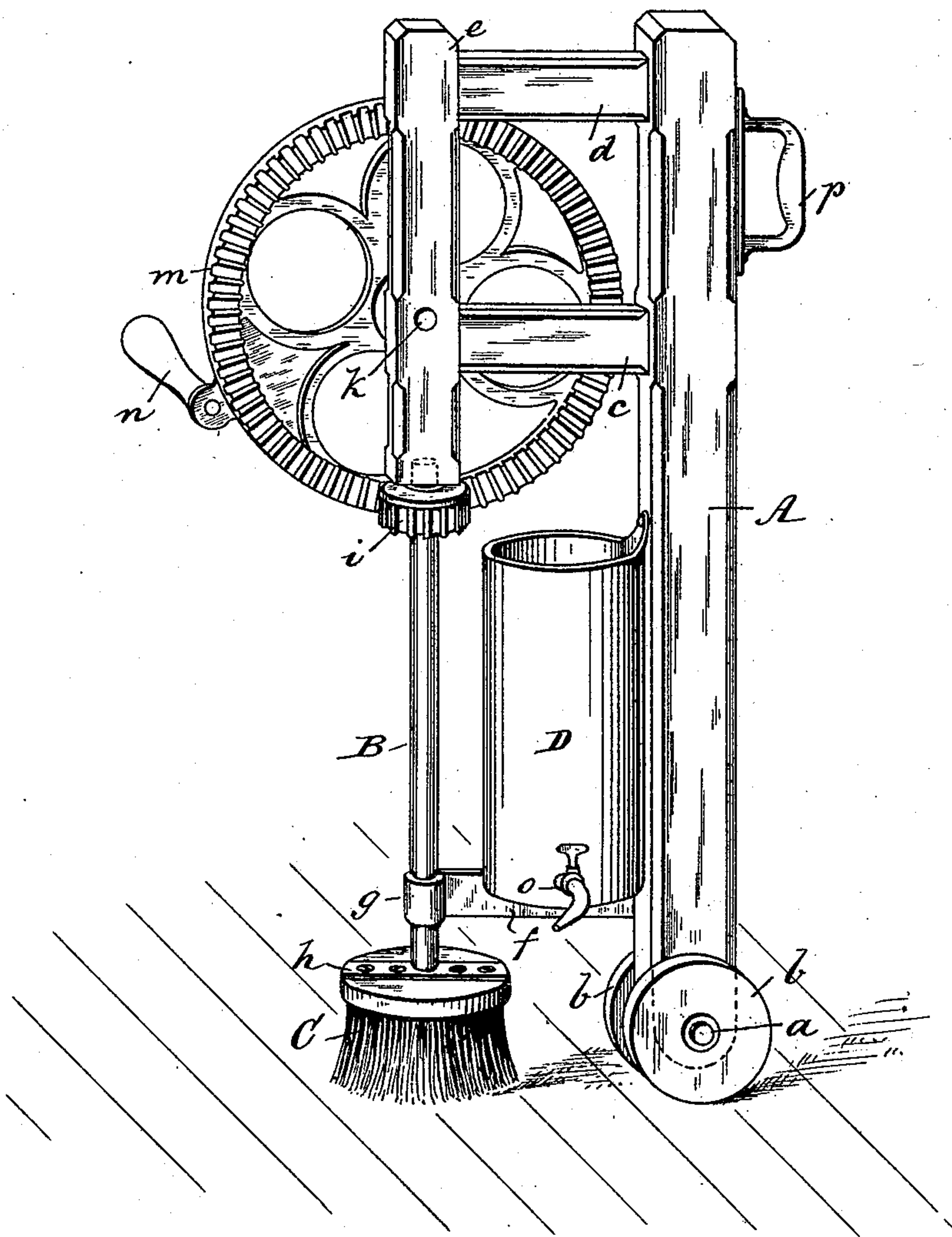


(No Model.)

V. A. MILLER.  
FLOOR SCRUBBER.

No. 464,376.

Patented Dec. 1, 1891.



WITNESSES:

*H. Walker*  
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BY

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# UNITED STATES PATENT OFFICE.

VIOLA A. MILLER, OF AURORA, MISSOURI.

## FLOOR-SCRUBBER.

SPECIFICATION forming part of Letters Patent No. 464,376, dated December 1, 1891.

Application filed June 21, 1890. Serial No. 356,208. (No model.)

*To all whom it may concern:*

Be it known that I, VIOLA A. MILLER, of Aurora, in the county of Lawrence and State of Missouri, have invented a new and useful Improvement in Floor-Scrubbers, of which the following is a full, clear, and exact description.

My invention is an improvement in wheeled floor-scrubbing machines.

My scrubber has a single standard supported upon two wheels, and the brush-carrying shaft is journaled in rigid vertical and horizontal attachments of said standard. A water-tank is arranged in the space between the standard and shaft and provided with a faucet whose nose is curved toward the brush. The gear for rotating the brush is arranged vertically parallel to the standard and shaft, and thus the machine occupies but little space laterally and may be run close alongside a wall or article of furniture.

Reference is to be had to the accompanying drawing, forming a part of this specification, in which the figure represents the device in perspective ready for use.

The vertical standard A of the device is rounded at its lower end and perforated transversely thereat for the reception of a short axle *a*, whereon the wheels *b* are loosely secured free to rotate. At proper points on the upper portion of the standard A two arms *c* *d* are extended from one side properly spaced apart and secured firmly to the standard parallel to each other. Upon the outer ends of the arms *c* *d*, which are of equal length, a short upright post *e* is attached firmly. This post and the arms *c* *d* together form a stout bracket-frame whereon the scrubber-operating mechanism is supported.

From the lower portion of the standard A a metal arm *f* is horizontally projected in alignment with the arms *c* *d*, which arm has on its outer end, in alignment with the post *e*, a vertically-apertured box *g* for the loose engagement of an upright shaft B, whereon the circular brush or broom C is removably secured, as shown, by screws passing through a transverse bracket-plate *h*, secured to the shaft B; or it may be secured by any other simple preferred means.

The upper end of the shaft B is revolvably supported by its insertion loosely within a socket-hole in the lower end of the upright post *e*, as shown in dotted lines. Directly below the point of engagement of the shaft end with the post *e* a toothed pinion *i* is mounted on and affixed to the shaft B, and on a stud *k*, that is inserted in the post *e* of the bracket-frame above the pinion, a gear-wheel *m*, of larger diameter than the pinion *i*, is loosely mounted. The gear *m* is parallel to the plane of the brush-shaft and standard and close to the former in order to economize space laterally, and thus enable the machine to work close to a wall, as well as to be placed in as small space as practicable. A handle *n* is secured to the wheel *m* near its edge, furnishing means for a rotary movement of the wheel, which by the pinion *i* will give an accelerated revoluble movement to the brush C.

The water-tank D is attached to the standard A and supported on arm *f* between said standard and shaft B, so that it occupies space not available for any other purpose. This arrangement is highly important in respect to compactness of the machine. From one side of the tank D a faucet *o* curves forward and downward, so as to direct a stream directly toward the side of the brush as it revolves.

At *p* a handle is affixed to the standard A for the propulsion of the device in any desired direction.

In operation, there is a supply of detergent fluid—such as soapy water—placed within the tank D, and the faucet *o* opened to discharge a small stream of soap-suds on the brush C, which should be pressed to the floor and rotated while the entire device is moved over the surface to be cleaned.

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

In a floor-scrubbing machine, the standard A, supported on wheels *b* *b*, the brush C, which serves as the front support for the machine, the rotary brush-shaft B, having its bearings in the post *e* and arm *f*, respectively attached in vertical and horizontal position to the upper and lower portions of said



standard, the water-tank D, supported on the  
aforesaid arm *f* in the space between the  
standard and shaft and provided with a fau-  
cet *o*, attached to one side and curved for-  
5 ward and downward to direct a stream upon  
the side of the brush, the driving-gear *m*, piv-  
oted on said post parallel thereto, and a pin-  
ion *i* on brush-shaft, which meshes with such  
gear, all as shown and described.

VIOLA A. MILLER.

Witnesses:

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