

G. HELBLING.
DISCHARGE AND OVERFLOW FITTING.
APPLICATION FILED JUNE 23, 1909.

977,304.

Patented Nov. 29, 1910.

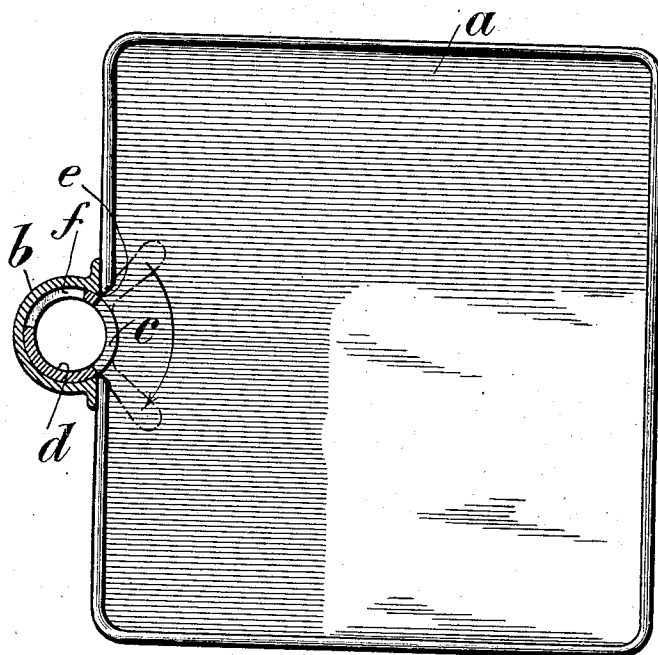
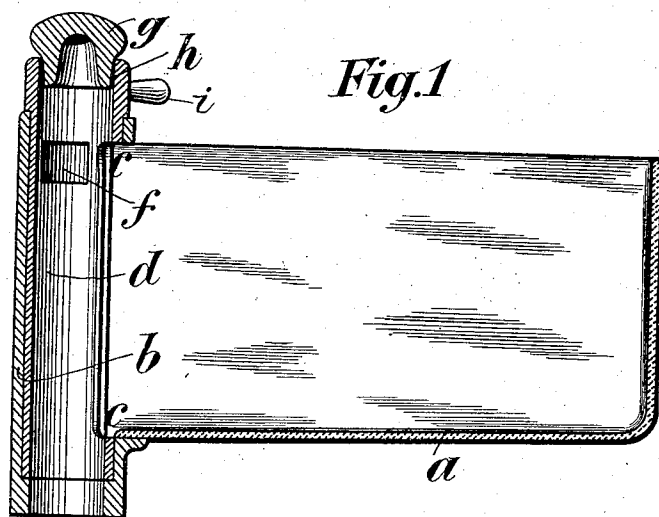


Fig. 2

Witnesses:

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Inventor:

Gottfried Helbling
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his atty.

UNITED STATES PATENT OFFICE.

GOTTFRIED HELBLING, OF KÜSNACHT, NEAR ZÜRICH, SWITZERLAND.

DISCHARGE AND OVERFLOW FITTING.

977,304.

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To all whom it may concern:

Be it known that I, GOTTFRIED HELBLING, a citizen of the Republic of Switzerland, residing at Küsnacht, near Zurich, Switzerland, have invented certain new and useful Improvements in Discharge and Overflow Fittings; 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

The subject of my invention is an improved discharge and overflow fitting for tanks and other vessels for containing liquids.

According to my invention I employ the discharge conduit in such a manner that a section of it extends throughout the entire height of the vessel, and I place within this conduit section a hollow cylinder or tubular member, which is rotatable about the axis of the conduit section. The walls of the conduit and cylinder are so perforated that the volume of liquid throughout its entire height can flow directly into the cylinder and conduit without having to assume an indirect course so that the vessel can be completely emptied with great rapidity.

In the drawing, Figure 1 is a vertical section and Fig. 2 is a horizontal section illustrating my invention.

Referring to the drawing, *a* designates a tank which may be of any suitable material and of any desired form; it being understood that this tank may be a basin, washstand, bath-tub or other similar device in which water is temporarily placed for washing or other purposes and from which the water or other contents is to be discharged. One side of the tank *a* extending from the top to the bottom thereof is provided with a slot *e*.

b represents a conduit cylindrical in outline and one side of which is open and flanged and adapted to be connected to the

slotted side of the tank *a* in any suitable manner, with the edges of the opening in the conduit adjacent to the edges of the slotted portion of the tank; it being understood that this conduit *b* connects with a discharge pipe not shown in the drawing.

Within the conduit *b* I employ a cylindrical member *d* adapted to fit and to be turned within the same and provided with a slot or opening *c* extending substantially the full length or height of the side of the vessel in which the slot *e* is provided. The upper end of the cylinder *d* is preferably provided with a plug *g* to close the same and with a handle *i* by which the cylinder *d* can be revolved within the conduit *b* so as to cause the slot *c* to register with the slot *e*; thereby providing an open communication between the tank *a* and the discharge pipe connected to the conduit *b*, or to bring the slot *c* within the walls of the conduit *b* to shut off this open communication between the tank *a* and the discharge pipe. In the cylinder *d* adjacent to its upper end I also prefer to provide an opening indicated at *f* which is so placed as to be within the walls of the conduit *b* when the slot *c* registers with the slot *e*, and to register with a portion of the slot *e* when the slot *c* is turned to a position within the walls of the conduit *b*, so that this opening *f* acts as an overflow.

I claim as my invention:—

1. The combination with a vessel adapted to contain a liquid and having a slot extending the entire height of one of its sides, of a conduit having an open portion and adapted to be attached to said vessel so that the open portion of the conduit substantially registers with the said slot in the side of the vessel, and a tubular member fitting within the said conduit and revoluble therein and provided with a slot of substantially the same length as that in the side of said vessel.

2. The combination with a vessel adapted to contain a liquid and having a slot extending the entire height of one of its sides, of a conduit having an open portion and adapted to be attached to said vessel so that the open portion of the conduit substantially

registers with the said slot in the side of the vessel, and a tubular member fitting within the said conduit and revoluble therein and provided with a slot of substantially the same length as that in the side of said vessel, the said tubular member being also provided with an overflow opening adjacent to its upper end.

In testimony that I claim the foregoing as my invention, I have signed my name in 10 presence of two subscribing witnesses.

GOTTFRIED HELBLING.

Witnesses:

ERNST FISCHER,
CARL GUBLER.