

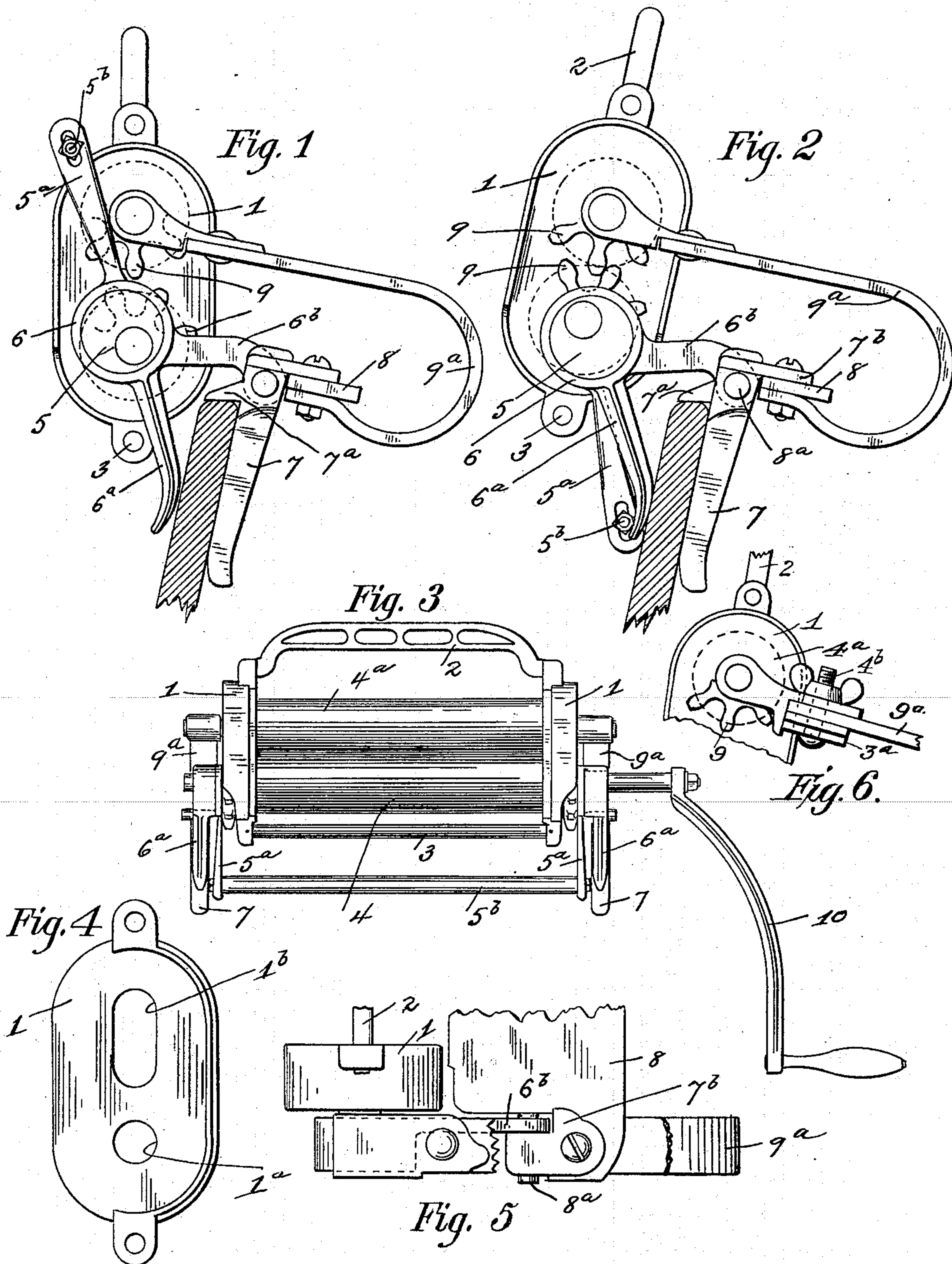
No. 615,312.

Patented Dec. 6, 1898.

C. P. SEARLES.
WRINGER.

(Application filed Sept. 10, 1898.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

CHARLES P. SEARLES, OF COLUMBUS, OHIO.

WRINGER.

SPECIFICATION forming part of Letters Patent No. 615,312, dated December 6, 1898.

Application filed September 10, 1898. Serial No. 690,677. (No model.)

To all whom it may concern:

Be it known that I, CHARLES P. SEARLES, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Wringers; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as it appertains to make and use the same.

The object of my invention is to provide an improved wringer in which the wringer is clamped to the tub and the rolls brought together by a single operation.

My invention is embodied in the construction hereinafter set forth and claimed.

In the annexed drawings, Figure 1 is an end view in elevation of the wringer as seen when placed on the edge of the tub, but unclamped thereto. Fig. 2 is a similar view of the wringer as seen when clamped to the tub. Fig. 3 is a front view in elevation. Fig. 4 is a detail view of the inner side of an end piece of the frame, said piece containing the gears and having bearings for the rollers. Fig. 5 is a top plan view of one end of the wringer, the spring being broken away to show the form and location of the parts below; and Fig. 6 is a detail showing means for adjusting the bearings of the upper roller.

The roller-frame is made up chiefly of the end pieces 1 with upper and lower tie-bars 2 and 3, respectively, the former being adapted to be used as a handle for lifting the wringer. Each of the end pieces has a circular bearing 1^a and an elongated bearing 1^b for the lower and upper rollers 4 and 4^a, respectively. Each end of both rollers has secured thereto gears 9, adapted at the proper time to mesh with each other. Each end of the shaft of the lower roller has placed loosely thereon an eccentric or cam 5, having an arm 5^a for rocking the same on the shaft, and on each eccentric is loosely placed a collar 6, having a downwardly-extending tub-clamping leg 6^a and a horizontally outwardly extending arm 6^b, the latter having an opening or bearing to receive a stud 8^a on an apron 8. On each of these studs 8^a is also placed a downwardly-extending tub-clamping leg 7, having an inwardly-extending shoulder 7^a to rest on the edge of the tub, and an outwardly-extending

portion 7^b, to which is bolted the aforesaid apron 8 and the lower end of a strong curved spring 9^a. The upper end of each of these springs is provided with a bearing adjustable, if desired, for the reception of the shaft of the upper roller 4^a. These bearings are adjusted by means of washers 3^a and screws 4^b, as shown in Fig. 6. The arms 5^a of the eccentrics are connected by means of a bar 5^b, which serves as a handle, by means of which both eccentrics may be turned simultaneously. A handled crank 10 is shown in Fig. 3 to be secured to the prolonged shaft of the lower roller 4.

When the wringer is to be attached to the tub, the tie-bar or handle 5^b is raised, as seen in Fig. 1, permitting a sufficient separation of the clamping-legs to permit their straddling the edge of the tub, and by then depressing the tie-bar or handle 5^b the tub will be firmly clamped between the legs. It will be noted that when the eccentrics are turned down in this operation the frame, including the side pieces or gear-cases and lower roller, is forced up and the lower roller against the upper one, it being remembered that the bearings of the upper roller in the gear-cases are elongated, and when the device is on the tub, as seen in Figs. 1 and 2, the upper roller remains relatively stationary in the ends of the spring. In other words, the lower roller is forced up against the upper roller under pressure of the spring, and the pressure of the spring therefore holds the rolls together and is also transmitted to the inner legs 6^a, holding them against the tub, and when the lower roller is forced up its gears are of course brought into mesh with those of the upper roller.

What I claim, and desire to secure by Letters Patent, is—

1. In a wringer, a movable frame carrying a roller movable therewith, a spring carrying the opposing roller and a leg to engage one side of the tub, an eccentric on the shaft of the first-mentioned roller, a clamping-leg movable on said eccentric, and means for operating said eccentric to move the frame and its roller against the pressure of the spring, substantially as set forth.

2. In a wringer, a spring carrying a relatively stationary roller and a stationary

clamping-leg, a frame carrying a movable roller and a movable clamping-leg, and an eccentric adapted to move the movable roller against the stationary roller and the movable leg toward the stationary leg, substantially as described.

3. In a wringer, a movable frame carrying a roller movable therewith and having elongated slots 1^b, a spring carrying an opposing roller, the shaft of said roller entering the slots, a leg to engage one side of the tub, an eccentric loose on the shaft of the first-men-

tioned roller, a clamping-leg 6^a to engage the other side of the tub having a collar 6 loose on the eccentric, and means for operating the eccentric, substantially as shown and described. 15

In testimony whereof I have hereunto subscribed my name in the presence of two witnesses.

CHARLES P. SEARLES.

Witnesses:

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