

(No Model.)

M. F. PELLETIER & J. KROC.

DEVICE FOR CORRUGATING WASH TUBS.

No. 370,491.

Patented Sept. 27, 1887.

FIG. I.

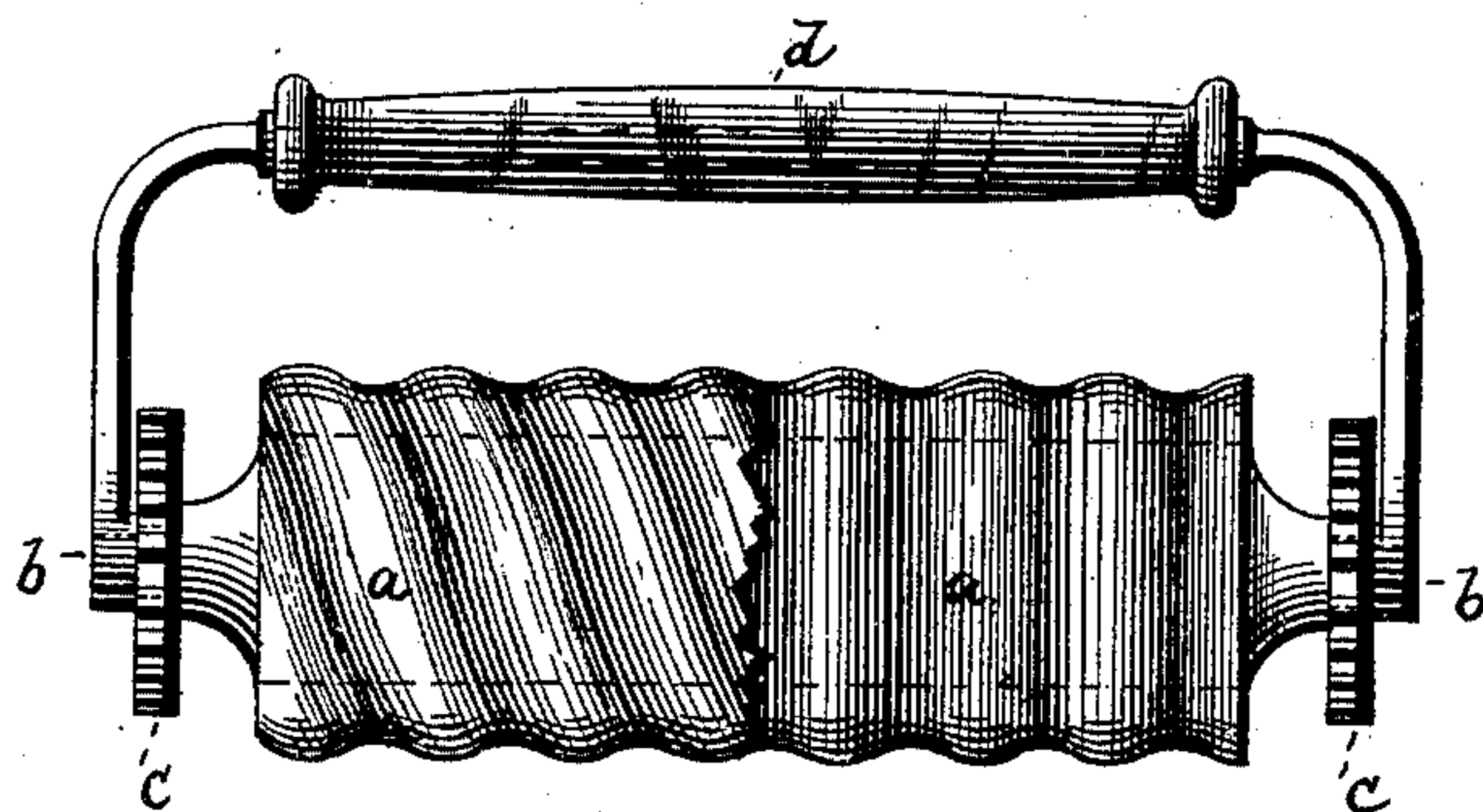


FIG. II.

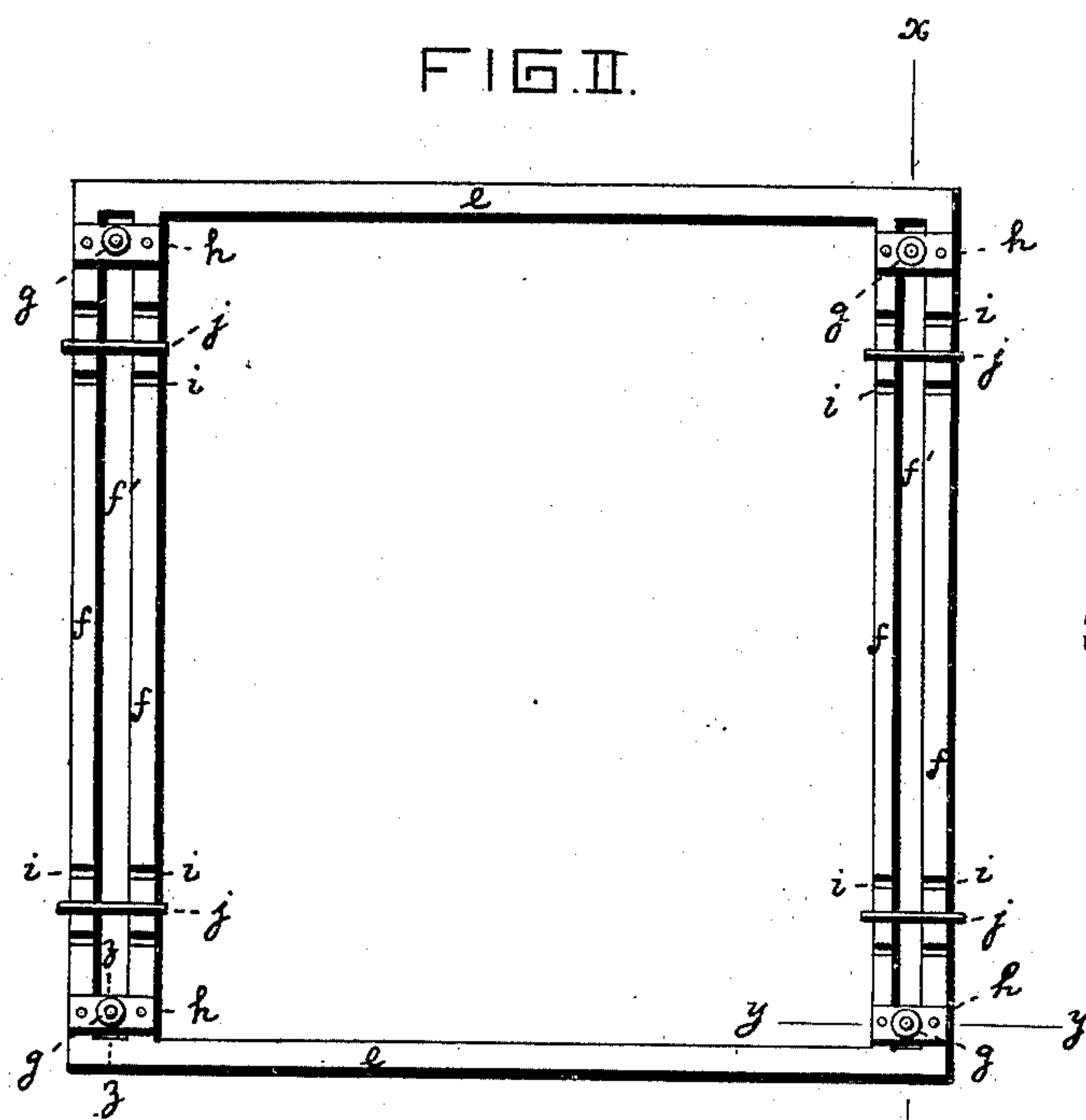


FIG. III.

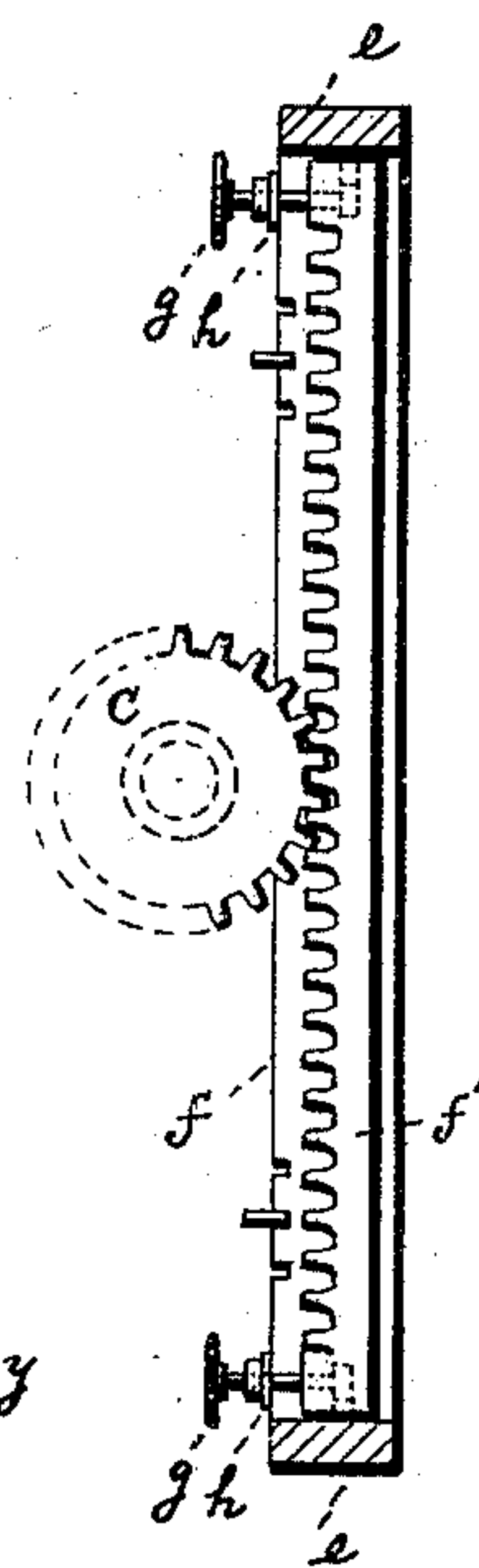


FIG. IV.

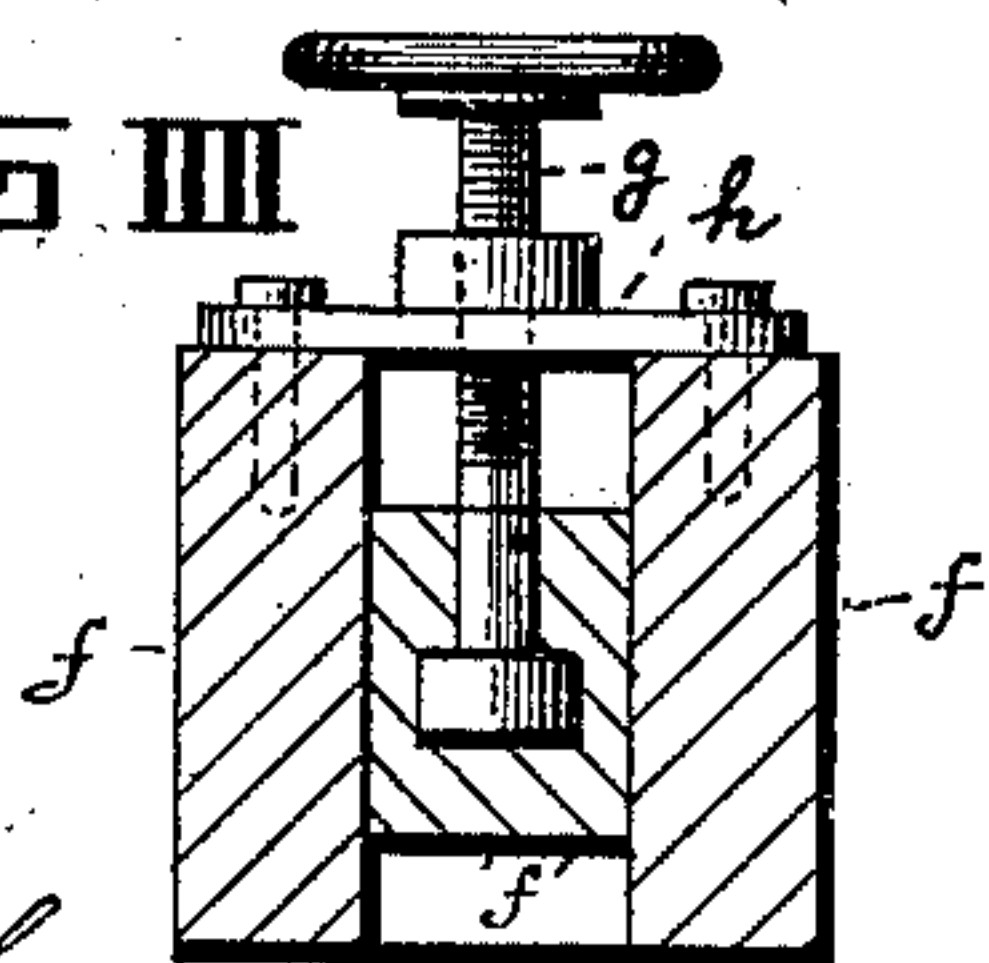
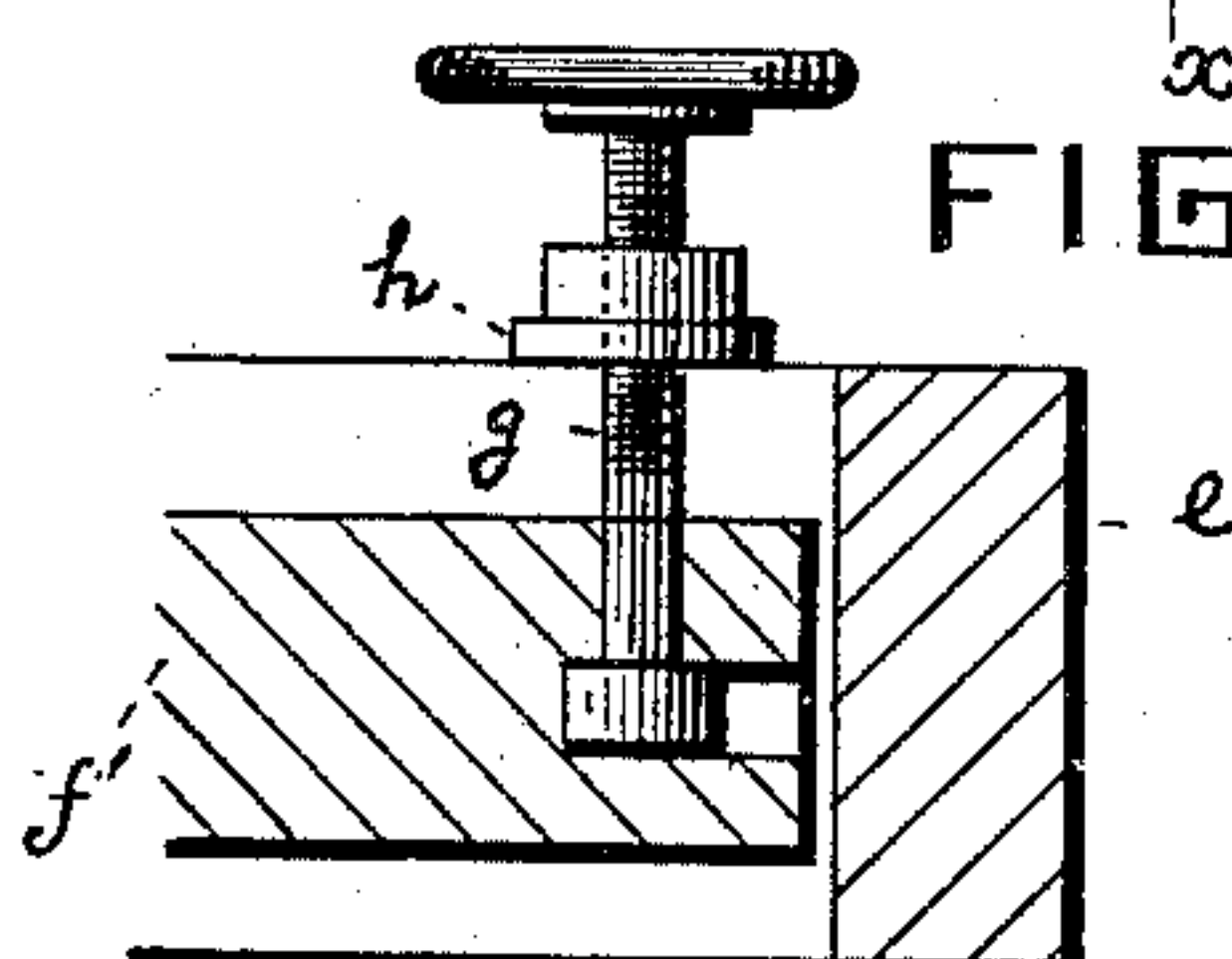


FIG. V.



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# UNITED STATES PATENT OFFICE.

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## DEVICE FOR CORRUGATING WASH-TUBS.

SPECIFICATION forming part of Letters Patent No. 370,491, dated September 27, 1887.

Application filed April 27, 1887. Serial No. 236,352. (No model.)

*To all whom it may concern:*

Be it known that we, MARX F. PELLETIER and JOSEPH KROC, both citizens of Germany, the former residing in Brooklyn, county of Kings, State of New York, and the latter in Philadelphia, Pennsylvania, have invented a new and Improved Hand-Roller, of which the following is a specification.

This invention relates to a hand-roller which is designed more particularly to form a corrugated inner surface upon a clay wash-tub, thus making the wash-board in one piece with the wash-tub. The hand-roller is used in combination with an adjustable frame upon which the roller is guided, and which is placed upon the surface to be operated upon.

The invention consists in the various features of improvement more fully pointed out in the claim.

In the accompanying drawings, Figure I represents a side elevation of our improved hand-roller. Fig. II is a top view of the frame. Fig. III is a section on line  $x x$ , Fig. II. Fig. IV is an enlarged section on line  $y y$ , Fig. II; and Fig. V, an enlarged section on line  $z z$ , Fig. II.

The letter  $a$  represents a roller corrugated or otherwise shaped at its surface to produce a wash-board when passed over a plastic surface. We prefer to make the roller  $a$  of an iron core and of a plaster-of-paris envelope. Upon the axle  $b$  of roller  $a$  there are hung two wheels,  $c$ , and the two ends of the axle are joined to a handle,  $d$ .

In order to properly guide the roller over the surface to be corrugated, we employ a frame consisting of two rails,  $f$ , connected by cross-pieces  $e$ . Each rail  $f$  is designed to support one of the wheels  $c$  upon its tread  $f'$ .

This tread is not made in one piece with the rail-flanges, but is an independent piece, adapted to be raised or lowered at either end. To this effect we employ set-screws  $g$ , engaging screw-tapped plates  $h$ , and having an enlarged lower end that engages an opening in the end of tread  $f'$ . Thus by turning either of the screws  $g$  it will either raise or lower the end of tread  $f'$ .

The tread  $f'$  may be made in the form of a rack, in which case the wheels  $c$  must be toothed.

The flanges of the rails  $f$  are notched in line with each other near each end, as shown at  $i$ , to receive stop-plates  $j$ , which limit the motion of the wheels  $c$ . By means of these stop-plates the length of the wash-board to be formed may be altered.

In use the frame is placed upon the inner face of the inclined forward side of the wash-tub, one rail being on top and one at the bottom. At this stage such inner face is made approximately smooth in suitable manner. The hand-roller is now placed across the frame so that the wheels  $c$  enter between the rail-flanges. The roller is now conducted backward and forward between the rails until the face is corrugated to the desired depth, when the wheels  $c$  will bear tightly upon the treads  $f'$ , and a further deepening of the corrugations will thereby be prevented.

If it should be found that the surface is not uniformly corrugated, owing to a defective preparation of the same, the defect can be remedied by adjusting the screws  $g$ , when the treads  $f'$  may be lowered at such points where the corrugations are too shallow. On a reapplication of the roller a perfectly-corrugated surface may now be produced.

What we claim is—

The combination of a hand-roller having wheels  $c$  with an open frame consisting of rails  $f$  and cross-pieces  $e$ , the rails  $f$  having adjustable treads  $f'$ , and with the set-screws  $g$ , engaging the ends of the treads and passing through the screw-tapped plates  $h$ , substantially as specified.

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