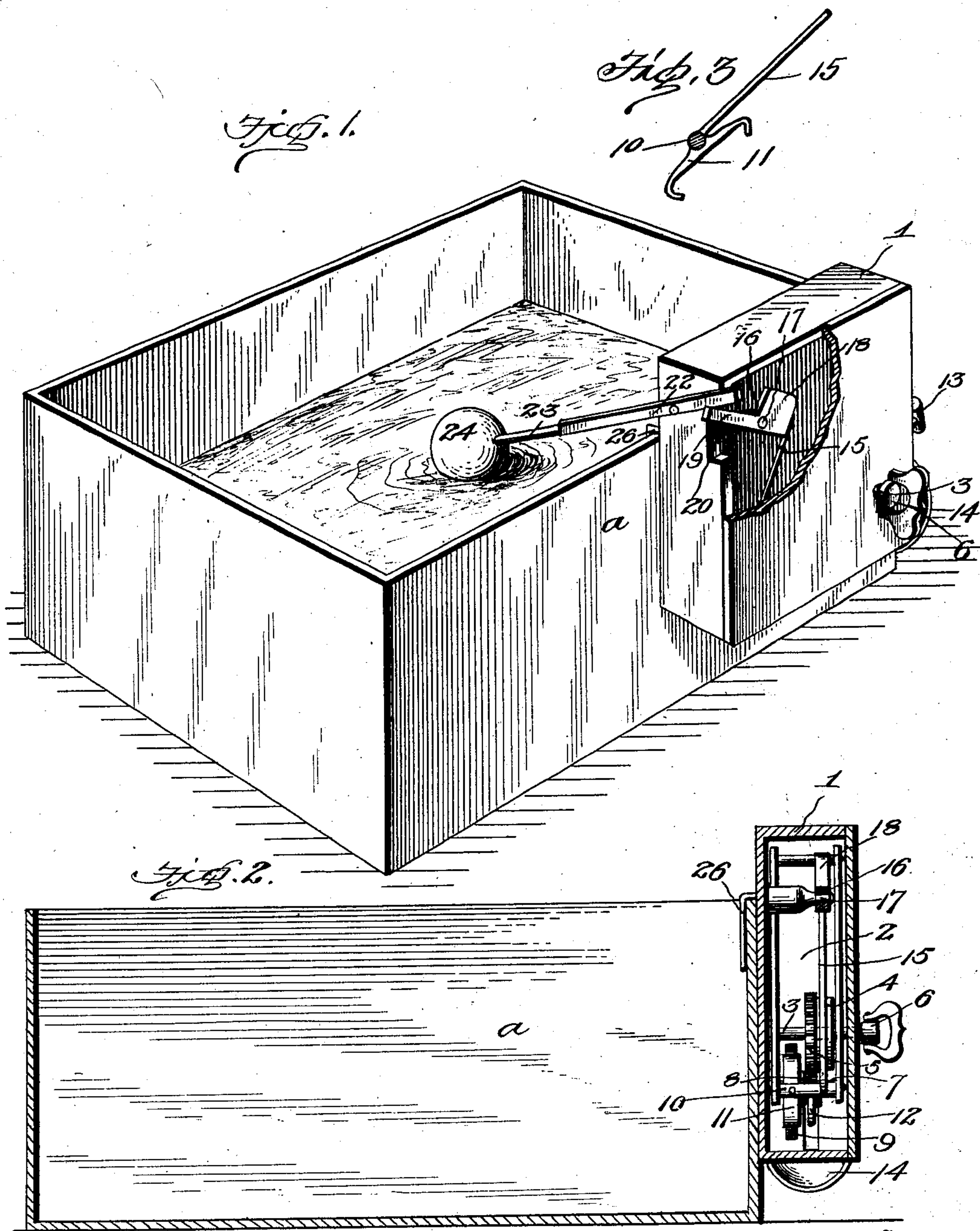


No. 746,147.

PATENTED DEC. 8, 1903.

W. PETERS.
WATER LEVEL INDICATOR.
APPLICATION FILED OCT. 27, 1902.

NO MODEL.



Inventor

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Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM PETERS, OF BROOKLYN, NEW YORK.

WATER-LEVEL INDICATOR.

SPECIFICATION forming part of Letters Patent No. 746,147, dated December 8, 1903.

Application filed October 27, 1902. Serial No. 128,988. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM PETERS, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Water-Level Indicators; and I do 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.

My invention is an improved water-level indicator adapted for automatically sounding an alarm when the water in a vessel reaches a predetermined level, and especially adapted for use in connection with tanks, refrigerators, and other devices for the sounding of an alarm before the tank overflows.

My invention consists in the peculiar construction and combination of devices herein-after described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a water-level indicator embodying my improvements, showing the same attached to a tank, a portion of the front of the casing of the alarm mechanism being removed to disclose the trigger and the detent; and Fig. 2 is a sectional view taken on a plane intersecting the casing of the alarm apparatus. Fig. 3 is a detail elevation showing the escapement provided with a detent.

In the embodiment of my invention I provide a casing 1, in which is an alarm apparatus 2, the latter including a shaft 3, a spring 4, a spur-wheel 5, a key 6 for turning said shaft to wind the spring, a shaft 7, having a pinion 8 engaged by said spur-wheel, an escapement-wheel 9, a rock-shaft 10, having a pallet 11 engaging said escapement-wheel, a striking-arm 12, having a hammer 13 for striking a bell 14, and a detent 15. The latter is here shown as an arm or rod extending upwardly from the rock-shaft.

A trigger 16 is disposed in the casing 1, is pivoted at 17, has at its inner end a weight-head 18 to engage the detent 15, and is provided with an outwardly-extending arm 19, which projects through a vertical slot 20 in one side of the casing 1. On the said side of the casing, exteriorly thereof, is pivoted a

lever 22. To one end thereof is attached a rod 23 of suitable length which carries a float 24, which float is here shown as being spherical in form, but which may be of any suitable form and construction. One end of the lever 22 is adapted to engage the arm 19 of the trigger 16 when the said lever is turned by the rising of the float. The action of the lever 22 is such that when the float thus rises the arm 19 of the trigger is depressed and the weight-head 18 thereof caused to be raised out of connection with the detent 15 to release the latter, and thereby start the alarm apparatus in operation.

On the rear side of the casing 1 are hooks 26, by means of which the apparatus may be supported by and detachably secured to a tank *a*, such as is shown in Fig. 1.

From the foregoing description, taken in connection with the accompanying drawings, the construction, operation, and advantages of my invention will be readily apparent, it is thought, without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

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

In combination with an alarm apparatus having an escapement provided with a detent, a vessel, a float therein, a pivoted lever to which the float is attached, and a pivoted trigger independent of, movable in a plane at right angles to the plane of movement and having an arm disposed in the path of said lever, said trigger being provided at its opposite end with a counter-weight to normally engage it with the detent, for the purpose set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

WILLIAM PETERS.

Witnesses:

ROBERT L. MYERS,
DIEDRICH BURFEIND.