

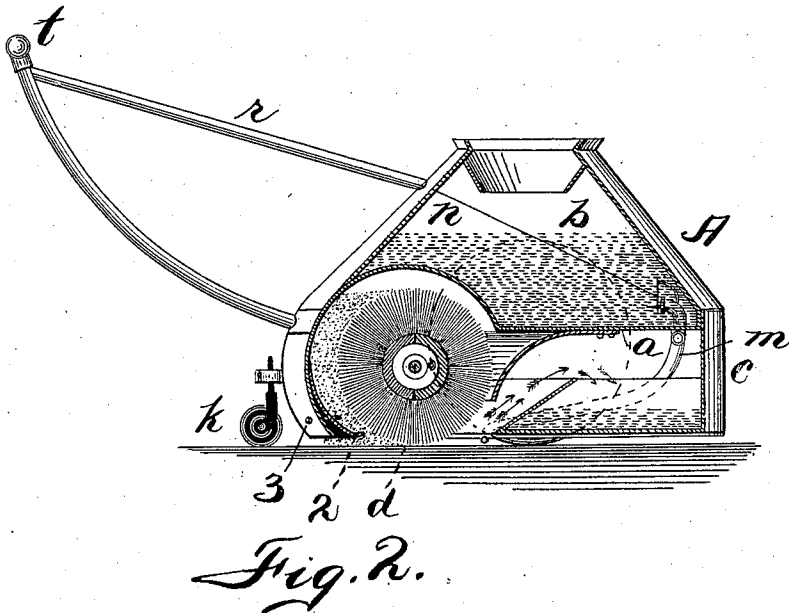
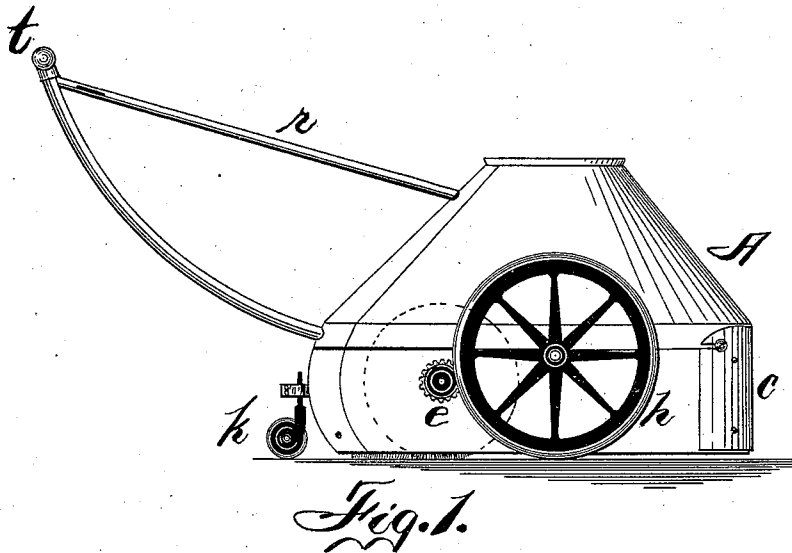
(No Model.)

3 Sheets—Sheet 1.

J. S. HITCHCOCK.
SCRUBBING MACHINE.

No. 574,355.

Patented Dec. 29, 1896.



WITNESSES:

Charles H. Marvin
Maudie E. Cooke

INVENTOR
John S. Hitchcock.

BY

Smith & Armeson
ATTORNEYS.

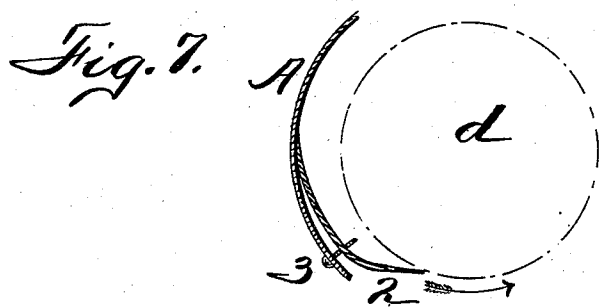
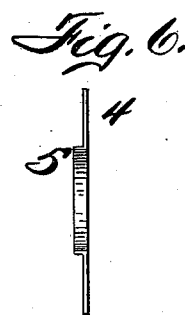
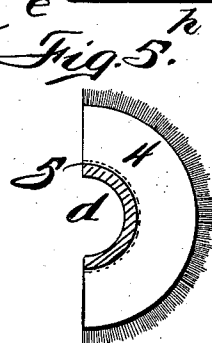
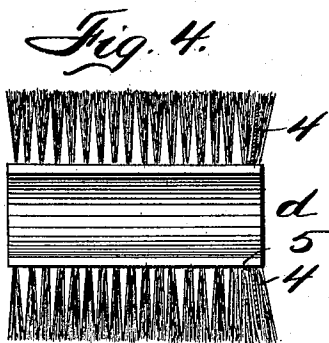
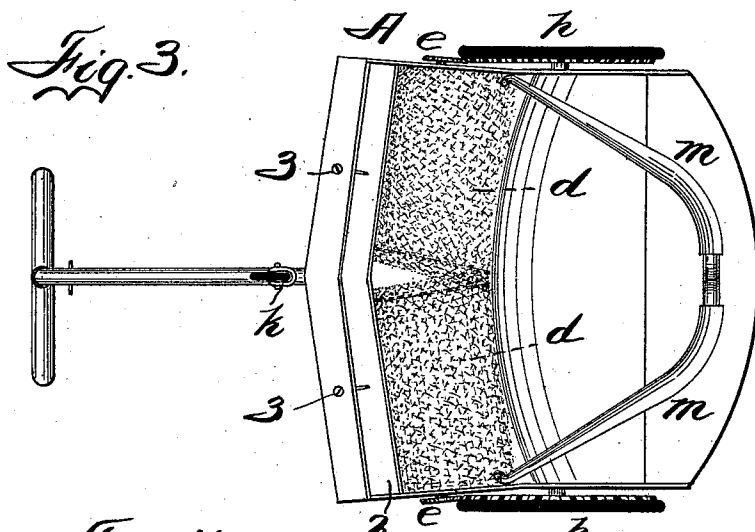
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3 Sheets—Sheet 2.

J. S. HITCHCOCK.
SCRUBBING MACHINE.

No. 574,355.

Patented Dec. 29, 1896.



WITNESSES:

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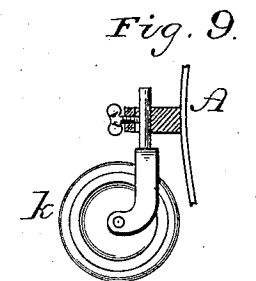
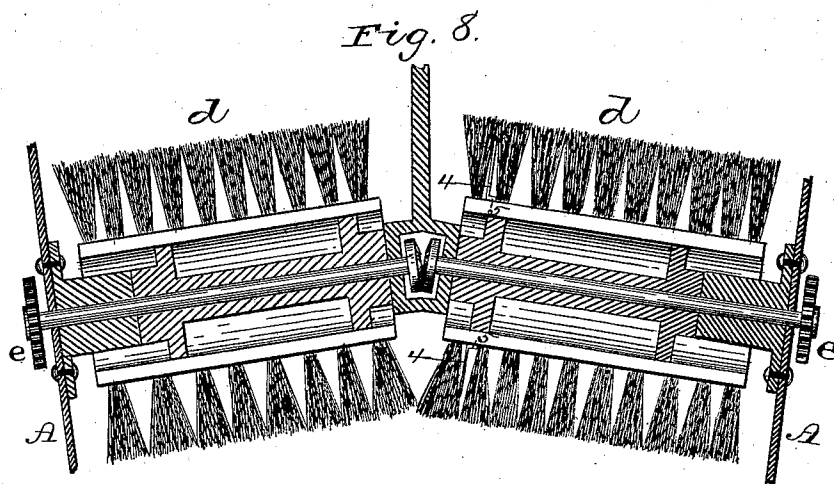
(No Model.)

3 Sheets—Sheet 3.

J. S. HITCHCOCK.
SCRUBBING MACHINE.

No. 574,355.

Patented Dec. 29, 1896.



WITNESSES:

Charles N. Marvin
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UNITED STATES PATENT OFFICE.

JOHN S. HITCHCOCK, OF SYRACUSE, NEW YORK.

SCRUBBING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 574,355, dated December 29, 1896.

Application filed February 14, 1896. Serial No. 579,209. (No model.)

To all whom it may concern:

Be it known that I, JOHN S. HITCHCOCK, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Scrubbing-Machines, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

My invention relates to scrubbing-machines and sweepers.

My object is to provide the machine with a drip-catcher which will catch all of the dirt and water and dust which are thrown centrifugally from the brush against the rear wall and conduct them to the brush again, thereby preventing them from falling onto the floor and leaving a streak of dirt or water, or both, behind the machine, said drip-catcher being adjustable, so that it can be set according to the wear upon the brush.

Another object is to provide adjacent brushes with means whereby the bristles upon their meeting ends are held out so that they will always engage with each other and preventing them from spreading so as to create a sufficient opening or crack to leave a streak of dirt or water, or both.

It is constructed as follows, reference being had to the accompanying drawings, in which—
Figure 1 is a side elevation of the machine complete. Fig. 2 is a vertical section of it. Fig. 3 is the bottom plan of it with the pan removed. Fig. 4 is an elevation of one section of a sectional brush. Fig. 5 is a transverse sectional elevation of a brush-section, showing the bristle-holder in elevation. Fig. 6 is a side elevation of a bristle-holder detached. Fig. 7 is a sectional enlarged detail of the drip-catcher. Fig. 8 is a horizontal section taken through the brushes. Fig. 9 is a detail showing the adjustment of the caster-wheel.

The main features of this machine are the same as those shown and described in detail in my application filed July 25, 1895, Serial No. 556,569, and they are therefore only generally described herein, the specific description being confined to the novel features above outlined—viz., the drip-catcher and the bristle-holder.

A is a suitable casing provided with a hori-

zontal partition *a*, creating a water-chamber *b*, and *c* is the pan to catch the dirt and water.

The brushes *d* are mounted in any suitable manner and set at an angle to each other, as, for instance, as shown and described in said application, so as to crowd together the bristles in front of their meeting ends, and are driven by means of the pinions *e* upon their shafts, which are driven by the gear upon the supporting-wheels *h*, and a caster-wheel *k* is adjustably mounted in any suitable manner upon the rear of the casing, so as to adjust the brushes to the floor.

The pipe *m* is connected to the water-tank and conducts water therefrom to the front of the brushes, a suitable shut-off valve being provided, which is operated by a cord or wire *n*, extending through the brace *r* to a point adjacent to the handle *t* for convenience of operation.

Upon the inner face of the rear wall of the casing one edge of a suitable strip 2 of suitable material is secured, curved substantially as shown, and having its free edge projecting forward to the bristles of the brush and adjustable with reference thereto by means of the screws 3, so that all of the dirt or water, or both, which is centrifugally thrown from the brushes onto said rear wall, will fall, run, or slide down over it and over the drip-catching strip and will be caught or sucked off from the latter by the brushes and carried around to be thrown into the pan and preventing it from falling or running down onto the floor behind the brushes. The brushes are shown as consisting of sectional bodies, the same as in the said application, in which the bristles are mounted, except that the disks 4, provided with suitably concaved and flanged inner edge 5, are secured upon each brush-section between two rows of bristles adjacent to its inner end in such manner as these disks will bear against the bristles and hold them out, so that they will always crowd together at the floor as the brushes revolve, and cannot spread apart, so as to create a crack or opening between them to leave a streak of dirt or dirty water upon the floor behind the machine.

Experience and experiment have shown that unless held out in proper place the bris-

bles, when the machine is used, will spring or bend or be forced in, so as to create such an opening at the floor.

The drip-catcher can be used upon sweepers, as also the bristle-holders.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a scrubbing-machine the combination with the casing and the brushes, of an inclined plate attached to one edge to the casing, and means for adjusting the other edge with reference to said brushes, whereby they will pick up therefrom the moisture which collects upon said edge.

2. In a scrubbing-machine a casing having brushes mounted therein and driven at an angle to each other, the combination with each brush of a flat disk secured upon its body interior to the inner row of bristles around it, and engaging with said bristles to hold them in position to properly engage with those of the adjoining brush.

In witness whereof I have hereunto set my hand this 6th day of February, 1896.

JOHN S. HITCHCOCK.

In presence of—

C. W. SMITH,

HOWARD P. DENISON.