

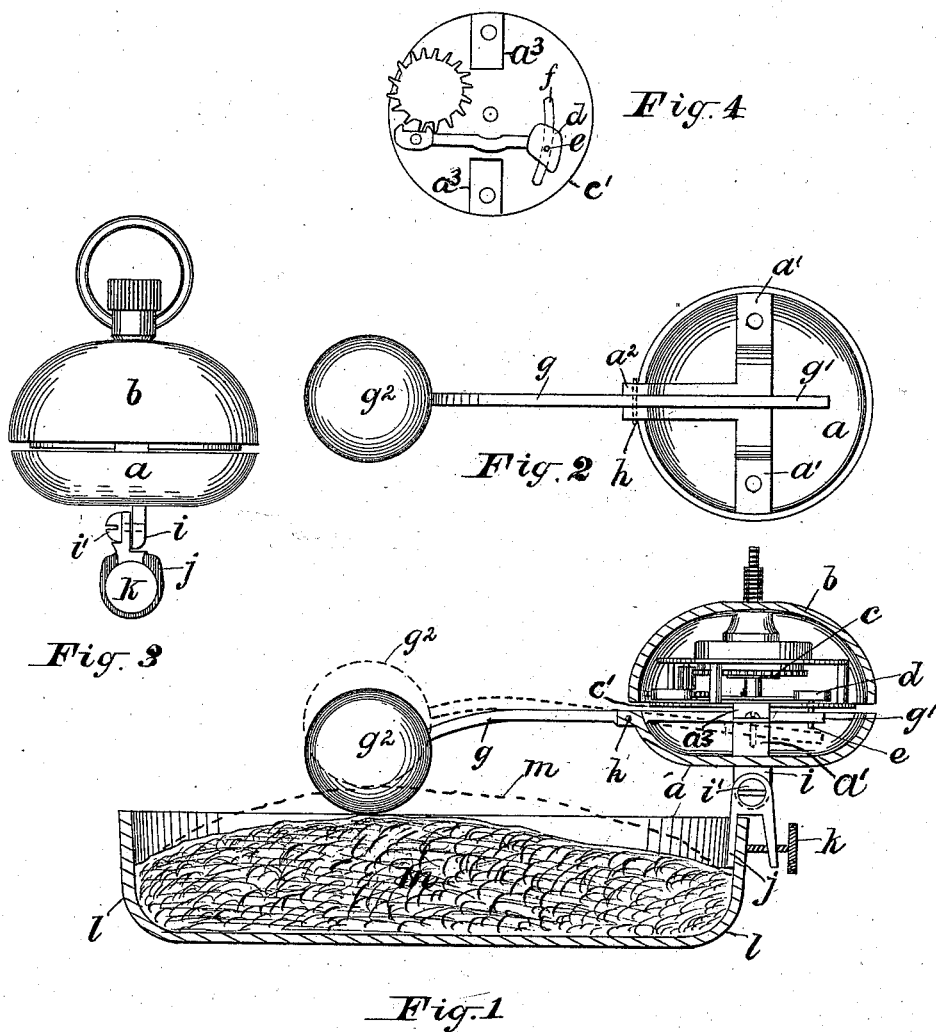
(No Model.)

R. J. WHITSON.

ALARM BELL.

No. 382,343.

Patented May 8, 1888.



Witnesses:
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UNITED STATES PATENT OFFICE.

ROBERT J. WHITSON, OF CHICAGO, ILLINOIS.

ALARM-BELL.

SPECIFICATION forming part of Letters Patent No. 382,343, dated May 8, 1888.

Application filed February 16, 1886. Serial No. 264,209. (No model.)

To all whom it may concern:

Be it known that I, ROBERT J. WHITSON, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Alarm-Bells, which are fully set forth in the following specification, reference being had to the accompanying drawings, forming a part hereof, and in which—

Figure 1 is a central longitudinal sectional elevation of my alarm-bell, showing the interior mechanism and float or ball and lever in full view attached to a pan, which is shown in sectional elevation, showing the action of my apparatus under a rising substance. Fig. 2 shows the base or under part of my apparatus in a modified form from that shown in Fig. 1. Fig. 3 is an end view of said apparatus with clamp attached; and Fig. 4 shows in plan the bottom plate of the wheel mechanism with the alarm-hammer and slot through which the pin *e* of the hammer plays.

Like letters refer to like parts.

The object of my invention is to produce a simple, cheap, and easily applied and managed alarm-bell applicable to many uses in both the technic and household arts, and to that end I construct my device substantially as follows, namely:

I adopt a mechanism, *c*, provided with a bell, *b*, hammer *d*, lugs *a*¹, and spring-winding mechanism, as already known in the arts, and set it upon a bell or triangular shaped base, *a*, provided with blocks *a*², upon which fit the inclined lugs *a*³, cut and bent down from the base-plate *c*¹ of the mechanism *c*, and secured to said blocks by means of screws or pins. To the edge of the base *a*, and near where the end of the lever carrying the hammer *d* is fulcrumed, is a bearing, *a*⁴, to which is pivoted a lever, *g*, on a pin, *h*, in such a manner as to allow vertical play only to said lever, and said lever extends beyond said point or pin *h* until it reaches a short but sufficient distance beyond the pin *e* of the hammer *d*, so as to form a certain stop to its motion whenever the free end, *g*¹, of said lever rises to obstruct its motion. Said pin *e* fastens the hammer *d* to its lever, and it also extends below the base-plate *c*¹ of the mechanism *c* a sufficient distance to reach beyond said arm *g*¹ when it is up near

the plate *c*¹, as shown in full lines in Fig. 1, and said pin plays in the segmental slot *f* cut through the said base-plate *c*¹. The construction and position of the hammer and the wheel which drives it are clearly shown in Fig. 4.

The bell-shaped base *a* protects the mechanism above it from accidental or intentional interference; but it may consist of a three-arm piece provided with the parts *a*¹ *a*² *a*³, as shown in plan view in Fig. 2, when the bell-shaped part is omitted. Under the center of said base *a*, or in the corresponding place under said three-arm piece, is attached a lug, *i*, to which is attached a clamp, *j*, provided with a clamp-screw, *k*. Said clamp is attached to said lug *i* by means of a rivet or screw, *i*¹, which presses the contact-surfaces of the clamp and lug together, so as to form a friction-joint, regulated by means of said screw *i*¹, whereby said clamp may be set at any angle, so as to place and hold the bell and ball *g*² in the most advantageous position. Said ball *g*² is either made of wood or metal, so as to float upon liquids. In the drawings my alarm-bell is shown attached by means of its clamp to a pan, *l*, and the ball *g*² is shown upon a mass of dough, *m*, in said pan, which is set for rising up to the dotted line, and when that has happened the ball and its lever and arm will be in the position shown in dotted outlines, whereby the pin *e* will be released, which was until then held by the arm *g*¹, and the hammer *d* allowed to sound the bell.

My alarm-bell is designed to be attached to any apparatus in which liquids are liable to overflow accidentally, or in which they are not to rise beyond a certain point without giving an alarm, to water-tanks, bath-tubs, water-closets, locomotive-tenders, bread-trays, fire-alarms, and all similar uses.

What I claim is—

1. An alarm-bell consisting of a bell-shaped base having an exterior supporting-lug, *i*, and marginal fulcrum *h*, provided with a lever, *c*, having arm *g*¹ at one end and float *g*² at other end of said lever, and internal bearings, *a*¹, on said base, in combination with an alarm-bell mechanism mounted on said internal bearings, actuating a hammer provided with a pin extending below its base-plate *c* and engaging

with the arm g' , said base-plate having lugs a^3 secured to said bearing a' , substantially as specified.

2. An alarm-bell consisting of a bell-shaped
5 base having an exterior lug, i , holding a clamp, j , and a marginal fulcrum, h , carrying a lever, g , having at one end an arm, g' , and at the other end a float, g^2 , and internal bearings, a' , in combination with an alarm-bell mechanism
10 mounted on said internal lugs, actuating a

hammer provided with a pin extending below the base-plate of the alarm mechanism and engaging with the arm g' , said base-plate having lugs a^3 secured to said internal bearings, a' , substantially as specified.

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Witnesses:

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