

(Model.)

2 Sheets—Sheet 1.

H. TYLER.
Washing Machine.

No. 239,889.

Patented April 5, 1881.

Fig. 1.

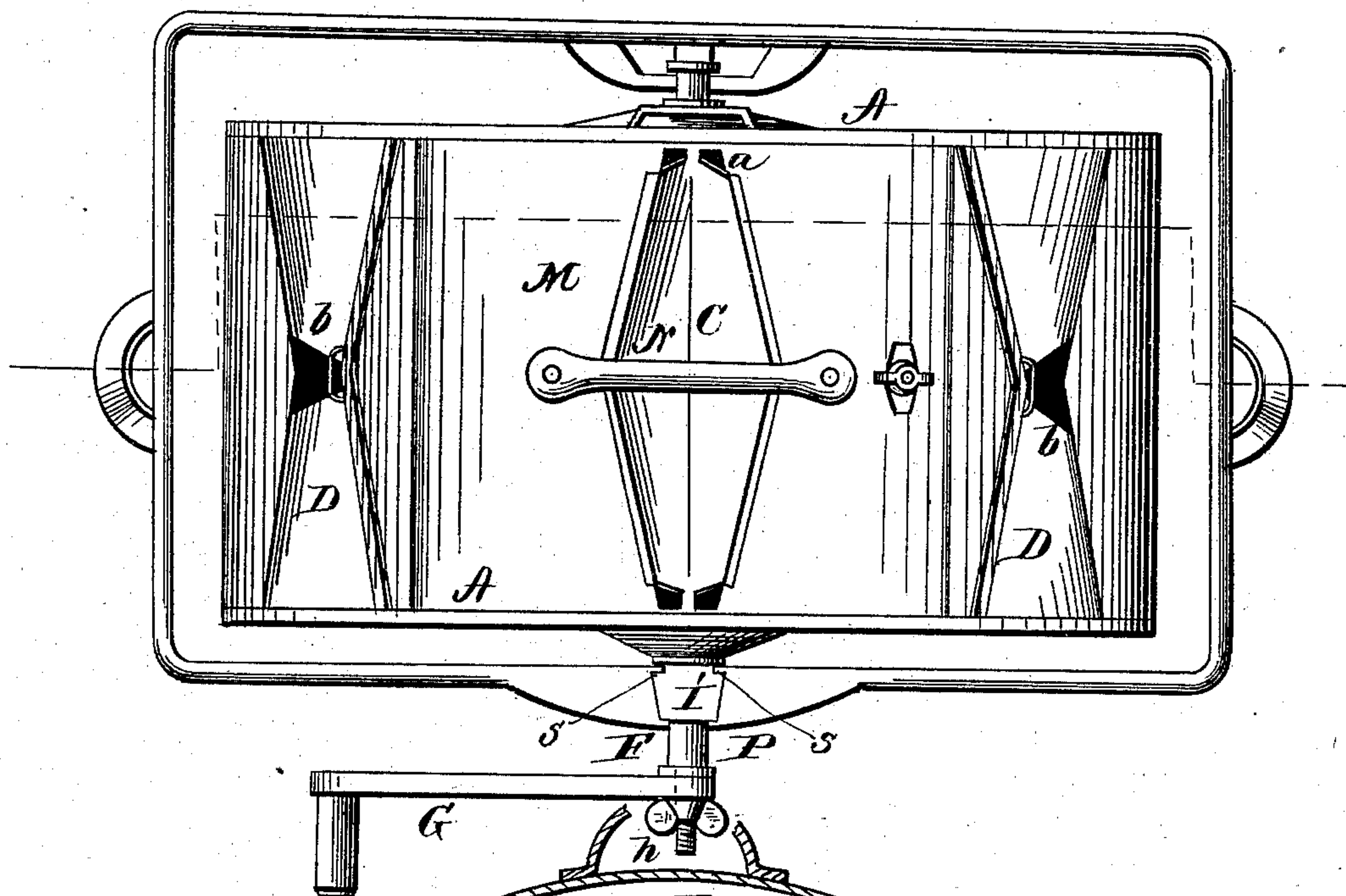
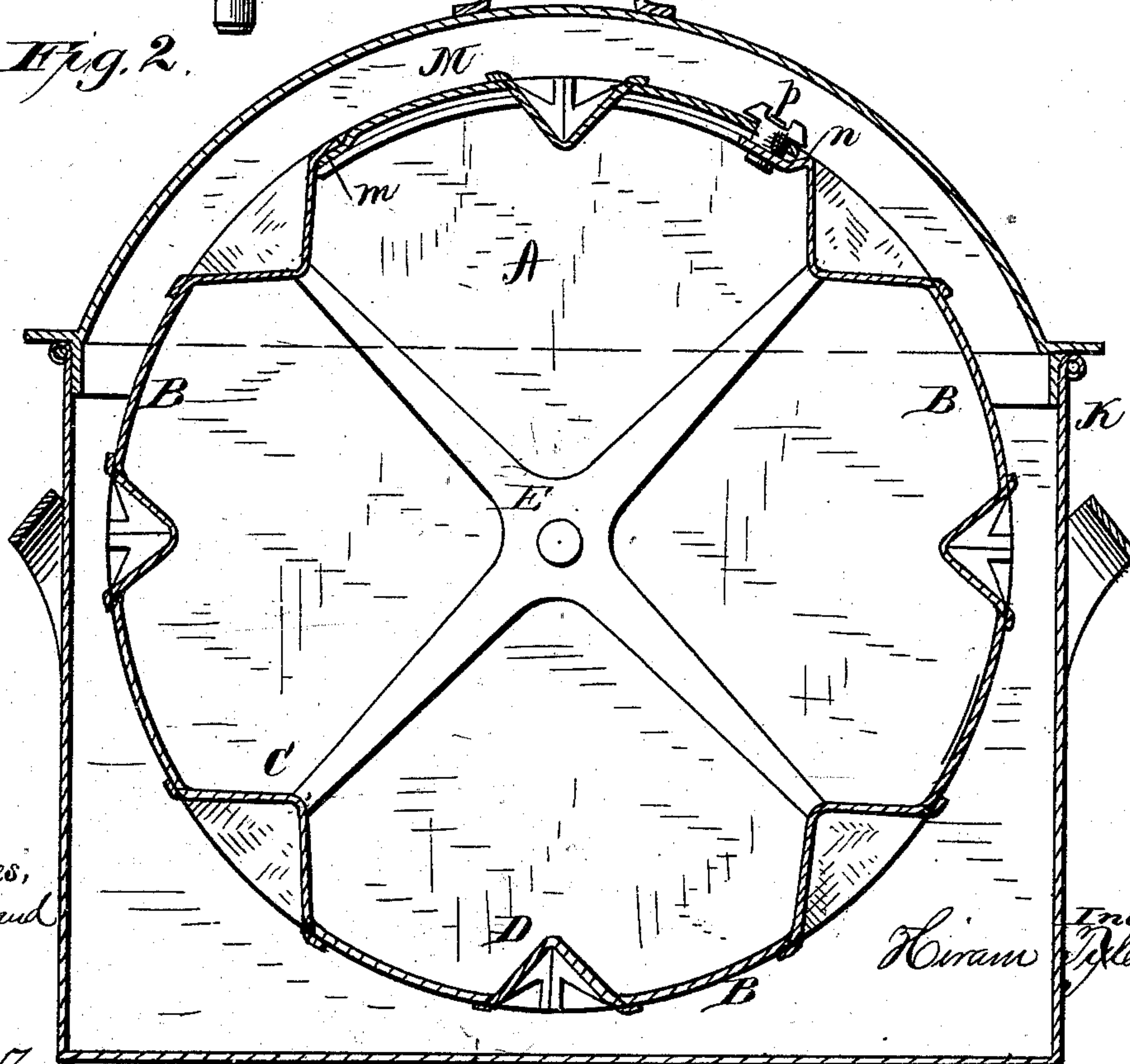


Fig. 2.



Witnesses,
A. L. Giraud

Hiram Telfer

H. Aubrey Faulstich.

By Alexander Mason atty

(Model.)

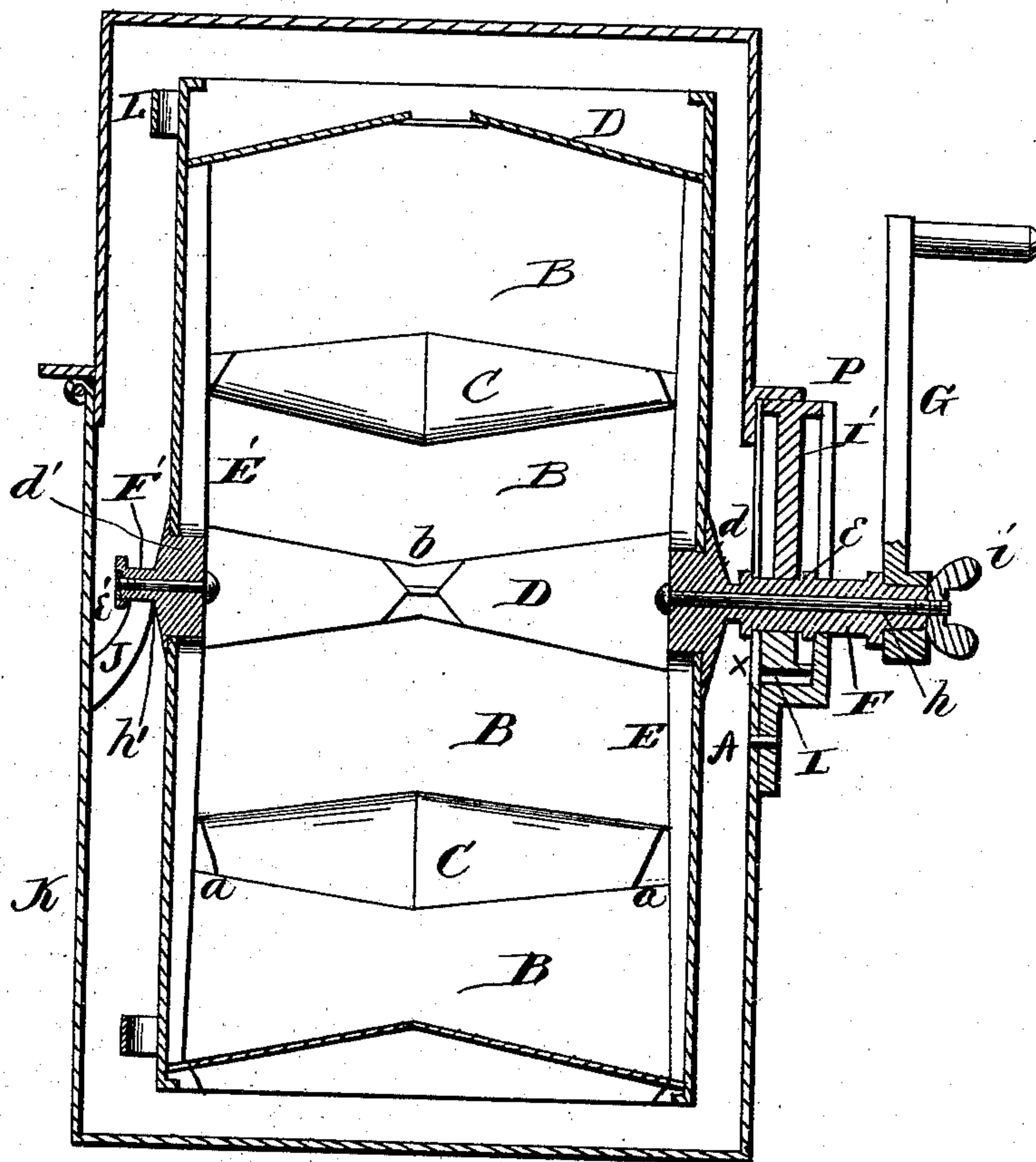
2 Sheets—Sheet 2.

H. TYLER.
Washing Machine.

No. 239,889.

Patented April 5, 1881.

Fig. 3.



Witnesses.
H. L. Ouraud

H. Aubrey Toulmin

Inventor.
Hiram Tyler

By Alexander M. Madsen
att'y

UNITED STATES PATENT OFFICE.

HIRAM TYLER, OF GENESEO, NEW YORK.

WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 239,889, dated April 5, 1881.

Application filed July 6, 1880. (Model.)

To all whom it may concern:

Be it known that I, HIRAM TYLER, of Gene-
seo, in the county of Livingston, and in the State
of New York, have invented certain new and
5 useful Improvements in Washing-Machines;
and I do hereby declare that the following is
a full, clear, and exact description thereof, ref-
erence being had to the accompanying draw-
ings, and to the letters of reference marked
10 thereon, making a part of this specification.

The nature of my invention consists in the
construction and arrangement of a washing-
machine, as will be hereinafter more fully set
forth.

15 In order to enable others skilled in the art
to which my invention appertains to make and
use the same, I will now proceed to describe
its construction and operation, referring to the
annexed drawings, in which—

20 Figure 1 is a plan view of my washing-ma-
chine with the cover of the boiler removed.
Fig. 2 is a longitudinal vertical section, and
Fig. 3 is a transverse vertical section, of the
same.

25 The washing-cylinder is composed of two
circular heads, A A, having a series of sections,
B, attached to them at their peripheries. These
sections are at suitable distances apart, and
are shaped to correspond with the conforma-
30 tion of the buckets C and D, which are ar-
ranged alternately, as shown. The buckets C
are made wider in the center and taper gradu-
ally toward the ends. They are also deeper
in the center, so as to be higher on the inside,
35 and then become gradually shallower toward
the ends. At each end of the bucket C is an
opening, *a*. The buckets D are made just the
reverse, with an opening, *b*, in the center, as
shown. As the fabric passes over the bucket
40 C it throws the pressure from the center to the
ends. The fabric then immediately strikes the
bucket D, which throws the pressure to the
center.

45 At one end of the cylinder is a four-pronged
support, E, and crank-shaft F. The said
crank-shaft is provided with a disk, *d*, which
is securely fastened to one head of cylinder,
and through said crank-shaft and disk is a lon-
50 gitudinal aperture, through which and the cyl-
inder-head passes a screw-bolt, which is pro-
vided at its inner end with a suitable head, and
at its outer end with a nut, *i*, by means of

which the crank is secured to the shaft. The
crank-shaft F is provided with a flange, *e*, that
works behind the lower bearing or box, I; and 55
this flange, with one on the opposite end, ef-
fectually ties the sides of the boiler, so as to
keep them from springing.

The letter F' indicates a journal, provided
with a disk similar to that on the crank-shaft, 60
which disk is securely fastened to the opposite
head of the cylinder. The said journal has a
longitudinal threaded aperture, into which one
end of the screw in passing through the cyl-
inder-head is secured. The said screw, as well 65
as the screw through the crank-shaft, serves to
strengthen the connection between the journal
and shaft and the respective heads. On the
same side of the cylinder is a handle, L, for
lifting the cylinder. 70

M is the cover of the cylinder, composed of
two sections similar to the sections B, con-
nected by one of the buckets C and by a bridge,
N, which forms a handle and support for the
cover. One of the permanent sections B of 75
the cylinder is omitted, leaving a space for the
removable cover M, one end of which is
adapted to set under the edge of the section
B at one side of the opening, as shown at *m*,
and the other to rest upon the edge of the sec- 80
tion B at the opposite side of said opening,
as shown at *n*. This end of the cover is pro-
vided with a mortise which slips over a but-
ton, *p*, when turned one way, and by turning
in the opposite direction fastens the cover 85
firmly down.

On one side of the boiler K is attached a
box, P. The boiler is cut away and bent over
so as to form a shoulder, *s*, and effectually hold
the slide-boxes I I'. The slide-box I is cut out 90
at the bottom and outer side, as shown at *x*, so
as to allow the drip-water to run back into the
boiler. The upper slide-box, I', is to prevent
the soap-bubbles from running through and
causing a leak. 95

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

1. A washing-machine cylinder composed of
the heads A A, sections B, and alternate se- 100
ries of buckets C and D, the bucket C being
wider and deeper at the center and tapering
toward the ends, and having openings at the
ends, and the buckets D being just the reverse,

with an opening in the center, as and for the purposes set forth.

2. In a washing-machine, a rotating cylinder, provided in its periphery with alternate series of buckets, arranged, as described, to alternately throw the clothes from the center toward the ends and from the ends toward the center, substantially as herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 7th day of 10 June, 1880.

HIRAM TYLER.

Witnesses:

M. N. FOSTER,
DANIEL MAHONEY.