

No. 749,506.

PATENTED JAN. 12, 1904.

L. WAGENER.
COMBINED SCRUBBER, MOP, AND WRINGER.

APPLICATION FILED AUG. 8, 1902.

NO MODEL.

Fig. 1.

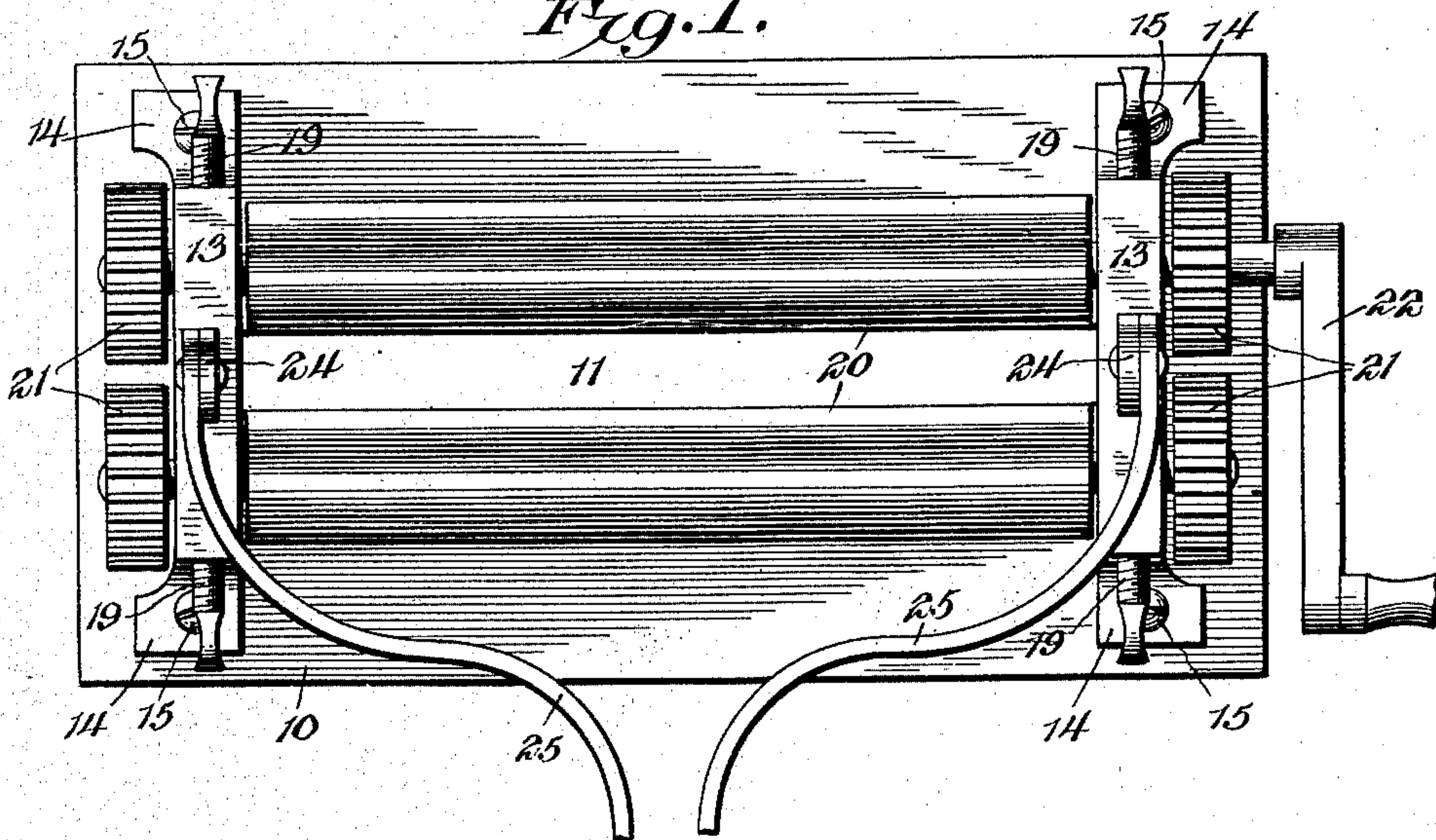


Fig. 2.

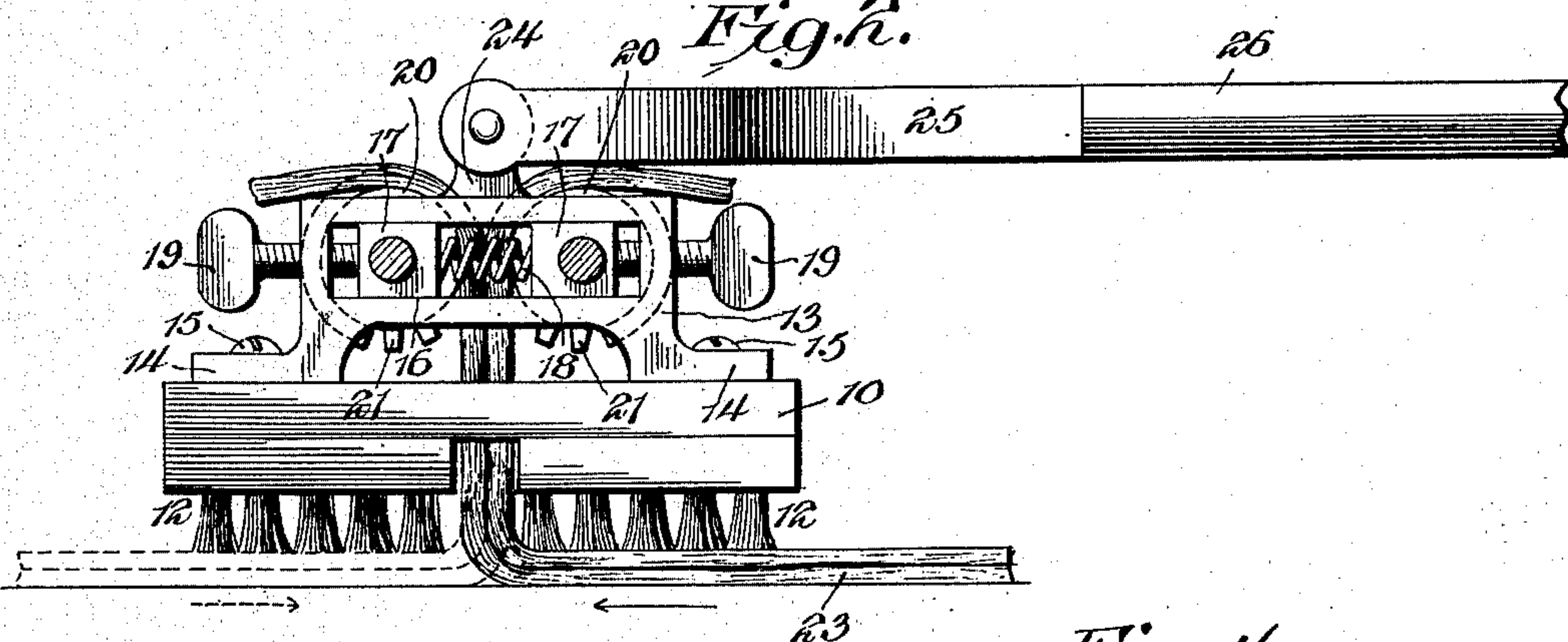


Fig. 3.

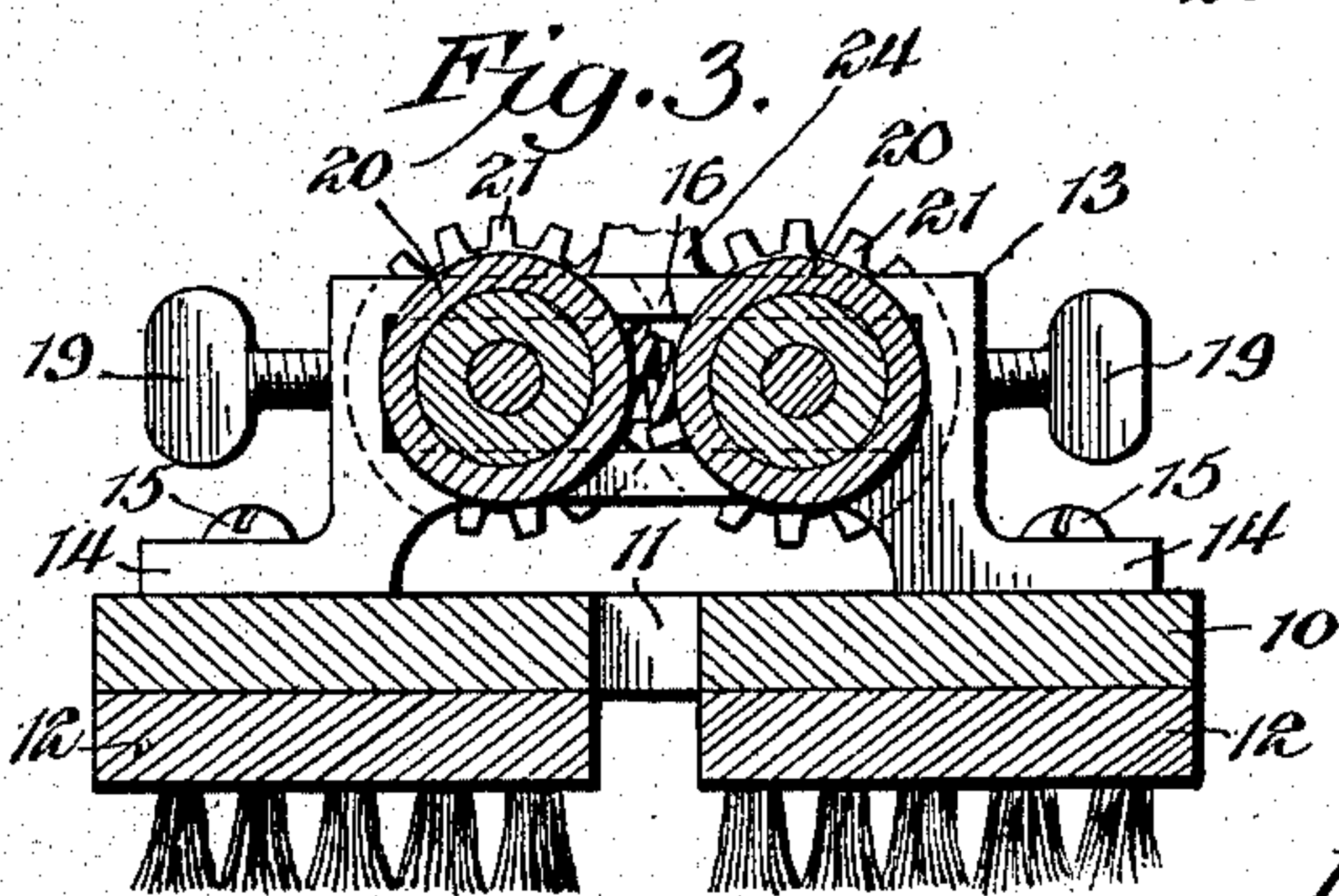
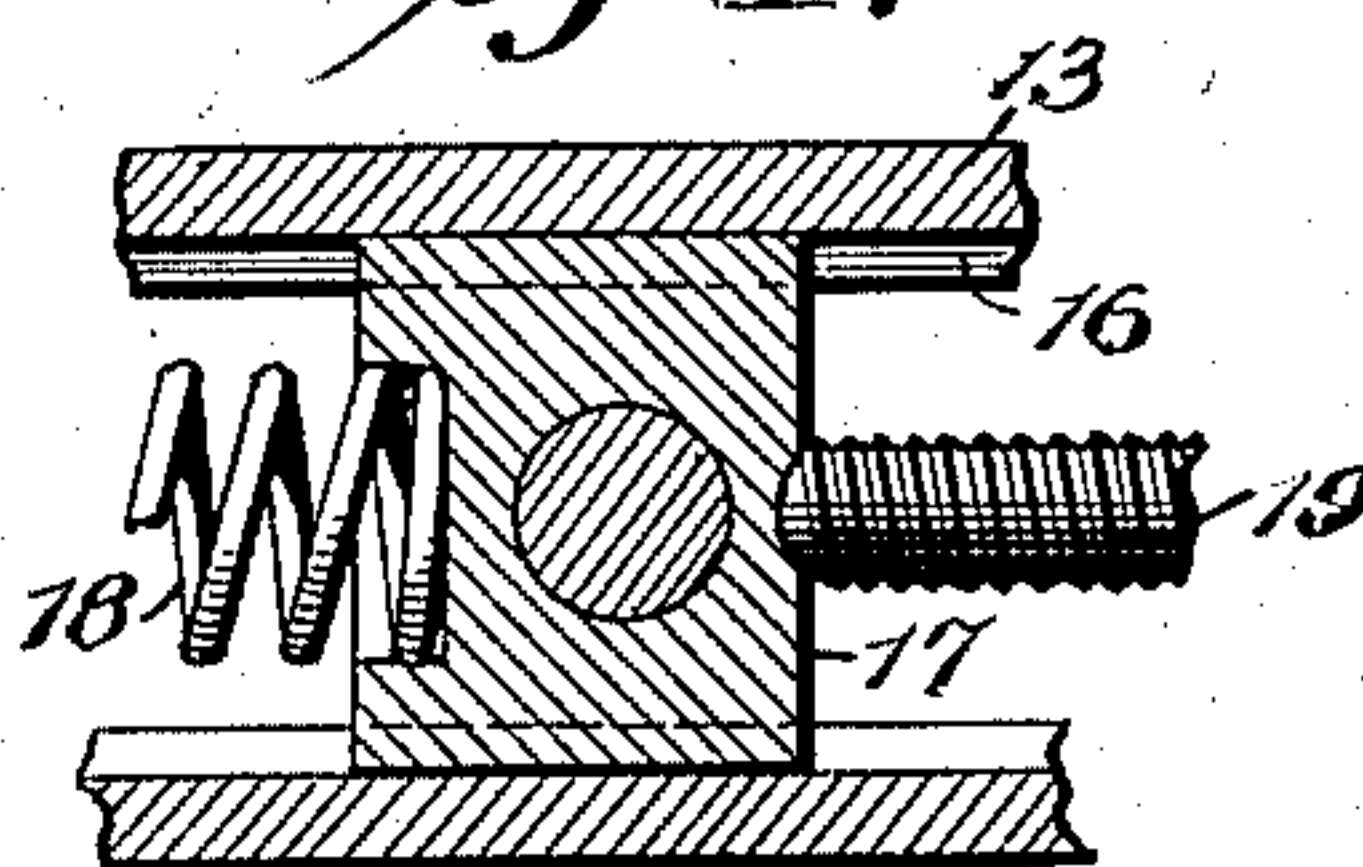


Fig. 4.



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LOUISE WAGENER, OF JACKSONVILLE, FLORIDA.

COMBINED SCRUBBER, MOP, AND WRINGER.

SPECIFICATION forming part of Letters Patent No. 749,506, dated January 12, 1904.

Application filed August 8, 1902. Serial No. 118,944. (No model.)

To all whom it may concern:

Be it known that I, LOUISE WAGENER, a citizen of the United States, residing at Jacksonville, in the county of Duval and State of Florida, have invented a new and useful Combined Scrubber, Mop, and Wringer, of which the following is a specification.

This invention relates to combined scrubbers, mops, and wringers; and the object is to provide in connection with scrubbing-brushes, which may be employed in the usual way, a mop that may be brought into use when desired and reciprocated back and forth over a floor, said mop having a cleansing action in both directions, due to the peculiar arrangement and combination of the brushes with the mopping-cloth.

Another object is to provide in connection with the above wringer mechanism by means of which the water may be eliminated from the mopping-cloth, said mechanism also serving as means for holding the cloth in its operative and inoperative positions.

The preferred embodiment of the invention is shown in the accompanying drawings, wherein—

Figure 1 is a top plan view of the apparatus, the wringer-rolls being separated and the mopping-cloth removed. Fig. 2 is an end elevation of the same, the intermeshing gear-wheels for the rolls being removed. Fig. 3 is a vertical transverse sectional view, and Fig. 4 is a detail sectional view through a portion of one of the wringer-frames.

Similar reference-numerals indicate corresponding parts in all the figures of the drawings.

In the embodiment shown a base-plate 10 is employed, which is rectangular in form and has a longitudinally-disposed intermediate opening 11 therein. To the under side of this plate are attached scrubbing-brushes 12, located on opposite sides of the opening 11 and spaced apart, as shown. These brushes may be of the usual construction and secured to the plate in any desired manner. Upon the upper face of the plate is arranged wringer mechanism, which is constructed as follows: A pair of upright frames 13 are secured to the opposite ends of the plate and transversely of the open-

ing 11, these frames having feet 14 at their lower ends, through which are passed fastening-screws 15. They are provided with horizontal longitudinally-disposed guideways 16, in which are slidably mounted journal-boxes 17, that are thus movable toward and from each other. Interposed between the journal-boxes of each frame is a coiled spring 18, that serves to force said boxes apart, as will be readily understood. Adjusting-screws 19, threaded in the ends of the frames, bear against the outer sides of the boxes and constitute means for moving the boxes toward each other. Journalled in the boxes are suitable wringer-rolls 20, the ends of which project beyond the frames and are provided with gear-wheels 21, adapted to intermesh. One of the rolls is also provided with a handle-crank 22. Between the rolls there is placed a mopping-cloth, as 23, which when in use is arranged to be passed through the opening 11 of the base-plate and between the brushes. Upstanding ears 24 are arranged upon the frames 13, and to these ears is pivotally attached a bail 25, forming the lower end of a handle, as 26.

When the apparatus is to be used for scrubbing purposes, the mopping-cloth 23 is elevated by turning the rolls 20 in the proper direction. Thus the brushes will rest upon the floor to be cleaned and may be operated in the usual manner. In mopping it is only necessary to lower the mopping-cloth, as shown in Fig. 2, whereupon the apparatus may be used the same as an ordinary mop. Furthermore, as the device is reciprocated back and forth over a floor the cloth will alternately move beneath the opposite brushes, and thus it will have a cleansing action in both directions. Should the cloth become saturated with water, it may be easily wrung by placing it over a receptacle and passing the said cloth through the rolls. It will be apparent that the structure has a number of advantages. It may be used either as a scrubber or mop, and when employed in the latter relation its cleansing action will be the same during its movement in either direction. The moisture may be readily eliminated from the cloth, and the wringing mechanism also serves

to hold said cloth both in its operative and in-operative positions. The entire structure, furthermore, is very simple and can be manufactured at comparatively small cost.

5 From the foregoing it is thought that the construction, operation, and many advantages of the herein-described invention will be apparent to those skilled in the art without further description, and it will be understood
10 that various changes in the size, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

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

1. In apparatus of the class described, the combination with a support, of spaced brushes
20 mounted upon the support, and a mop secured in the space between the brushes and alternately movable beneath them upon the movement of the support.

2. In apparatus of the class described, the combination with a support, of brushes mounted
25 upon the support and having a space between them arranged to receive a mop, and holding means for the mop mounted upon the support over the space, said means also forming wringing mechanism for the mop.
30

3. In apparatus of the class described, the combination with a support, of brushes secured to the support and having a space between them arranged to receive a mop, and
35 mop-holding means arranged upon the base over the opening.

4. In apparatus of the class described, the combination with a supporting-base having an opening therethrough, of brushes secured beneath the base on opposite sides of the opening
40 and having a space between them which

alines with the opening, and mop-holding means comprising spaced frames mounted upon the base transversely of the opening, and mop-engaging rolls journaled upon the frame. 45

5. In apparatus of the class described, the combination with a supporting-base having an opening therethrough, of a brush arranged on the under side of the base, spaced frames located upon the base transversely of the opening
50 and having longitudinally-disposed guideways, journal-boxes slidably mounted in the guideways, springs interposed between the boxes, adjusting-screws journaled in the frames and bearing against the boxes, and rolls journaled in the boxes, said rolls being
55 arranged to engage a mop which can be disposed in coacting relation with the brush.

6. In apparatus of the class described, the combination with a supporting-base having an
60 opening therethrough, of brushes secured to the under face of the base, spaced frames mounted upon the base transversely of the opening, rolls journaled upon the frames and arranged to engage a mop placed between and
65 coacting with the brushes, and a handle pivoted to the frames.

7. In apparatus of the class described, the combination with a supporting-base having an opening therethrough, of spaced brushes secured to the base on opposite sides of the opening, and mop-engaging mechanism mounted on the base and including rolls separated by a space which alines with the opening in the base, and an operating-handle. 75

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

LOUISE WAGENER.

Witnesses:

D. H. DOIG,
A. K. PETERSON.