

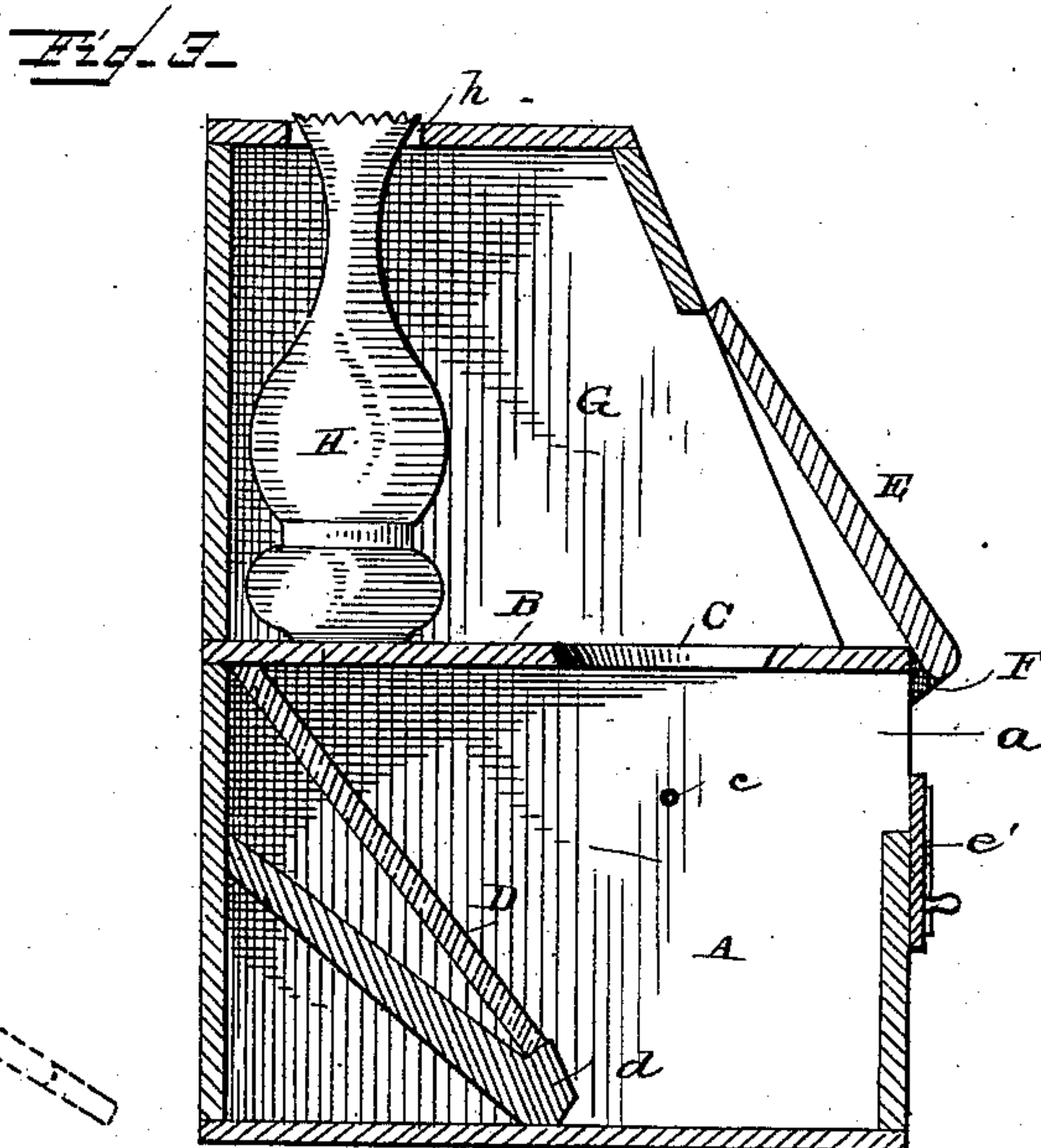
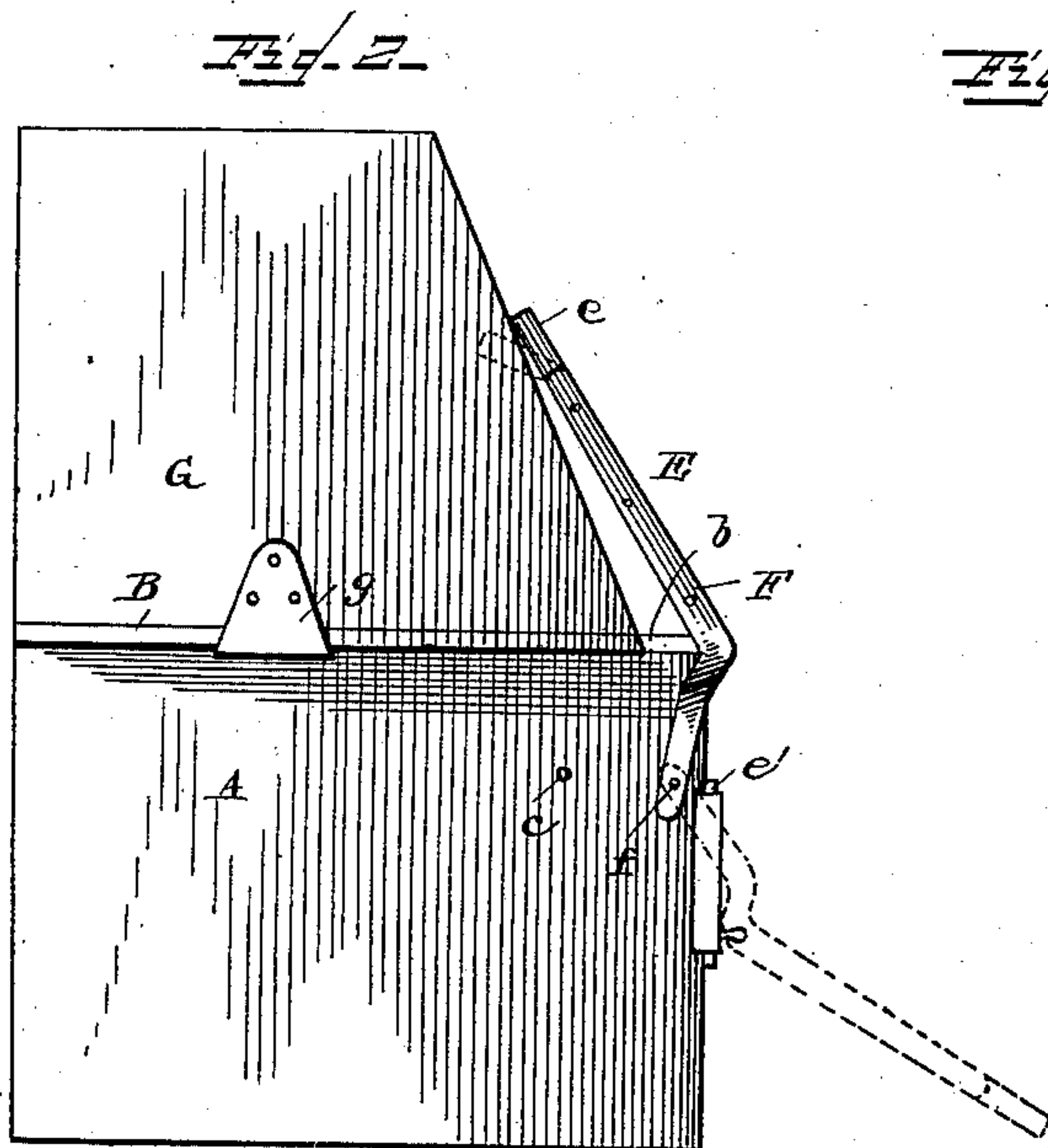
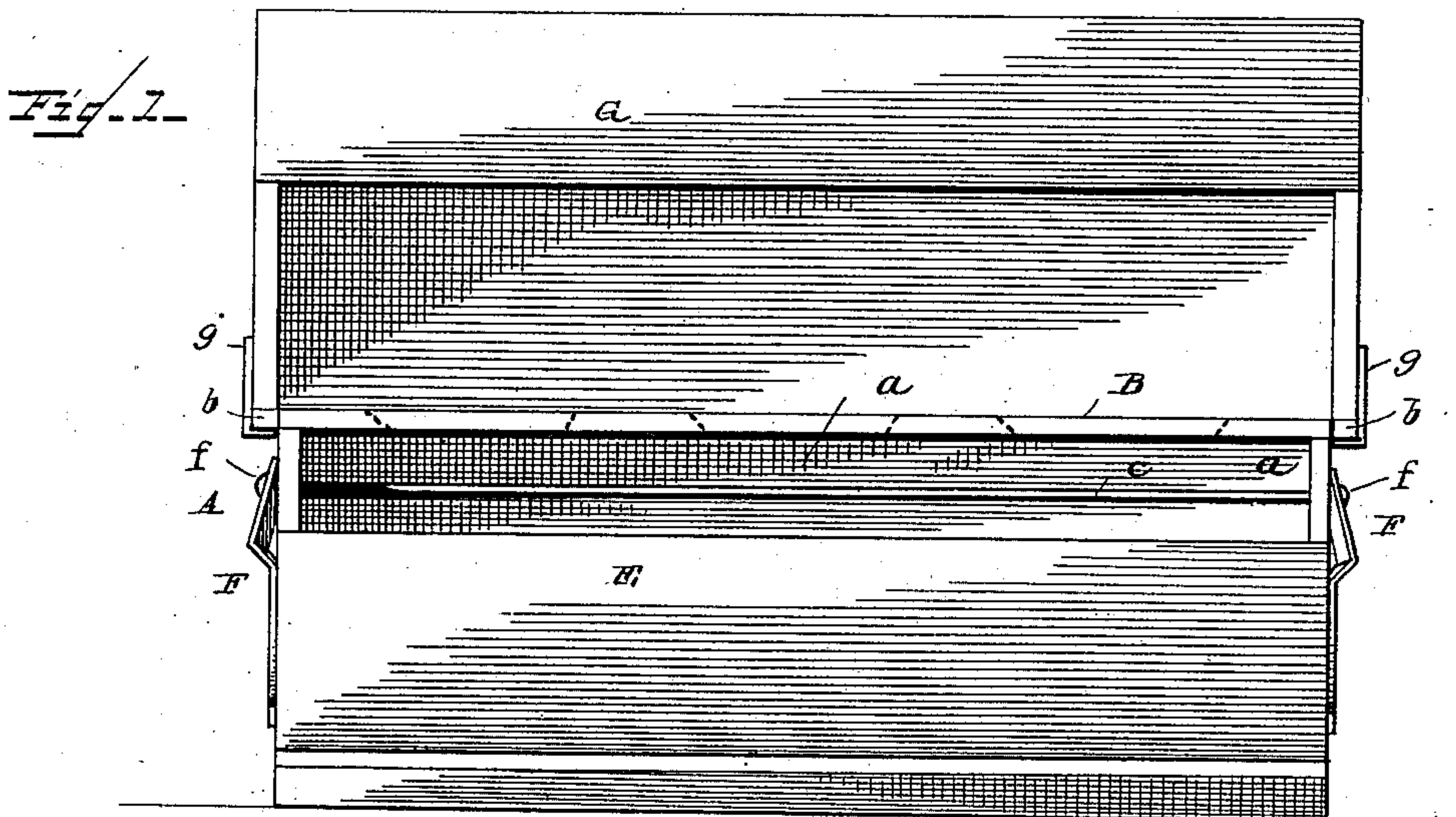
(No Model.)

R. STUCKWISCH.

EGG TESTER.

No. 378,853.

Patented Feb. 28, 1888.



WITNESSES

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# UNITED STATES PATENT OFFICE.

RUDOLPH STUCKWISCH, OF CORY, INDIANA.

## EGG-TESTER.

SPECIFICATION forming part of Letters Patent No. 378,853, dated February 28, 1888.

Application filed September 3, 1887. Serial No. 248,717. (No model.)

*To all whom it may concern:*

Be it known that I, RUDOLPH STUCKWISCH, of Cory, in the county of Clay and State of Indiana, have invented certain new and useful Improvements in Egg-Testers; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification, in which—

Figure 1 is a front view of my improved egg-tester with the movable reflector down. Fig. 2 is an end view of the same, showing the movable reflector down in dotted lines and raised in full lines. Fig. 3 is a transverse section through the tester.

This invention relates to improvements in egg-testers; and it consists in the novel construction and arrangement of parts herein-after described, illustrated in the drawings, and particularly pointed out in the claims hereto appended.

Referring to the accompanying drawings by letter, A designates a rectangular or other proper shaped box which forms the body of the tester, and which is closed at back and ends and bottom, if desired, to exclude light. The front of box A has a horizontal slot or sight-opening, *a*, at its upper edge, as shown, and hereinafter referred to.

The top B of box A has its ends projecting somewhat beyond the ends of the box, as shown, and this top B is provided near its edge adjoining slot *a* with one or more circular openings, C, in which are placed the eggs to be tested.

*c* designates a wire or cord secured between the ends of box A, underneath and in line with openings C C, by which the eggs are prevented from falling through said openings, should the eggs placed therein happen to be smaller than the openings C in diameter. The edges of openings C and the wire *c*, if desired, are preferably padded in suitable manner to prevent accidental breakage of the eggs when deposited in said openings.

D designates a mirror mounted inside box A, underneath and in rear of openings C and wire *c*. This mirror D is inclined upward and rearward, as shown, at such an angle that by looking at the mirror through slot *a* the

eggs contained in opening C are clearly seen reflected therein. The mirror D is mounted on a suitable support, *d*, as shown.

In order to concentrate the light on the eggs being tested, I use a movable or adjustable reflector, E, as shown. This reflector consists of a wide board, preferably made of a white wood or else painted white; or, if desired, the surface of reflector E may be covered with bright metal or mirror-glass. The use of glass, however, is not very desirable, as it is apt to be soon broken.

The reflector E corresponds in length to box A, and is secured thereon on the side of slot *a* by means of metallic straps F F, secured to the ends of the reflector and extended, as shown, and pivoted on the ends of the box by screws *f* or other proper means. The straps F are bent, as shown, so that when down the reflector E lies just below the slot *a* and inclines outwardly and downwardly therefrom, and when raised the reflector E stands above slot *a* and inclines slightly inward over the eggs placed in openings C, so as to concentrate the light thereon, and transmit it by reflection through the eggs upon mirror D.

If desired, the outer edge, *e*, of reflector E may be inclined inward to more powerfully concentrate the light. The projecting ends of top B are cut away, as shown at *b b*, to accommodate the straps F when the reflector is raised.

The described parts are all that have to be employed when testing eggs by daylight, and the manner of using the same is as follows: The reflector E being lowered, eggs corresponding to the number of openings C are placed in said openings. The reflector E is then raised, concentrating the light on the eggs, as described. Then by looking through slot *a* the user can readily tell from the reflection of the eggs in the mirror whether they are fresh or stale, as will be readily understood. The reflector is lowered to remove the eggs after they have been tested. In some instances I employ a slide, *e'*, for regulating the width of slot *a*, so as to exclude as much light as convenient from the interior of box A, by which the condition of the eggs can be more clearly seen in the mirror D.

In order to adapt the tester for use at night,



I employ the removable top G, as shown, about corresponding in size and form to box A, but having no bottom, and its front face is inclined at an angle corresponding to the inclination of reflector E when raised, and has an opening at its lower portion corresponding in size to the reflector E, so that when properly adjusted on top of box A its front side will be closed by said reflector when raised. This top G is removably secured on box A by means of fingers *g g*, secured to the lower edges of the ends of top G, which embrace the projecting edges of top B, as shown. The interiors of box A and top G are preferably painted a light color.

H designates a lamp placed on and centrally of the length of top B to the side of openings C. The flue or chimney of this lamp passes through a corresponding opening, *h*, in the top G, as shown. The top G being preferably adjusted on box A and lamp H lighted, the eggs are placed in openings C C, as before, and the reflector E raised, concentrating the light on and reflecting it through the eggs, as before, so that their quality is readily detected by a person looking through slot *a*. The reflector E, constructed and operating as described, it will be observed, serves a very useful purpose and greatly increases the efficiency of the tester, and I consider it one of the essential elements of my invention.

Having described my invention, what I claim is—

1. The combination of the box A, having egg-openings C in its top, the supporting-wire *c*, below said openings, and the sight-slot *a* in its side below the egg-opening, and provided with an adjusting slide, *e'*, with the inclined mirror D, secured in the box A, below and to one side of the openings C and facing slot *a*, and the movable reflector E, secured to box A by bent hinge-straps F F, all constructed and arranged substantially as and for the purpose described.

2. The combination, with the box A, provided with egg-openings C in its top and sight-slot *a* in its side, and the mirror D, secured within box A, and the exterior adjustable reflector, E, constructed substantially as described, movably secured to box A by bent straps F F, of the top G, removably secured on top of box A, having a front opening adapted to be closed by reflector E when the latter is raised, and a lamp-flue opening, *h*, and the lamp H, all constructed and arranged substantially as and in the manner and for the purpose described.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

RUDOLPH STUCKWISCH.

Witnesses:

JESSE A. STARK,  
WILLARD WYATT.