(No Model.)

# F. H. JUERGENS.

## EGG TESTER.

No. 431,591. Patented July 8, 1890.

Fig. 1.

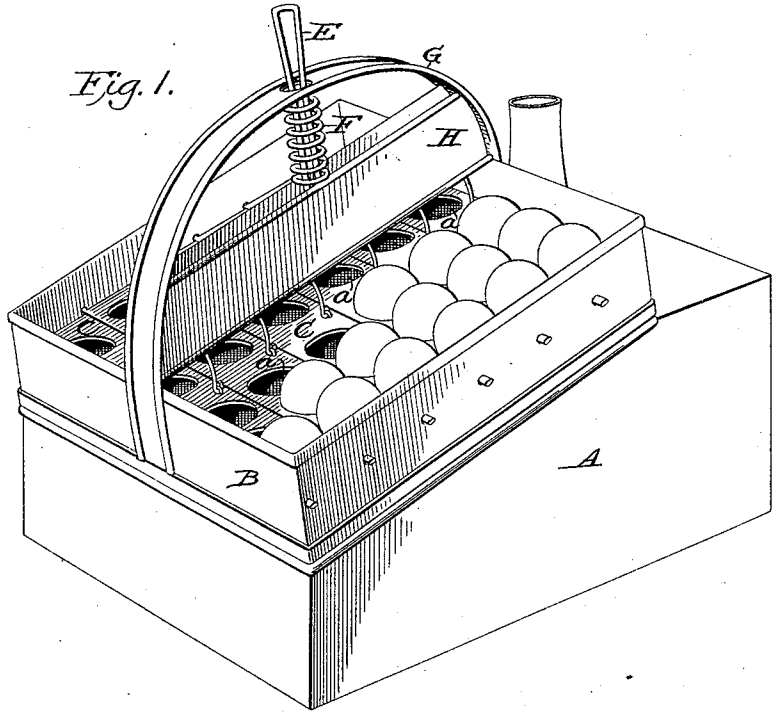
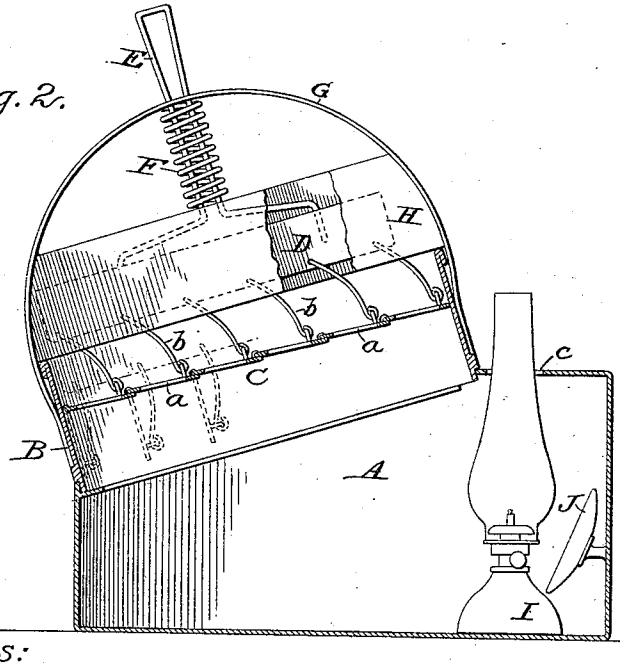



Fig. 2.




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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

# UNITED STATES PATENT OFFICE.

FRANK H. JUERGENS, OF HUTCHINSON, MINNESOTA.

## EGG-TESTER.

SPECIFICATION forming part of Letters Patent No. 431,591, dated July 8, 1890.

Application filed March 4, 1890. Serial No. 342,587. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK H. JUERGENS, a citizen of the United States, residing at Hutchinson, in the county of McLeod and State of Minnesota, have invented certain new and useful Improvements in Egg-Testers, of which the following is a specification.

This invention relates to an improved device for testing eggs; and it consists in the novel construction and arrangement of parts, as hereinafter set forth and claimed.

In the drawings, Figure 1 is a perspective view of the improved egg-tester, and Fig. 2 a sectional view of the same.

A indicates a box or casing, the top of which for a greater part of its length is inclined, and is left open to permit the eggs carried by the holder B to receive the light from the lamp or other light-giving device I. The holder or frame B is an open rectangular frame having a series of pivoted slats C, which are in turn provided with openings *a* to receive the eggs, the slats being pivoted at one edge only, as shown in Fig. 2. Each of the slats is connected at its forward edge by means of a link or rod *b* with a plate or bar D, which in turn is connected to a push-rod E, encircled by a coiled spring F, bearing at its opposite ends against the under side of the handle G and the upper face of a cross-bar H, secured to the handle, the arrangement of the parts being such that when the push-bar E is depressed all of the slats C will be tipped or rocked and brought into position at right angles to that which they ordinarily occupy and discharge the eggs into the cell.

Within the box or casing A is placed a lamp or other suitable light-giving device I, the chimney of which projects out through an opening *c* in the flat portion of the top of the box or casing A, as will be seen upon reference to Fig. 2, a reflector J being advisably used in connection with the lamp to throw the light directly up through the eggs in the slats C.

By arranging the top of the box or casing A, so as to give a greater inclination to the holder than is represented in the drawings, better results will be secured, because under such arrangement the rays of light would pass more nearly through the longer axis of the eggs.

The holder B is detachable and may be removed for filling.

Having thus described the invention, what is claimed is—

1. In an egg-tester, the combination, with the box or casing A, having an open top, of a light-giving device located within the box, and a removable holder B, provided with a series of egg-holding slats, substantially as shown and described.

2. In combination with a box or casing A, provided with an inclined open top, the holder B, provided with a series of egg-holding slats, and a light-giving device located within the casing, all substantially as shown and described.

3. In combination with box or casing A, open frame B, provided with handle G, a cross-bar H, pivoted egg-holding slats C, a plate or bar D, connected with the slats by means of links *b*, a push-rod E, connected with the plate or bar D, and a spring F, encircling the rod and bearing at its opposite ends against the handle and the cross-bar.

In witness whereof I hereunto set my hand in the presence of two witnesses.

FRANK H. JUERGENS.

Witnesses:

R. W. LAING,

W. D. GRAHAM.