(No Model.)

S. I. BITTING.

EGG TESTER.

No. 564,300. Patented July 21, 1896.

Fig. 1.

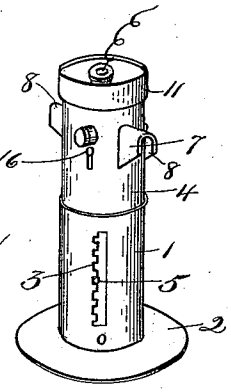


Fig. 2.

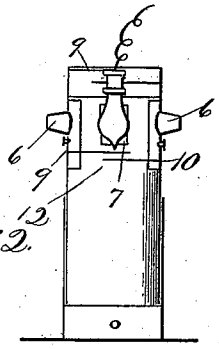


Fig. 4.

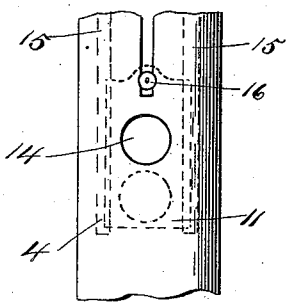


Fig. 3.

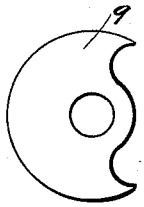
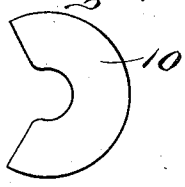


Fig. 5.



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UNITED STATES PATENT OFFICE.

SAMUEL I. BITTING, OF BROOKLYN, NEW YORK.

EGG-TESTER.

SPECIFICATION forming part of Letters Patent No. 564,300, dated July 21, 1896.

Application filed September 20, 1895. Serial No. 563,073. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL I. BITTING, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented a certain new, useful, and valuable Improvement in Egg-Testing Devices, of which the following is a full, clear, and exact description.

My invention relates to egg-testing devices; and it has for its object to provide a lantern so constructed as to shed its rays in one or more directions simultaneously, as shown in accompanying drawings.

Similar numerals refer to similar parts throughout the several views.

Figure 1 is a vertical elevation of the entire device. Fig. 2 shows a cross-section of same. Fig. 3 illustrates one of the ventilating-disks. Fig. 4 shows a sliding combination shutter and reflector.

A cylinder or other shaped tube 1 is secured to the base 2, and has a slot 3, one edge being notched or toothed. A tube 4 of same shape, but fitted to slide within tube 1, has a pin 5, adapted to engage with above-mentioned notches in said tube 4, is also provided near its upper end with one or more parts 6 and windows or openings 7, having over them the shades 8, which, as here shown, would throw the light out and down; but the angles of these shades may be varied to throw the light in any desired direction. In the windows or openings 7 are secured two pieces of mica with a sheet of tissue-paper between, which renders a soft light. The ventilating shade-disks 9 10, which are secured in the cap or top of cylinder 4, serve in this case to support the electric lamp; but as this form of illumination is not essential a second set of disks is provided, as shown at point 12, upon which may be supported in any suitable form of oil-lamp or candle. The particular design of disk is not necessary, as numerous shapes will answer the purpose of ventilating and obstructing the passage of light, which is the purpose or function of these disks. A shutter 13, (shown in dotted lines in Fig. 4,) having a perforation 14, which corresponds with the part 7, and having its inner surface polished, is located so as to slide vertically in tracks 15, one in front on the inside of the cylinder 4 of each of the parts 6, a set-nut 16 being provided to fasten the shutter wherever desired.

To test with this device, the egg is held in part of but a little above one of the parts 7, through which a strong concentrated light beams from the lamp within. The egg becoming quite transparent when subject to a strong light, reveals or shows up any defects on the yolk or interior of the egg.

Many minor changes may be made without avoiding the spirit of my invention, as

What I claim is—

1. In an egg-testing device, the combination with a supporting-base, of an upright casing adjustably connected to the base and provided with a plurality of light-openings having semi-transparent coverings, shades extending outward from the casing and partially surrounding the upper portion of the openings, a lighting device arranged within the casing, and ventilating-plates secured within the casing above and below the light, said plates being overlapped but separated one from the other, substantially as described.

2. In an egg-testing device, the combination with a hollow supporting-base, of an upright casing telescopingly connected to said base and adapted to be adjusted to various heights, one or more light-openings or windows arranged in said casing, shades extending outward from the casing and partially surrounding the upper portion of said light-openings, and a suitable lighting device arranged within the casing, substantially as described.

3. In an egg-testing device, the combination with a hollow supporting-base provided on one side with an elongated slot having a toothed or notched edge, of an upright casing telescopingly connected to said base and having a pin extending outward from one side and adapted to engage with said notches whereby the casing can be adjusted as to height, windows or openings in the side walls of the casing, outwardly-extending shades covering the upper portion of said openings, a cap or cover fitting over the top of said casing, and a suitable lighting device within the casing, substantially as described.

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

SAMUEL I. BITTING.

Witnesses:

EARNEST A. FITTER,

SAMUAL O. HAVENS.