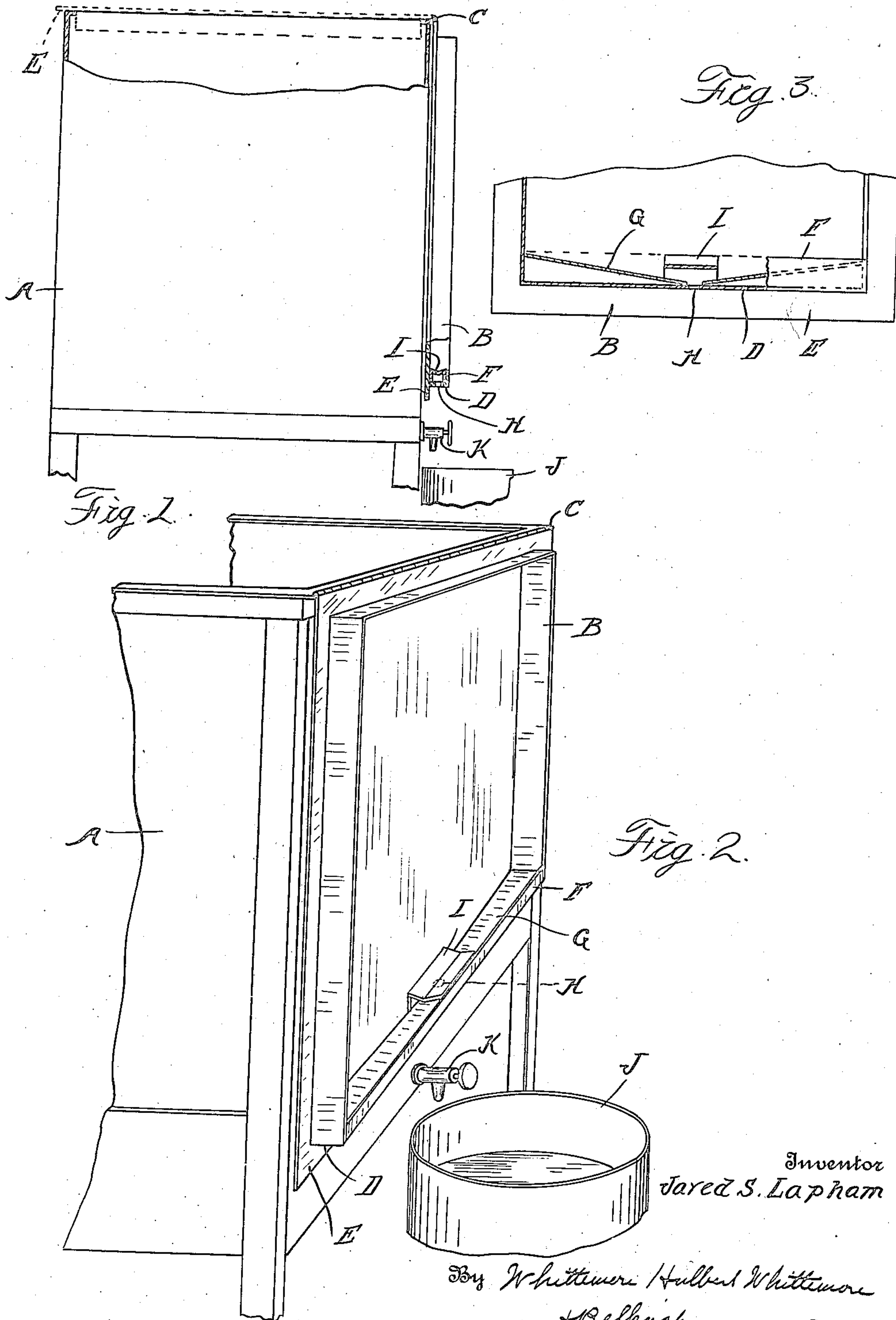


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J. S. LAPHAM.
COVER DRAIN FOR WASHING MACHINES.
FILED OCT. 31, 1921.



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UNITED STATES PATENT OFFICE.

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COVER DRAIN FOR WASHING MACHINES.

Application filed October 31, 1921. Serial No. 511,666.

To all whom it may concern:

Be it known that I, JARED S. LAPHAM, a citizen of the United States of America, residing at Northville, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Cover Drains for Washing Machines, of which the following is a specification, reference being had therein to the accompanying drawings.

The invention relates to washing machines, and particularly to dish-washing machines, of that type in which the washing fluid is thrown out in spray by the action of an impeller. Such machines are provided with a hinged cover which may be turned back for access to the washing chamber whenever dishes are to be inserted or removed. Inasmuch as the inside of this cover is exposed to the spray, it will be covered with suds and if thrown back, will cause a drip upon the floor. To avoid this result I have devised a construction in which all of the liquid adhering to the cover is directed to a drain, this being in proximity to the drain for the receptacle, so that a single pail or other container may receive the drainage from both.

In the drawings:

Figure 1 is a sectional elevation of the washing machine to which my improvement is applied.

Figure 2 is a perspective view of a portion of the machine showing the cover turned back in drainage position;

Figure 3 is a sectional elevation showing the inside of the cover and a drain therefor.

A is the tank or receptacle, in which the washing is accomplished, and B is a cover for this tank which is hinged at one side, as indicated at C. To form a liquid tight seal, the cover B is provided with an inwardly extending flange D surrounding the same and fitting inside of the receptacle and is further provided with an outwardly extending flange E which overlaps the top of the receptacle. When the cover is turned back on its hinge, it will extend vertically downward adjacent to the end wall of the receptacle, as indicated in Figures 1 and 2, and in such position all adhering liquid will drain towards the lower end.

To catch and remove this drainage, an

inwardly extending flange F is secured to the flange D on that side of the cover which is at the bottom when in open position. Between this flange F and the inner face of the cover, there is arranged an inclined flange G, which slopes towards the center of the lower edge of the cover or to any other convenient point for the location of a drain aperture H. To guard this aperture from escape of spray when the cover is in normal position, there is arranged a guard flange I, preferably of trough-shape and spaced sufficiently from the flange G for the passage of the drainage liquid between the same.

With the construction described, after the machine has been in use and it is desired to remove the dishes therefrom, the cover B is thrown back, as shown in Figures 1 and 2. Here the liquid adhering to the inner face will gradually drain downward into the trough formed by the flanges F and G and passing beneath the guard flange I will drain out through the aperture H. A pail J is provided for receiving the liquid from the receptacle drained through the cock K. As this pail is also beneath the drain aperture H, it will receive the drippings on said aperture.

What I claim as my invention is:

1. In a washing machine, the combination with a liquid containing receptacle, of a hinged cover therefor adapted to extend downward from the hinge when in open position, said cover being provided with an inwardly-extending flange which fits within the inner walls of the receptacle in closed position, a drainage aperture in the portion of said flange which is at the bottom when the cover is in open position, and a retaining flange for directing all drainage towards said aperture.

2. In a washing machine, the combination with a liquid containing receptacle, of a hinged cover therefor adapted to be turned down parallel to the side of the machine when in open position, a flange on said cover extending inward therefrom adjacent to and fitting within the inner walls of the receptacle in the closed position of the cover, said flange having a drainage aperture in the portion thereof which is at the bottom in the open position of the cover, a flange for directing the drainage liquid towards said

aperture, and a guard flange extending over said aperture to prevent the direct passage of spray therethrough.

3. In a washing machine, the combination
5 with a liquid containing receptacle, of a
hinged cover therefor adapted in open posi-
tion to be turned downward parallel to the
side of said receptacle, a flange on said cover
extending inward adjacent to the inner walls
10 of said receptacle when the cover is in closed
position, said flange having an aperture in
the portion thereof which is at the bottom in
the open position of the cover, an inclined
flange for directing the drainage liquid
15 toward said aperture, a retaining flange for
holding the liquid upon said inclined flange,
and a guard arranged to cover said aperture
but spaced therefrom, for the purpose de-
scribed.

4. In a washing machine, the combination 20
with a receptacle, of a cover for said re-
ceptacle, means arranged at one edge of said
cover for directing all draining liquid to a
single discharge point, and guard means for
said discharge point to prevent the direct 25
passage of spray therethrough.

5. In a washing machine, the combination
with a liquid containing receptacle, of a cov-
er hinged thereto adapted to be turned down
when the receptacle is open to a position sub- 30
stantially parallel to the side of said recepta-
cle, and means carried by the cover for di-
recting all draining liquid to a discharge
point at the lower edge of the cover when
the said cover is in turned down position. 35

In testimony whereof I affix my signature.

JARED S. LAPHAM.