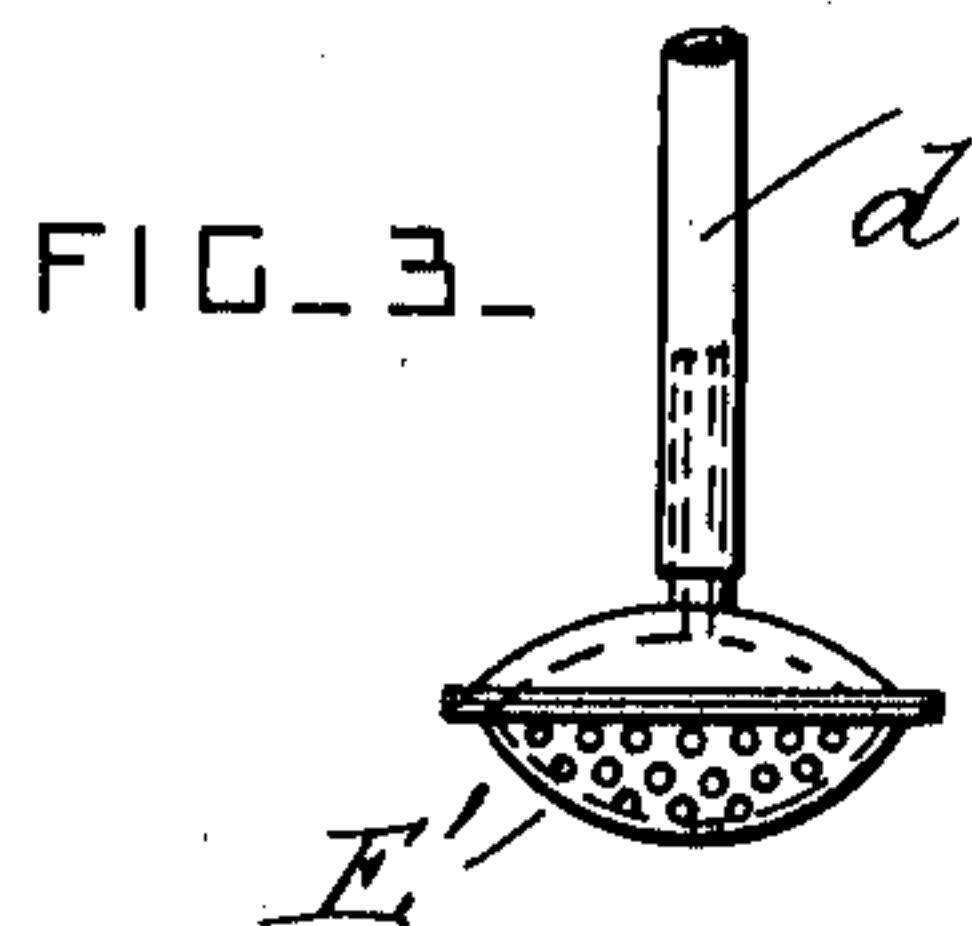
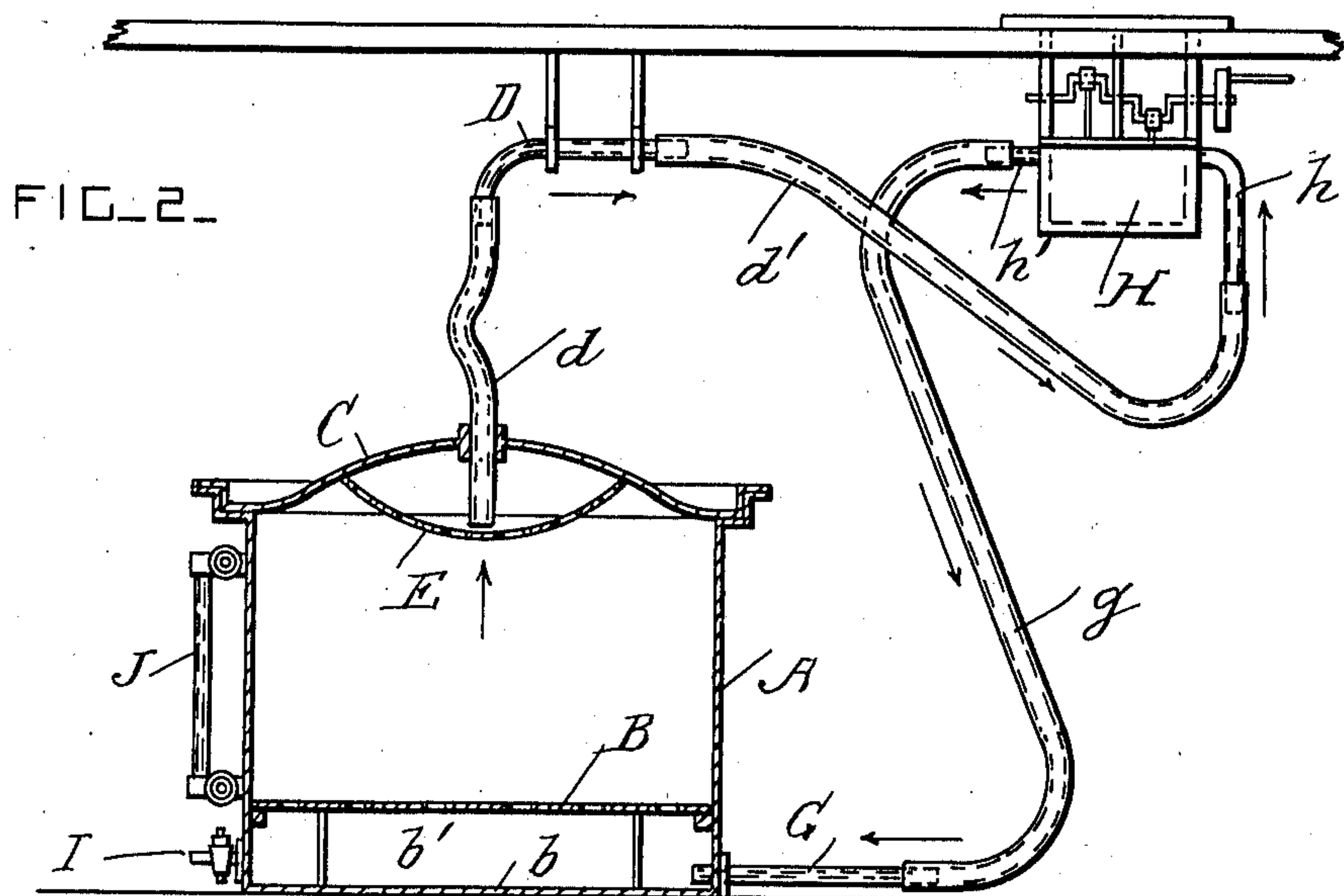
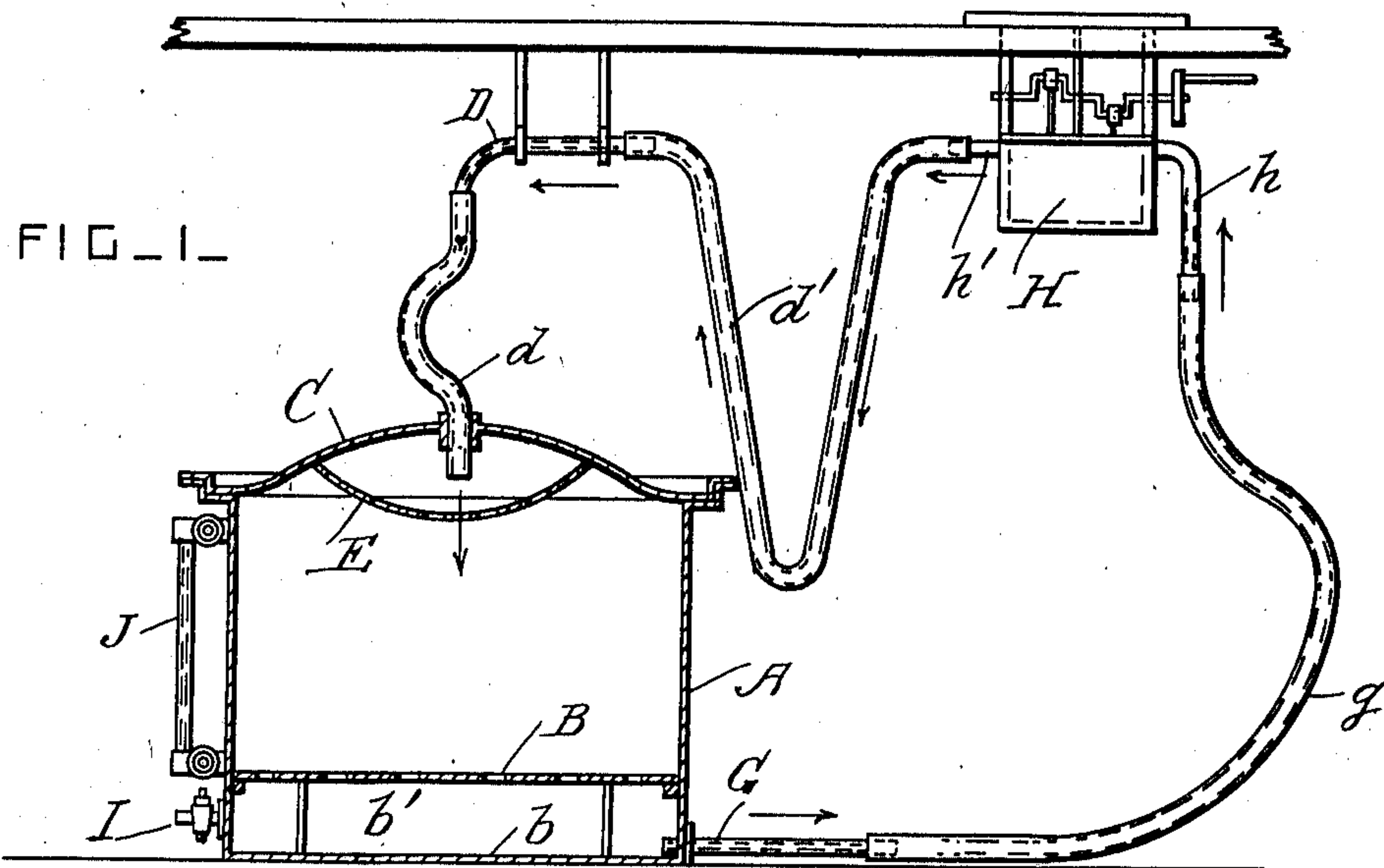


H. L. SIMMONS.
WASHING MACHINE.
APPLICATION FILED DEC. 1, 1910.

989,070.

Patented Apr. 11, 1911.



Witnesses

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HENRY LATIMER SIMMONS, OF MEXICO, MEXICO.

WASHING-MACHINE.

989,070.

Specification of Letters Patent.

Patented Apr. 11, 1911.

Application filed December 1, 1910. Serial No. 595,082.

To all whom it may concern:

Be it known that I, HENRY L. SIMMONS, a subject of the King of Great Britain, residing at Mexico city, Mexico, 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.

This invention relates to machines for washing clothes; and it consists in the novel construction and combination of the parts hereinafter fully described and claimed whereby water is circulated through the clothes to remove the dirt.

In the drawings, Figure 1 is a vertical section through the washing vessel showing the water drawn from its lower part. Fig. 2 is a similar view but shows the pipes changed to draw the water from the upper part of the vessel. Fig. 3 is a side view of a modified form of strainer.

A is a vessel for holding the clothes together with water and cleansing material, such as soap. The water can be heated in the vessel or separate therefrom to any desired temperature.

B is a support for the clothes, such as a grate arranged above the bottom *b* of the vessel leaving a space *b'* in the bottom of the vessel for water and dirt.

C is a cover for the vessel, and D is a circulating pipe connected to the cover C. The circulating pipe is provided with a strainer, and this strainer may be a plate E attached to the cover below the end of the pipe, or it may be a rose E' as shown in Fig. 3 attached to the end of the pipe which projects within the vessel.

G is a circulating pipe attached to the lower part of the vessel A below the support or grate B.

H is a circulating pump of any approved construction provided with a suction pipe *h* and a delivery pipe *h'*. The circulating pipe G is provided with a portion or pipe section *g* of flexible material, such as india rubber, which may be placed in connection with either of the pipes *h* or *h'*.

The circulating pipe D is provided with a portion or pipe section *d* of flexible material for connecting it to the cover C and permitting the cover to be removed and re-

placed at will. The circulating pipe D is also provided with a portion or pipe section *d'* of flexible material for connecting it to either of the pipes *h* or *h'*. All the flexible india rubber pipes can be strengthened by helical coils of wire, if desired.

I is a valve at the bottom of the vessel A for letting out the water and dirt.

J is a water gage.

When the pipes are connected as shown in Fig. 1 the water is drawn from the bottom of the vessel and is forced into its top part. After working some time in this manner, the pipes are changed to the positions shown in Fig. 2, the water being drawn from the top of the vessel and forced into its lower part. The action can be reversed periodically until the clothes are clean, and the water and dirt can be drawn off from time to time and clean water and additional washing material can be added.

What I claim is:

1. In a washing machine, the combination, with a washing vessel, of a circulating pump provided with a suction pipe and a delivery pipe, and circulating pipes connected with the upper and lower parts of the said vessel and provided with pipe sections of flexible material adapted to be connected to either said suction or delivery pipes, whereby the direction of the circulation can be changed.

2. In a washing machine, the combination, with a washing vessel provided with a cover, of a circulating pump provided with a suction pipe and a delivery pipe, and circulating pipes connected with the upper and lower parts of the said vessel and provided with pipe sections of flexible material adapted to be connected to either said suction or delivery pipes, whereby the direction of the circulation can be changed; the connection of the upper circulating pipe with the said cover consisting of a second pipe section of flexible material, thereby permitting the cover to be removed and replaced.

3. In a washing machine, the combination, with a washing vessel provided with a cover and a strainer at its upper part, and having a support for the clothes in its lower part, of a circulating pump provided with a suction pipe and a delivery pipe, a circulating pipe secured to the said vessel below the said support and provided with a pipe section of flexible material adapted to be connected

to either the suction or the delivery pipe,
and a circulating pipe connected to the said
vessel above the said strainer and provided
with a pipe section of flexible material
5 adapted to be connected to either the suction
or the delivery pipe, whereby the direction
of the circulation can be changed.

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

HENRY LATIMER SIMMONS.

Witnesses:

G. A. GUERRA,
GEORGE SMITH.
