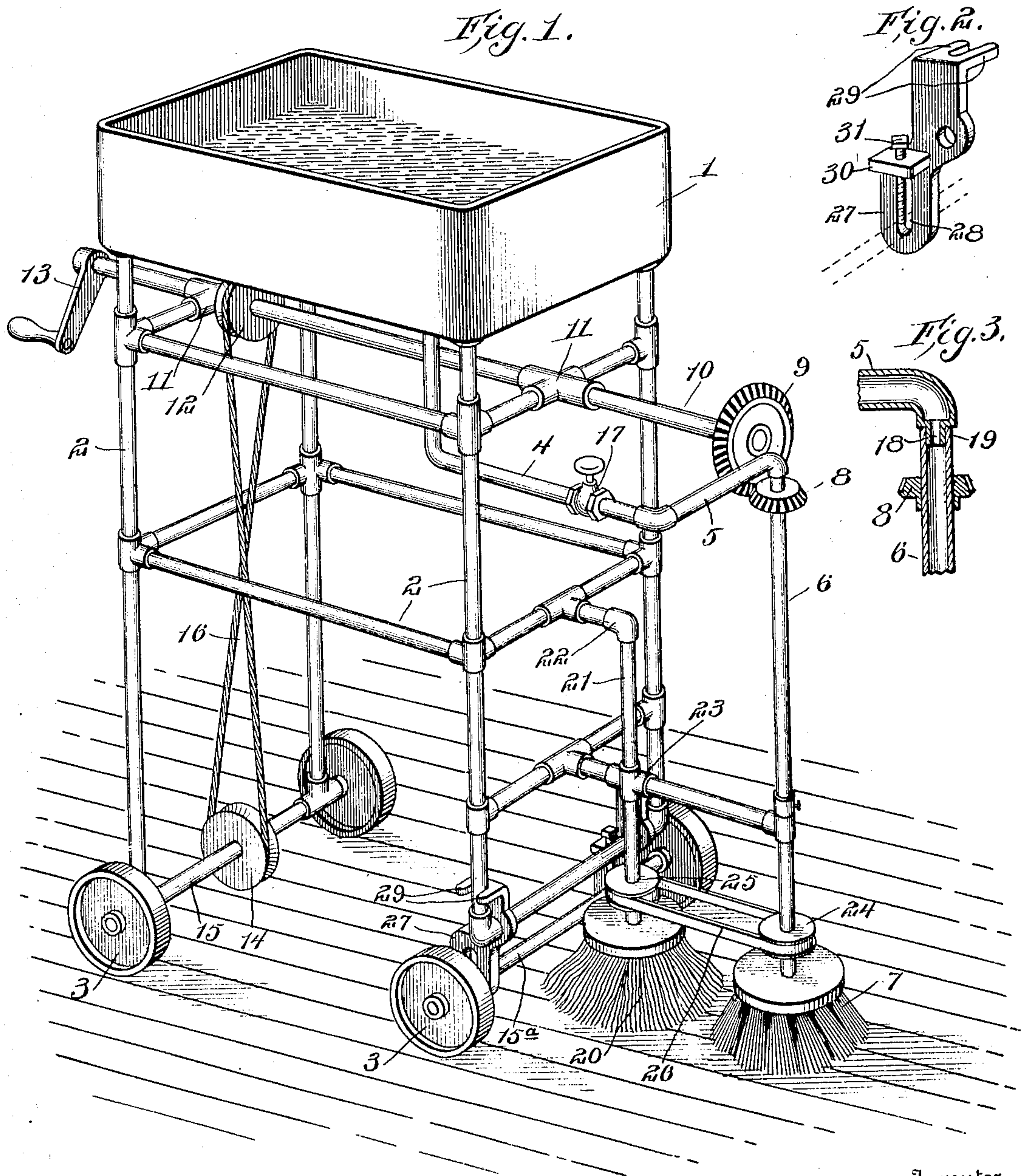


No. 869,712.

PATENTED OCT. 29, 1907.

W. L. JACOBS.
SCOURING MACHINE.
APPLICATION FILED SEPT. 22, 1906.



Inventor
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Witnesses

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WILLAM L. JACOBS, OF AUTREYVILLE, GEORGIA.

SCOURING-MACHINE.

No. 869,712.

Specification of Letters Patent.

Patented Oct. 29, 1907.

Application filed September 22, 1906. Serial No. 335,808.

To all whom it may concern:

Be it known that I, WILLAM L. JACOBS, a citizen of the United States of America, residing at Autreyville, in the county of Colquitt and State of Georgia, have invented new and useful Improvements in Scouring-Machines, of which the following is a specification.

This invention relates to scouring machines and one of the principal objects of the same is to provide efficient means for quickly scouring or scrubbing floors embodying a rotary fountain brush connected to a water tank mounted on wheels and connected by a pipe to the brush and to be pushed over the floor for scouring or scrubbing same.

Still another object of my invention is to provide means whereby the rotary mop and the rotary scrubbing brush may be lowered relatively to the wheels of the machine when said mop and scrubbing brush become worn.

These and other objects may be attained by means of the construction illustrated in the accompanying drawings, in which,

Figure 1 is a perspective view of a scrubbing machine made in accordance with my invention. Fig. 2 is a detail perspective view of the means for adjusting the front axle vertically to compensate for the wear of the brushes. Fig. 3 is a detail section of the connection of the hollow pipe or shaft to which the rotary brush is attached.

Referring to the drawing for a more particular description of my invention, the numeral 1 designates a water tank or reservoir which is mounted upon a frame 2 preferably composed of gas piping, as shown in the drawing, and mounted upon wheels 3. A pipe 4 which communicates at its upper end with the tank 1, extends downward therefrom and outward and is connected to a branch pipe 5. Connected to the branch pipe 5 is a vertical pipe 6 to the lower end of which a scrubbing brush 7 is attached. Near the upper portion of the section 6 of the pipe, a beveled gear wheel 8 is fixed which meshes with a larger beveled gear 9 fixed to a shaft 10 mounted to rotate in bearings 11 on the frame, and said shaft having a grooved pulley 12 thereon and a crank handle 13 at its outer end. A grooved pulley 14 on the rear axle 15 is connected to the pulley 12 by means of a rope or cable 16, the purpose of which is to rotate the shaft 10 when the machine is pushed over the floor. A globe valve 17 in the pipe 4 is used to regulate the flow of water through said pipe to the scouring brush 7. The lower portion of the pipe 5 is provided with a nipple 18 which rotates freely within the upper end 19 of the pipe section 6, as shown in Fig. 3. A mop or drying brush 20 is mounted upon a rotary shaft 21, said shaft 21 being

connected to the elbow 22 in a manner similar to the connection of the pipe 6 with the branch pipe 5 and said shaft 21 being mounted in a bearing 23 on the frame. Groove pulleys 24 and 25 on the pipe 6 and the shaft 21 are connected by a belt 26 in order that the scouring brush 7 and the mop 20 will be simultaneously rotated. The front part of the frame is adjustably mounted on the front axle 15^a by means of slotted brackets 27, within which the axle rotates, so that as the mop and brush are worn away, the frame may be lowered slightly. The brackets 27, as shown in detail in Fig. 2, are each provided with a slot 28 through which the axle 15^a passes and at the upper end the bracket is bifurcated, as at 29, to embrace one of the corner posts of the frame 2. A lug 30 provided with a threaded aperture is fitted with a set screw 31 which bears at its lower end upon the axle 15^a to hold said axle in adjusted position.

The operation of my invention may be briefly described as follows: A quantity of water having been placed in the tank 1 and the valve 17 adjusted to regulate the flow of water required to the rotary brush 7, the machine is moved over the floor to be scoured and the crank 13 may be operated to revolve the shaft 10, the pipe 6, and the brush 7. The mop 20 is located immediately behind the brush 7 and is simultaneously rotated to wipe the floor by means of the belt 26. It will be understood, however, that the rope or cable 16 will rotate the brush 7 and mop 20 without using the crank 13. When it is desired to adjust the frame to compensate for wear of the brush and mop, the set screw 31 is turned in order to slightly raise the front end of the frame.

From the foregoing it will be obvious that my invention is of a simple character, can be manufactured at slight cost, will quickly and efficiently scour a floor, and can be operated by an unskilled person without the expenditure of much power.

Having thus described the invention, what I claim is:

A machine of the character described comprising a water tank mounted upon a wheeled frame, a pipe leading from said tank and connected to a branch pipe provided with a nipple, a valve in said pipe for regulating the water flow, a vertical pipe section connected to a brush and the upper end thereof having the nipple seated therein, a shaft journaled in the frame and provided with a beveled gear, a crank on said shaft and a beveled gear on the pipe section connected to the brush for rotating said brush, substantially as described.

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

Witnesses:

C. L. LANE,
JOHN SLOAN.

WILLAM L. JACOBS.