

No. 682,023.

Patented Sept. 3, 1901.

J. C. BOWERS & E. DOOL.

EGG TESTER.

(Application filed May 8, 1901.)

(No Model.)

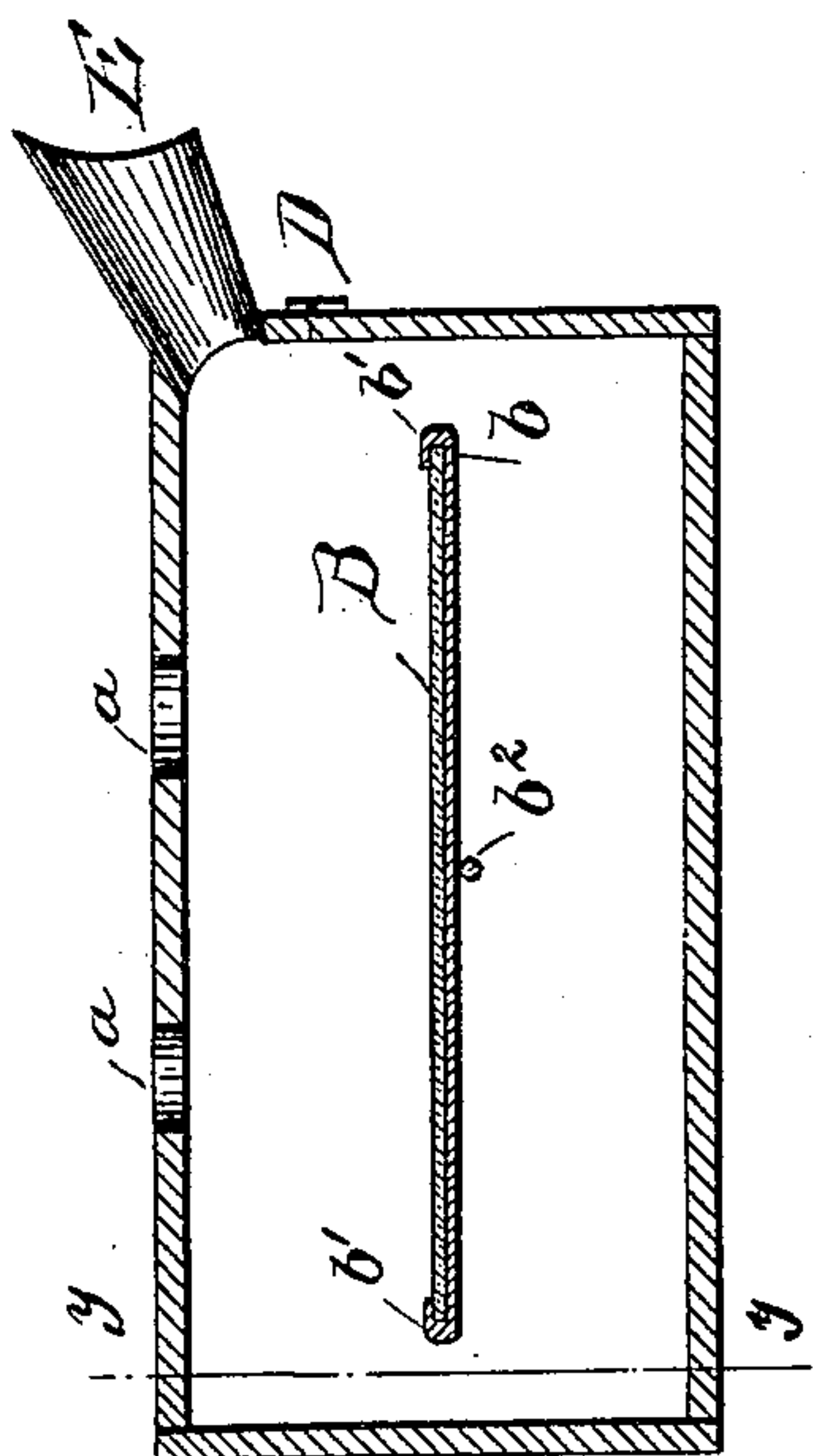


Fig. 3.

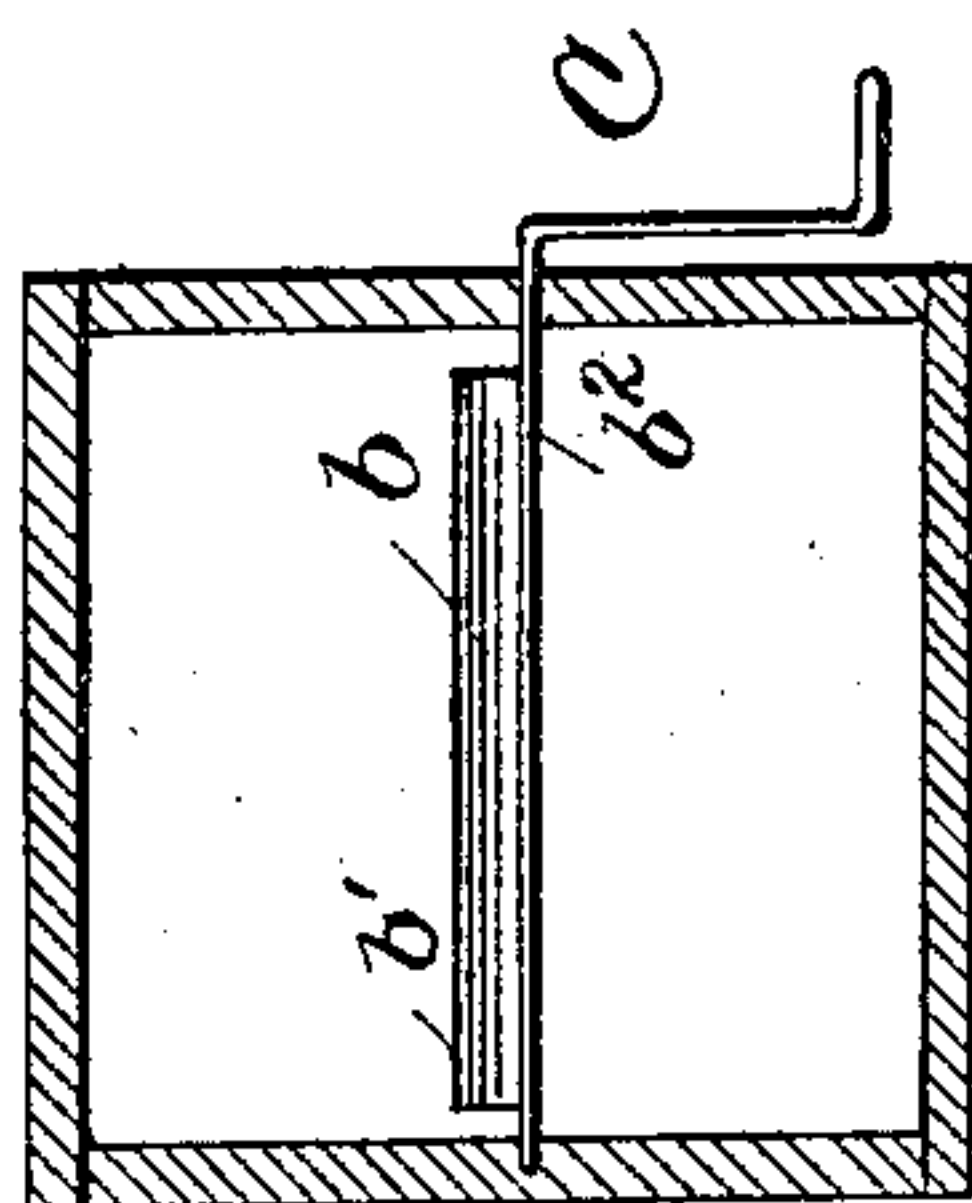


Fig. 4.

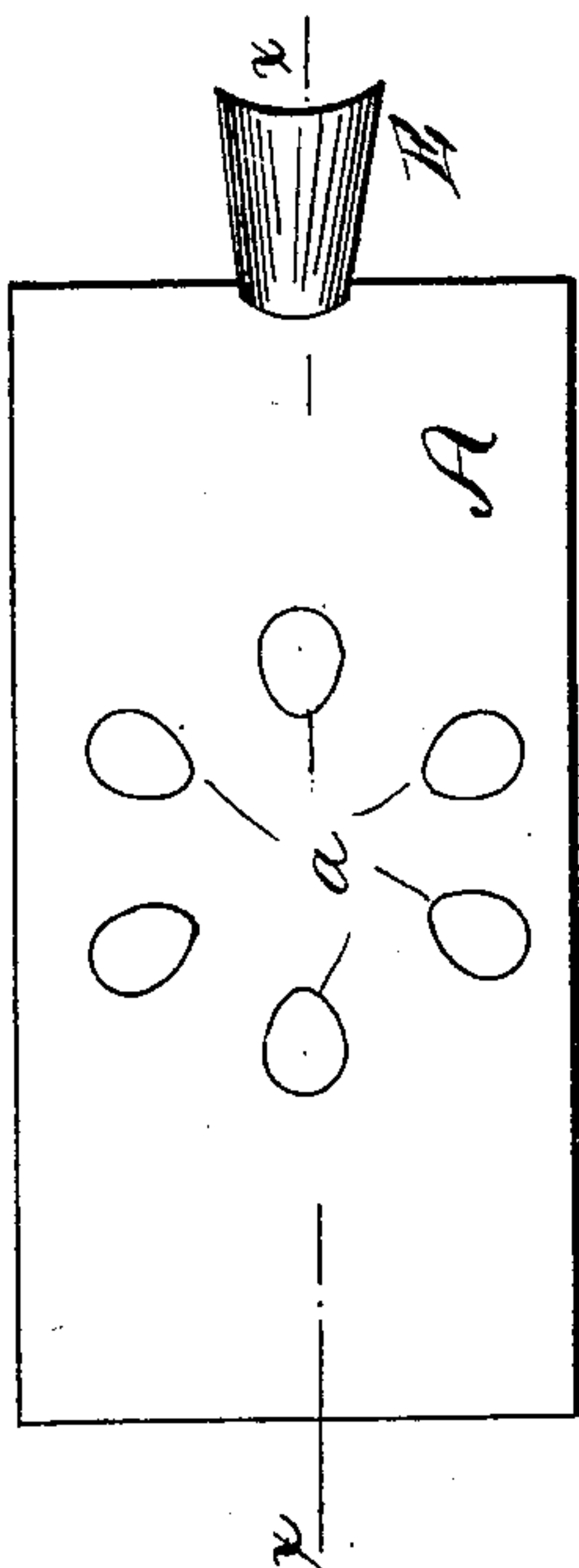


Fig. 1.

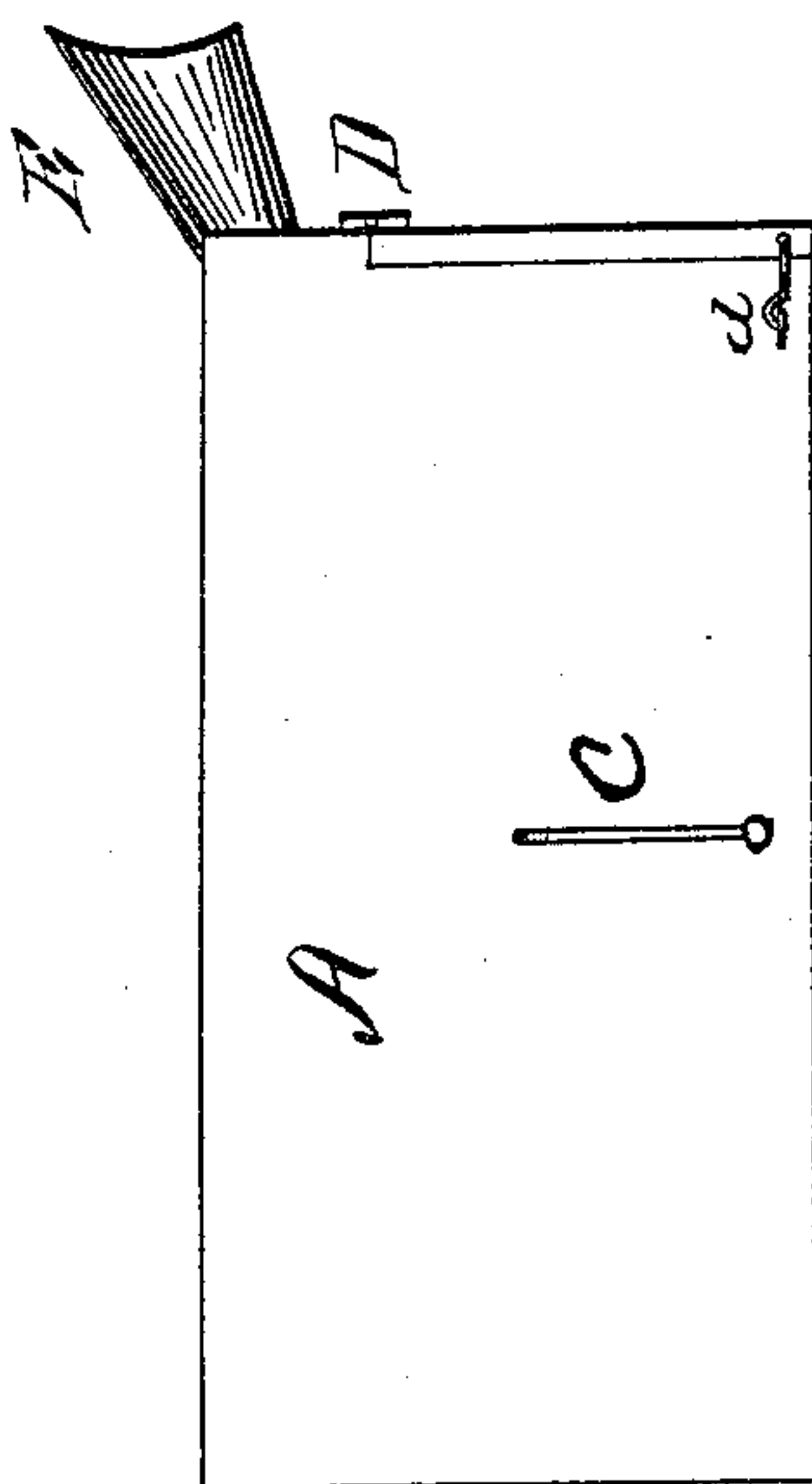


Fig. 2.

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# UNITED STATES PATENT OFFICE.

JOHN C. BOWERS AND EDWARD DOOL, OF ALEDO, ILLINOIS.

## EGG-TESTER.

SPECIFICATION forming part of Letters Patent No. 682,023, dated September 3, 1901.

Application filed May 6, 1901. Serial No. 58,963. (No model.)

*To all whom it may concern:*

Be it known that we, JOHN C. BOWERS and EDWARD DOOL, citizens of the United States, residing at Aledo, in the county of Mercer and State of Illinois, have invented certain new and useful Improvements in Egg-Testers; and we 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, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in egg-testers, and it is embodied in the construction and arrangement of parts to be described, and defined in the claim.

The object of the invention is to provide a convenient device for the purpose of inspecting and testing eggs to determine their quality and condition and to discover unsoundness, deterioration, or decay.

In the drawings we have shown a construction which embodies the invention; but it is to be understood that various changes in the details of construction may be made without in the least departing from the general nature and principle of the invention.

Figure 1 is a top plan view. Fig. 2 is a side elevation. Fig. 3 is a vertical section on the lines  $x x$  of Fig. 1, and Fig. 4 is a vertical section on the lines  $y y$  of Fig. 3.

A represents a case or box of any desired size, which may be constructed of wood, sheet-iron, or other suitable material. In the top thereof are a number of openings or apertures  $a$ , six being shown in the drawings; but our invention is not limited to that number. These apertures are egg-shaped, so that the eggs will rest upon and be held in place by the edges of the apertures.

B represents a mirror embedded upon a tin or other metallic plate  $b$  and held thereto by clamping the edges  $b'$  of the plate over the

edges of the mirror. A rod  $b^2$  is fastened to the bottom of the plate  $b$  about or at its center. One end of the rod  $b^2$  extends into one side of the box at some distance from the bottom and the opposite end is extended through the opposite side of the box and formed into a crank C, by means of which the operator is enabled to turn the mirror to any desired angle. One side of the box is hinged at D and held in place by a hook  $d$ , enabling the operator to open the box when it is desired to cleanse the interior of the same or to polish the mirror.

E represents an oval-shaped tube opening into the box at an angle with the top thereof, the outer end of said tube being shaped to fit the upper part of the brow and eyes of the operator and so arranged as to exclude all light from entering the box at that point when the tester is in use, the object and purpose being to exclude all light from the interior of the box except the rays of light penetrating through the eggs when they are placed on the openings  $a$ .

Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

In an egg-tester, in combination, a box, having perforations in the top thereof, a mirror within the box, pivots supporting the mirror intermediate its ends, so that it may be inclined in either direction from the horizontal, and an eye-tube projecting beyond the walls of the box and adapted at its outer end to fit the face of an operator and thereby exclude all light from the box except such as enters through the perforations.

In testimony whereof we affix our signatures in presence of two witnesses.

JOHN C. BOWERS.  
EDWARD DOOL.

Witnesses:

J. L. BRADLEY,  
ALEX. MCARTHUR.