

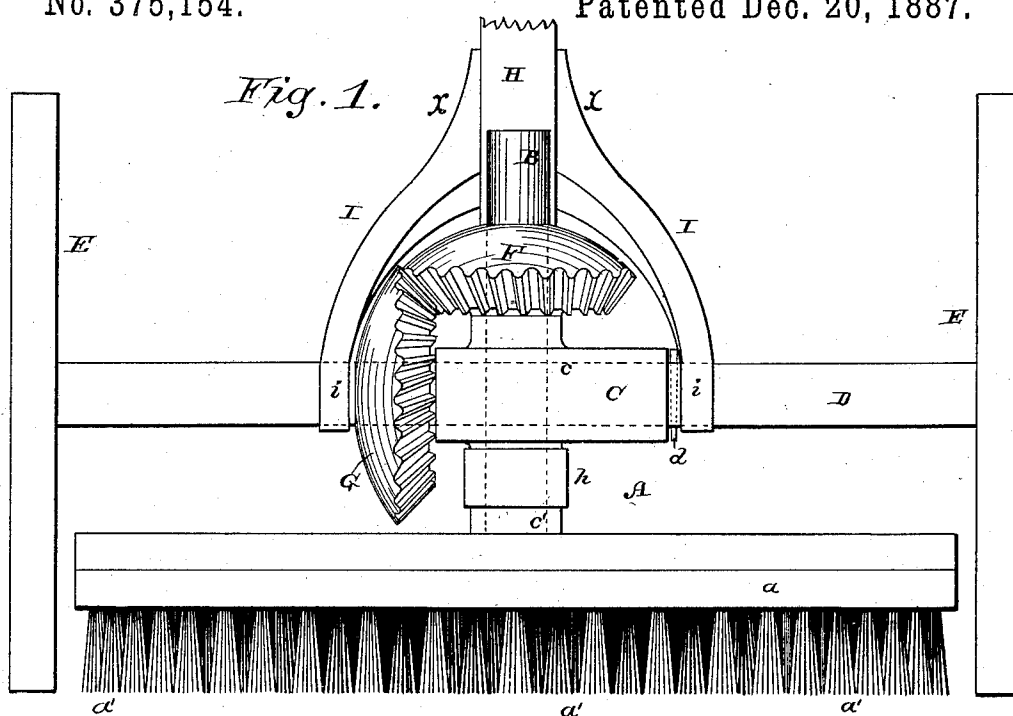
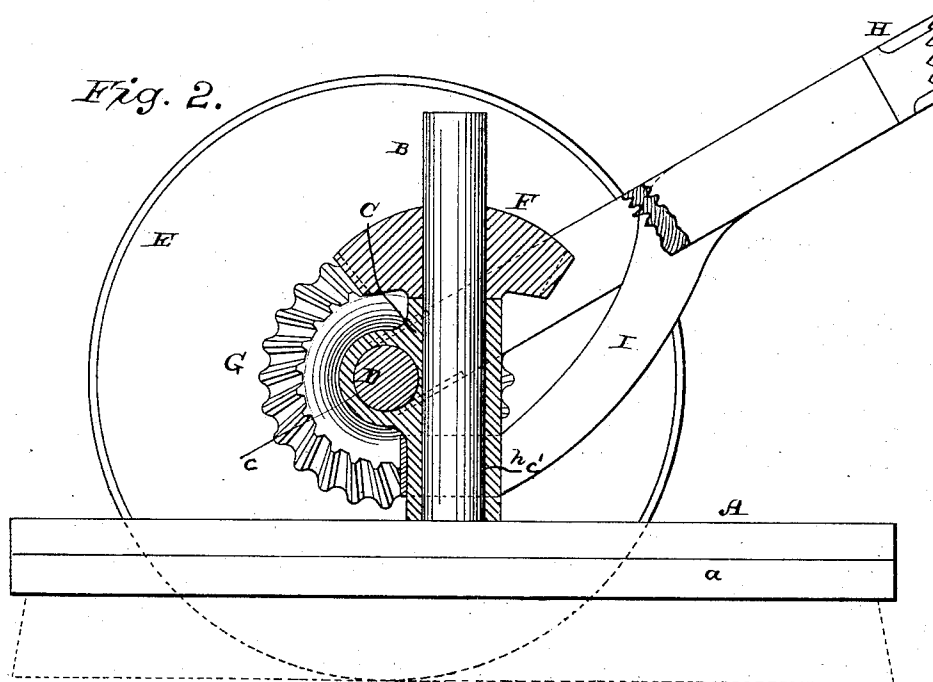
(No Model.)

R. B. HAWKINS.

ROTARY BRUSHING MACHINE.

No. 375,154.

Patented Dec. 20, 1887.



WITNESSES

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INVENTOR

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UNITED STATES PATENT OFFICE.

ROBERT B. HAWKINS, OF MARTINDALE, ASSIGNOR OF ONE-HALF TO THOMAS
J. WHITE, OF SAN MARCOS, TEXAS.

ROTARY BRUSHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 375,154, dated December 20, 1887.

Application filed June 11, 1887. Serial No. 241,050. (No model.)

To all whom it may concern:

Be it known that I, ROBERT B. HAWKINS, of Martindale, Caldwell county, Texas, have invented certain new and useful Improvements in Rotary Brushing-Machines, of which the following is a specification.

My invention is especially designed for scrubbing or scouring.

It consists in certain improvements on that class of brushing-machines in which a circular brush is rotated horizontally by gearing from the carrying-wheels.

My object is to simplify the construction of this class of machines and make them more compact, strong, and durable, more efficient, and less expensive.

In the accompanying drawings, Figure 1 is a front view of my improved machine, and Fig. 2 a side view partly in section.

The brush A is formed of a stout circular block, *a*, and stiff tough bristles *a'*, suitable for scouring. A stud, axle, or pivot, B, projects upward centrally from the brush-block and has its bearing in a casting, C, which also forms the bearing of the axle D of the carrying-wheels E. The wheels are preferably of metal with rubber tires, as this construction enables the wheels to take a firm hold without danger of slipping, and lessens materially the noise usually caused by rolling the machine along the floor.

The journal-boxes *c c'* of the casting C are arranged at right angles to each other, the main axle D extending horizontally through the box *c*, and the stud-axle B extending vertically through the box *c'*. A gear-wheel, F, is rigidly secured to the axle B just above the journal-box *c'*, and gears with a cog, G, rigidly secured to the main axle D. The axle D

is prevented from moving horizontally relatively to the casting by a pin, *d*, or other suitable device. The tongue or handle H is secured to the casting at *h*, below the carrying-axle, and the hounds I are secured to the tongue at *x*, and are connected with the axle D by means of straps *i*, which permit the axle to revolve freely.

When the machine is moved either backward or forward, a rotary motion is imparted to the brush A from the carrying-wheels by means of the axle D, cogs G and F, and stud-axle B. The result is that the dust or dirt is stirred up and separated from the object being cleaned, and at the same time is carried away in advance of the machine.

While the machine is especially designed for scouring or scrubbing, it may be used simply as a brushing or sweeping machine and work very effectively.

I am aware that horizontally-rotating brushes driven by gearing from carrying-wheels are not broadly new; but

I claim as my invention—

The combination, substantially as set forth, of the circular horizontally-rotating brush, the carrying-wheels having rubber tires, the castings in which the carrying-axle and the pivot of the brush are journaled, the handle or tongue rigidly connected to the casting below the axle, and the hounds I, connected with the main axle on each side of the casting.

In testimony whereof I have hereunto subscribed my name.

ROBT. B. HAWKINS.

Witnesses:

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