

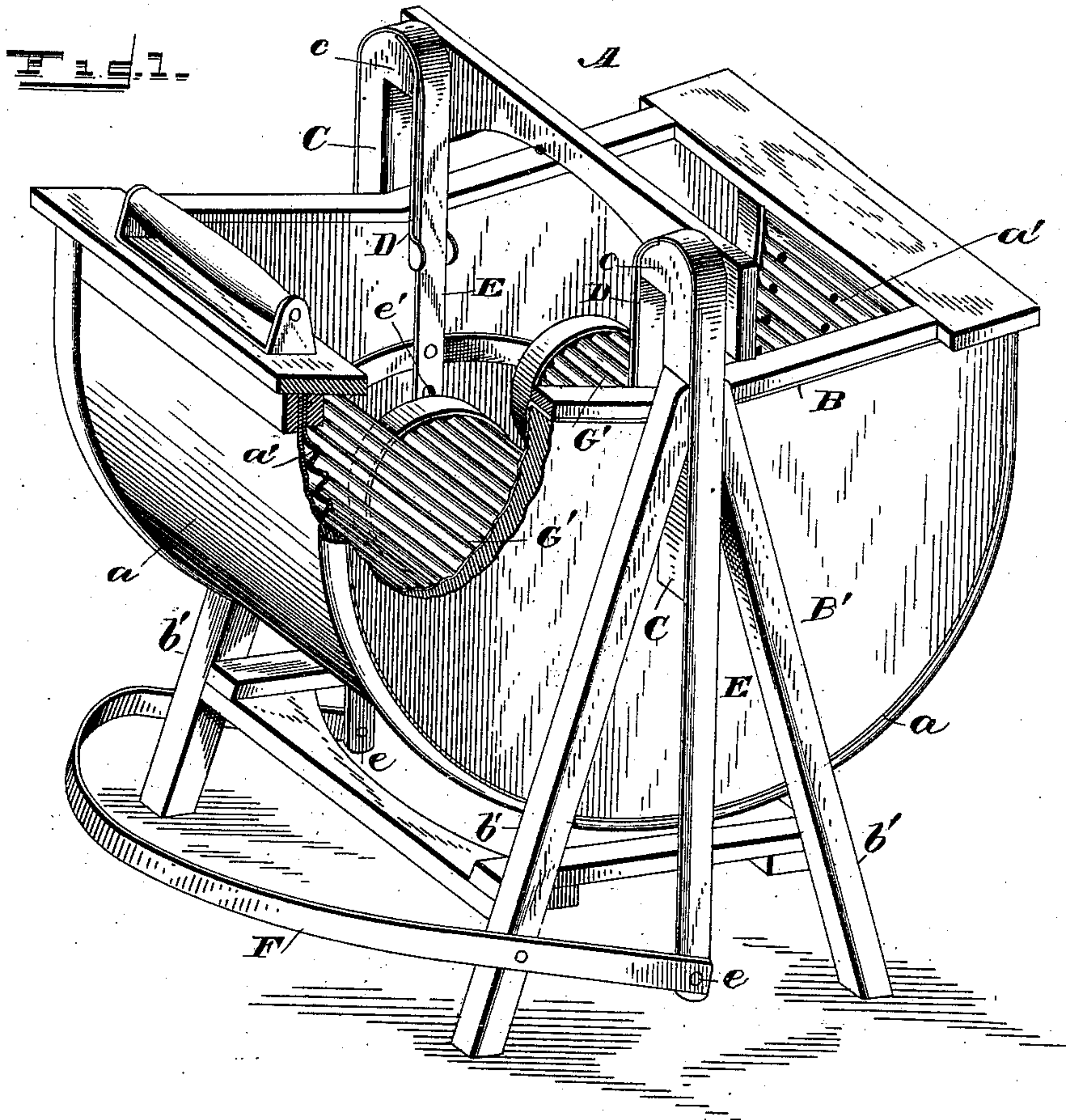
(Model.)

2 Sheets—Sheet 1.

W. E. WASHBURN.
WASHING MACHINE.

No. 358,310.

Patented Feb. 22, 1887.



William E Washburn.

INVENTOR

Attorney

WITNESSES

G. S. Elliott.
E. M. Johnson

(Model.)

2 Sheets—Sheet 2.

W. E. WASHBURN.

WASHING MACHINE.

No. 358,310.

Patented Feb. 22, 1887.

Fig. 2.

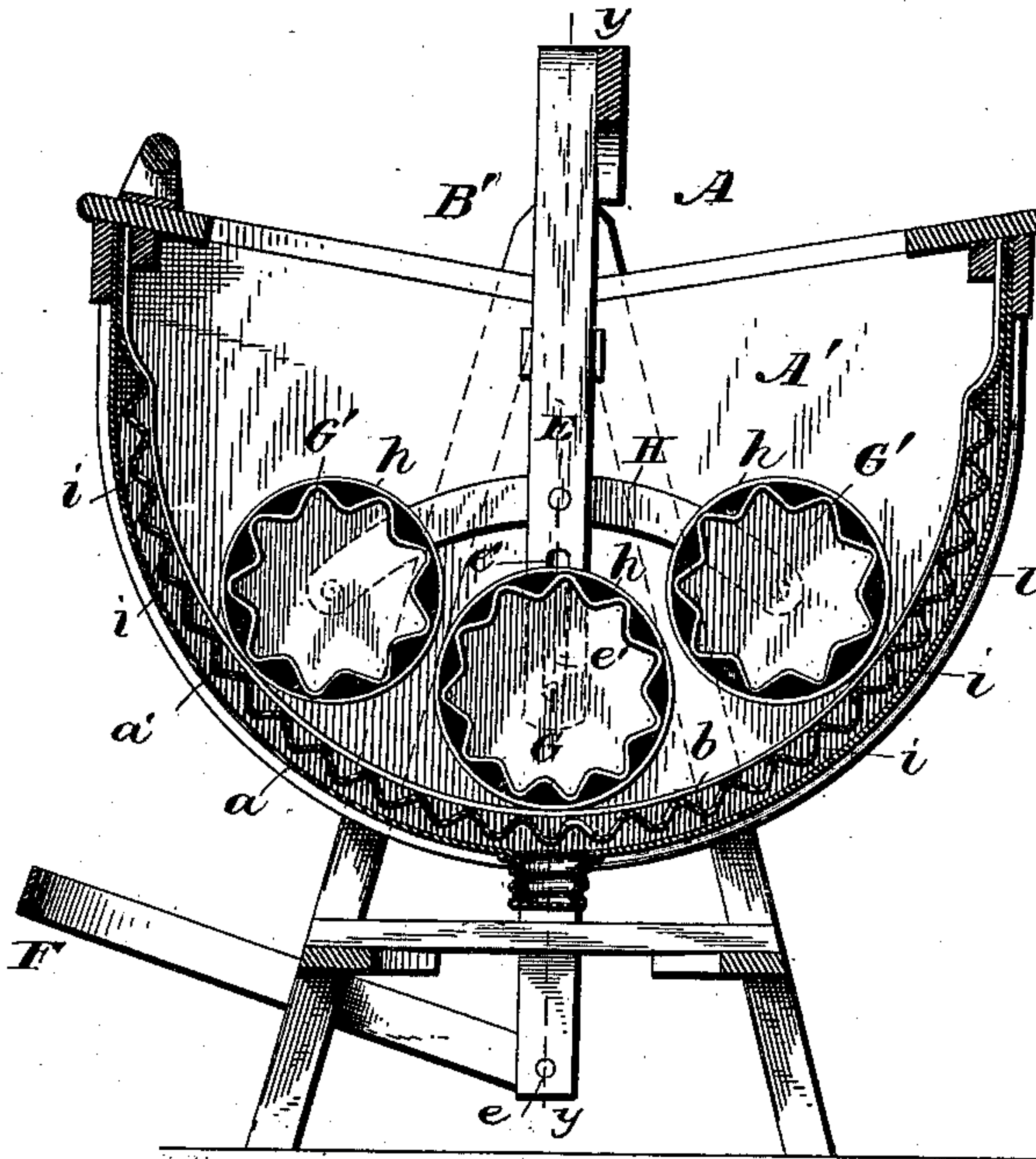
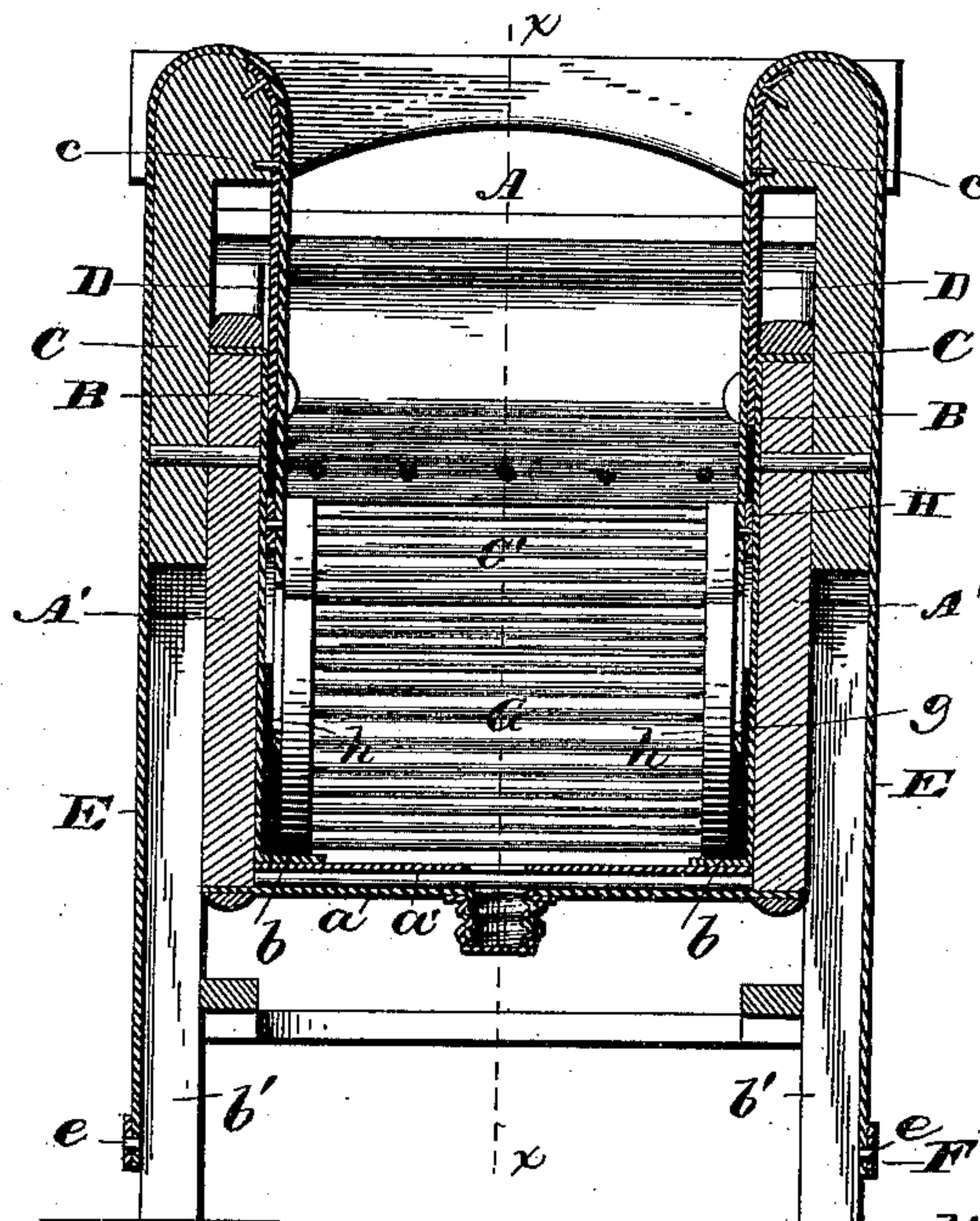


Fig. 3.



William E Washburn

INVENTOR

Attorney

WITNESSES

G. S. Elliott,
E. M. Johnson

UNITED STATES PATENT OFFICE.

WILLIAM E. WASHBURN, OF MEDIA, KANSAS.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 358,310, dated February 22, 1887.

Application filed April 8, 1884. Serial No. 127,063. (Model.)

To all whom it may concern:

Be it known that I, WILLIAM E. WASHBURN, a citizen of the United States, residing at Media, in the county of Douglas and State of Kansas, have invented certain new and useful Improvements in Washing-Machines; and I 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.

My invention relates to certain new and useful improvements in washing-machines; and it consists in the construction and combination of the parts, as will be hereinafter fully set forth, and specifically pointed out in the claims.

In the accompanying drawings, which illustrate my invention, Figure 1 is a perspective view, partly in section. Fig. 2 is a longitudinal section taken through the line *xx* of Fig. 3; and Fig. 3 is a transverse section taken through the line *yy* of Fig. 2.

A refers to the tub or suds-box, which consists of a semi-cylindrical vessel, the side pieces, *A'*, thereof being made of suitably rigid material, and at the centers these side pieces, *A'*, are pivotally attached to the supporting-frame. The tub *A* has a plain sheet-metal bottom, *a*, above which is secured the interior bottom, *a'*, which is made up of a transversely-corrugated sheet-metal plate, said plate being secured in position above the outer bottom, *a*, at a sufficient distance therefrom to provide a space or water-passage between the plates *a a'*. The corrugated plate *a'* is provided with a series of perforations, *i*, through which the water may pass as the tub is oscillated upon its pivot. The sides of the suds-box have plain metal plates *B*, attached thereto in any suitable manner, and the curved edge *b* thereof is bent inwardly, so as to be immediately above the corrugated bottom *a'*. One end of the suds-box is provided with a handle for reciprocating the same. The supporting-frame *B'*, to which the suds-box *A* is pivoted, consists of converging legs *b' b'*, which are attached to each other by a suitable frame or brace-bars, and between the upper edge of the legs are secured blocks *C*, and to said blocks the suds-box is directly pivoted. The upper end of the blocks *C* are rounded and have an inwardly-projecting portion, *c*, the upper edges of which

are about on a line with the inner sides of the suds-box *A*. To the upper portion of the blocks *C* is attached a transverse brace.

From the inner sides of the blocks *C* depend bars *D D*, the lower ends of which have inwardly-projecting ears, which serve as guides for the bar which carries the rubber.

E E refer to bars which are bent so that they will extend within the suds-box *A* and over the rounded portion of the blocks *C*, from which they extend to a pivoted bail, *F*, which is secured to the supporting-legs. The lower ends of the bars *E E* are perforated for the reception of pins *e e*, which connect the aforesaid bars with the ends of the bail *F*. The opposite ends of the bars *E E* are slotted longitudinally, as shown at *e' e'*, and in which slot the shaft *g* of the central rotary rubber, *G*, will have a bearing. Immediately above the slots *e' e'* curved bars *H H'* are pivotally attached, and to the ends of said curved bars are secured rubbers *G' G'*.

The rubbers *G G'* are preferably made up of corrugated cylinders, the ends of which are provided with caps *h*, the inturned ends of said caps bearing upon the inturned edges of the side pieces.

It will be noticed by the construction herebefore described that by depressing the bail *F* the rubbers will be raised, so that the clothes to be washed can be placed under the same, and that when the suds-box is oscillated the water will flow through the perforations *i* in the bottom thereof, so as to rapidly form suds, and also that by providing the suds-box with inwardly-turned sides and the rubbers with caps a guideway will be provided for the same, which will prevent the corrugated bottom and the rubbers contacting with each other so as to tear the clothes.

The curved bottom plates of the suds-box are provided with an opening and stopper for drawing off the water.

I claim—

1. In a washing-machine, a vibrating tub or suds-box provided with a corrugated bottom and guides which extend from the sides over the edges of said bottom, in combination with the corrugated rubbers with caps on their ends, substantially as shown.

2. In a washing-machine, a suds-box, *A*, piv-

oted to a supporting-frame and provided with
a corrugated bottom with guides for the roll-
ers, in combination with the vertically-mov-
able bars connected at one of their ends to a
5 pivoted bail, the opposite ends being slotted
for the reception of a roller, G, curved bars
pivoted centrally to the adjustable bars and
carrying rollers G' G', and depending bars D,

with inwardly-projecting guides, the parts be-
ing organized substantially as shown. 10

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

WILLIAM E. WASHBURN.

Witnesses:

L. F. GREEN,

A. A. B. CAVANESS.