(No Model.) 2 Sheets—Sheet 1.

E. GRAUERT

EGG BOILER.

No. 392,509. Patented Nov. 6, 1888.

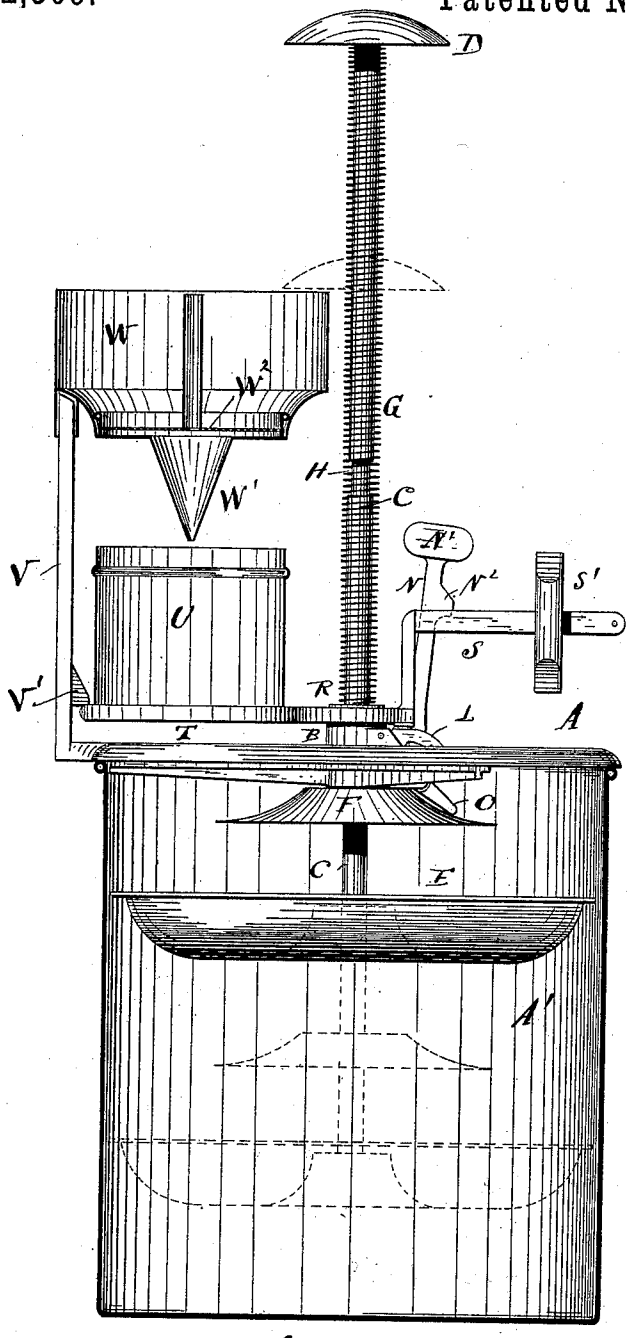


Fig. 1.

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(No Model.) 2 Sheets—Sheet 2.

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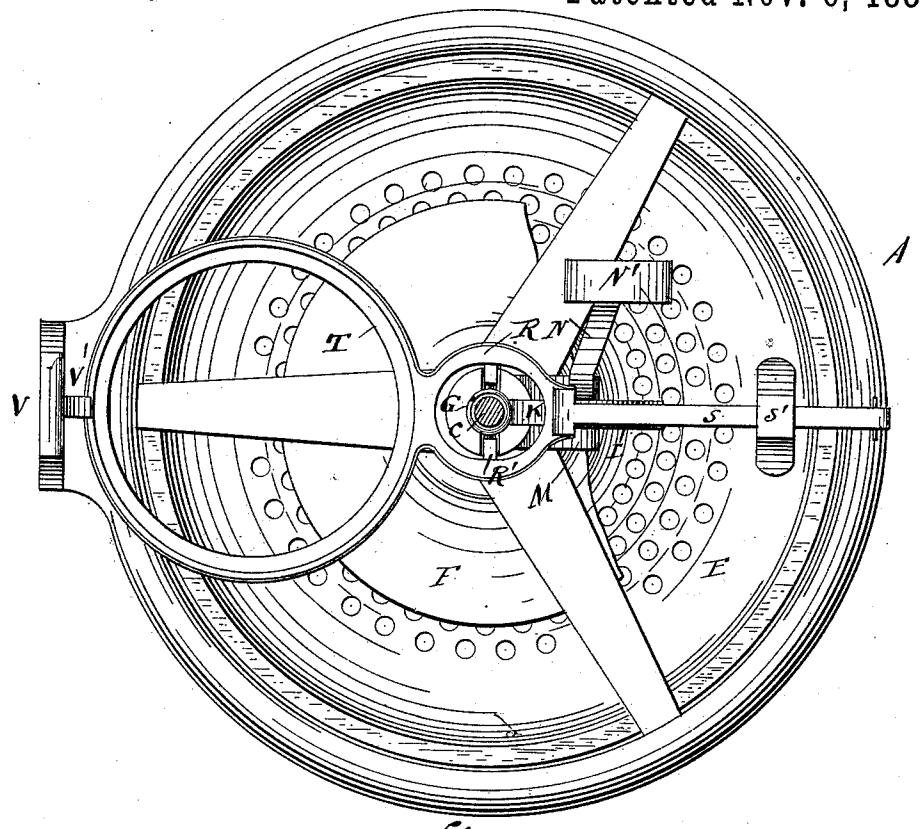


Fig: 2.

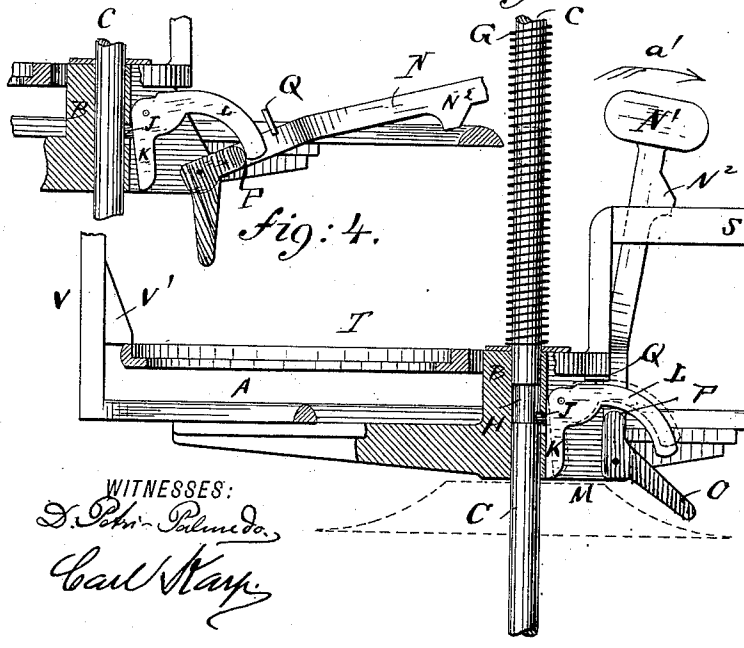


Fig: 4.

Fig: 3.

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UNITED STATES PATENT OFFICE.

EDGAR GRAUERT, OF NEW YORK, N. Y.

EGG-BOILER.

SPECIFICATION forming part of Letters Patent No. 392,509, dated November 6, 1888.

Application filed December 9, 1887. Serial No. 257,418. (No model.)

To all whom it may concern:

Be it known that I, EDGAR GRAUERT, of the city, county, and State of New York, have invented certain new and useful Improvements in Egg-Boilers, of which the following is a specification.

The object of my invention is to provide a new and improved device to be used for boiling eggs, and which is so constructed that it automatically lifts the eggs out of the boiling water after they have been boiled for a certain time.

The invention consists in the combination, with a frame fitted on a vessel, of an egg-receiver fastened to a sliding rod in said frame, said sliding rod being provided with a spring for pressing it upward, and which rod can be locked in place by a latch, released by a vessel into which water flows slowly, so that the weight of the water after a certain time causes the lifting of the latch and permits the spring to lift the egg-receiver out of the water, all as will be fully described and set forth hereinafter, and finally pointed out in the claims.

In the accompanying drawings, Figure 1 is a side view of my improved egg-boiling device, parts being shown in cross-section, as is also the vessel on which the egg-boiler is placed. Fig. 2 is a plan view of the same, drawn on a larger scale, parts being in section. Fig. 3 is a detail sectional view of parts, showing the latch engaged with the spring-rod and holding the same in a lowered position. Fig. 4 is a detailed side view of the latch, showing the same in the position it has when disengaged from the rod.

Similar letters of reference indicate corresponding parts.

The entire device is supported on a frame or ring, A, which is preferably shaped to fit on the top rim of the vessel A′, in which the eggs are to be boiled. Said frame A is provided with a series of radial or other arms, at the inner ends of which the hub B is formed, through which the rod C is passed, having the handle-knob D on its upper end and the annularly-recessed plate or cup E on its lower end. A short distance above the cup E a ring-shaped plate, F, is fastened on the rod C, the top of said ring-shaped plate being beveled or curved concavely, as shown. A spiral spring, G, surrounds the rod C between the handle-knob D and the hub B and serves to press said rod upward. The rod C is provided about the middle of its height with an annular groove, H, adapted to receive a pin, J, projecting from a latch, K, pivoted in a vertical slot of the hub B, which latch is provided with a curved arm, L. In jaws M on the hub the lever N is pivoted, which is provided with a weight, N′, on its upper end and a stop-lug, N^2, a short distance below the weight, and at its pivoted end said lever is provided with an arm, O, and with an offset or shoulder, P, which acts on the bottom curved edge of the arm L of the latch K. Said lever N is also provided with a laterally-projecting flat plate, Q, which extends over the top edge of the curved arm L of the latch K. A ring, R, surrounding the hub B is pivoted to the same by the pivots R′, as shown in Fig. 2, and is provided on one end with an angular arm, S, carrying an adjustable weight, S′, and from the opposite end of said ring R a rabbeted ring, T, projects, which serves to receive a vessel or cup, U.

A standard, V, is provided on the frame A, and on the upper end of the same a vessel, W, is held, from the bottom of which the funnel W′ projects. A strainer, W^2, is placed into the vessel W for the purpose of allowing only clear water to flow, so that the outlet cannot become clogged and will always have the same opening. In place of water, sand, shot, or other equivalent can be used. The standard V is provided with a lug, V′, against which the ring T can strike.

The operation is as follows: The rod C is pressed down, and thereby the spring G′ compressed, until the annular groove H of said rod arrives at the latch K, when the pin J snaps into said groove and locks the rod in place. The eggs are placed into the recessed cup or dish E, and a quantity of water poured into the vessel W sufficient to cause the cup U to descend and to raise the weight S′, which is adjusted on its arm S according to the time the eggs are to be boiled. The lever N is raised, and the inner end of the angular arm S rests upon the plate Q of said lever N, and the weight exerted by said arm S on the plate Q keeps the lever N in its raised

position. When all the water has flowed out of the vessel W into the vessel U, the latter descends slightly and raises the arm S. The pressure is thus taken from the plate Q, whereby the lever N is released and swung by its weight N′ in the direction of the arrow *a′*, Fig. 3, and the offset P on the lower end of said lever swings in the same direction. This offset acts on the under edge of the curved arm L of the latch K and lifts the same, as shown in dotted lines in Fig. 3 and full lines in Fig. 4, whereby the pin J is withdrawn from the annular groove H in the rod C and permits the expanding spring G′ to throw the rod C upward, whereby the cup E on the rod is lifted out of the boiling water. The beveled ring F strikes on the arm O on the lower end of the lever N and swings said arm upward, and the lever N in the inverse direction of the arrow *a′*, Fig. 3, thus permitting the pin J on the latch K to lock the said rod C. If the water has been poured out of the vessel U, the weight S′ can act and exert sufficient pressure upon the plate Q to hold the same in place, as shown in Fig. 3, as said plate Q is swung under the inner end of the arm S by the action of the annular ring F upon the arm O, as previously described. Water is again poured into the vessel W and the rod G pressed downward, when the apparatus is ready to receive another set of eggs, and the above operation is repeated.

By adjusting the weight S′ and so on a correspondingly larger or smaller quantity of water can be used in the vessel W, and this apparatus can be adapted for lifting eggs out of the water after one or more minutes, as may be necessary.

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

1. In an egg-boiler, the combination, with an egg-receiver, of a rod on the lower end of which the receiver is secured, a spring for throwing the rod upward, a latch for locking the rod in place, a weighted swinging lever for operating the latch, and a gravity device for releasing said pivoted lever, substantially as shown and described.

2. In an egg-boiler, the combination, with an egg-receiver, of a rod on the lower end of which the receiver is secured, a spring for raising said rod, a latch for locking the said rod in place, a pivoted lever provided with a plate or lug extending over the latch, and also provided with an offset for acting on said latch, and a lever pivoted above said plate or lug and having one end weighted and the other adapted to receive a vessel for receiving water, substantially as shown and described.

3. In an egg-boiler, the combination, with an egg-receiver and a rod to the lower end of which the receiver is fastened, of a spring for pressing said rod upward, a latch, K, the pivoted lever N, having the arm O, the gravity device for releasing the lever N, and the piece or plate on the rod C, for the purpose of acting on the arm O of the lever N, substantially as shown and described.

4. In an egg-boiler, the combination, with an egg-receiver and a rod to the lower end of which the receiver is fastened, of a spring for pressing said rod upward, the latch K, the pivoted lever N, having the offset P and the lug or plate Q, extending over an arm of the latch K, a lever carrying an adjustable weight and a receptacle, and the vessel W, from which the water can flow into said receptacle, substantially as shown and described.

5. The combination, with an egg-receiving vessel, of the rod C, to which the vessel is secured, which rod has an annular groove, H, a spring for pressing said rod upward, the pivoted lever K, having the pin J and curved arm L, the pivoted lever K having the offset P acting on the curved arm L, and the pivoted lever for locking the lever N in place, substantially as shown and described.

6. The combination, with the frame A, of the standard V, the vessel W, provided with the funnel W′, the combined rings and lever T R S, the weight S′ on the lever S, the rod C, passed through the center of the frame A and carrying the egg-receiver, the latch K, and the weighted pivoted lever for disengaging said latch from the rod, substantially as shown and described.

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

EDGAR GRAUERT.

Witnesses:
JOHN A. STRALEY,
MARTIN PETRY.