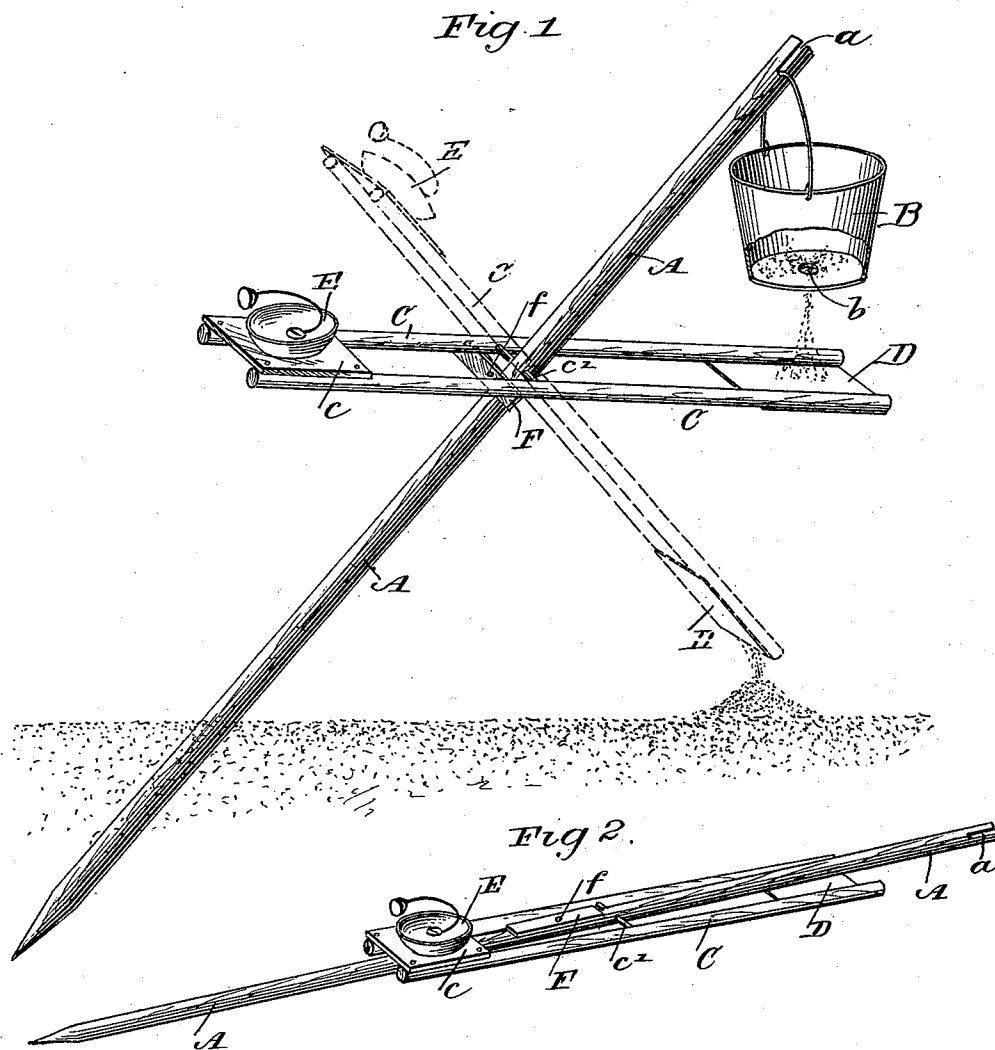


(No Model.)

C. E. BENTLEY.
TOY.

No. 488,537.

Patented Dec. 27, 1892.



WITNESSES:

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SPECIFICATION forming part of Letters Patent No. 488,537, dated December 27, 1892.

Application filed July 30, 1892. Serial No. 441,646. (No model.)

To all whom it may concern:

Be it known that I, CHARLES E. BENTLEY, residing at the city of New York, county and State of New York, have invented a new and useful Toy Balance, of which the following is a full, clear, and exact description.

My invention relates to a simple, inexpensive and attractive toy adapted more especially for children at the sea-shore, where by use of the abundant sand they may be pleasantly and instructively entertained.

The invention will first be described and then will be particularly defined in claims hereinafter set forth.

Reference is to be had to the accompanying drawings, forming a part of this specification, and in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1, is a perspective view of a toy balance embodying my invention, partly broken away, and changed positions during operation being indicated by dotted lines, and Fig. 2, is a view of the apparatus folded as when out of use and for convenient carriage in the hand.

In the preferred form of the invention I use a staff or support A, preferably pointed at one end to allow it to be easily pushed into the sand or earth to be supported in inclined position thereby. Any approved means may be provided for sustaining at the upper end or part of the staff a pail or reservoir B, adapted to hold sand or other flowing substance and provided with a suitable small outlet *b*, through which the sand escapes more or less quickly. As a simple means of attaching the pail to the staff, I notch or slot the end of the staff at *a*, and slip the handle of the pail into the notch, as shown in the drawings.

To the staff A, is fulcrumed or pivoted at *c'*, a lever C, which at one end carries a plate or vessel D; adapted to receive sand or other substance flowing from the pail or reservoir B. The lever also carries any preferred audible signal or automaton which will sound or be caused to move attractively as the lever tilts and returns to normal position. The drawings show an audible signal comprising a gong bell E, held suitably to the lever C, and preferably to a cross piece or plate *c*, fixed to the upper face of the two side bars or mem-

bers of the lever, to the lower face of which bars the plate or vessel D, is attached. This arrangement of the parts *c*, D, allows the lever to fold quite closely to the staff. That end of the lever C, shown which carries the bell E, is by preference a little heavier than its opposite end carrying the sand receiving plate or vessel D. Obviously, any approved automaton adapted to make odd or grotesque movements attractive to a child, may be substituted on the lever for the audible signal shown, or any other form or style of audible signal which will be sounded when the lever tilts, may be employed.

If the parts were suitably proportioned, the signal or automaton support *c*, of the lever would itself form a stop against the staff, but I prefer to provide a separate stop, made preferably in the form of a button or cross bar F, which is pivoted at *f*, to the staff near the lever fulcrum *c'*, and whereby I make the action of the apparatus automatic. This pivoted stop F, may be folded into line with the staff and to lie between the side bars of the lever to allow the staff, lever and stop to be folded very compactly, as shown in Fig. 2, of the drawings.

When the staff A, is stuck into the sand or is otherwise suitably supported, and the stop F is turned across beneath the lever C, and the perforated pail or reservoir B, is hung on the staff and filled with sand as shown in Fig. 1, of the drawings, the sand will flow from the pail opening *b*, onto the lever plate or vessel D, until the lever tilts by the weight of sand thereon, and as indicated by dotted lines in Fig. 1, and discharges the sand from the plate, whereupon the lever will at once tilt upward again to normal position against the stop F, and the contact or impact of the lever on the stop will jar or bounce the lever sufficiently to cause the signal E, to sound, or would give movements to an automaton figure should the latter be used on the lever instead of the audible signal. As the stream of sand falling from the pail B, again accumulates on the plate or vessel D, the tilting movement of the lever will be repeated, and all a child need do to assure constant automatic action of the apparatus is to keep the pail B, supplied with sand or other suitable flowing material. It is a very simple matter to re-

move the pail or reservoir B, from the staff and pull the staff from the sand or ground and then turn the button F, one quarter around and finally fold the lever to the staff and the whole apparatus is then in very compact form and may be easily carried by a child along with a sand shovel or other playthings.

I am not limited to the use of a single audible signal or automaton on the lever, as more than one of these may be used and be operated as the lever tilts or rocks in either direction or above and below the horizontal plane at either side of its fulcrum, as will readily be understood.

15 Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. A toy balance, comprising a staff or support, a lever fulcrumed thereon and adapted to hold an overbalancing substance at one side of its fulcrum, and carrying an audible signal or an automaton; and a reservoir discharging sand or other flowing substance onto the lever to tilt or overbalance it and operate the signal or automaton, substantially as described.

2. An automatic toy balance, comprising a staff or support, a lever fulcrumed thereon and adapted to hold an overbalancing substance at one side of its fulcrum and carrying an audible signal or automaton; a reservoir discharging sand or other flowing substance on to the lever to tilt or overbalance it, and a stop operating the audible signal or automaton on the tilting movement of the lever, substantially as described.

3. The combination in a toy balance, of a staff or support, a reservoir sustained thereon and adapted to discharge sand or other flow-

ing substance, and a lever fulcrumed on the staff and carrying a plate or vessel receiving the material from the reservoir, and an audible signal or automaton operative as the lever tilts or rocks, substantially as described.

4. The combination, in an automatic toy balance, of a staff or support, a reservoir sustained thereon and adapted to discharge sand or other flowing substance, a lever fulcrumed on the staff and carrying a plate or vessel receiving the material from the reservoir, an audible signal or automaton operative as the lever tilts or rocks, and a stop on the staff temporarily holding the lever in normal position and operating the signal or automaton, substantially as described.

5. In a toy balance comprising a staff or support and a lever thereon adapted to carry a sand receiver and provided with an audible signal or automaton, substantially as described, said staff and lever adapted to fold together, as set forth.

6. In an automatic toy balance comprising a staff or support, a lever thereon adapted to carry a sand receiver and provided with an audible signal or automaton, and a stop limiting tilting movement of the lever and operating the signal or automaton, said staff, lever, and stop folding together for carriage or transportation, substantially as described.

7. The combination, in a toy balance, of a staff A, reservoir B, lever C, fulcrumed to the staff and having a sand receiving plate D, and an audible signal E, and a stop F, on the staff for the lever, substantially as described.

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Witnesses:

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