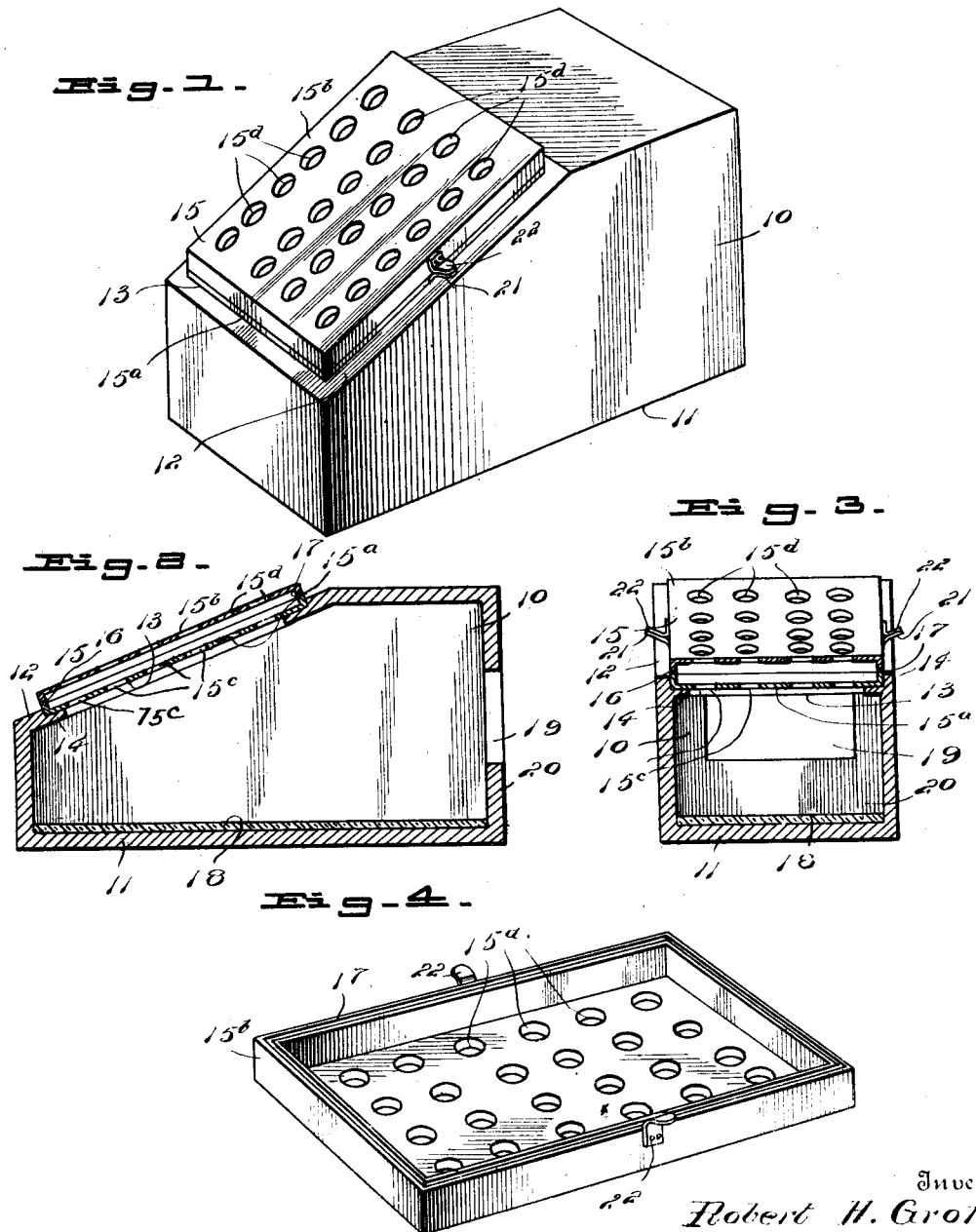


R. H. GROFF.
EGG TESTER.
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ROBERT H. GROFF, OF CEDAR RAPIDS, IOWA.

EGG-TESTER.

1,051,324.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, ROBERT H. GROFF, a citizen of the United States, residing at Cedar Rapids, in the county of Linn and State of Iowa, have invented new and useful Improvements in Egg-Testers, of which the following is a specification.

An object of the invention is to provide an egg tester for use in candling eggs.

The invention embodies, among other features, an apparatus whereby a large number of eggs can be candled in a short space of time, use being made of a mirror mounted within a box-like structure for reflecting the eggs mounted on the box-like structure, a suitable carrier being provided for supporting the eggs in candling position.

In the further disclosure of the invention reference is to be had to the accompanying drawings, constituting a part of this specification, in which similar characters of reference denote corresponding parts in all the views, and in which:

Figure 1 is a perspective view of the device; Fig. 2 is a vertical longitudinal sectional view; Fig. 3 is a vertical transverse sectional view; and Fig. 4 is a perspective view of one of the sections of the carrier.

Referring more particularly to the views, I employ a box-like casing 10 including a base 11 and provided with an inclined face 12 having an opening 13 therein, flanges 14 being formed with the face 12 and projecting into the opening 13 to support therein a carrier 15.

The carrier 15 preferably consists of a plurality of sections 15^a and 15^b, said sections being similar and provided respectively with openings 15^c and 15^d. The section 15^a is preferably called the bottom section and is provided on its face with a rib 16, the section 15^b or top section being preferably provided with a groove 17 adapted to receive the rib 16 when the section 15^b is mounted upon the section 15^a, the openings 15^c in the section 15^a being adapted to register with the openings 15^d in the section 15^b, it being readily understood that one of the sections of the carrier 15, or both, can be conveniently mounted in the opening 13 in the face 12 and supported therein by the flanges 14, described heretofore.

A mirror 18 is mounted on the base 11 of the casing 10 and an opening 19 is formed in the rear wall 20 of the casing.

In the use of the device, the section 15^a

is placed in the opening 13 of the casing, a number of eggs having been previously mounted in the openings 15^c in the section 15^a, it being understood that the openings 15^c are restricted to an extent sufficient to support the eggs therein. Now by gazing through the opening 19 in the rear wall of the casing 10, the operator will see the lower ends of the eggs on the section 15^a reflected in the mirror 18 and thus any defects in the eggs can be readily detected. The section 15^b is now placed upon the section 15^a so that the upper ends of the eggs on the section 15^a will extend through the openings 15^d in the section 15^b and the two sections, constituting the carrier 15, are now removed from the casing and turned upside down and replaced on the casing so that the section 15^b will be supported in the opening 13 so that the other ends of the eggs will depend in the casing 10, the section 15^a being now removed and placed aside. The operator then again gazes through the opening 19 and can then readily detect any defects in the other ends of the eggs, thus completing the candling operation.

In the use of a device of the character described, it should be noted that the eggs can be candled in day light and it is not necessary to take the apparatus into a dark room as is usually the case in candling eggs. It should also be noted that with my device a large number of eggs can be candled at one time and need not be separately candled as is the case in a large number of egg testers now generally used. By providing the rib 16 on the section 15^a and the groove 17 on the section 15^b, the operator can more easily connect the sections so that the apertures or openings 15^c and 15^d in the respective sections 15^a and 15^b will register. The section 15^a and the section 15^b can be made of any desirable material, wood or cardboard being preferably employed, and it will be understood that the sections can also be used without the use of the rib 16 and groove 17. If desirable suitable handles 21, 22 can be provided on the sections 15^a, 15^b, respectively, for the purpose of facilitating the handling of the sections.

Having thus described my invention, I claim:

1. In combination with an egg tester including a casing, a carrier adapted to be supported on the casing, the said carrier consisting of similar connectible sections

provided with registrable openings adapted to receive eggs, a rib on one of the said sections and adapted to be received in a groove in the other section so that the openings in the respective sections will register when the sections are connected.

2. In combination with an egg tester including a casing, a carrier adapted to be supported on the casing, the said carrier consisting of similar connectible sections provided with registrable openings adapted to receive eggs, a rib on one of the said sections

and adapted to be received in a groove in the other section so that the openings in the respective sections will register when the sections are connected, and handles secured to the said sections.

In testimony whereof I affix my signature in presence of two witnesses.

ROBERT H. GROFF.

Witnesses:

F. M. DAMAN, Jr.,
WILLIAM MOEHL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."