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PATENTED NOV. 19, 1907.

F. S. THOMAS.
COMBINED SCRUBBER AND MOP.
APPLICATION FILED APR. 14, 1906.

Fig. 3.

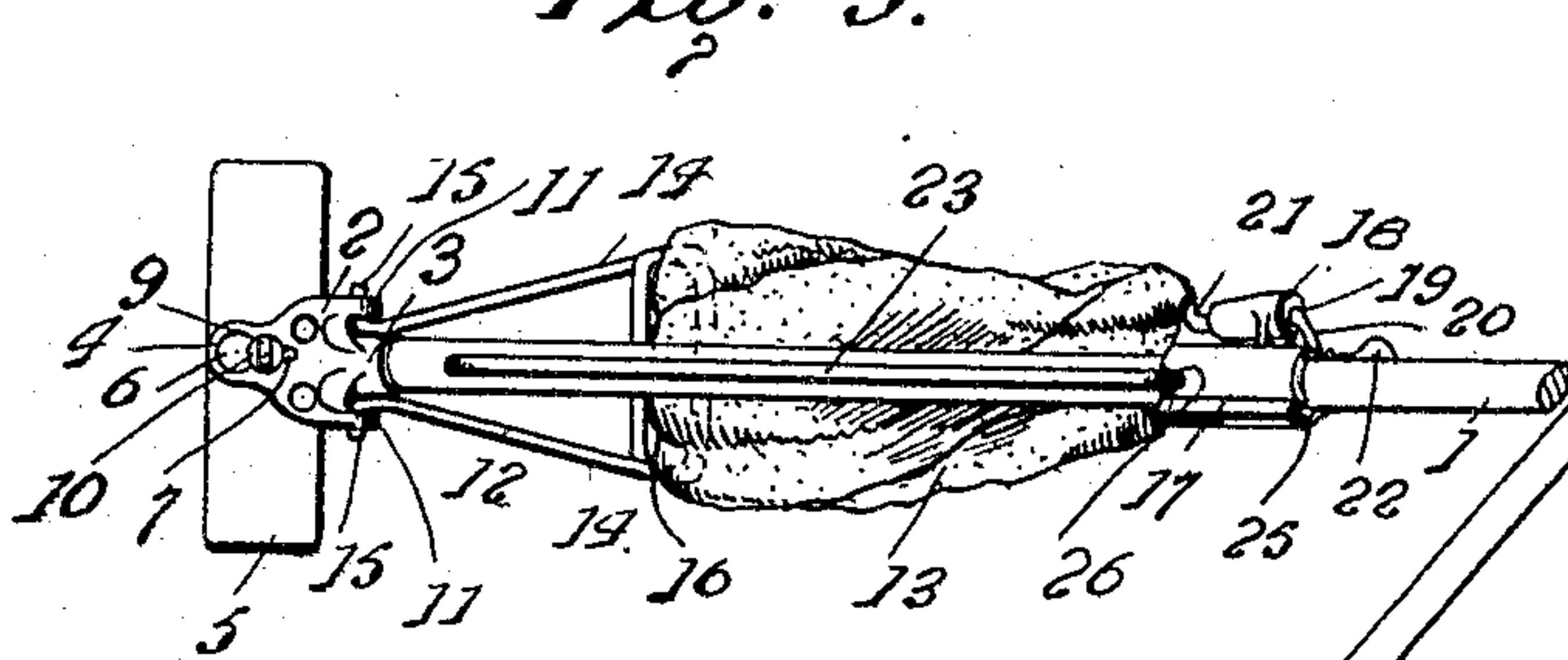


Fig. 1.

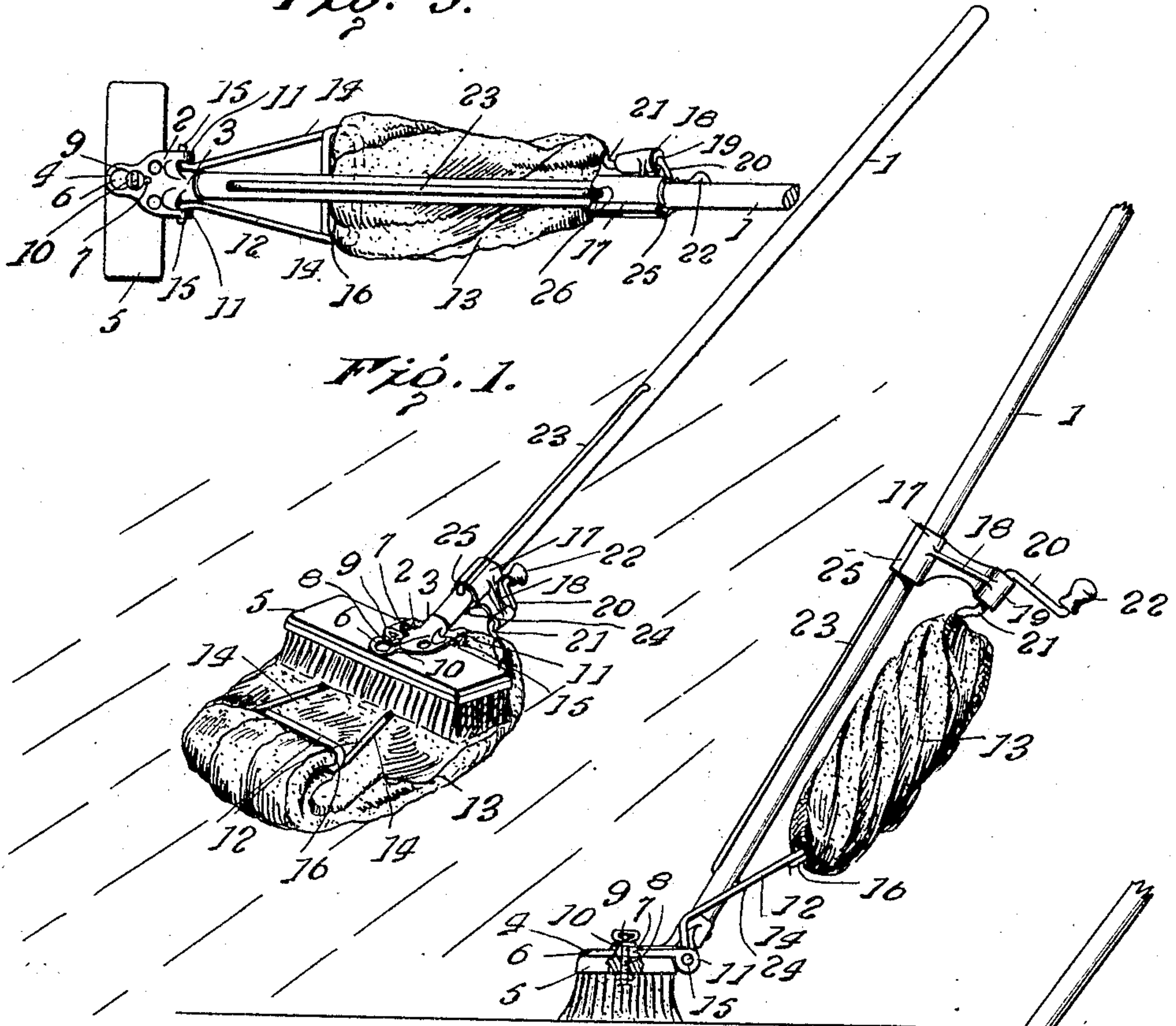
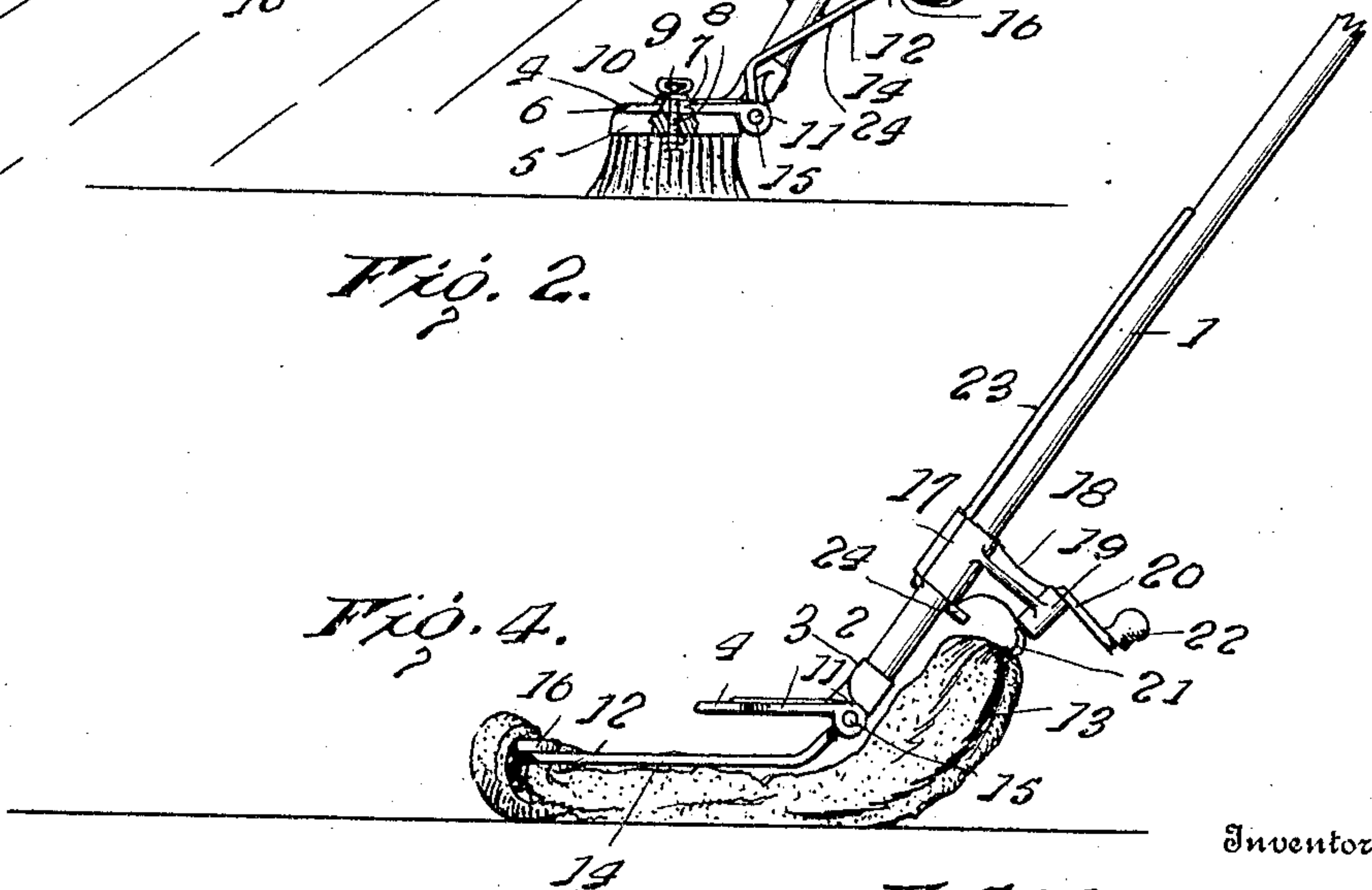


Fig. 2.

Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

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COMBINED SCRUBBER AND MOP.

No. 871,246.

Specification of Letters Patent.

Patented Nov. 19, 1907.

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To all whom it may concern:

Be it known that I, FRANK S. THOMAS, citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Combined Scrubbers and Mops, of which the following is a specification.

The present invention relates to a combined scrubber and mop in which the various elements coöperate in a peculiar manner so as to enable the device to be employed with equal facility for either of the purposes mentioned.

The object of the invention is to provide a device of this character comprising few and simple parts which are so designed as to be very economically manufactured.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result, reference is to be had to the following description and accompanying drawings, in which:

Figure 1 is a perspective view of the device showing the mop cloth as swung under the brush; Fig. 2 is a similar view showing the mop cloth as elevated in the position assumed for wringing; Fig. 3 is a top plan view of the device when used as a scrubber; and, Fig. 4 is a side elevation of the device when used as a mop, the brush being removed.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The numeral 1 designates the handle of the device which is provided at its lower end with the head 2. This head 2 is provided with a socket 3 by means of which it is connected to the handle and is in the nature of a plate 4, to the lower face of which the head of the scrubbing brush 5 is detachably connected. For this purpose, it will be observed that the forward end of the plate 4 is formed with an opening 6 having communication with a rearwardly extending slot 7. The head of the brush 5 is provided with a bolt 8, the head 9 of which is looped so as to form a finger piece and is adapted to be thrust through the opening 6 in the plate 4. A washer 10 is preferably employed in connection with the bolt 8 and when the brush 5 is secured to the plate 4, the washer 10 and head 9 of the bolt 8 are inserted through the opening 6 in the plate 4 and the scrubbing

brush 5 then slipped rearwardly so as to throw the shank of the bolt 8 into the slot 7. By turning the finger piece 9 and tightening the bolt 8, the brush can then be securely clamped in position. It will also be observed that the rear edge of the plate 4 is provided at opposite sides with downward projections 11 which form shoulders against which the head of the brush 5 fits when the brush is in position.

The mop holding member is in the form of a bail 12 which is pivotally connected to the head 2 and is adapted to be either swung forwardly so as to throw the mop cloth 13 under the brush 5 or held up in the rear of the head 2 when it is desired to use the scrubbing brush 5. This bail 12 comprises two longitudinal arms 14, the free ends of which converge slightly toward each other and are bent outwardly to form the lugs 15 which are inserted in openings in the downwardly projecting members 11 upon the plate. The opposite ends of the longitudinal members 14 are connected by means of a loop 16 through which the mop cloth 13 is passed. By reference to the drawings, it will be readily seen that this bail can be very cheaply constructed from a single piece of wire or other similar material.

A sleeve 17 is slidably mounted upon the handle 1 and is formed with a bracket 18 having a bearing 19 at the outer end thereof. A shaft 20 is mounted in the bearing 19 and is provided at its lower end with a hook 21 to which the rear end of the mop cloth 13 is attached, and at its upper end with a crank arm and handle 22. When the sleeve 17 is slipped down upon the handle 1 against the head 2, the mop cloth 13 is lowered so as to enable the bail 12 to be swung forwardly and the device employed as a mop, as shown in Fig. 1. On the other hand, when the sleeve 17 is moved upwardly upon the handle 1, the mop cloth 13 is raised and the bail 12 pulled rearwardly so as to enable the device to be used for scrubbing, as shown in Fig. 2.

In order to hold the sleeve 17 against any rotary movement upon the handle 1, when in a lowered position, a guideway is provided which is shown as in the nature of a rib 23 extending longitudinally along the handle 1. In the present instance, the rib 23 is formed of a piece of wire stretched longitudinally along the handle and having its opposite ends bent at approximately right angles and

embedded in the handle, the lower end preferably extending entirely through the handle so as to project outwardly upon the opposite side and form a stop 24 to limit the downward movement of the sleeve 17. The inner face of the sleeve 17 is formed with a longitudinal groove 25 corresponding to the rib 23 so that when the two register the sleeve can be readily moved up and down. However, when the sleeve is moved above the rib 23 and turned so as to throw the groove 25 out of registry with the rib, it will be apparent that it will be held in a raised position. In order to lock the sleeve against turning after it has thus been raised, a notch 26 is provided upon its lower edge which is adapted to engage with the upper portion of the rib 23. When the sleeve is thus locked in a raised position, the mop cloth 13 can be readily wrung by turning the handle 22 and is also held in a raised position so as not to interfere with the operation of the scrubbing brush 5.

Having thus described the invention, what is claimed as new is:

In a combined scrubber and mop, the combination of a handle, a head at the lower end of the handle, a scrubber carried by the head, a bail pivotally connected to the head and designed to be swung under the same or upwardly along the handle, an outwardly projecting rib extending longitudinally along the handle, the said rib being formed of a

single strip of material having the end portions thereof extended laterally and embedded in the handle, the lower end thereof extending entirely through the handle and projecting beyond the opposite side of the same, a sleeve slidably mounted upon the handle and formed with an interior longitudinal groove to receive the before mentioned rib and prevent rotation of the sleeve upon the handle, the downward movement of the sleeve being limited by the before mentioned lower end of the rib which extends through the handle and projects beyond the opposite face of the same, and a notch being formed in the lower edge of the sleeve which is designed to engage with the upper extremity of the rib and hold the sleeve in an elevated position when the said sleeve has been moved upwardly beyond the rib and turned to throw the before mentioned groove therein out of registry with the rib and the notch into engagement with the upper end thereof, a bracket projecting from the sleeve, a shaft journaled in the bracket and provided with a mop cloth engaging member, and a mop cloth connecting the bail and shaft.

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

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Witnesses:

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