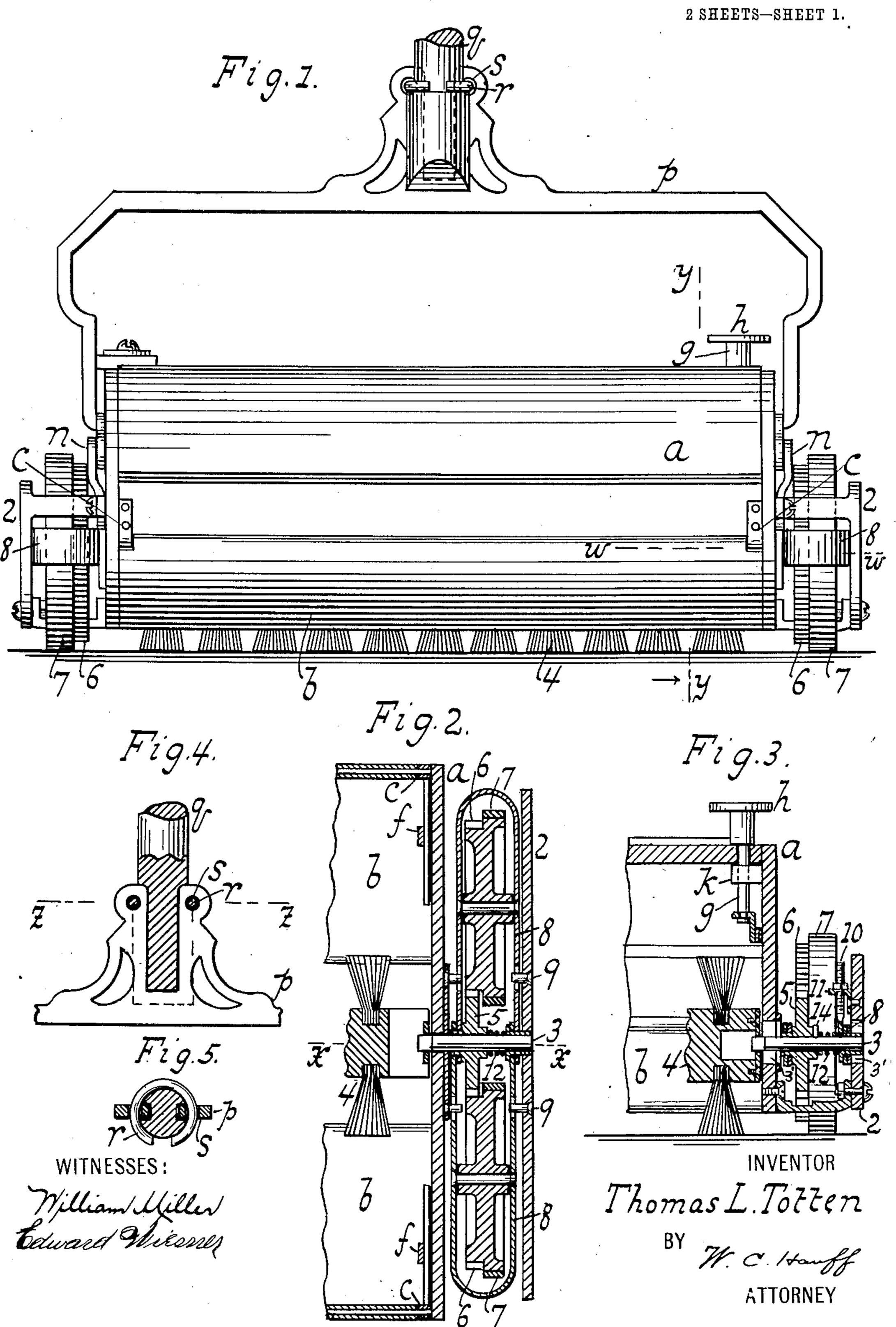
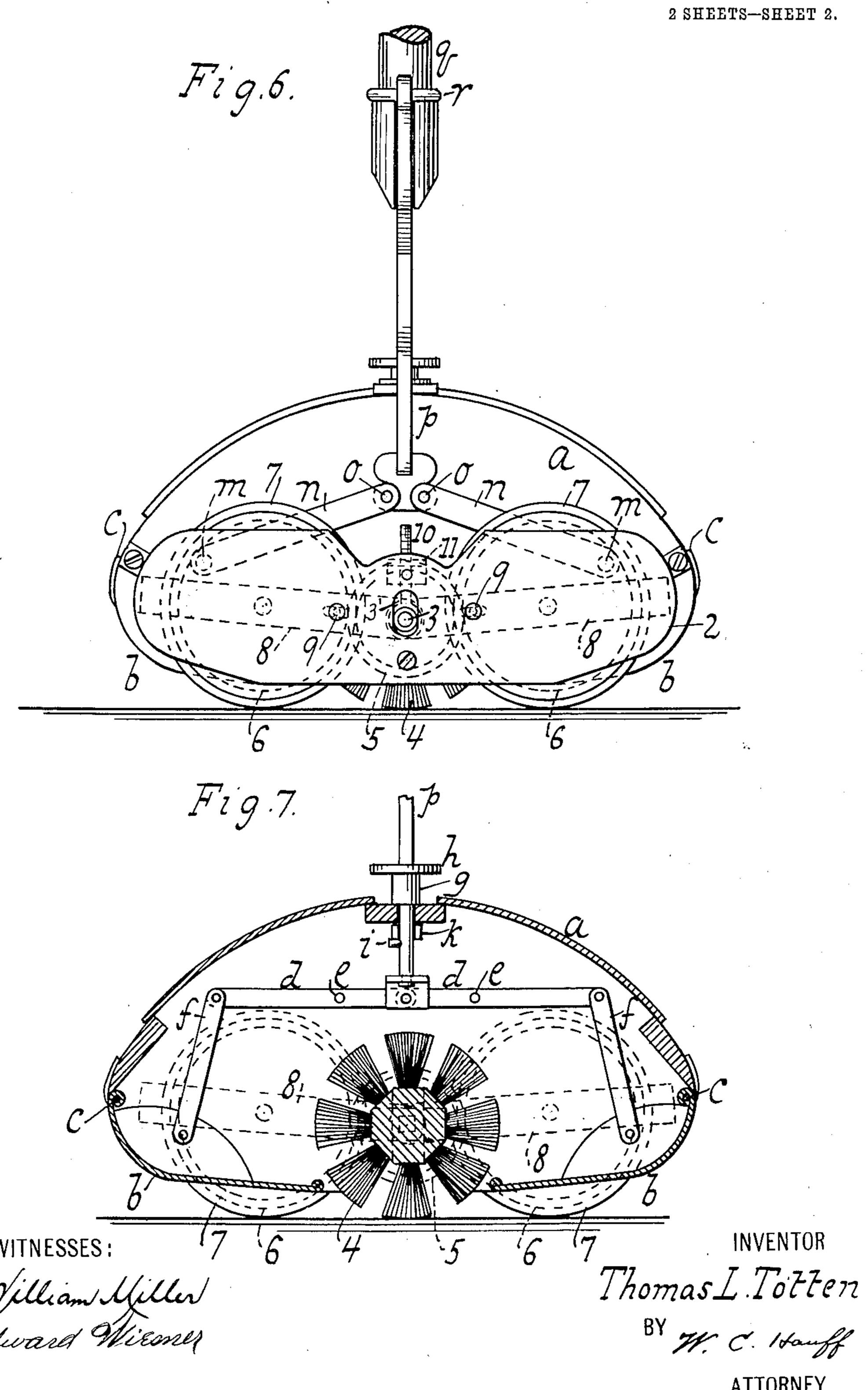
T. L. TOTTEN.

CARPET SWEEPER.

APPLICATION FILED JAN. 31, 1907.



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UNITED STATES PATENT OFFICE.

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CARPET-SWEEPER.

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Specification of Letters Patent.

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To all whom it may concern:

the following is a specification.

is a section along the line ww Fig. 1. Fig. 3 stick can be withdrawn.

The levers are of the first class order and connected at their inner ends to a stem g having 33 a handle or finger button h by which the stem g can be rotated and moved lengthwise. The stem g has a rotative connection with the levers, and is provided with a pin or projection i which passes beneath a shoulder k 35 on the end of the casing when the stem is depressed and rotated.

If the handle or stem is pushed in and its locking stud or projection i turned to engage shoulder or lock part k the bottom sections b40 by means of links f and levers d fulcrumed at e will be raised to closing position. If the stem g is turned or released from shoulder k and its stud i moved along or through releasing part shown at the shoulder the levers 45 d are swung to dump or open the bottom so that the collected dust will discharge.

As the bottom sections are hinged at their outer edges they open so as to incline inward outward but converged toward a central gudgeons to sink and carry the brush to the point or line to be kept together. Scatter- carpet or floor. ing being avoided the device aids in main- An adjuster or screw stem 10 with nut 11 taining cleanliness.

ing indicated at m are pivoted links n which | geons 3.

! at their inner ends are separately pivoted at Be it known that I, Thomas L. Totten, | o to the ends or engaging parts of a bail p. a citizen of the United States, residing at This link connection has sufficient play or Brooklyn, in the county of Kings and State looseness at its pivot points m o so that it 60 of New York, have invented new and useful; allows the handle or stick q to be brought to Improvements in Carpet-Sweepers, of which any convenient tilt for directing the device

This invention relates to a carpet sweeper | The bail p has a suitable prong or fork porwhich can be made practically dust proof tion and the stick q is grooved and on a $_{65}$ 10 and which also possesses other features and shoulder of the stick sits the rotatable split the invention resides in the features of con-| ring r. When the stick has been passed struction set forth in the following specifi-, into place on the bail or fork the ring \hat{r} is rocation and claim and illustrated in the an- tated to engage into the eye parts s of the nexed drawing, in which: bail (Figs. 4 and 5) to lock the parts together. 70 Figure 1 is a front elevation of a carpet By rotating the ring to enable its split part sweeper embodying this invention. Fig. 2 to successively clear the fork branches the

is a section along the line x x Fig. 2. Fig. 4 | To the casing a is fixed a plate 2. This is a front view of the handle of Fig. 1 partly | plate 2 is cast or provided with arms by 75 20 in section. Fig. 5 is a section along line zz which the plate is attached to the side of the Fig. 4. Fig. 6 is an end elevation of the casing. This plate 2 is thus supported by its sweeper. Fig. 7 is a section along y y Fig. 1. Farms at a certain distance from the casing so In this drawing is shown a casing a with | as to leave room in which to place the arms 8 bottom sections b hinged thereto at c.c. The supporting wheels 7. This plate with the 80 25 casing has fixed fulcrum points e to each of adjacent wall of the casing is slotted at 3' to which is fulcrumed a lever d, to each of which | form a loose bearing at each side for the levers a bottom section is linked as seen at f. gudgeons 3 to not only turn but also have play or movement up and down. As these gudgeons carry the brush or rotary broom 4 85 such broom can come to the floor as presently seen.

Each gudgeon is keyed to the hollow shaft of a gear 5 which engages the gear part or rings 6 of wheels 7. These wheels 7 have 90 rubber or like tires to get a grip on the surface over which they run. Said wheels 7 have their axles mounted on carriers or swinging arms 8 pivotally mounted on the gudgeons 3. These arms 8 have a loose 95 pivot or fulcrum connection with the plates 2 formed by pin and slot connections, the pins being shown at 9. These arms 8 as seen in Fig. 2 are of U-shape so as to extend on both sides of wheels 7 and said arms as 100 seen in Fig. 2 support both ends of the axle of each of said wheels. These arms are pivoted on gudgeons 3.

When the device is set on the floor or caror toward the center part of the casing and | pet the wheels 7 touch the ground and the 105 50 the contents or sweepings will not be thrown | arms 8 swing about fulcrum 9 to allow the

arrested by a shoulder or eye on plate 2 can 110 At two fixed points at each side of the cas- | be made to limit the swing or drop of gudOn running the device along the rotating wheels 7 by gears 6 and 5 rotate the gudgeons with the brush 4 to give a positive motion.

The gudgeons 3 feather in the hollow hubs of gears 5 and when the gudgeons are held back against the action or pressure of springs 12 the brush can be withdrawn or replaced.

As the casing has practically no opening except the small slots 3' allowing play of the gudgeons 3 no dust can escape. The slots through which the gudgeons 3 pass do not extend through the bottom edge of the end walls of the case, but as seen in Fig. 6, such slot is of limited extent. In practice, it has been found that such slots need not be more than three-quarters of an inch in length by three-eighths of an inch in width. Practi-

cally no dust can escape from the casing through such small apertures.

The gudgeons 3 can be retracted against the action of spring 12 by a pin or peg 14 (Fig. 3) which forms a finger piece and which peg also engaging a slot in the hub of gear 5 forms a feather connection. When said gudgeons are released the spring 12 forces these gudgeons back to engaging position.

Now what I claim is:

1. In a carpet sweeper, a bail having parallel uprights provided with eyes, a handle provided with oppositely arranged grooves in its lower end and a shoulder near its lower extremity, said uprights adapted to fit in said grooves and said shoulder being located below and adjacent to said eyes, and a locking ring adapted to pass through said eyes and engage said shoulder.

2. A carpet sweeper comprising a casing provided with vertically elongated bearings, gudgeons adapted to turn and play in said bearings, carriers swinging on the gudgeons

and wheels on the carriers geared to the gudgeons, said gudgeons being spring pressed or yielding to releasably engage a brush.

3. A carpet sweeper comprising a casing 45 having its sides provided with bearing slots of limited extent so as not to pass through the bottom edges of said casing, a rotary brush in said casing, gudgeons connected with the brush and extending outside the 50 casing and adapted to turn and play in said bearing slots, carriers swinging on the gudgeons and wheels on the carriers geared to the gudgeons, said carriers and wheels all being outside of and free or clear from the casing 55 so as to leave the side wall of the casing unbroken except at said bearing slots.

4. A carpet sweeper comprising a casing provided with bearing plates, said casing and plates having vertical bearing slots, a rotary 60 brush in said casing, gudgeons guided in the slots and detachably engaging the brush, and springs yieldingly holding said gudgeons in

engagement with the brush.

5. A carpet sweeper comprising a casing 65 provided with bearing plates, said casing and plates having vertical bearing slots; a rotary brush in said casing, gudgeons guided in the slots and detachably engaging the brush, traction wheels geared to the gudgeons, 70 threaded stems connected with the gudgeons, eyes on said plates through which the stems loosely pass, and nuts adjustable on the stems to limit the downward movement of the gudgeons and brush.

In testimony whereof I have hereunto set my hand in the presence of two subscribing

witnesses.

THOMAS L. TOTTEN.

Witnesses:

EDWARD WIESNER, CHRISTIAN ALMSTEAD.