

No. 799,514.

PATENTED SEPT. 12, 1905.

C. F. BAUER.
INCUBATOR.

APPLICATION FILED SEPT. 15, 1904.

Fig. 1.

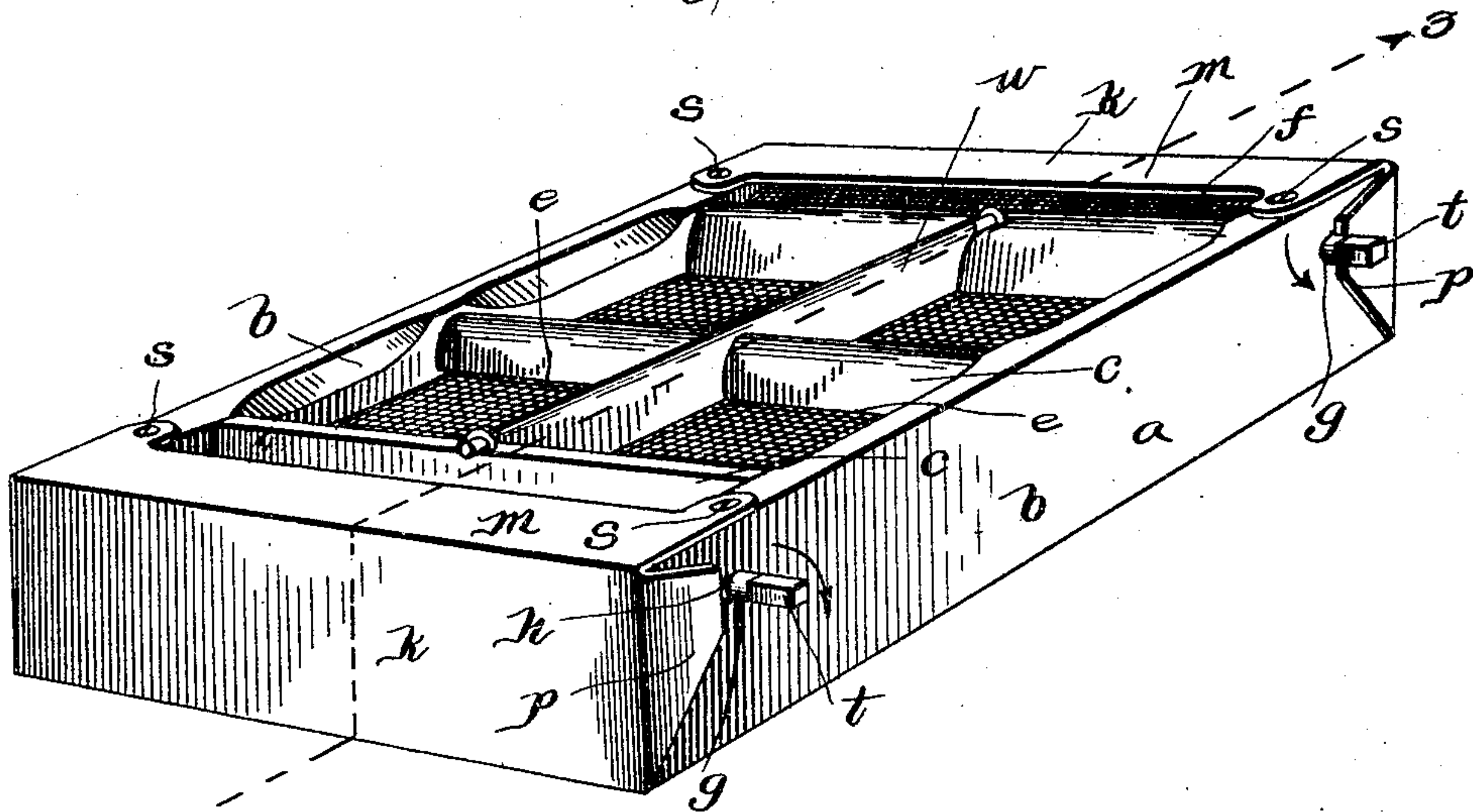


Fig. 2.

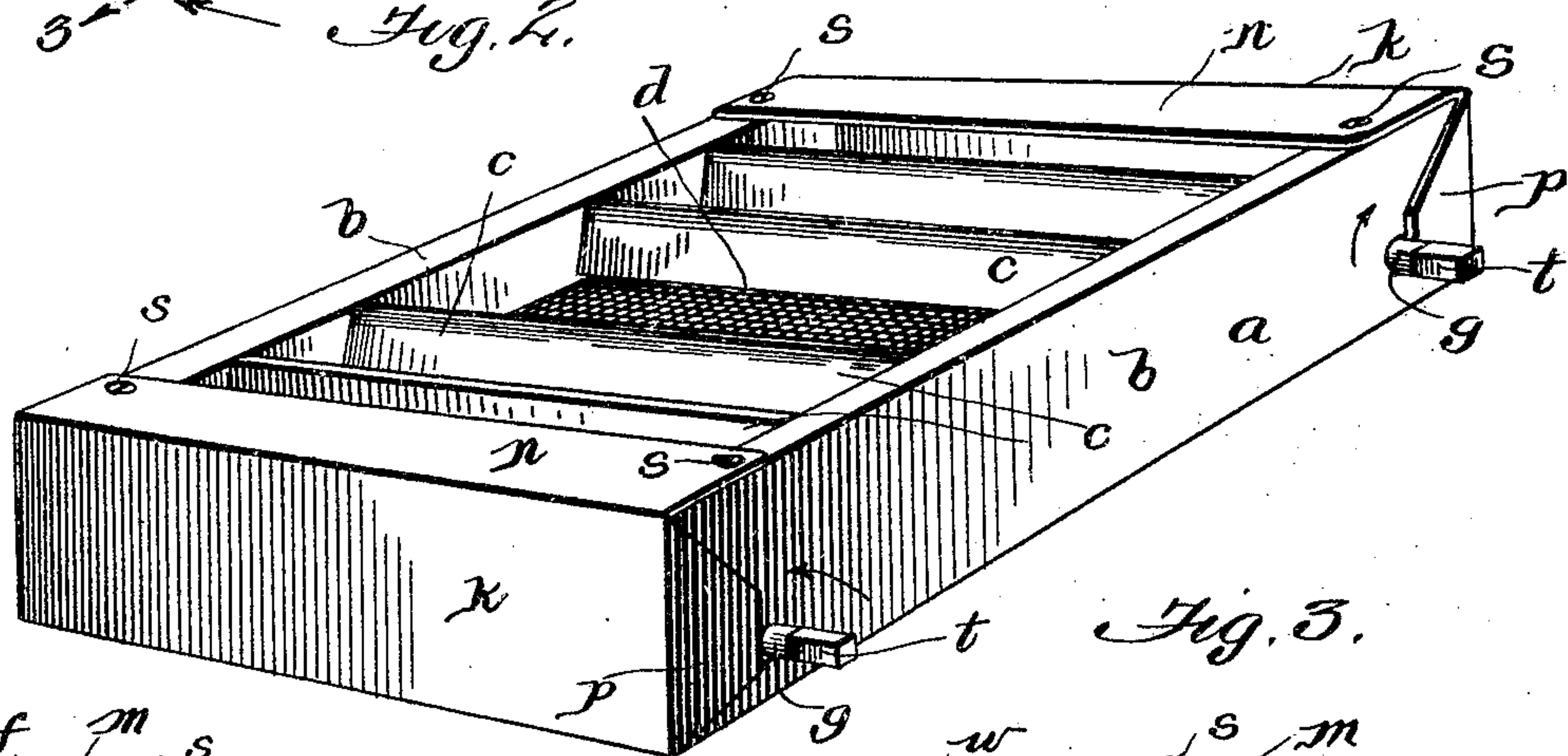
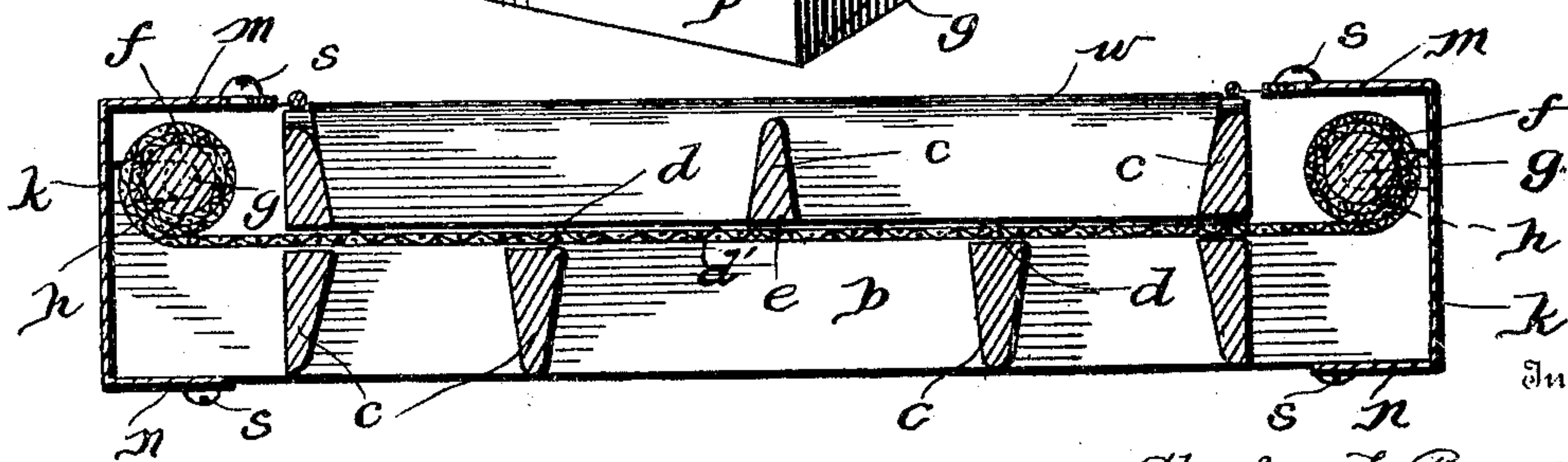


Fig. 3.



Inventor

Charles F. Bauer

Witnesses

R. A. Boswell.
A. J. Sidney

By

E. W. Anderson

his

Attorney

UNITED STATES PATENT OFFICE.

CHARLES F. BAUER, OF McCONNELLSVILLE, OHIO; ASSIGNOR OF ONE-HALF TO GEORGE H. BAIN, OF McCONNELLSVILLE, OHIO.

INCUBATOR.

No. 799,514.

Specification of Letters Patent.

Patented Sept. 12, 1905.

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To all whom it may concern:

Be it known that I, CHARLES F. BAUER, a citizen of the United States, and a resident of McConnellsville, in the county of Morgan and State of Ohio, have made a certain new and useful Invention in Incubators; and I declare the following to be a full, clear, and exact description of the same, such as will enable others skilled in the art to which it appertains to make and use the invention, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective view of the upper part of the invention. Fig. 2 is a perspective view of the under part of the same. Fig. 3 is a longitudinal sectional view on line 3 3 of Fig. 1.

The invention relates to egg-trays for incubators; and it consists in the novel construction and combinations of parts, as hereinafter set forth.

In the accompanying drawings, illustrating the invention, the letter *a* designates the frame of the tray, which consists, mainly, of the side bars *b* and the beveled transverse partition-bars *c*, which are arranged in series at the proper distance apart to provide a compartment for the reception of an egg. These partitions *c* are designed to be placed on the upper and lower sides of the frame and have an alternate arrangement, so that the basis of the lower partition-bars (indicated at *d*) form center bearings for the upper compartments, and similarly when the tray is reversed the basis of the upper partition-bars (indicated at *e*) form the rests. In contact with these rests or bars extends the bottom *d'*, which is made of grit-gauze or other suitably frictional cloth, said bottom being a strip sufficiently wide to extend between the side bars of the frame and sufficiently long to have its end portions wound, more or less, on end rollers *f*, which are provided with journals *g*, seated in the ends of said side bars in open bearing-slots *h* thereof. These rollers are exteriorly inclosed by the end casings or boxings *k*, which extend across the ends of the frame and are provided with the upper flanges *m*, the lower flanges *n*, and the side flanges *p*, which extend along the bearing-slots *h* to the journals *g* and serve to hold them in position. These end casings are secured to the side bars by

screws *s* and are easily removable in order to permit the rollers and bottom cloth to be taken out for cleaning or other purposes. One journal of each roller is provided with a key-seat, as at *t*, whereby it may be turned by means of a suitable instrument for this purpose.

Parallel to the side bars are the longitudinal metal partitions *w*, which are placed apart about the length of an egg and are designed to prevent the eggs from traveling endwise and coming in contact with each other when turned by the motion of the bottom cloth. These partition-plates are usually notched to engage the transverse bars and brace them securely in position.

The eggs are designed to be placed in the compartments of the upper tray-section. Their sides are adjacent to the beveled walls of the transverse bars and their ends adjacent to the longitudinal partition-plates *w*, while they rest on the bottom cloth at the upturned center bases of the lower partitions. All the eggs of the upper tray-sections can be turned at the same time and in either direction by turning the proper roller at the end of the frame. To turn them to the left, the right-hand roller is moved, and for the reverse turning the left-hand roller.

The upper tray-section, as shown, is designed for hens' eggs, and its beveled partitions are made somewhat thicker than those of the lower tray-section, which is designed to provide larger compartments for the larger eggs of turkeys and ducks.

By the means herein shown the eggs can be slowly turned without danger of collision either endwise or sidewise.

By turning the tray over it can be used for eggs of different sizes, and thus obviate the necessity of having extra trays for this purpose, and it has the further advantage in the relation of preserving the even temperature of the tray, the introduction of a cold tray into the incubator being undesirable.

Having described the invention, what I claim, and desire to secure by Letters Patent, is—

1. An egg-compartment tray, for incubators, comprising a frame, a movable cloth bottom for the compartments of the tray, transverse beveled partition-bars above the bottom, similar bars below the bottom, re-

movable adjusting-rollers for the cloth bottom, and removable end casings inclosing said rollers, substantially as specified.

2. An egg-compartment tray for incubators, comprising a frame, a movable cloth bottom for the compartments of the tray, end rollers for said bottom, upper compartment-partitions, above said cloth bottom, and lower compartment-partitions below said cloth bottom, and out of line with said upper compartment-partitions, substantially as specified.

3. An egg-compartment tray for incubators, having an upper tray-section, and a lower tray-section, a movable strip bottom, for the compartments of the tray located between the tray-sections and removable end rollers for said bottom, substantially as specified.

4. In an egg-compartment tray for incubators, the combination with the longitudinal bars, having open slot-bearings, of the beveled partition-bars, movable bottom strip, journaled end rollers, and removable flanged end casings, substantially as specified.

5. An egg-compartment tray for incubators, having beveled transverse partitions, me-

tallic longitudinal partitions, and removable end rollers, and a strip cloth bottom, mounted on said rollers, substantially as specified.

6. A reversible egg-compartment tray, for incubators, having a double set of transverse partition-bars, whereof the lower set form rests for the compartments between the bars of the upper set, substantially as specified.

7. In an egg-compartment tray, the combination with end slotted longitudinal side bars, and beveled transverse partition-bars, of journaled end rollers, and flanged removable end casings, substantially as specified.

8. An egg-tray for incubators having end rollers, a movable cloth bottom carried by said rollers, and a double series of partitions out of line with each other and located above and below said movable bottom, substantially as specified.

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

CHARLES F. BAUER.

Witnesses:

C. W. KENNEDY,
M. E. DANFORD.