

(No Model.)

2 Sheets—Sheet 1.

P. LE CLERC.
SCRUBBING MACHINE.

No. 551,773.

Patented Dec. 24, 1895.

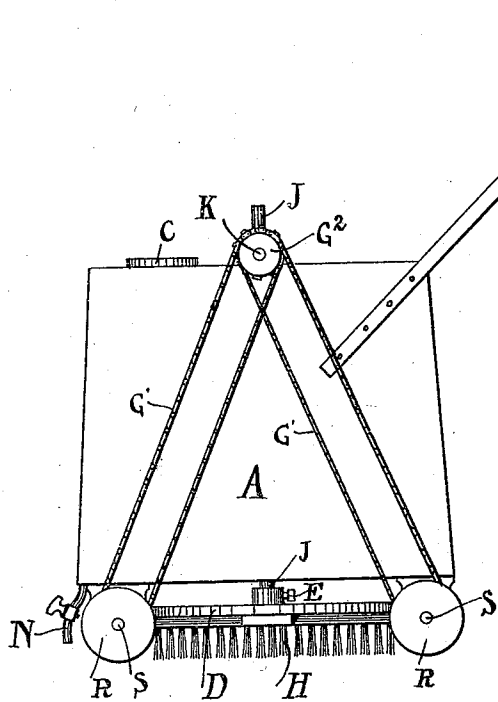


Fig. 2

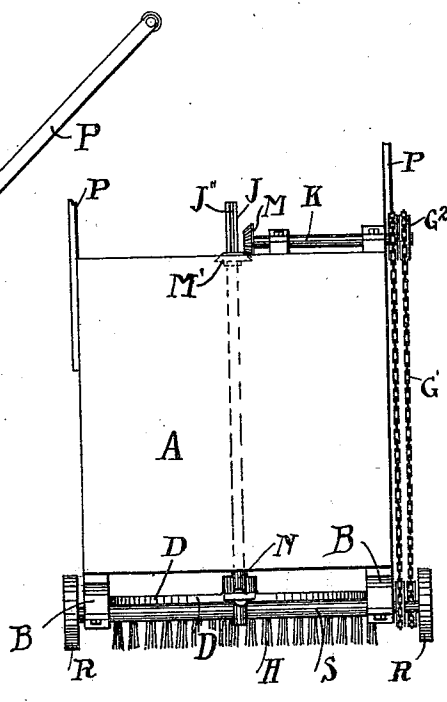


Fig. 3

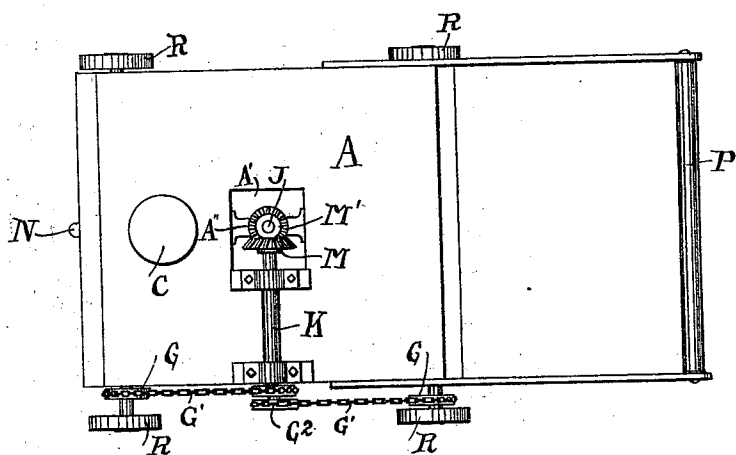


Fig. 1

WITNESSES:

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L. A. Bissinger

Paul Le Clerc

INVENTOR

BY
A. H. Swanson
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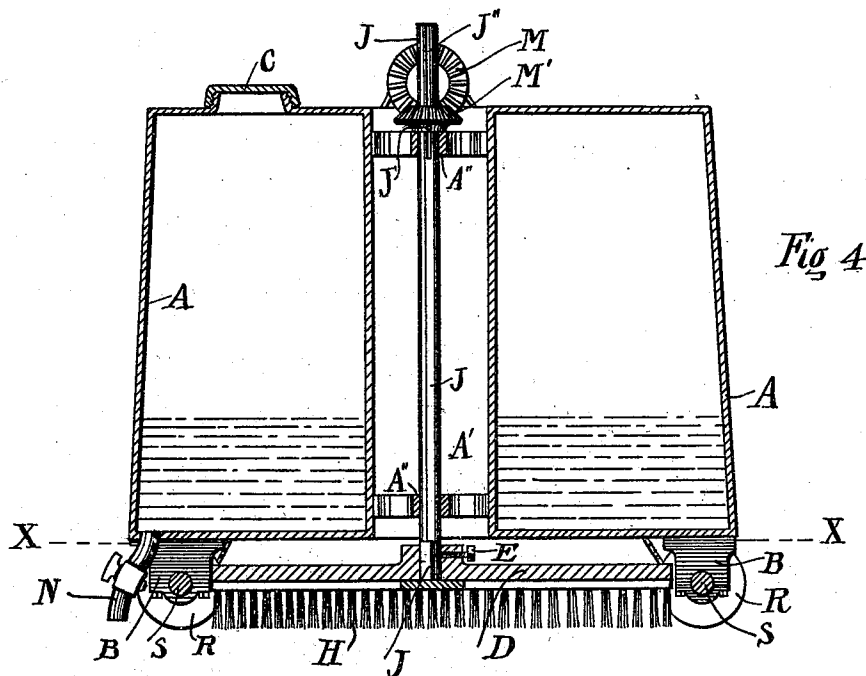


Fig 4

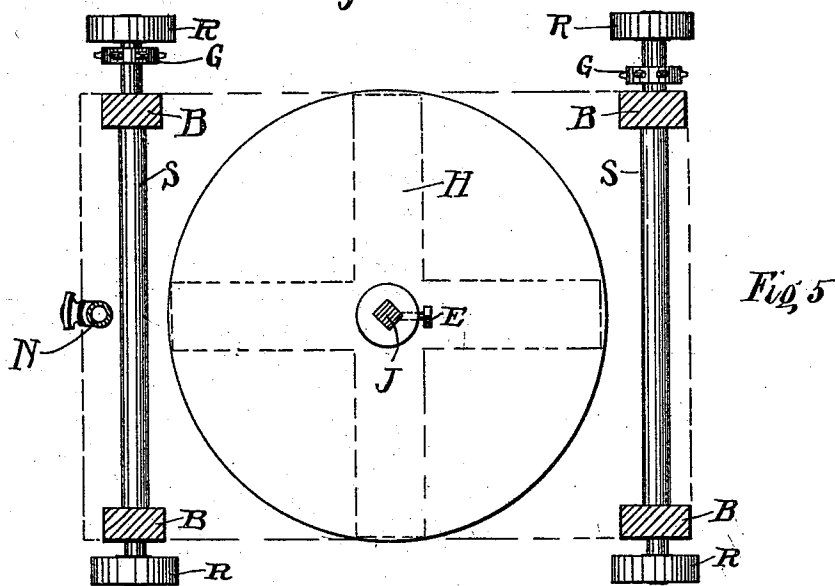


Fig 5

WITNESSES:

J. Beckbissinger
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UNITED STATES PATENT OFFICE.

PAUL LE CLERC, OF BAY CITY, MICHIGAN.

SCRUBBING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 551,773, dated December 24, 1895.

Application filed May 1, 1895. Serial No. 547,751. (No model.)

To all whom it may concern:

Be it known that I, PAUL LE CLERC, a citizen of the United States, residing at Bay City, in the county of Bay and State of Michigan, have invented certain new and useful Improvements in Scrubbing-Machines; and I do 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 the letters of reference marked thereon, which form a part of this specification.

My invention is a machine for scrubbing floors; and it consists in the peculiar construction, arrangement and combination shown and described.

Figure 1 is top view of the machine. Fig. 2 is a side view. Fig. 3 is an end view. Fig. 4 is a vertical section. Fig. 5 is a horizontal section on line X X of Fig. 4.

In the drawings, A is a tank adapted to hold water, soapsuds, lye, &c., and is carried on two shafts or axles S S, having rollers R R, B B being the bearing of the axles on the base of the shaft. Underneath the tank and between the axles is a large disk D, to which are secured radial brushes H. These brushes are similar to the ordinary scrubbing-brush, and are shown in dotted lines in Fig. 5.

The disk D is supported upon the end of a vertical shaft J, passing through the center of the tank, which is provided with a central tube A' or opening for it, as shown in Fig. 4, the shaft J having bearings A'' in the tube. Upon one side of the tank and on each of the axles on that side I secure sprocket-wheels G in different vertical planes. Secured to the top of the tank and parallel to the axles S S and midway between them and extending toward the center of the tank is another shaft K, journaled in the top of the tank and having upon its outer end two sprocket-wheels G². From these sprocket-wheels an endless chain G' engages each sprocket on the lower shafts S.

Upon the inner end of the shaft K is a mitered gearing M, which engages a miter-gearing M' on the vertical shaft J, as shown

in Fig. 4. It is obvious, therefore, that if the tank is propelled the revolving of the axles S S will turn the shaft K and the vertical shaft J, which has upon its lower end the disk D and brushes H, thereby revolving the brushes.

J'' is a groove in the shaft J for receiving a pin J' holding the miter-gearing M' on its shaft. The shaft J and its disk and brush are supported by the brushes H upon the floor. The slot J'' in the shaft J permits the shaft J to slide up and down through the miter-gear M'.

E is a set-screw securing the disk D to the lower end of the shaft J.

P is the handle by which the device may be propelled, and may be secured to the tank in any desired position to make it convenient in propelling the device.

C is an orifice in the top of the tank for introducing the scrubbing liquid into the top of the tank, and N is a pipe in the base of the tank, provided with a stop-cock, for discharging the liquid in front of the device as desired.

It is obvious that this machine may be of any size or shape desired, and that instead of sprocket-wheels chain belts or shafts with beveled gear could be employed, and any change may be made in the mechanism described that may be suggested by mechanical skill without departing from the principle of my invention.

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

In a scrubbing machine, the combination with a tank supported by wheels on parallel shafts, and a sprocket wheel on each shaft on the same side of the tank and between the supporting wheels of the tank, of brushes underneath the tank resting upon the floor and supporting a vertical shaft passing through the center of the tank, the shaft carrying upon its upper end a beveled pinion so keyed to the shaft that the shaft may slide through it vertically as the brushes are raised or lowered by the inequality of the floor, a beveled gear upon the end of the horizontal shaft engaging the beveled gear on the vertical shaft, and the horizontal shaft on the top of the

tank and extending to the outside thereof,
and having upon its outer end two sprocket
wheels, and the sprocket wheels, and sprocket
chains, one engaging one of the sprocket
5 wheels on the horizontal shaft and one of the
sprocket wheels on one of the lower shafts,
the other chain engaging the other sprocket
wheel on the upper shaft and a sprocket

wheel on the opposite supporting shaft, sub-
stantially as and for the purpose set forth. 10

In testimony whereof I affix my signature
in presence of two witnesses.

PAUL LE CLERC.

Witnesses:

J. E. KINNANE,
LOUÉ LARANCHÉ.