

(No Model.)

2 Sheets—Sheet 1.

I. S. VEDDER.
EGG TESTER.

No. 602,115.

Patented Apr. 12, 1898.

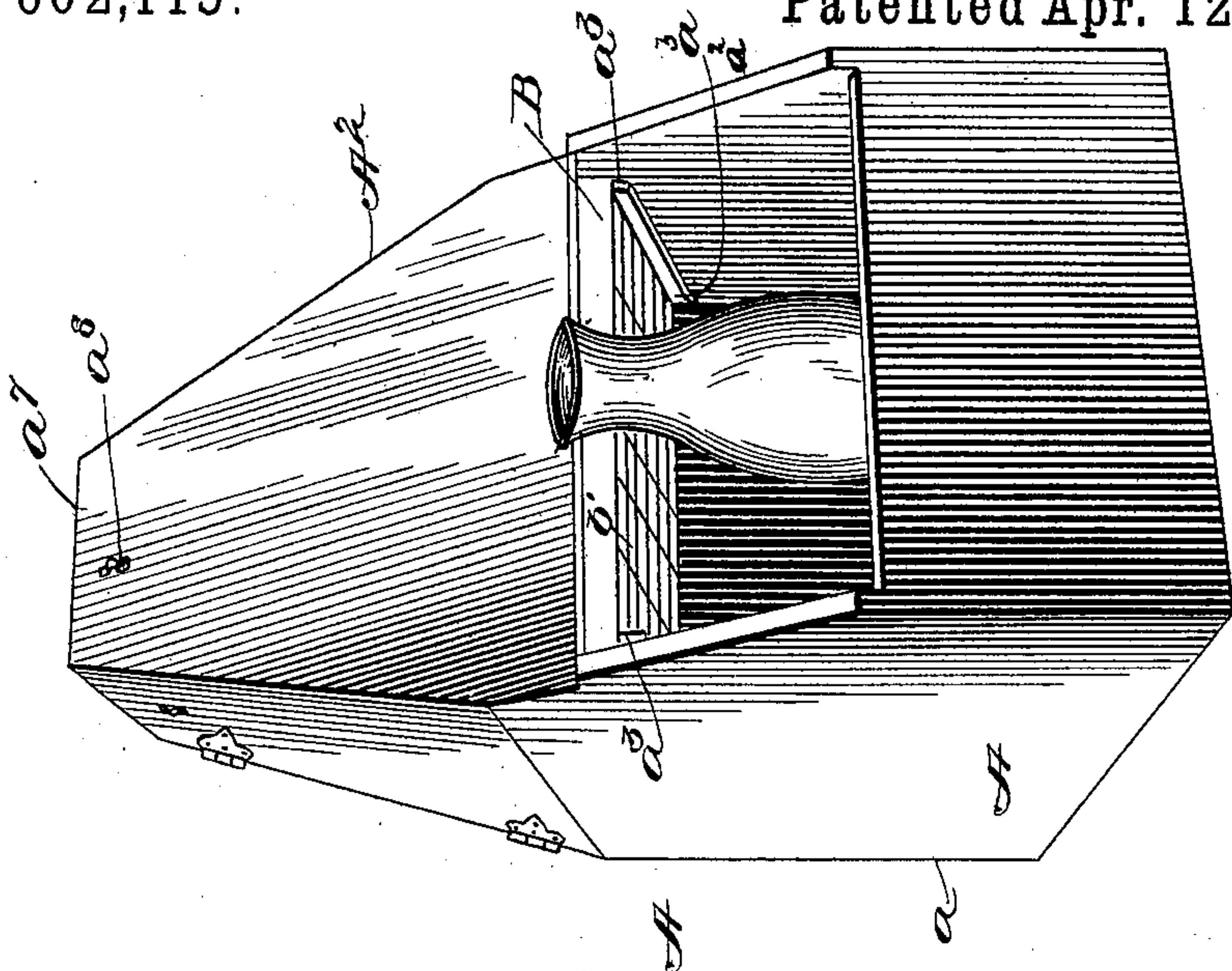


Fig. 2

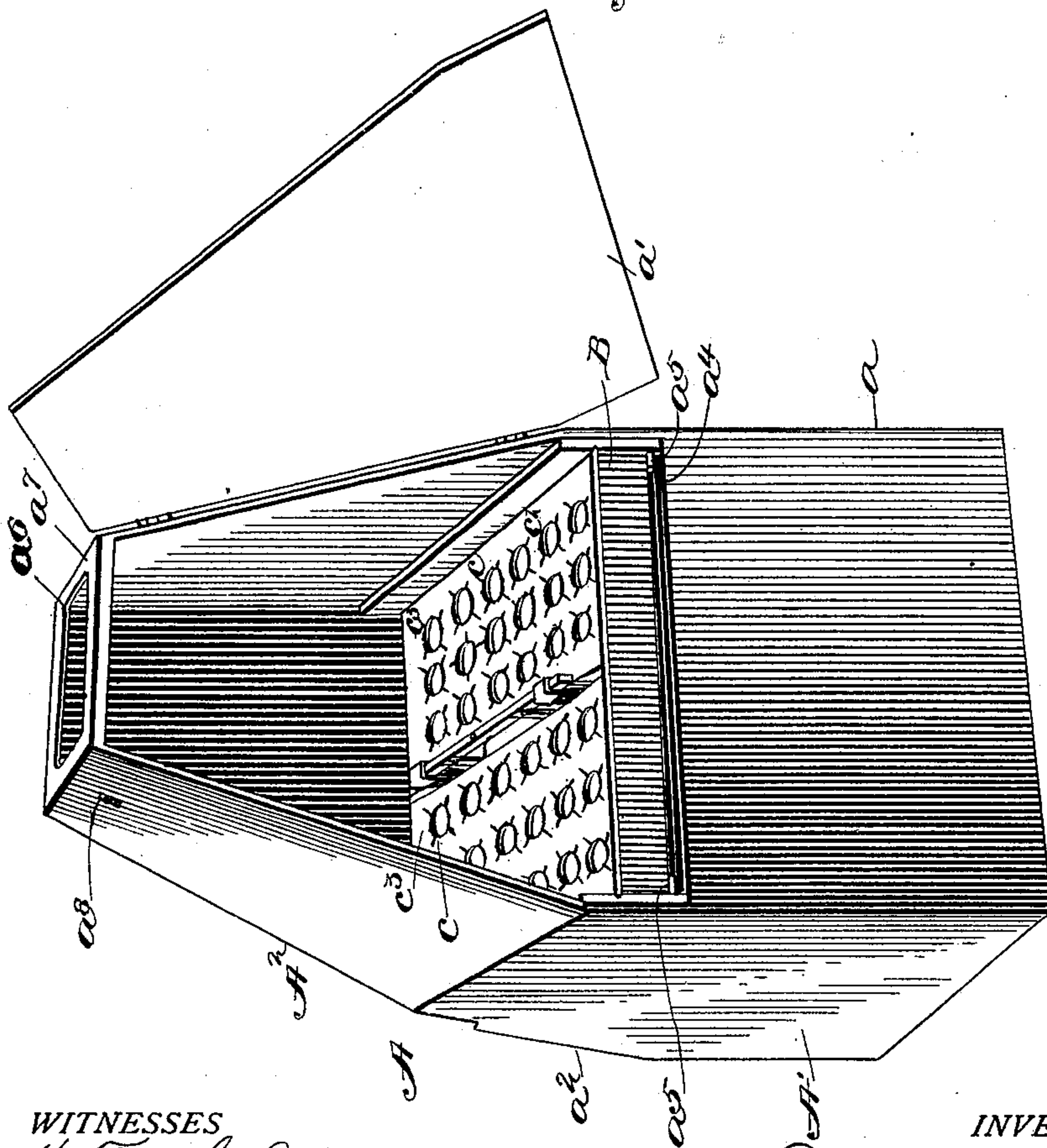


Fig. 1

WITNESSES

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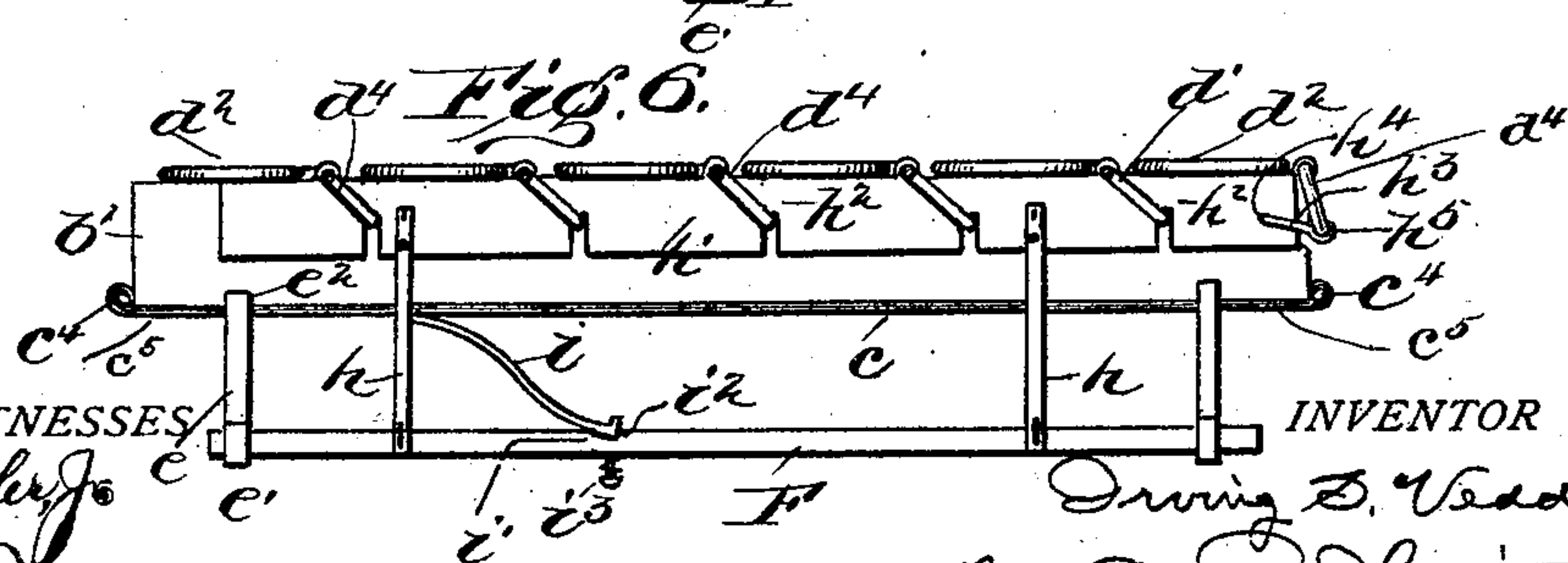
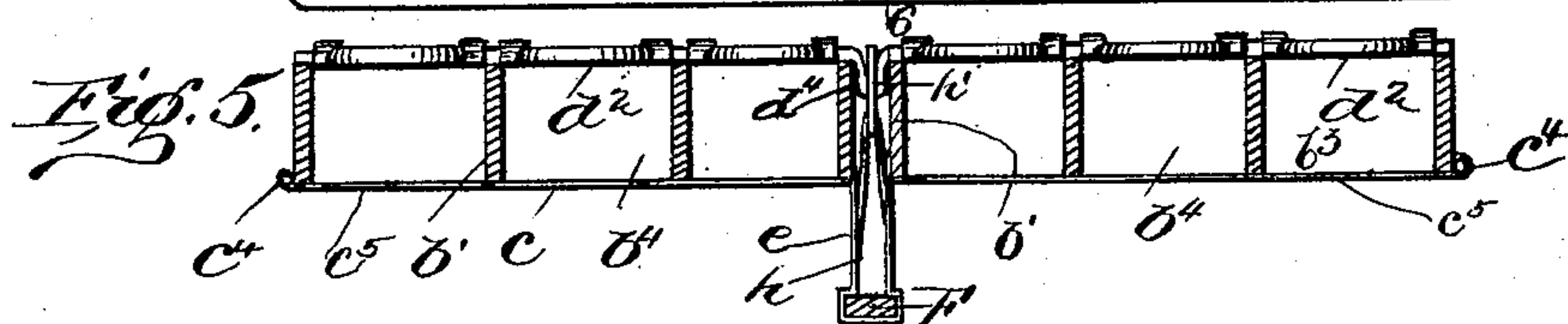
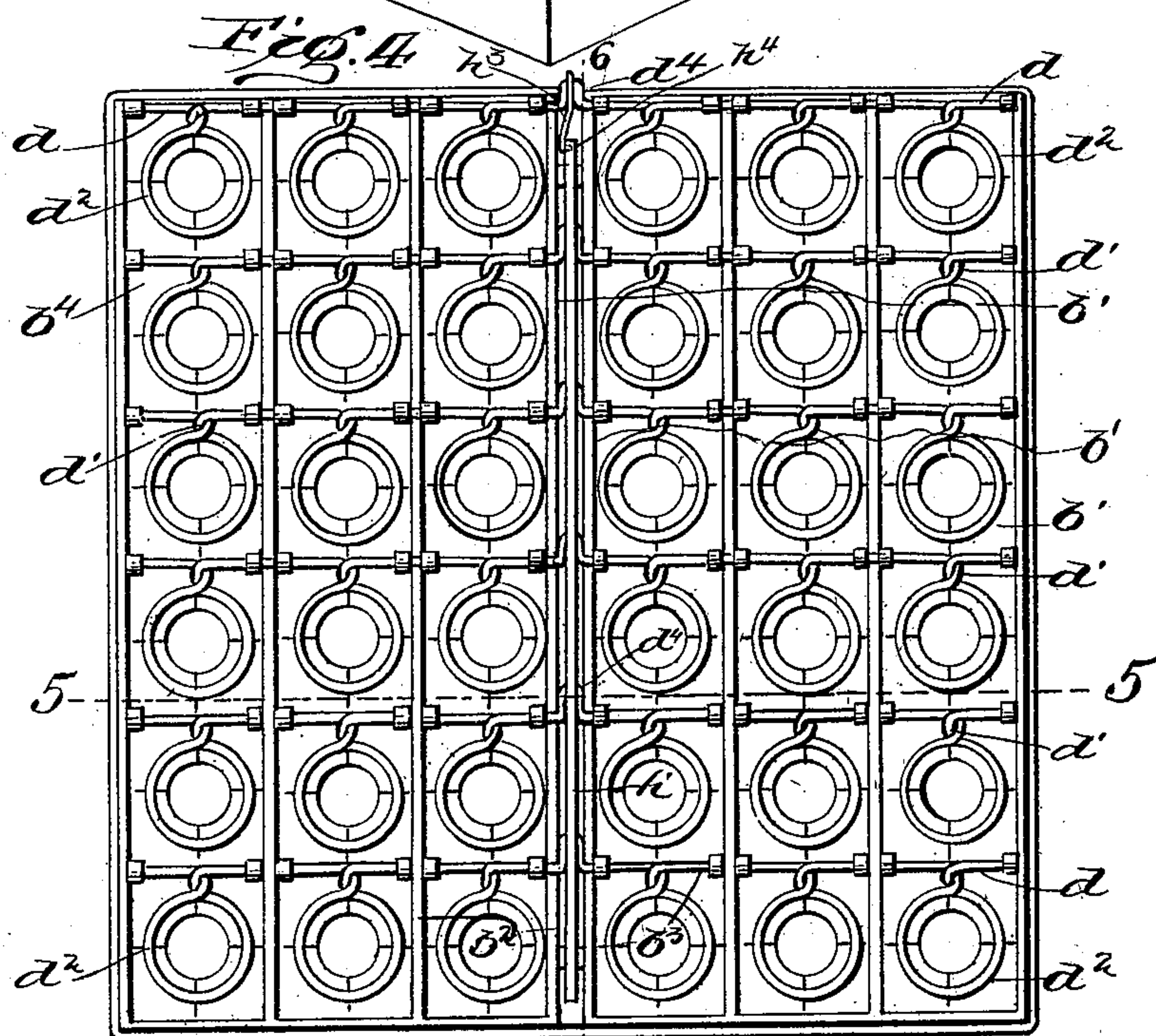
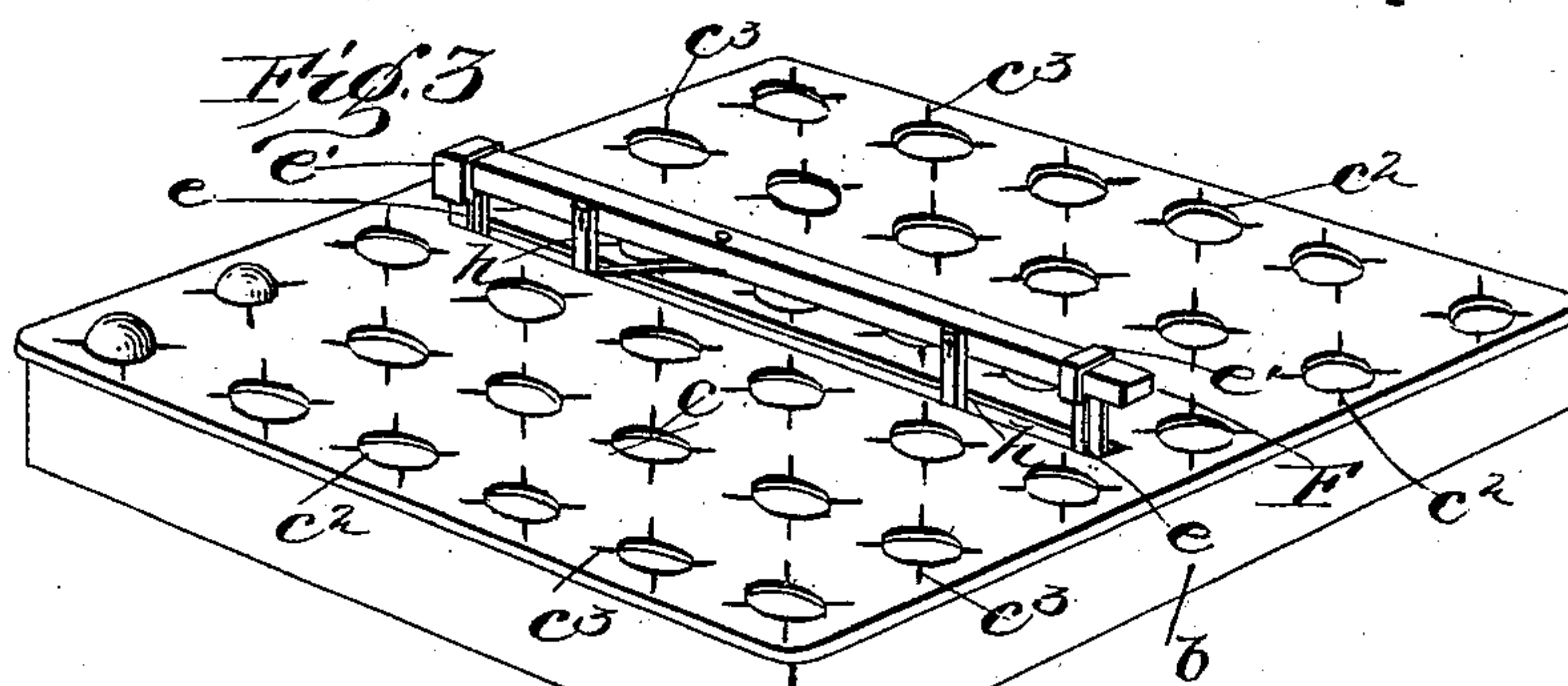
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WITNESSES
J. M. Fowler
Charles D. Moore

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UNITED STATES PATENT OFFICE.

IRVING S. VEDDER, OF SCHENECTADY, NEW YORK.

EGG-TESTER.

SPECIFICATION forming part of Letters Patent No. 602,115, dated April 12, 1898.

Application filed September 10, 1897. Serial No. 651,208. (No model.)

To all whom it may concern:

Be it known that I, IRVING S. VEDDER, a citizen of the United States, residing at Schenectady, in the county of Schenectady and State of New York, have invented certain new and useful Improvements in Egg-Testers; and I 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.

My invention relates to improvements in egg-testers, my object being to provide a convenient and efficient tester by which the operator will be protected from the heat of the lamp or other lighting means and also to provide a convenient egg-carrying frame for use in the tester, by which the eggs will be securely held during the operation of testing and from which they can be readily deposited into a crate or other receptacle.

To these ends the invention consists in the various matters hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a perspective view showing the top, front, and one side of the present device. Fig. 2 is a rear perspective. Fig. 3 is a top perspective of the egg-carrying frame. Fig. 4 is a bottom plan of said frame. Fig. 5 is a sectional side elevation of the egg-carrying frame on the line 5 5 of Fig. 4, and Fig. 6 is a side elevation of the frame on the line 6 6 of Fig. 4.

Referring now more particularly to the drawings, A represents the casing, said casing comprising a rectangular lower portion A' and a tapering upper portion A². The casing is provided with a vertical front a , upon which is hinged a suitable door a' , the opening including the front of the tapering portion and a part of the adjacent lower rectangular portion. At the rear of the casing the side walls a^2 are sloped, as shown, to produce an opening for the chamber in the lower portion, this chamber being for the reception of a lamp or other source of light. Cleats a^3 , forming ways and supports for the egg-carrying frame B, are secured to the inner

faces of the side walls, said ways being inclined with their lower ends toward the front and slightly above the top of the front wall a^4 of the lower portion of the casing. If so desired, rollers a^5 may be provided at the ends of the ways to facilitate placing the frame in position. An opening a^6 is provided in the top a^7 of the casing, through which the eggs are examined, and, if preferred, clips a^8 may be fastened upon the walls, by which to secure a hood of black cloth or the like to exclude light other than that of the lamp from the interior of the casing when necessary.

The eggs being placed upon a suitable frame, (to be more fully hereinafter described,) this frame is slid into position upon the ways, the lamp lighted, and the door closed. By looking through the aperture in the top of the casing the eggs are tested in the usual manner. The frame can be readily removed, filled, and reinserted, and the tapering form of the casing tends to focus the rays of light to the eyes of the operator. Furthermore, as the casing inclines toward the front and the lamp is located at the rear with its chimney projecting through the opening, the operator is not subjected to the annoyance of the heat.

Passing to a consideration of the egg-carrying frame B, forming a part of the present invention, there is provided a rectangular rim b , of sheet metal or other suitable material, said rim having parallel central cross-strips b' , spaced a short distance apart to accommodate members to be hereinafter referred to. Between the end walls of the rim and also between the central cross-strips and the sides other strips b^2 b^3 are secured, whereby the frame is divided into a series of compartments b^4 . Above the rim is stretched a cover c , composed of upper and lower black cloths c^4 c^5 , with a wire rod c' in a hem about the edges, said rod embracing the rim and holding the cover in position. Above each compartment b^4 the cover is provided with an opening c^2 to permit the insertion of an egg, and in order to insure close fitting of the cover about each egg radial slits c^3 are formed in the cloths, the slits in one cloth being out of line with the slits in the other cloth. Egg-supporters are secured to the under side of the frame. As here shown, a wire rod is bent

to produce straight portions d , having at proper intervals projecting arms d' , from which the wire extends in a circle d^2 , adapted to hold an egg. Each rod is at its straight portions pivoted along the under edge of one of the strips b^3 , while a rod is similarly pivoted to one of the ends of the rim at a right angle to the cross-strips b' . The circular supporting members are so spaced that one lies below each opening in the cloth c , and each rod is provided at its center with a loop d^4 to lie between the cross-strips b' . Strips e , bent at their upper ends to form eyes e' , have their downwardly-projecting body portions e^2 secured between the cross-strips b' near their ends to produce supports for a handle-bar F , these eyes affording the handle-bar sliding movement therein. Arms h , depending from the handle-bar, enter between the cross-strips and are secured to a plate h' , which has sliding movement between the cross-strips corresponding to the movement of the handle-bar. Slots h^2 in the plate receive the loops d^4 of the wire rods pivoted upon the strips b^3 , and it will thus be seen that in the movement of the handle-bar and plate the egg-supporting members are swung into or out of supporting position. Manifestly it is desirable to have the movement of the plate h' entirely within the walls of the rim b , and therefore the loop upon the rod pivoted to the wall of the rim cannot be seated in a slot in the plate. For this reason, in order to swing the rod secured to the wall of the rim in unison with the other rods, a link h^3 is provided, said link having at one end a lug h^4 , by which it is pivoted upon the plate, and at its other end a hook h^5 , which engages the loop d^4 . Preferably the arms h are provided with slots in their upper ends, and are thus adjustably secured to the handle-bar by means of screws passing through said slots. A leaf-spring i , secured to the body portion of the egg-carrying frame, enters a notch i' in the handle-bar and rests against the shoulder i^2 , thus locking the handle-bar against accidental movement. A push-pin i^3 passes through the handle-bar above the notch, by means of which push-pin the spring can be depressed and the handle-bar moved at will.

As will now be apparent, the egg-carrying frame is filled, placed in the casing A while the eggs are tested, is then removed by the handle, and by merely sliding the handle-bar, as previously indicated, the eggs are carefully deposited.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

60 1. An egg-carrying frame for egg-testers and the like, comprising a rigid rim of a depth somewhat less than the length of an egg, a double thickness of cloth stretched over the top of said rim, said thicknesses having registering apertures and non-registering slits radiating therefrom, and movable egg-supports attached to the bottom of said rim in

line with said apertures, substantially as described.

2. An egg-carrying frame for egg-testers 70 and the like comprising a body portion, rods pivoted upon said body portion, egg-supporters upon said rods, loops upon said rods, and a plate having reciprocation secured to said loops; substantially as described. 75

3. An egg-carrying frame for egg-testers and the like comprising a body portion, rods pivoted upon said body portion, egg-supporters upon said rods, loops upon said rods, and a plate having reciprocation, said plate being 80 provided with slots in which the loops rest; substantially as described.

4. An egg-carrying frame for egg-testers and the like, comprising a body portion, egg-supporting members upon said body portion, 85 said members being movable into and out of supporting position, members provided with eyes upon said body portion, a handle-bar slidable in said eyes, and connections between the handle-bar and the supporting 90 members for operating the latter from the former; substantially as described.

5. An egg-carrying frame for egg-testers and the like, comprising a rim, a pair of cross-strips secured to said rim, said cross-strips 95 being spaced apart, egg-supporters upon the body portion of the frame, strips having their upper portions formed into eyes and their lower portions secured between the cross-strips, and a handle-bar in said eyes; substantially as described. 100

6. An egg-carrying frame for egg-testers and the like, comprising a rim, a pair of cross-strips secured to and within said rim, said cross-strips being spaced apart, egg-supporters 105 upon the body portion of the frame, said supporters being movable into and out of supporting position, a plate slidable lengthwise between said cross-strips, said plate being in connection with the egg-supporters whereby 110 its movement serves to carry said supporters into and out of supporting position, arms secured to said plate, and a longitudinally-slidable handle-bar connected to said arms; substantially as described. 115

7. An egg-carrying frame for egg-testers and the like, comprising a rim, a pair of cross-strips secured upon and within said rim, said strips being spaced apart, egg-supporters 120 upon the body portion of the frame, said supporters having movement into and out of supporting position, strips having their upper ends formed into eyes while their lower ends are secured between the cross-strips, a handle-bar longitudinally slidable in said eyes, 125 arms depending from said handle-bar and entering between the cross-strips, a plate slidable lengthwise between said cross-strips secured to the arms, and connections between the plate and the egg-supporters whereby in 130 the movement of the handle-bar the egg-supporters are carried into or out of supporting position; substantially as described.

8. In an egg-carrying frame for egg-testers

or the like, a rim, a plate having sliding movement within the walls of the rim, a rod pivoted upon a wall of the rim, egg-supporters upon said rod, a loop upon said rod, and a link having pivotal connection with the plate and the loop; substantially as described.

9. An egg-supporting frame for egg-testers and the like comprising a body portion, egg-supporters upon said body portion, said supporters being movable into and out of supporting position, a handle-bar, connections between the handle-bar and the egg-supporters, said handle-bar being movable to operate the egg-supporters as aforesaid, a shoulder upon said handle-bar, and a spring upon the body portion of the frame and resting against the shoulder whereby accidental movement of the egg-supporters is prevented; substantially as described.

10. An egg-supporting frame for egg-test-

ers and the like comprising a body portion, egg-supporters upon said body portion, said supporters being movable into and out of supporting position, a handle-bar, connections between the handle-bar and the egg-supporters, said handle-bar being movable to operate the egg-supporters as aforesaid, a shoulder upon said handle-bar, a spring upon the body portion of the frame and resting against the shoulder whereby accidental movement of the egg-supporters is prevented, and a push-pin through the handle-bar to release the spring from engagement with the shoulder; substantially as described.

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

IRVING S. VEDDER.

Witnesses:

ALEXANDER M. VEDDER,
DAVID J. WAGNER.