

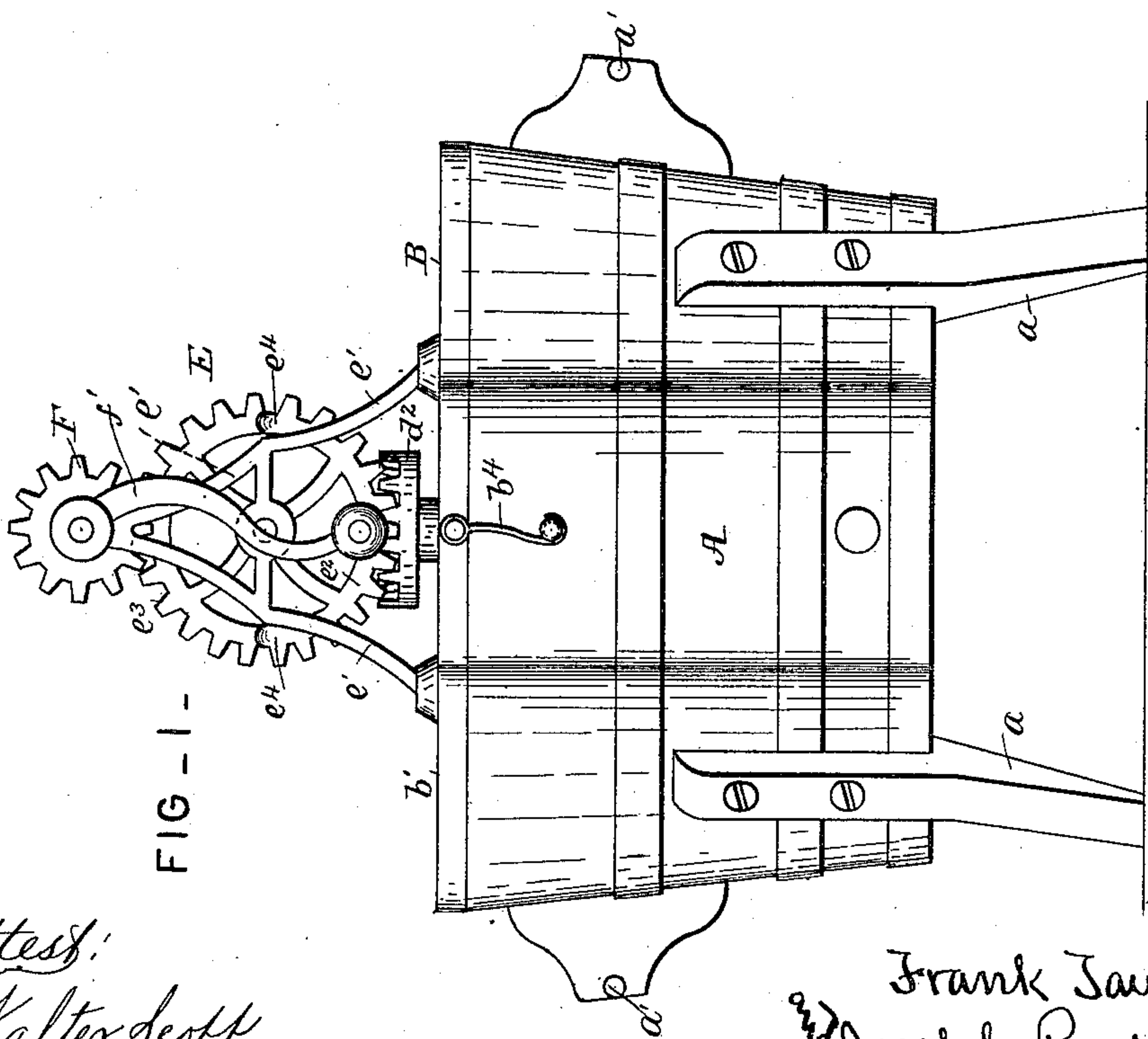
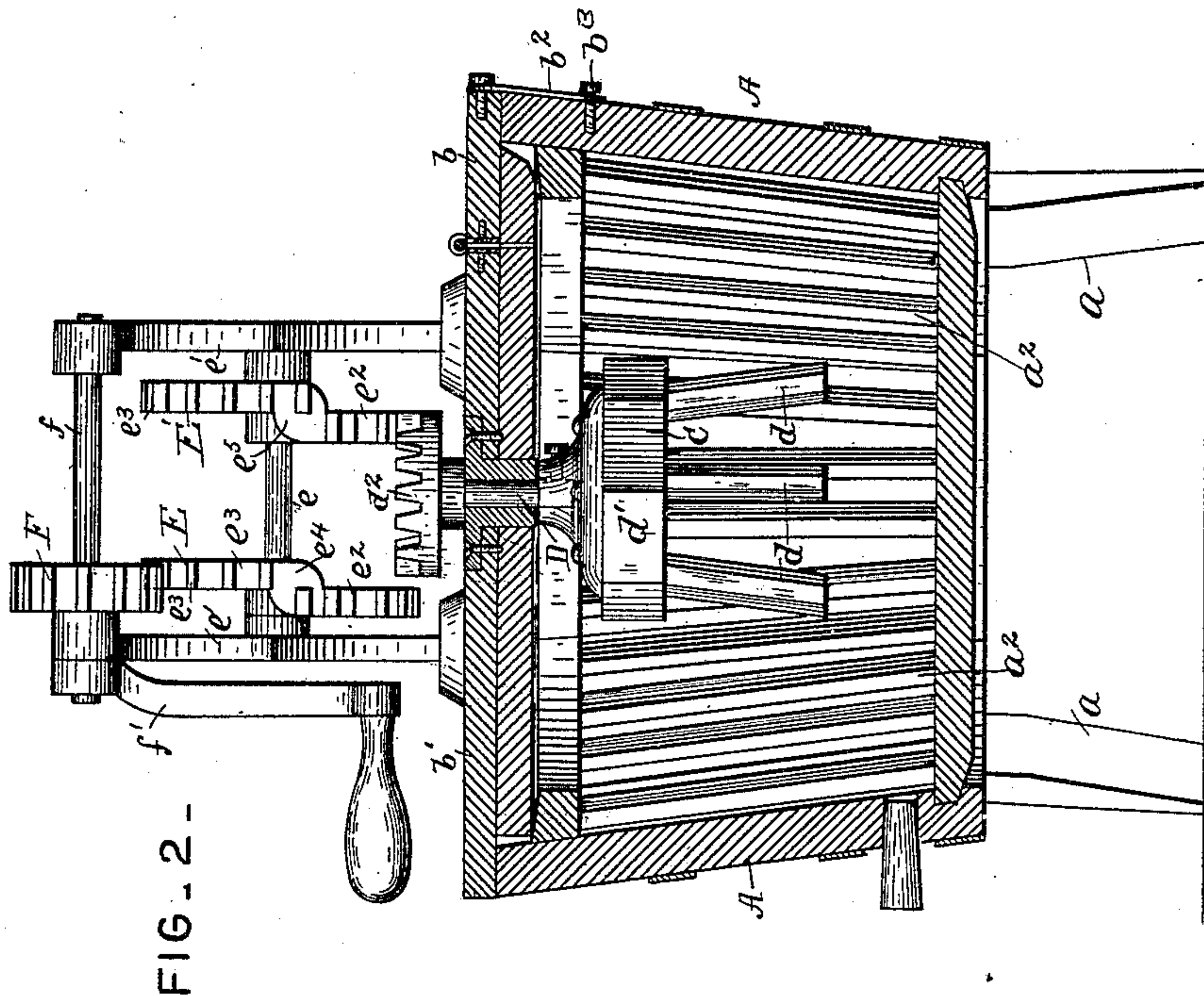
(No Model.)

2 Sheets—Sheet 1.

F. TAYLOR & J. RODERICK.
WASHING MACHINE.

No. 428,975.

Patented May 27, 1890.



Attest:
Walter Scott.
D. P. Brandenburg.

Inventors
Frank Taylor
Joseph Roderick
By Rainer & Sons,
attys.

(No Model.)

2 Sheets—Sheet 2.

F. TAYLOR & J. RODERICK.
WASHING MACHINE.

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FIG -4-

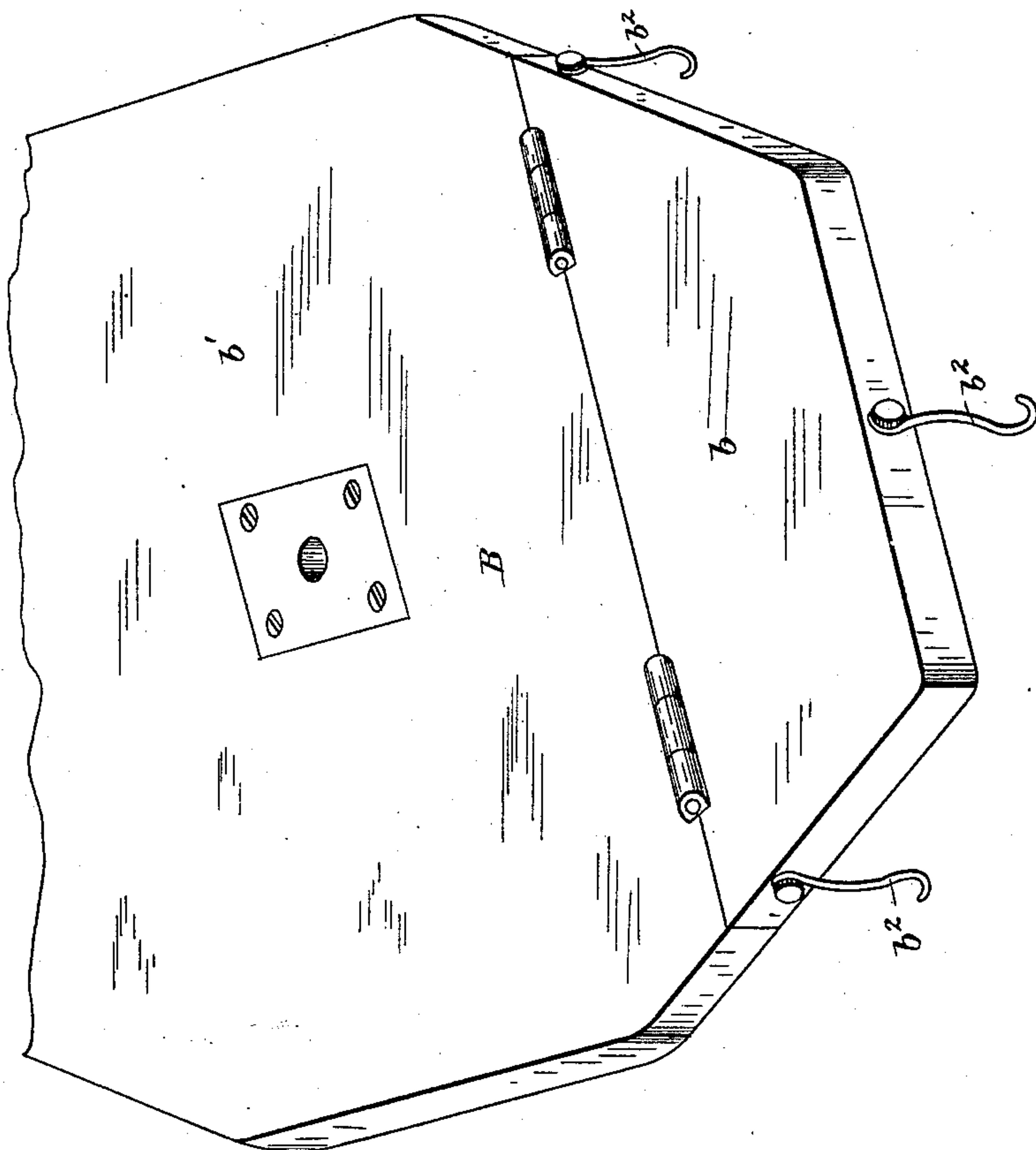
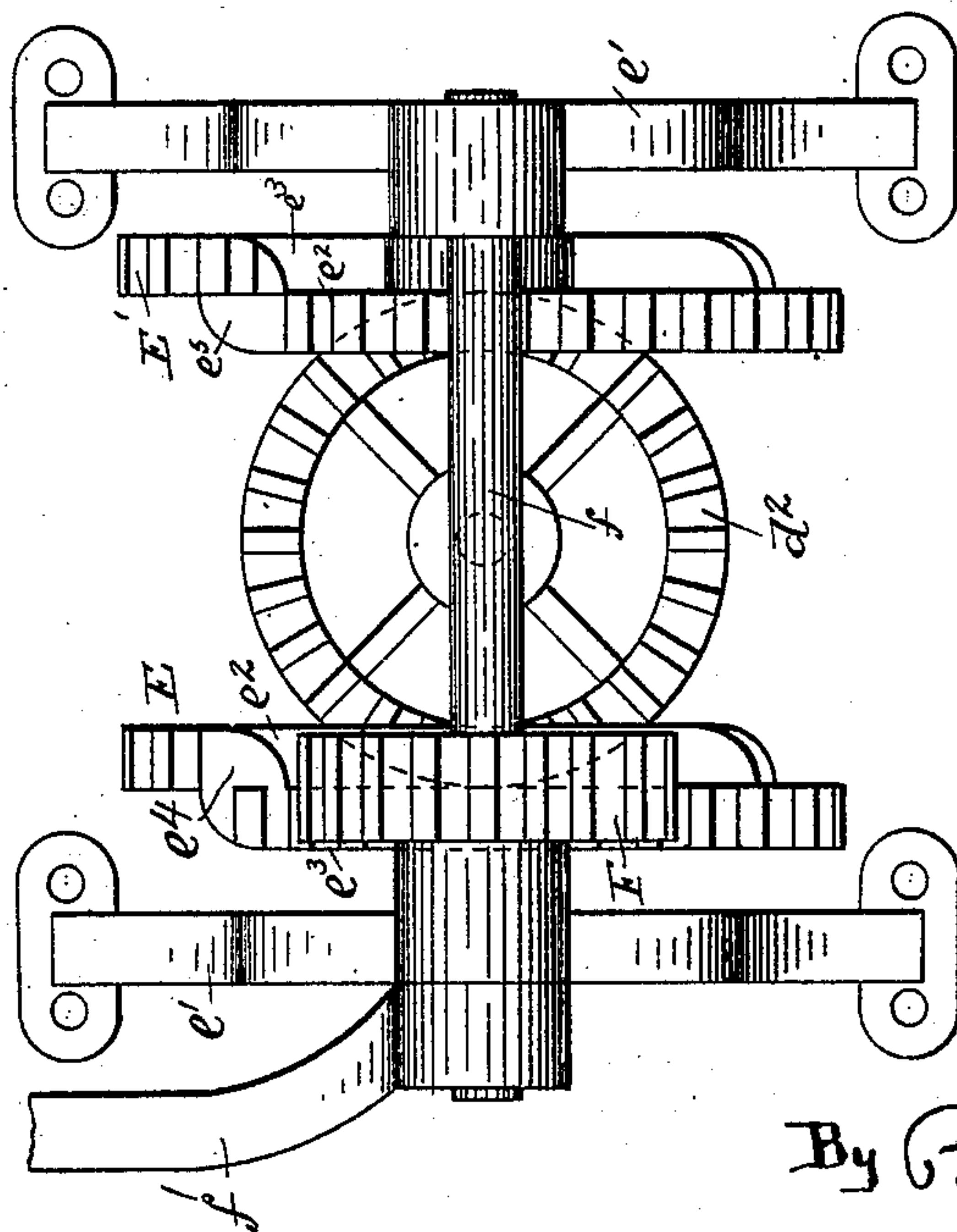


FIG -3-



Attest:
Walter Scott
D. P. Brandenburg

Inventors
Frank Taylor and
Joseph Roderick
By Paine & Ladd,
attys

UNITED STATES PATENT OFFICE.

FRANK TAYLOR, OF LEWISTON, AND JOSEPH RODERICK, OF FARMINGTON,
ASSIGNORS OF ONE-THIRD TO ENOCH O. GREENLEAF, OF FARMINGTON,
MAINE.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 428,975, dated May 27, 1890.

Application filed May 13, 1889. Renewed April 26 1890. Serial No. 349,614. (No model.)

To all whom it may concern:

Be it known that we, FRANK TAYLOR, a citizen of the French Republic, and JOSEPH RODERICK, a citizen of the United States, said TAYLOR residing at Lewiston, in the county of Androscoggin and State of Maine, and said RODERICK residing at Farmington, county of Franklin, State of Maine, have invented certain new and useful Improvements in Washing-Machines; and we 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 letters of reference marked thereon, which form a part of this specification.

This invention pertains to certain new and useful improvements in washing-machines, having for its object the production of a simple and inexpensive as well as durable machine of this class, comprising improved and highly efficient gearing for imparting a reciprocating movement to the agitator, the operating-crank being continuously turned in one direction.

The invention comprises the details of construction, combination, and arrangement of parts, substantially as hereinafter fully set forth.

In the accompanying drawings, Figure 1 is a front elevation of our improved washing-machine. Fig. 2 is a vertical sectional view. Fig. 3 is an enlarged detail view of the gearing. Fig. 4 is a view showing a portion of the sectional cover, parts being broken away.

Referring to the drawings, A designates the tub or receptacle of any polygonal shape, a the supporting-legs therefor, and a' a' the opposite side handles. The inner walls of this tub have spaced-apart bars a² secured thereto, as shown.

B is the removable cover, composed of two sections b b', the former being rigidly secured to tub A by three (more or less) hooks b² engaging studs b³. The section or lid b' is hinged to section b, so as to be raised or lowered, and can be held closed by a hook b⁴, as shown.

The agitator C is composed preferably of a series of arms d projecting from a head d' attached to the lower end of a shaft D, pro-

jected through an aperture in lid b', and provided on its upper end with a toothed wheel or pinion d².

E E' are two gear-wheels of peculiar construction fast upon a shaft e, journaled in brackets e' e', secured to lid or cover b'. Each of these wheels has two offset toothed portions or sections e² e³, adjacent inner and outer segmental or toothless surfaces e⁴ e⁵, as shown. With one of these wheels E gears a pinion F, secured upon a shaft f, supported by brackets e', and provided with a crank-handle f'. This pinion alternately engages the toothed sections e² e³ of wheel E, and by turning the crank-handle motion is transmitted to the agitator through the wheel d².

By means of the peculiar construction of wheels E E' a reciprocal motion is transmitted to the agitator, the inner toothed section of the wheels E E' alternately engaging the wheel or pinion d², while the crank-handle, as well as said wheels, is turned in one continuous direction.

One of the many advantages of the gear-wheels thus constructed is that in the event of the teeth of one section being broken or damaged the wheels can be adjusted on their shaft so as to provide for the alternate engagement of the toothed sections of the gear-wheels. The wheel or pinion F, located above and always in engagement with one of the gear-wheels, gives an increased leverage and greater power to the agitator.

We claim as our invention—

The combination, with the tub, the agitator having a toothed wheel, and the supporting-brackets, of the gear-wheels having offset toothed sections, the shaft upon which said wheels are secured, the upper wheel or pinion gearing with one of said gear-wheels, and the shaft having a crank-handle, substantially as set forth.

In testimony whereof we affix our signatures in presence of two witnesses:

FRANK ^{his} TAYLOR.
mark.

JOSEPH RODERICK.

Witnesses:

W. H. JUDKINS,
Z. W. FALES.