No. 778,427. PATENTED DEC. 27, 1904.

H. J. NOLL.

SCRUBBING MACHINE.

APPLICATION FILED FEB. 27, 1904.

2 SHEETS—SHEET 1.

Fig. 2

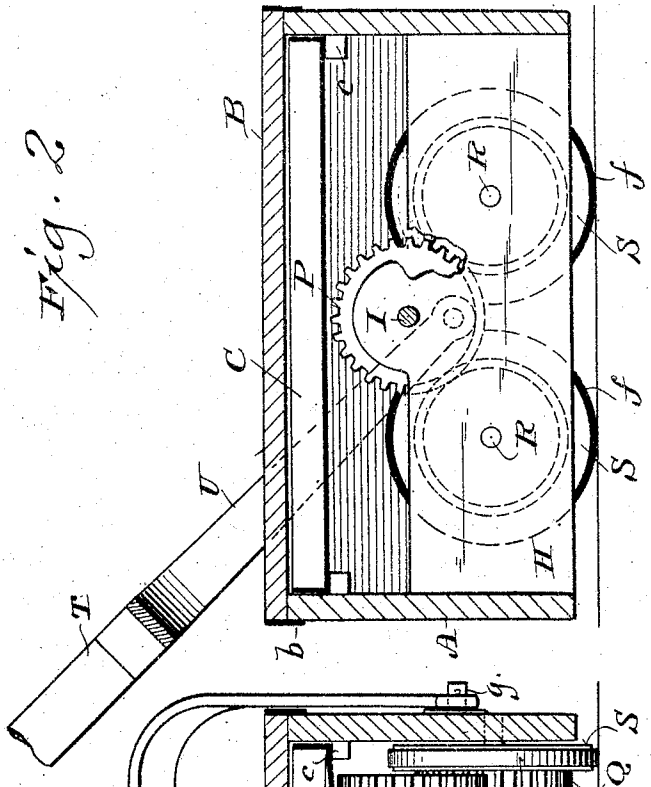
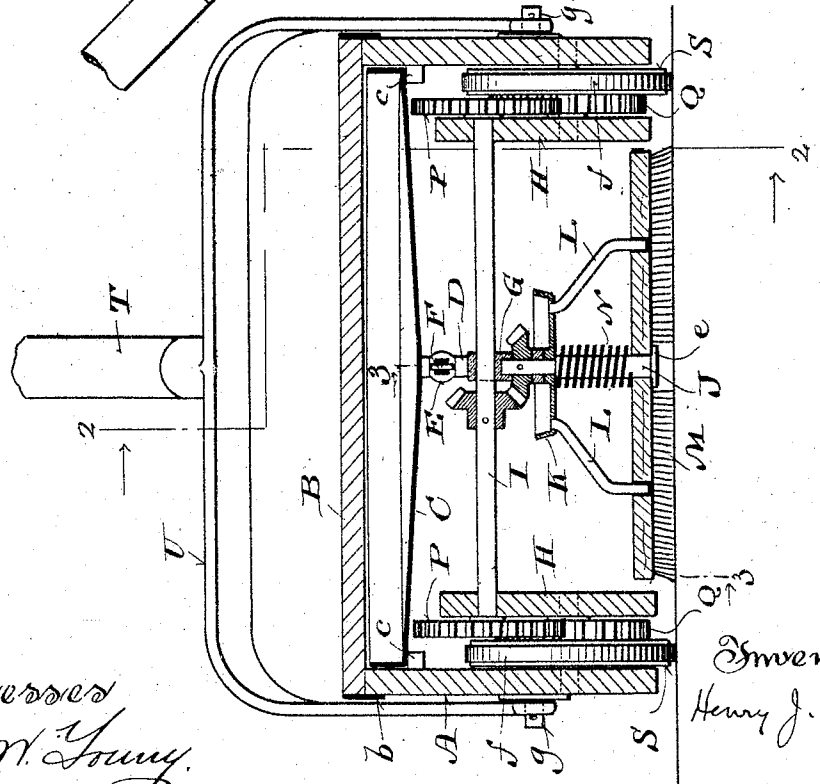


Fig. 1.



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2 SHEETS—SHEET 2.

Fig. 4.

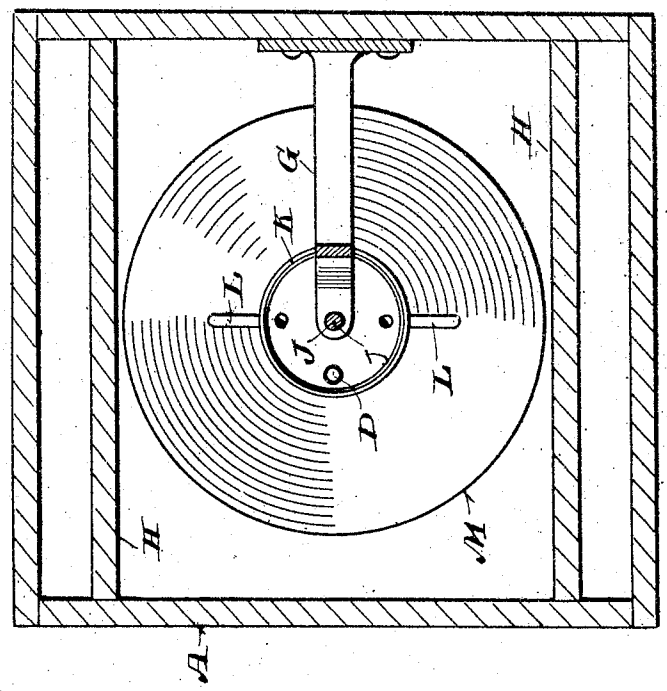
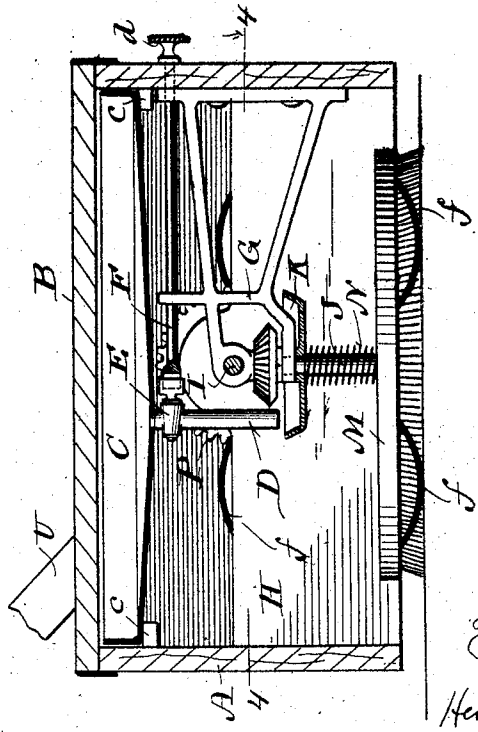


Fig. 3.



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UNITED STATES PATENT OFFICE.

HENRY JOHN NOLL, OF MILWAUKEE, WISCONSIN.

SCRUBBING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 778,427, dated December 27, 1904.

Application filed February 27, 1904. Serial No. 195,647.

To all whom it may concern:

Be it known that I, HENRY JOHN NOLL, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented certain new and useful Improvements in Scrubbing-Machines; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide simple, economical, and efficient scrubbing-machines each comprising a rotary-drive fountain-fed brush.

Hence said invention consists in certain peculiarities of construction and combination of parts hereinafter particularly set forth with reference to the accompanying drawings and subsequently claimed.

Figure 1 of the drawings represents a vertical transverse central section view of a scrubbing-machine in accordance with my invention; Figs. 2 and 3, vertical longitudinal views of the machine respectively indicated by lines 2 2 and 3 3 in the first figure of the series; and Fig. 4, a horizontal section of said machine, indicated by line 4 4 in the third figure of the series, the traction-wheels and gearing that would otherwise appear in this view being omitted.

Referring by letter to the drawings, A indicates a box-like frame having a removable cover B, provided with a valance *b*, and a removable pan C is supported on lugs *c* inside the frame immediately under its cover. The bottom of the pan inclines downward from all sides toward an outlet in which a depending pipe D is fitted, this pipe being provided with a stop-cock E, the plug of which is controlled by a detachable key F, that has its bearings in a bracket G within the frame, a turning-head *d* being fast on the key outside of said casing.

Arranged to turn in the bracket G and partitions H parallel to sides of the frame is a horizontal shaft I in miter-gear with a vertical center shaft J, for which said bracket is also provided with a bearing. Supported on the shaft J to turn therewith under the outlet-pipe D of the pan C is a circular basin K, having outlet-pipes L, that extend down through the head of a circular brush M in loose central engagement with said shaft. The brush-head normally rests upon a lower annular flange *e* of the shaft J, and a spiral spring N surrounds said shaft under tension between said brush-head and the basin aforesaid, the brush being rotary with its shaft within the space bounded by the ends and partitions of the frame aforesaid.

Fast on the ends of the shaft I are spur-wheels P, in mesh with similar wheels Q on spindles R, that have their bearings in the sides and partitions of the machine-frame. Traction-wheels S are also fast on the spindles R, and rubber tires *f* are preferably employed on said wheels.

The sides of the machine-frame are provided with outer studs *g*, and a handle T is connected to a bail U, that is loose at its ends on said studs.

The machine being pushed over a surface on its wheels S, rotary motion is imparted to the brush M, that also bears on said surface under pressure of the spring N, and said machine being reversed there is ready yield of said brush in an upward direction to permit a shift of direction in the bend of its tufts. Water or other fluid material is fed from the pan C through the pipe D into the basin K and from thence through the pipes L and brush-head M, the flow of said fluid material being regulated by the adjustment of the plug of the stop-cock E, with which said pipe D is provided.

By removal of the pan C ready access is had to the interior of the machine whenever necessary or desirable.

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

A scrubbing-machine comprising a suitable frame mounted on wheels and provided with a handle, a horizontal shaft within the frame, in gear-train with the wheels, a vertical shaft in gear with the shaft aforesaid, a brush rotative with the vertical shaft but movable longitudinally of the same, a pan supported in said frame, a cock-controlled pipe depending

from the pan, a basin in connection with said vertical shaft under the pipe aforesaid, pipes leading from the basin through the head of the brush, and a spring arranged between said basin and brush.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

HENRY JOHN NOLL.

Witnesses:
N. E. OLIPHANT,
R. J. BARSCH.