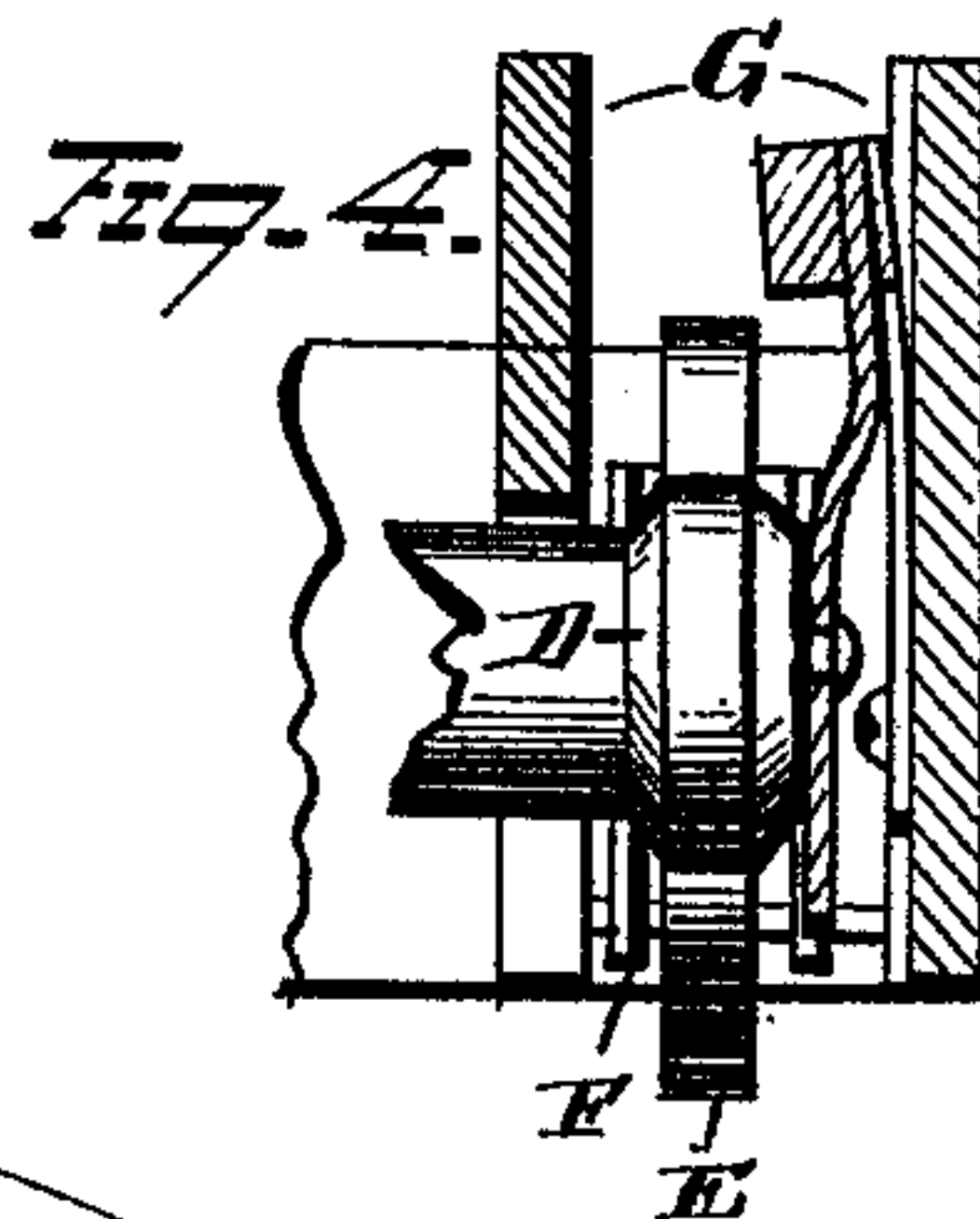
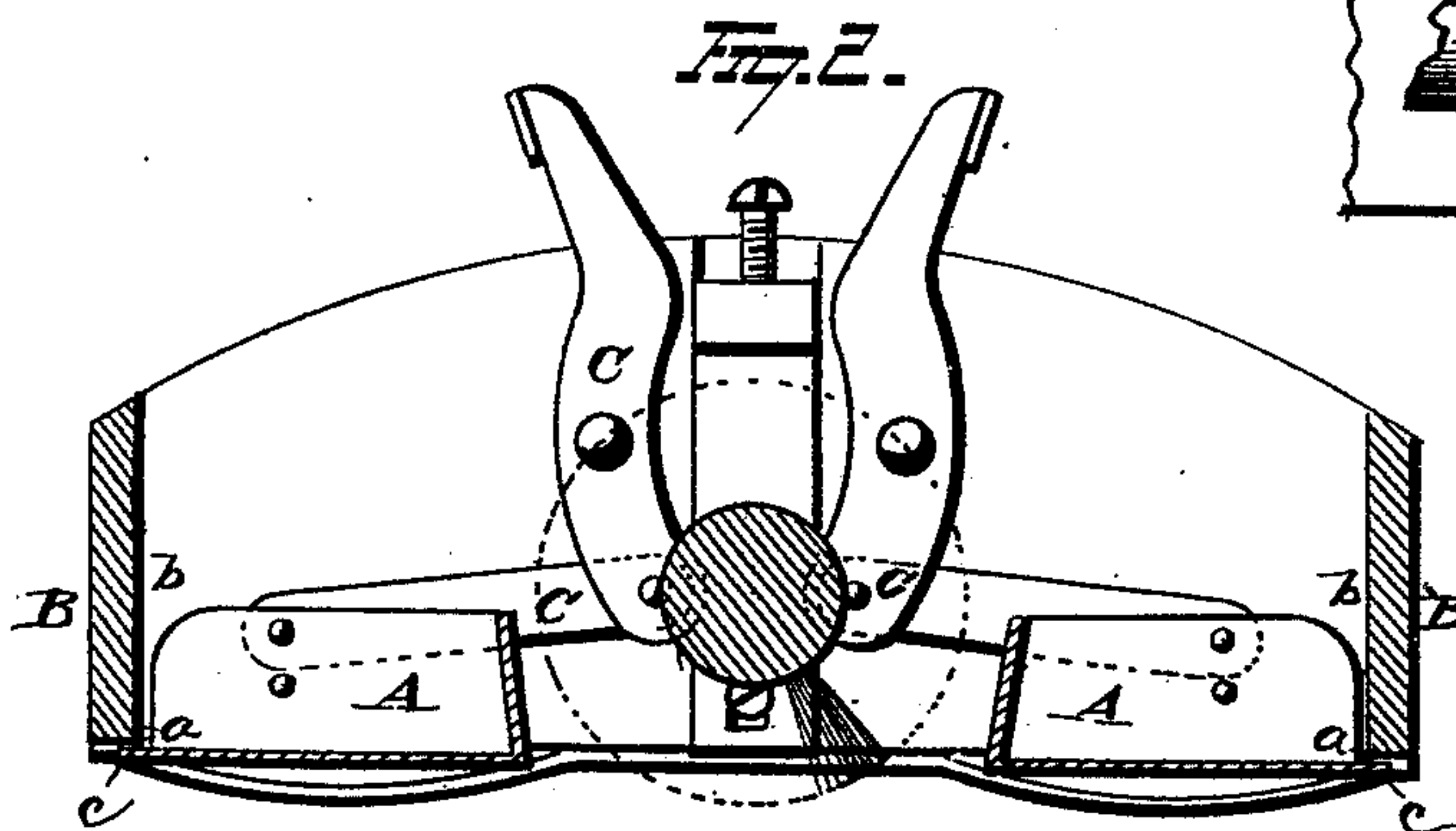
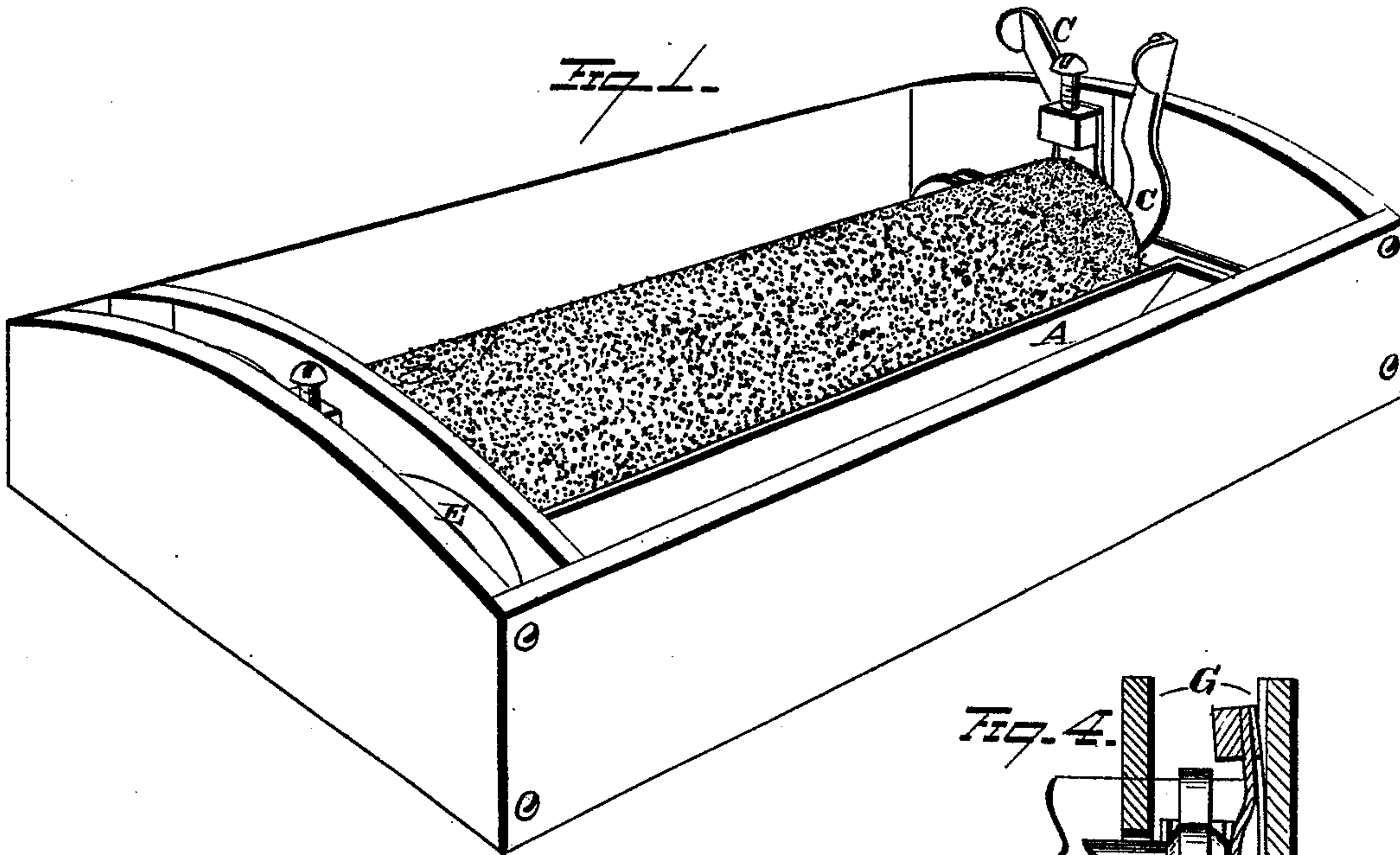


H. S. WING.
Carpet-Sweeper.

No. 221,760.

Patented Nov. 18, 1879.



WITNESSES
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HENRY S. WING, OF GRAND RAPIDS, MICHIGAN.

IMPROVEMENT IN CARPET-SWEEPERS.

Specification forming part of Letters Patent No. **221,760**, dated November 18, 1879; application filed July 8, 1879.

To all whom it may concern:

Be it known that I, HENRY S. WING, of 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, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

My invention relates to carpet-sweepers, and is designed to provide certain improvements therein, which will make a sweeper more efficient in answering the several purposes required of it.

Referring to the drawings, Figure 1 is a view, in perspective, of the sweeper with the top removed. Fig. 2 is a view, in cross-section, thereof, with the brush-bristles broken away for better view. Fig. 3 is a sectional view taken longitudinally through the end compartment. Fig. 4 is a view, in cross-section, through said compartment.

Each dust-pan A is hung with reference to its longitudinal center of gravity, so as to automatically return to its former horizontal position after being tilted. The outer longitudinal sides of the two pans are respectively made open, as shown at *a*, so that as soon as said pans are tilted their contents may be readily emptied. The corresponding sides *b* of the dust-chamber B are adapted to prevent the contents of the pans from escaping while the latter are in horizontal operative position. The edges *c* of the pans are extended to project beneath and bear against the under surface of said chamber-sides, thereby serving the double purpose of stops to maintain the pans in horizontal position, and making joints with the chamber-sides, so as to keep the dust from unduly escaping from the pans.

The loosely-jointed trip-levers C have their horizontal arms respectively pivoted to the dust-pans, while their vertical arms are pivoted to the chamber end, and are relatively located so that by a single hand-movement they may be pressed toward each other. This

adapts both dust-pans to be emptied outwardly from the dust-chamber, and to be simultaneously operated.

Any suitable handles may be formed on the free extremities of the vertical arms of the levers, as the same project upwardly to be in position to be readily manipulated.

The brush-shaft D, together with its bearings, may be of any desired form; but I prefer the construction here shown.

The friction-wheels E are journaled in bearing-frames F, the latter having their inner extremities respectively pivoted in a horizontal plane below the axes of said wheels within the end compartment, G. This causes the wheels to be maintained in contact with the friction-roller D of the brush-shaft solely by the weight of the machine, and springs are not required therefor.

By pressing down on the handle with which the sweeper will be provided said wheels may be caused to bear with a degree of force upon the friction-roller corresponding to the power with which the brush-shaft is to be operated.

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

1. In a carpet-sweeper, the combination, with a dust-pan, pivoted at one side of its longitudinal center to the casing or chamber, of a jointed trip-lever, one arm of which is pivoted to the end of the dust-pan at one side of its longitudinal center, and the other arm thereof pivoted to the casing or chamber, substantially as set forth.

2. In a carpet-sweeper, the combination, with a revolving brush and dust-pans located on opposite sides thereof, each of said dust-pans being pivoted at one side of its longitudinal center to the casing or chamber, of jointed trip-levers, the lower arms of which are pivoted to the ends of the dust-pans, while their upper arms extend upwardly above the chamber or casing and in close proximity to each other, to enable both pans to be emptied simultaneously by forcing the upper and free ends of the trip-lever toward one another by the thumb and fingers of the hand, substantially as set forth.

3. In a carpet-sweeper, the combination,

with a revolving brush and casing, of a dust-pan, pivoted at each end at points outside of its longitudinal center to the casing, said dust-pan provided with one side piece and two end pieces, and its bottom formed to extend beneath the side of the chamber or casing, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 30th day of June, 1879.

HENRY S. WING.

Witnesses:

F. E. NICKERSON,
JUDD G. STEARNS.