

(No Model.)

L. F. DE VOE.  
WASHING MACHINE.

No. 341,836.

Fig. 1. Patented May 11, 1886.

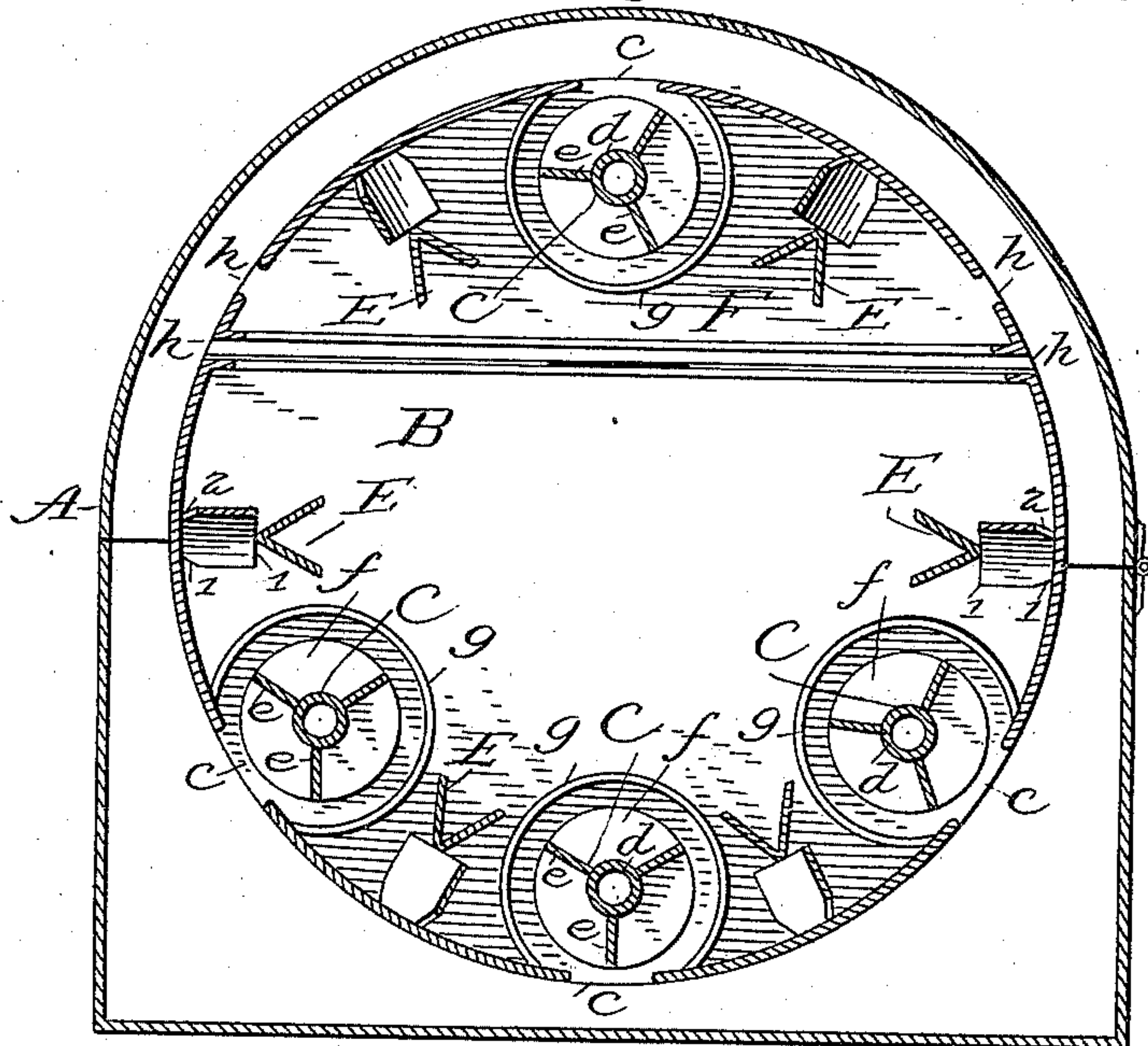
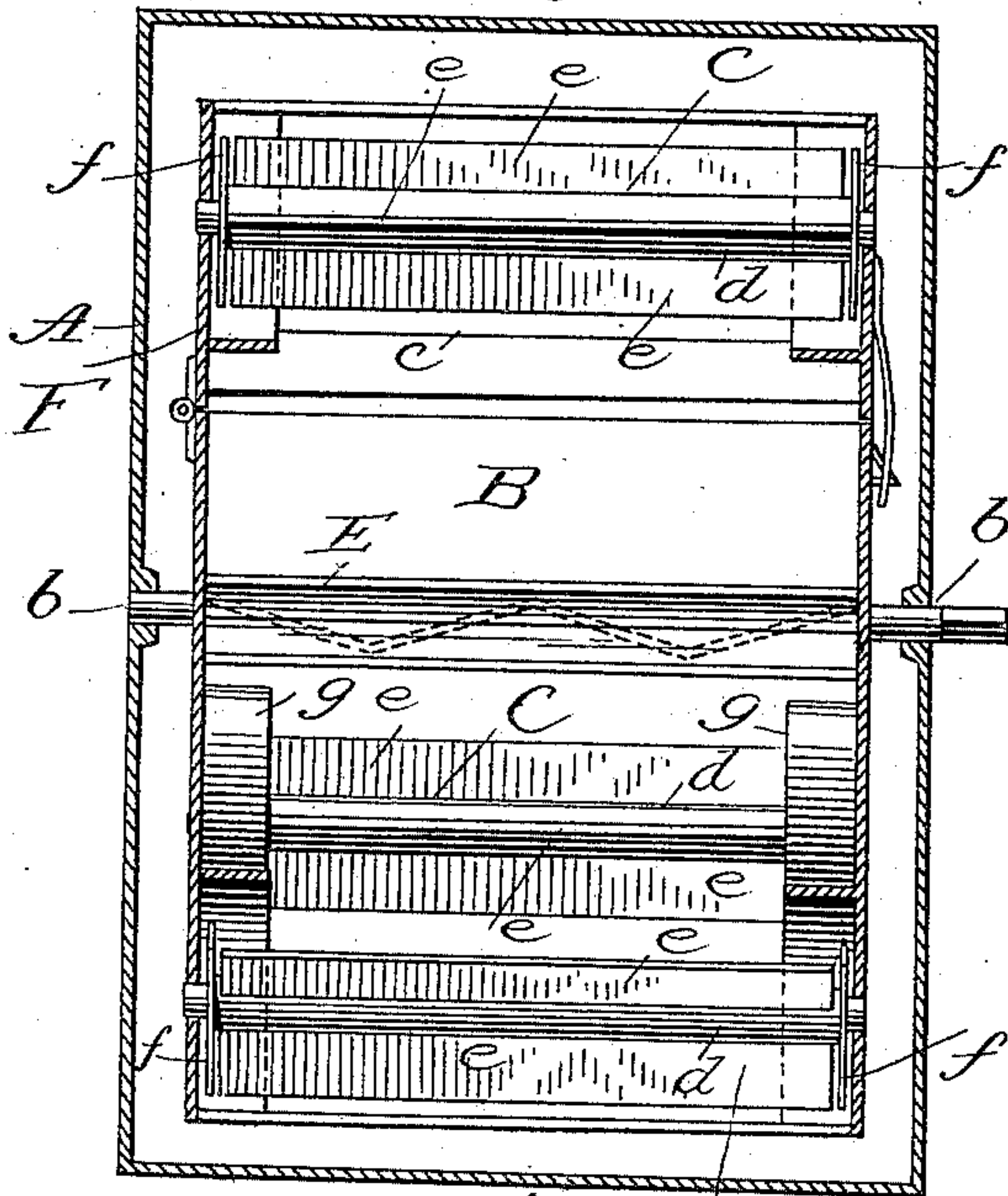
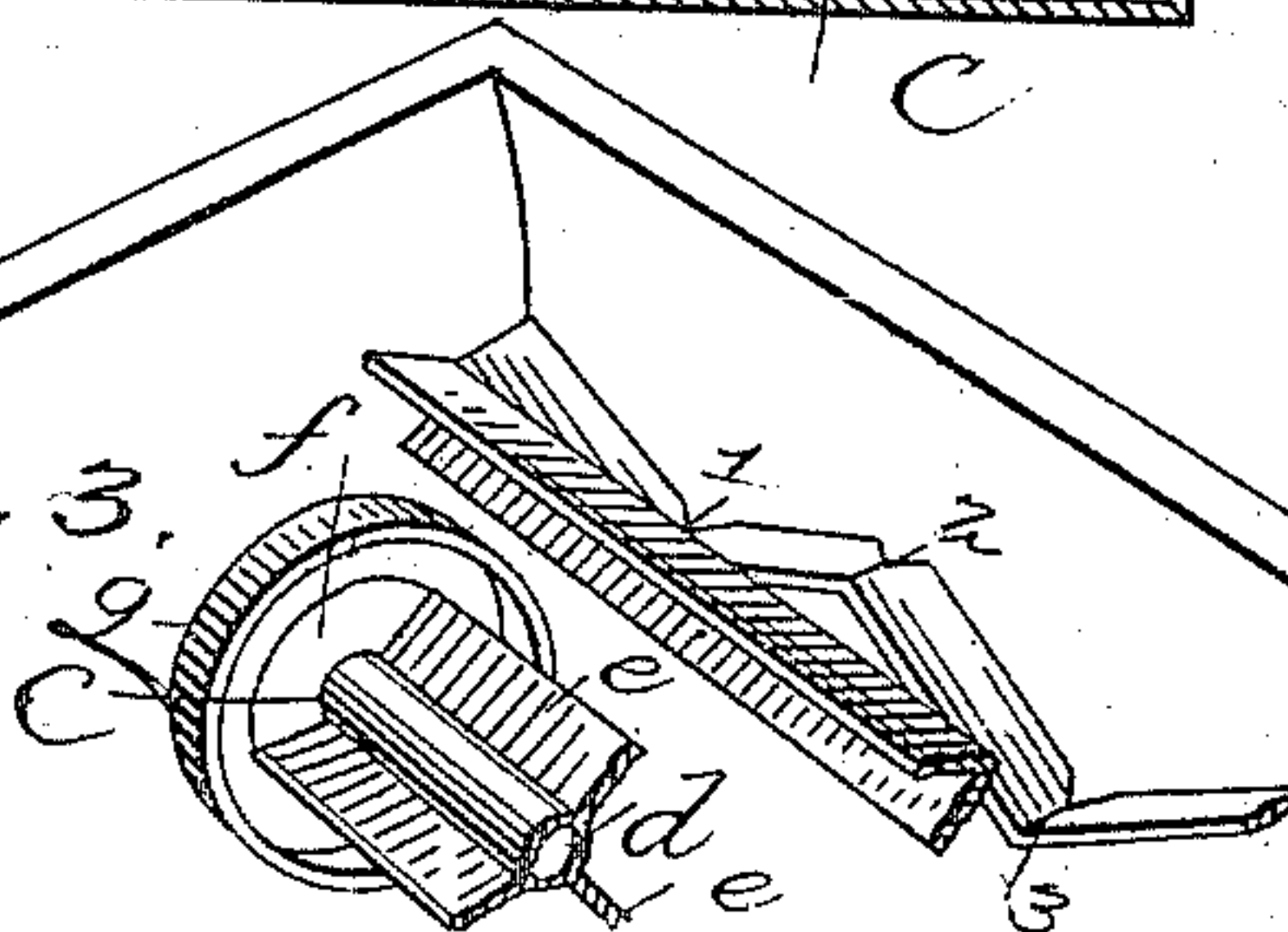


Fig. 2.



Attest:  
Haltern Baldwin  
F. L. Middleton

Fig. 3.



Inventor  
Louis F. DeVoe  
by Joyce & Spear  
Atty's.



# UNITED STATES PATENT OFFICE.

LOUIS F. DE VOE, OF HUNTINGTON, INDIANA, ASSIGNOR OF ONE-HALF TO  
ALEXANDER W. DE LONG AND CHRISTIAN ALLMAN, OF SAME PLACE.

## WASHING-MACHINE.

SPECIFICATION forming part of Letters Patent No. 341,836, dated May 11, 1886.

Application filed December 14, 1885. Serial No. 185,655. (No model.)

*To all whom it may concern:*

Be it known that I, LOUIS F. DE VOE, of  
Huntington, in the county of Huntington and  
State of Indiana, have invented a new and  
5 useful Improvement in Washing-Machines;  
and I do hereby declare that the following is  
a full, clear, and exact description of the same.

My invention relates to revolving cylindri-  
cal washers of that class which have openings  
10 in the periphery to receive the water, and are  
adapted to turn within the boiler or other  
vessel which contains the water.

Details of construction are hereinafter fully  
set forth, and shown in the accompanying  
15 drawings, in which—

Figure 1 represents a central vertical sec-  
tion through the boiler; Fig. 2, a central axial  
section of the same with a part in side eleva-  
tion; Fig. 3, a detail view in perspective.

20 In the drawings the boiler A is of ordina-  
ry construction of the boilers used in this  
class. The rotary receptacle for the clothes,  
B, turns upon an axis, *b*, in suitable bearings  
in the boiler. The periphery of this recep-  
25 tacle is formed with transverse openings *c*, ex-  
tending across from side to side. Within the  
boiler and opposite to these openings are piv-  
oted dashers C, having their axis parallel to  
the openings and pivoted in the end walls of  
30 the receptacle. The dashers are composed of  
a central cylindrical part, *d*, and wings *e*, set  
radially thereon, three or more. At the ends  
are disks *f*, fixed to the shaft. Over the ends  
of these disks and over the wings are set an-  
35 nular flanges *g*, which are soldered to the end  
walls of the receptacle and cover the ends of  
the dasher C.

As the receptacle revolves in the water, it  
enters the opening *c*, and, striking against the  
40 wings, turns the dashers, and thus further agi-  
tates the water. The clothes in the inside of  
the receptacle are also struck by the wings  
and beaten or agitated by the same motion.  
The annular flanges on the end of the dashers  
45 prevent the clothing from becoming entangled  
on the ends of the wings or from being cut on  
the ends of these walls. Between these dash-  
ers are set troughs E, opening in the inward  
direction toward the axles of the receptacle,  
50 so as to receive water that enters from the  
openings. The dashers, as they turn, deliver  
the water to these troughs, and it is thereby  
carried up and discharged on top of the clothes.

Below and back of these troughs are zigzag  
partitions between the troughs and the cir- 55  
cular walls of the receptacle. These have  
openings at the bends or angles of the walls,  
as shown at 1 2 3, and as the water is carried  
up these walls it is caused to run back through  
the holes in the end in well-driven streams, 60  
which, as the receptacle turns, are directed  
against the clothes.

It will be manifest that the machine may be  
turned in either direction with substantially  
the same result, and it may operate for a while 65  
in one direction, then in the other, with good  
results.

There is nothing upon which clothing can  
be caught, and it is tossed about by the revo-  
lution of the receptacle and by the turns of 70  
the dashers hereinbefore described.

I have shown the receptacle as having a  
segment cut and hinged to allow the receptacle  
to be opened in the introduction of the clothes.  
This segment (marked F) serves as a cover; 75  
but the cover may be made in the end wall.  
For the same purpose I prefer the form shown.  
At points near the edges of this segmental  
cover, where there is not room to place a ro-  
tary dasher, I provide narrow transverse open- 80  
ings *h*, for the reception and discharge of the  
water.

I claim as my invention—

1. In a washing-machine, the revolving re-  
ceptacle having transverse openings in the 85  
periphery, a series of rotary dashers set op-  
posite said openings, and annular guide-flanges  
*g*, extending at each end of the said dashers  
from one edge to the other of the said open-  
ings, substantially as described. 90

2. In combination with the troughs of the  
receptacle, zigzag partitions having holes  
therein, substantially as described.

3. In a cylindrical receptacle for a wash-  
ing-machine, the combination of a series of 95  
rotary dashers set opposite the openings in the  
periphery, interposed troughs, and the zigzag  
partitions having holes, substantially as de-  
scribed.

In testimony whereof I have signed my name 100  
to this specification in the presence of two sub-  
scribing witnesses.

LOUIS F. DE VOE.

Witnesses:

WM. C. KOCHER,  
A. W. DE LONG.