

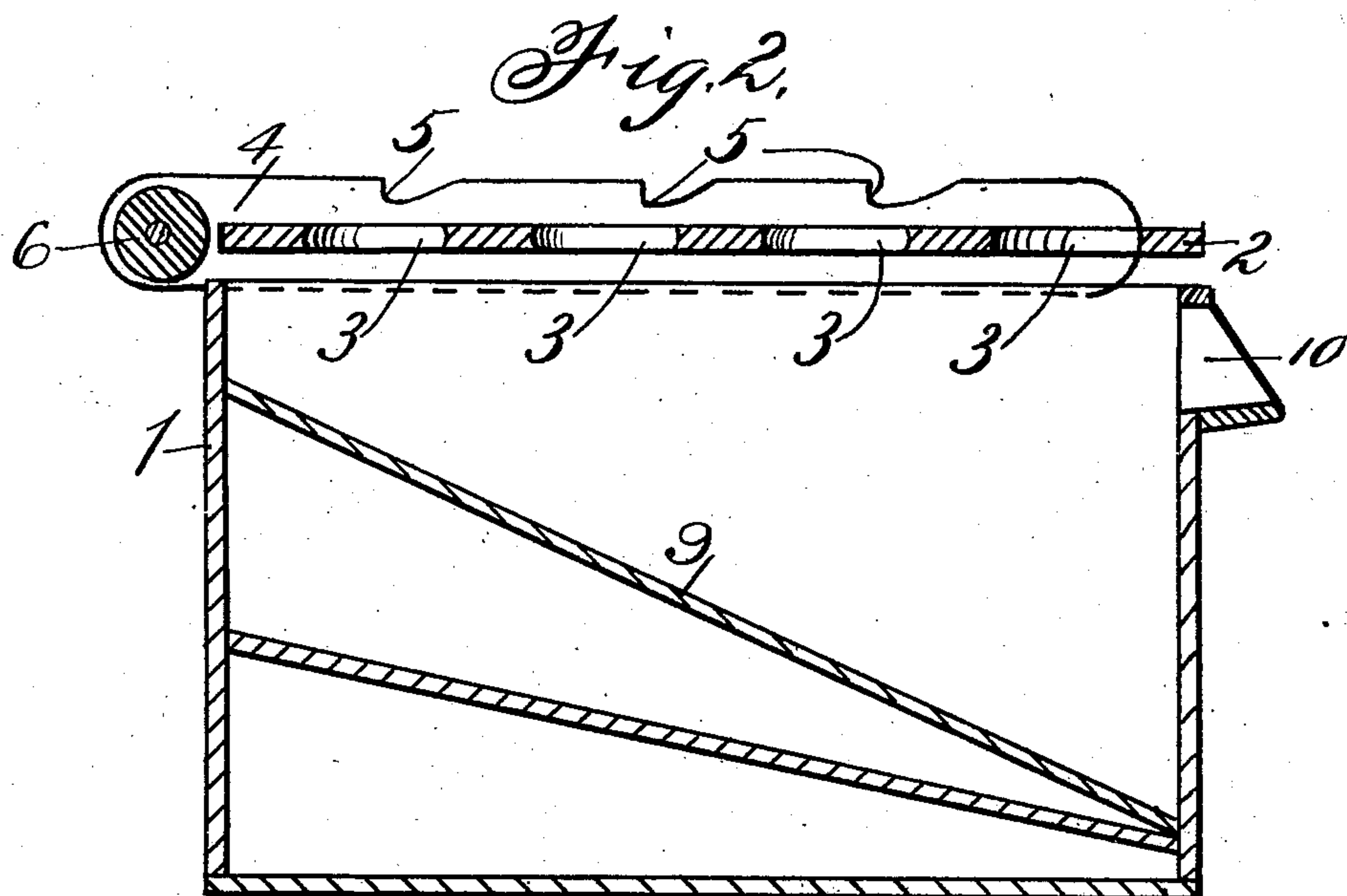
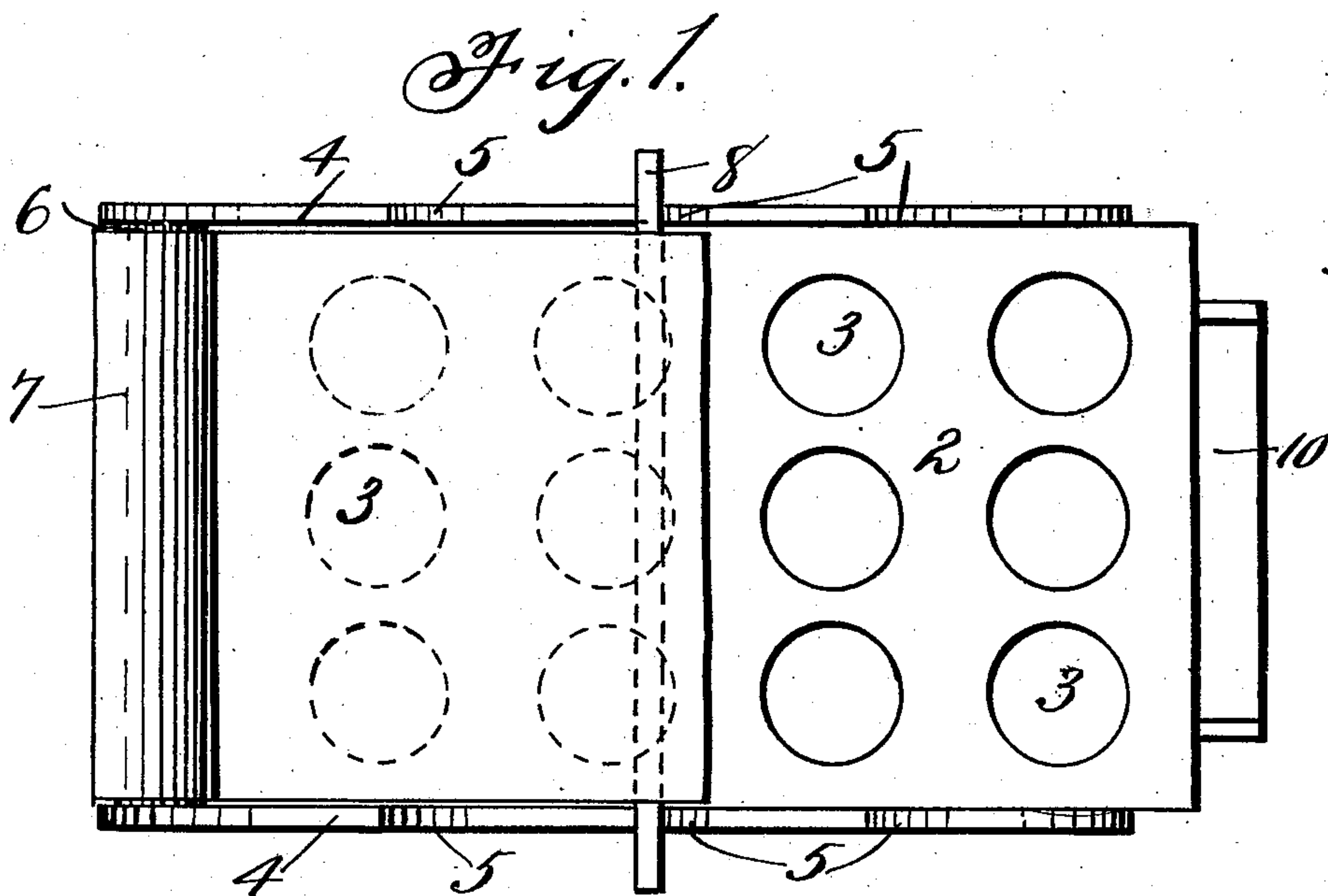
No. 860,194.

PATENTED JULY 16, 1907.

C. E. DYER.
EGG TESTER.

APPLICATION FILED OCT. 1, 1906.

2 SHEETS—SHEET 1.



Witnesses
J. P. Duffie.
B. C. Trott.

Charles E. Dyer
By J. P. Duffie
Attorney

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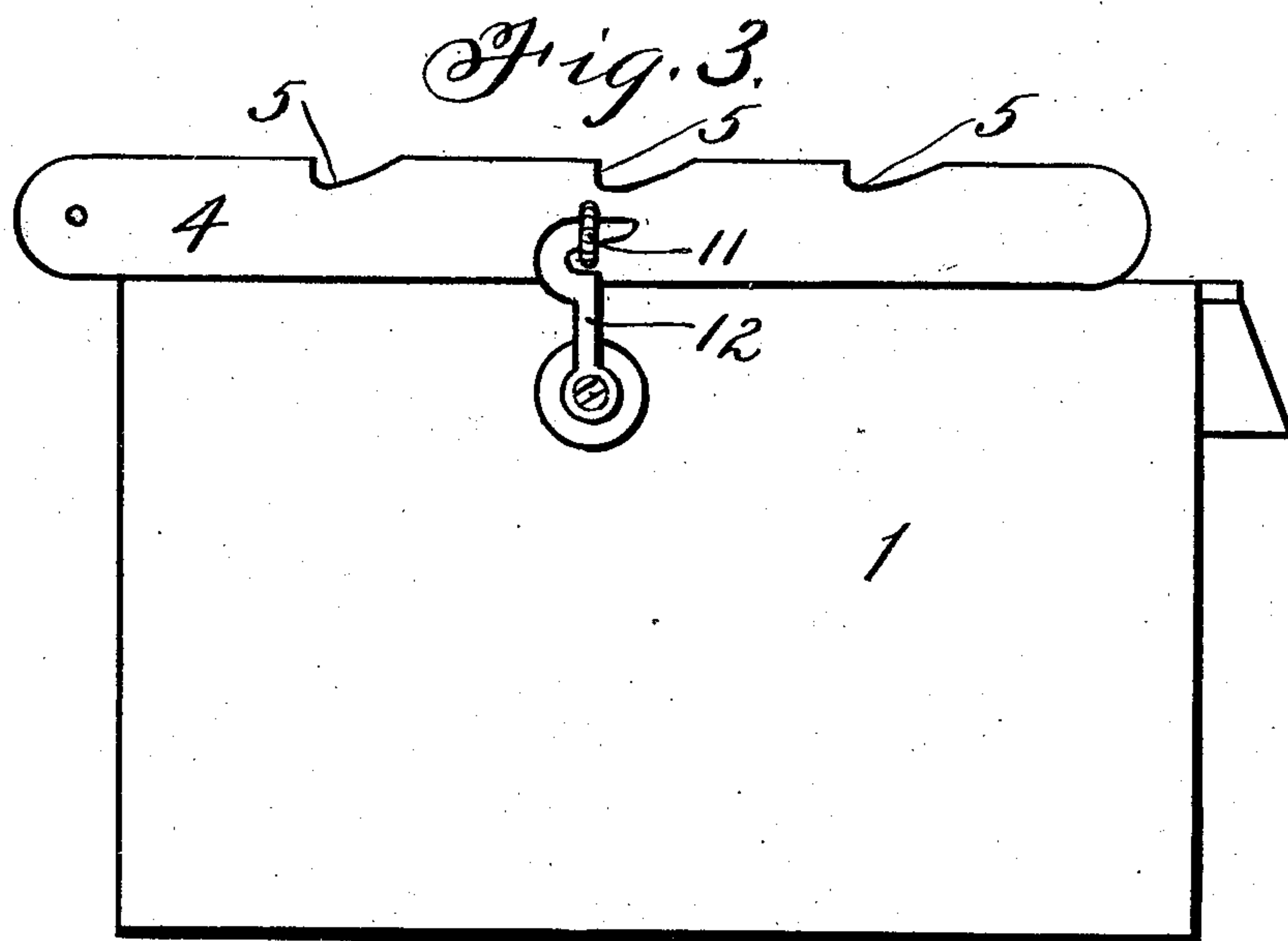
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Witnesses
J. P. Duffie
P. C. Trott

Charles E. Dyer Inventor
By J. P. Duffie
His Attorney

UNITED STATES PATENT OFFICE.

CHARLES E. DYER, OF MULBERRY, ARKANSAS, ASSIGNOR OF ONE-HALF TO JOHN W. HANSEL.

EGG-TESTER.

No. 860,194.

Specification of Letters Patent.

Patented July 16, 1907.

Application filed October 1, 1906. Serial No. 336,925.

To all whom it may concern:

Be it known that I, CHARLES E. DYER, a citizen of the United States, residing at Mulberry, in the county of Crawford and State of Arkansas, have invented certain new and useful Improvements in Egg-Testers, of which the following is a specification.

My invention has relation to new and useful improvements in devices for testing eggs, and has for its object the production of a device of this character whereby each of a series of eggs arranged in parallel rows may be separately examined without interference with the other rows:—

With these ends in view my invention consists in the novel construction, combination and arrangement of parts as set forth in the specification and claims hereunto appended.

In the accompanying drawings, in which like parts are designated by like characters throughout the several views:—Figure 1, is a top plan view of my invention. Fig. 2, is a longitudinal vertical sectional view of my invention with the curtain and rod removed and the tray raised out of contact with the top of the box to more advantageously show its construction. Fig. 3, is a side elevation of my invention.

My invention is described as follows:—

The numeral 1 designates a box or casing of preferably rectangular form closed upon its sides and bottom and having an open top. On the top of said box or casing is removably mounted a tray 2, having a series of vertical parallel perforations 3, each of a diameter slightly less than the diameter of an ordinary egg. Said tray completely covers the top of said box or casing. Secured longitudinally at their inner faces or sides to the side edges of said tray are longitudinal beams, provided, each, in its upper edge, with a series of notches 5. The rear ends of said beams extend beyond the adjacent end of said tray and have journaled between them a transverse roller 6, upon which is wound a curtain 7, of sufficient length when unrolled to cover the top of the entire tray. Said curtain is provided at its free end with a transverse rod 8, the function of which will be hereinafter disclosed. Arranged in said box or casing is a mirror 9, which is inclined relatively to the floor of the box at an obtuse angle. The front end of said box or casing is provided with a sight opening 10. The said mirror 9 is arranged in said box or casing at such an angle relative to the tray that the line of vision through the sight opening 10 will fall upon the mirror at an angle equal to the angle of reflection of the eggs placed in the perforations of said tray. Said longitudinal beams 4 are provided on their outer faces intermediate of their lengths with catches 11 which are adapted to be engaged by hooks

12, pivoted at their lower ends to the sides of said box or casing. Said hooks and catches serve to removably secure the tray on the top of the box or casing. The lower edges of said longitudinal beams extend down beyond the under face of said tray and prevent lateral displacement of same.

In use, the eggs are placed in the perforations of the tray and the tray fitted over the upper or open end of the box or casing. The eyes are then applied to the sight-opening 10, when the light will be transmitted through the eggs and indicate to the observer their condition.

When a row of eggs are examined they are removed from the tray and the curtain 7 unwound sufficiently from the roller 6 to cover up the perforations in which they were placed. The ends of the transverse rod 8 are then placed in the corresponding notches of the longitudinal beams 5 adjacent the row of perforation in which the removed eggs were placed and hold the free end of the curtain in position. This method is carried out until all of the eggs have been examined.

In case the user has but a few eggs to examine, say enough to fill up only one row of perforations, the eggs are placed in the front row of perforations of the tray and the remaining perforations darkened by the curtain.

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

1. In an egg tester, the combination of a box 1 having a sight opening 10 in its front end; an inclined mirror 9, arranged near the bottom of said box; perforated tray 2, removably secured on the top of said box; longitudinal beams 4, each having a series of notches 5 in its upper edge, secured at their inner faces to the side edges of said tray, their rear ends extending beyond the adjacent end of said tray; a roller 6, journaled between the rear ends of said beams; a flexible opaque curtain 7, wound around said roller and a transverse rod 8, secured to the free end of said rod and adapted to engage in the notches of said longitudinal beams, substantially as shown and described and for the purposes set forth.

2. In an egg tester, the combination of a box having a sight opening; an inclined mirror, arranged in said box; a perforated tray, secured on the top of said box; longitudinal beams, each having a series of notches in its upper edge, secured to the side edges of said tray; a roller, journaled between the said beams, adjacent one end of said box and tray; a curtain, wound around said roller and a transverse rod, secured to the free end of said curtain and adapted to engage in the corresponding notches of said longitudinal beams, substantially as shown and described and for the purposes set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CHARLES E. DYER.

Witnesses:

C. E. DANLEY,
J. C. CAMPBELL.