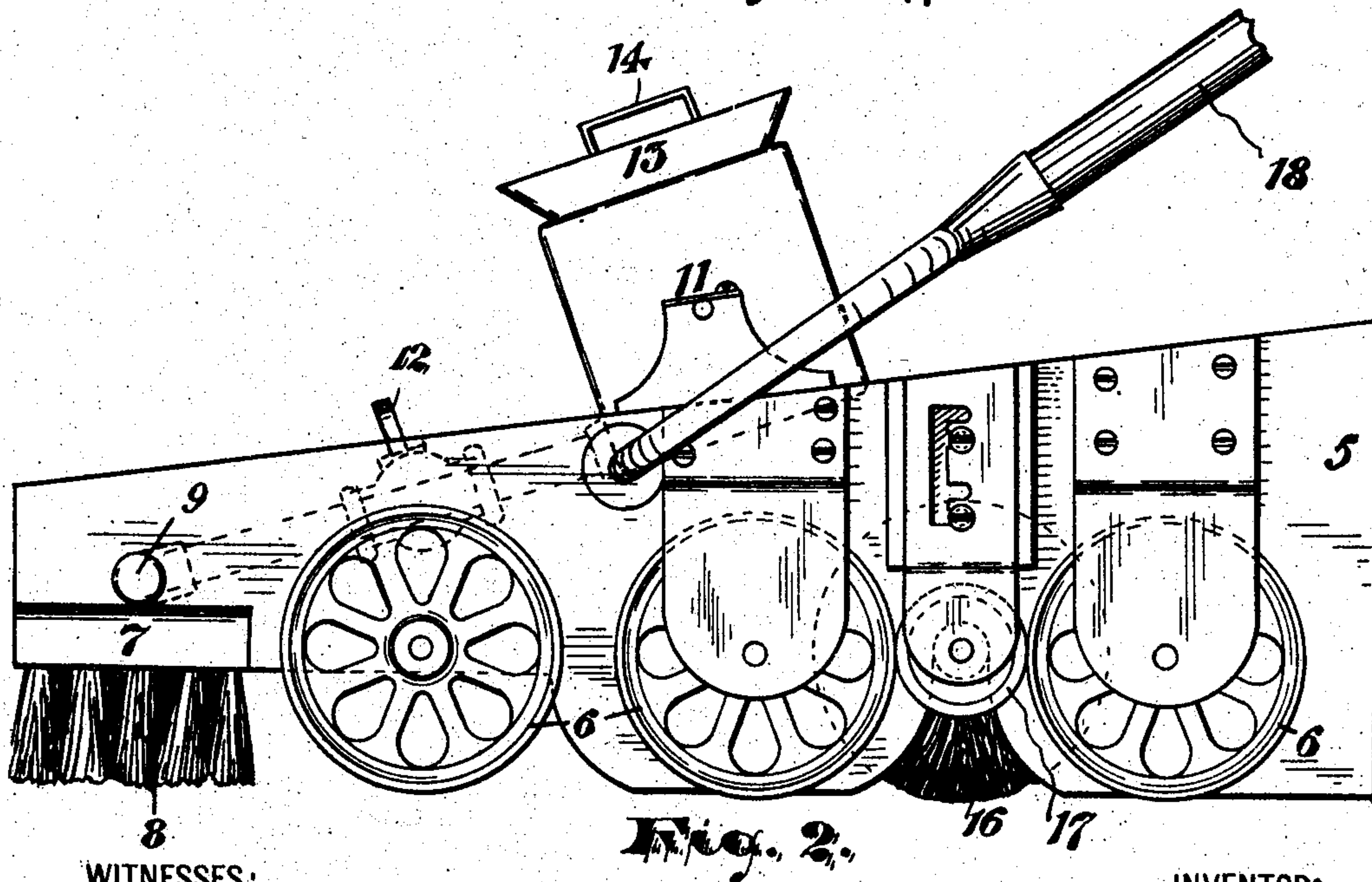
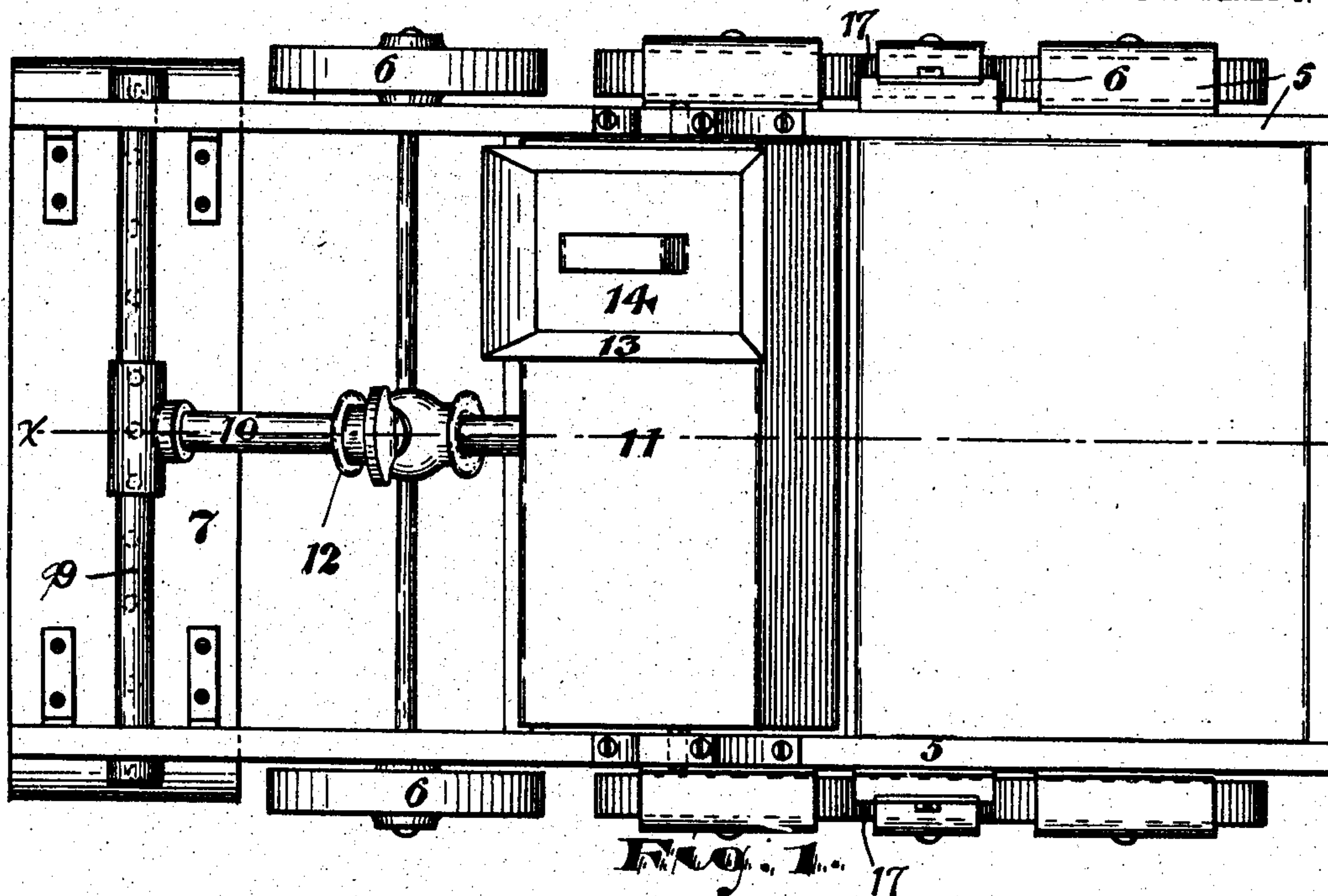


No. 781,409.

PATENTED JAN. 31, 1905.

S. M. ELY.
SCRUBBING IMPLEMENT.
APPLICATION FILED JULY 11, 1903.

2 SHEETS—SHEET 1.



WITNESSES:

Ralph Lancaster.

Russell M. Everett.

Fig. 2.

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INVENTOR:

BY

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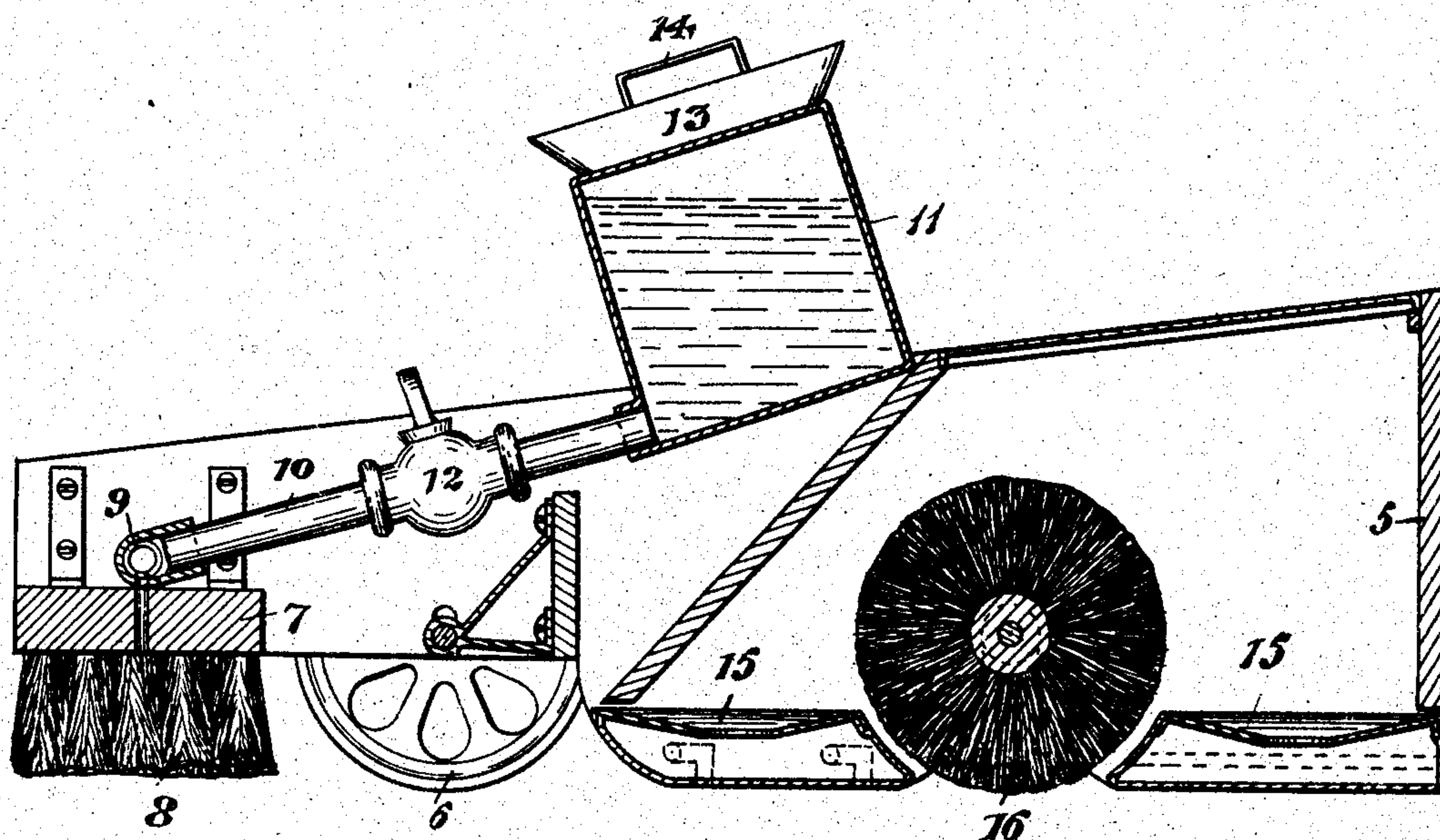


Fig. 3.

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UNITED STATES PATENT OFFICE.

SELDON MAYNARD ELY, OF EAST ORANGE, NEW JERSEY.

SCRUBBING IMPLEMENT.

SPECIFICATION forming part of Letters Patent No. 781,409, dated January 31, 1905.

Application filed July 11, 1903. Serial No. 165,101.

To all whom it may concern:

Be it known that I, SELDON MAYNARD ELY, a citizen of the United States, residing at East Orange, in the county of Essex and State of New Jersey, have invented and produced new and original Improvements in Scrubbing Implements; and I do hereby 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 numerals of reference marked thereon, which form a part of this specification.

The object of this invention is to facilitate the operation of scrubbing floors and similar surfaces and to do the same effectively with a small expenditure of labor and to secure other advantages and results, some of which may be referred to hereinafter in connection with the description of the working parts.

The invention consists in the improved scrubbing implement and in the arrangements and combinations of parts of the same, all substantially as will be hereinafter set forth, and finally embraced in the clauses of the claim.

Referring to the accompanying drawings, in which like numerals of reference indicate corresponding parts in each of the several figures, Figure 1 is a plan of the improved scrubbing implement, and Fig. 2 is a side elevation of the same. Fig. 3 is a central longitudinal section taken on line *x* of Fig. 1.

In said drawings, 5 indicates a long horizontal bed or frame, the longitudinal side pieces of which are rigidly joined at the front by a connecting-board 7, the broad faces of which lie in horizontal planes. The said board is thus adapted to move back and forth with the other parts of the frame when pushed and pulled by the handle, as hereinafter described. Said board is preferably at its longitudinal center line provided with a series of perforations through which the water from the perforated transverse extension of the water-supply pipe may flow into the interior of the bed of bristles 8 underneath said horizontal board. To the horizontal under side of the said rigidly-attached board 7 are ap-

plied bristles 8, which extend downward to engage the floor, the said board 7 serving as a portion of the frame, joining the opposite sides, and as a support for the bristles, and thus the bristles are controlled directly from and with the frame and may thus be directed with certainty into engagement with particular parts of the floor undergoing the washing or scrubbing operation.

The board 7 is perforated to permit a flow of clean water to the bristles beneath, the perforations being in a longitudinal series coincident with perforations in the transverse extensions 9 of the water-supply pipe. Said water-supply pipe 10 is in connection with a supply tank or reservoir 11 on the frame or bed of the machine and is provided with a stop-cock 12, disposed between the said reservoir 11 and the T-shaped forward extremity of said pipe having the said perforations. The tank has suitable bearings on the frame 5 and is provided at one end with an inlet-funnel 13 and cover 14 of any suitable style. At the rear of the said frame 5, on the inside thereof, are arranged removable pans 15, adapted to take up the water brushed from the floor, and contiguous to said pans, preferably between the same, is arranged a rotary wiping-brush 16, adapted to engage the floor and throw the water into the pan, the said wiping-brush having a rotary movement and the power by which it is rotated being transmitted from the wheels 6 in any suitable manner, but preferably by means of a pulley 17, interposed between and engaged by two of said wheels 6. I prefer to employ pans on both sides of the wiping-brush, as indicated in Fig. 3, so that the wiping operation can be effected both when moving the device forward and backward. The tops of the pans are each funnel-shaped, the perforated centers lying below the outer edges of the pan, so that the scourings or dirty water from the floor will flow to the open center and when once in the pans will be prevented from slopping over the edges when the devices are moved back and forth over the floor in the cleaning operation. The said frame is provided with a suitable handle 18, attached to the frame in any desirable manner, whereby

the scrubbing operation may be accomplished while the operator is standing upright upon the floor, thus avoiding the necessity for kneeling when performing the scrubbing operation.

I am aware that various changes of construction may be made without departing from the spirit or scope of the invention, and I do not wish to be understood as limiting myself by the specific expressions above employed in describing the said invention.

Having thus described the invention, what I claim as new is—

1. The improved scrubbing implement herein described, comprising a wheeled and handled frame having at its front a horizontal, perforated board, joining the opposite sides of said frame and having bristles extending down therefrom to engage the floor, a water-tank supported on said frame, a valved pipe extending from the water-tank to said perforated board, a rotary wiper journaled on said frame, means for transmitting motion to the wiper from the wheels of the frame, and pans adapted to receive the water raised by the wiper, substantially as set forth.

2. The improved scrubbing implement herein described, comprising a horizontally-disposed frame, the longitudinal side pieces of which are rigidly joined at the front or forward end of said frame, by a longitudinally-perforated connecting-board, a plurality of wheels at each side of said frame, a water-tank carried by said frame back from said connecting-board, bristles depending from said board and adapted to scrub the floor, moving back and forth thereover with the wheeled frame, a rotary wiping-brush having a friction-wheel in engagement with the wheels of the tank-supporting frame and receiving its motion therefrom, a duct for conducting water from said tank to the perforations of the bristled connecting-board, and pans to receive water from the wiper, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 21st day of June, 1903.

SELDON MAYNARD ELY.

Witnesses:

CHARLES H. PELL,
C. B. PITNEY.