

E. E. POSTON.

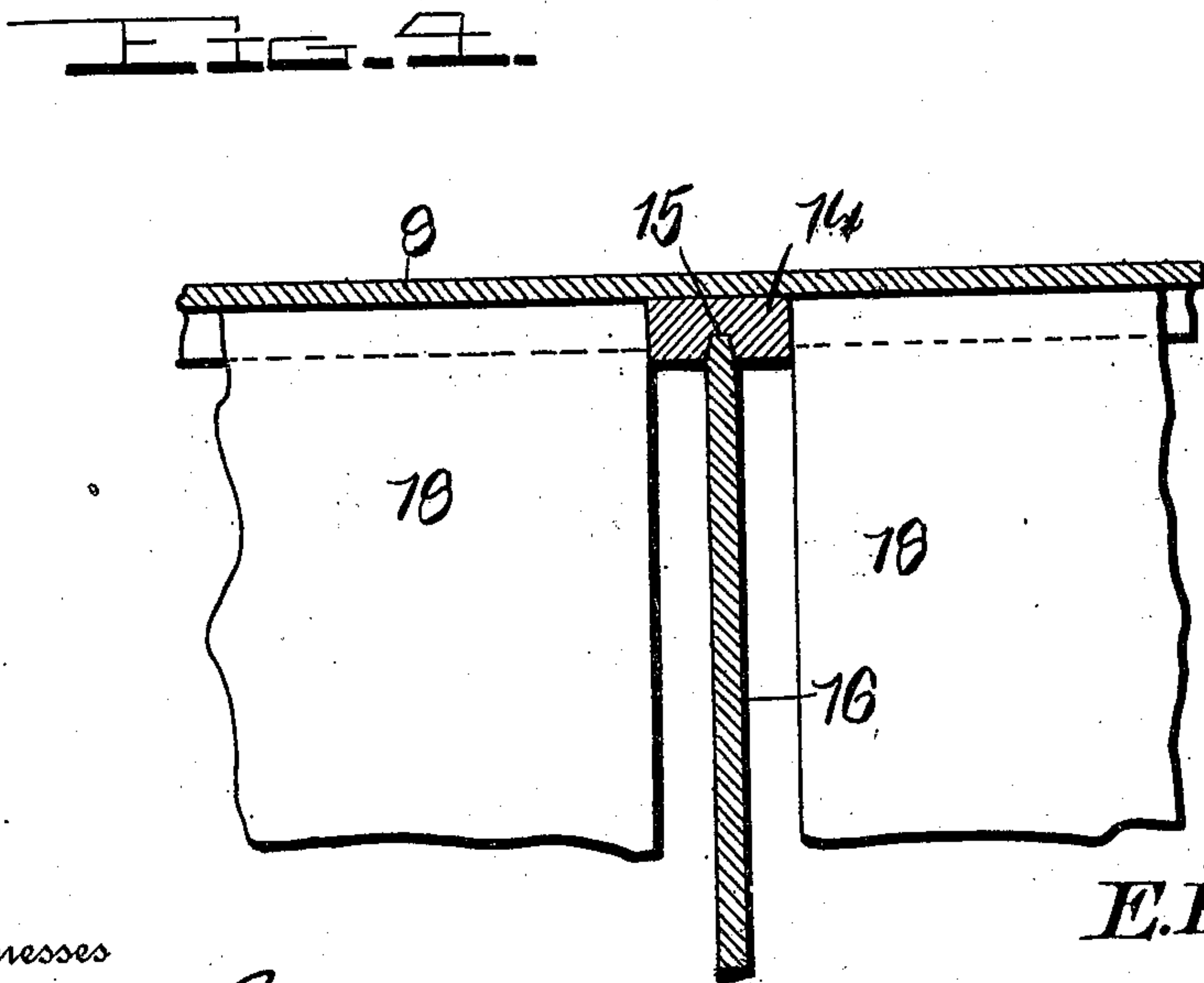
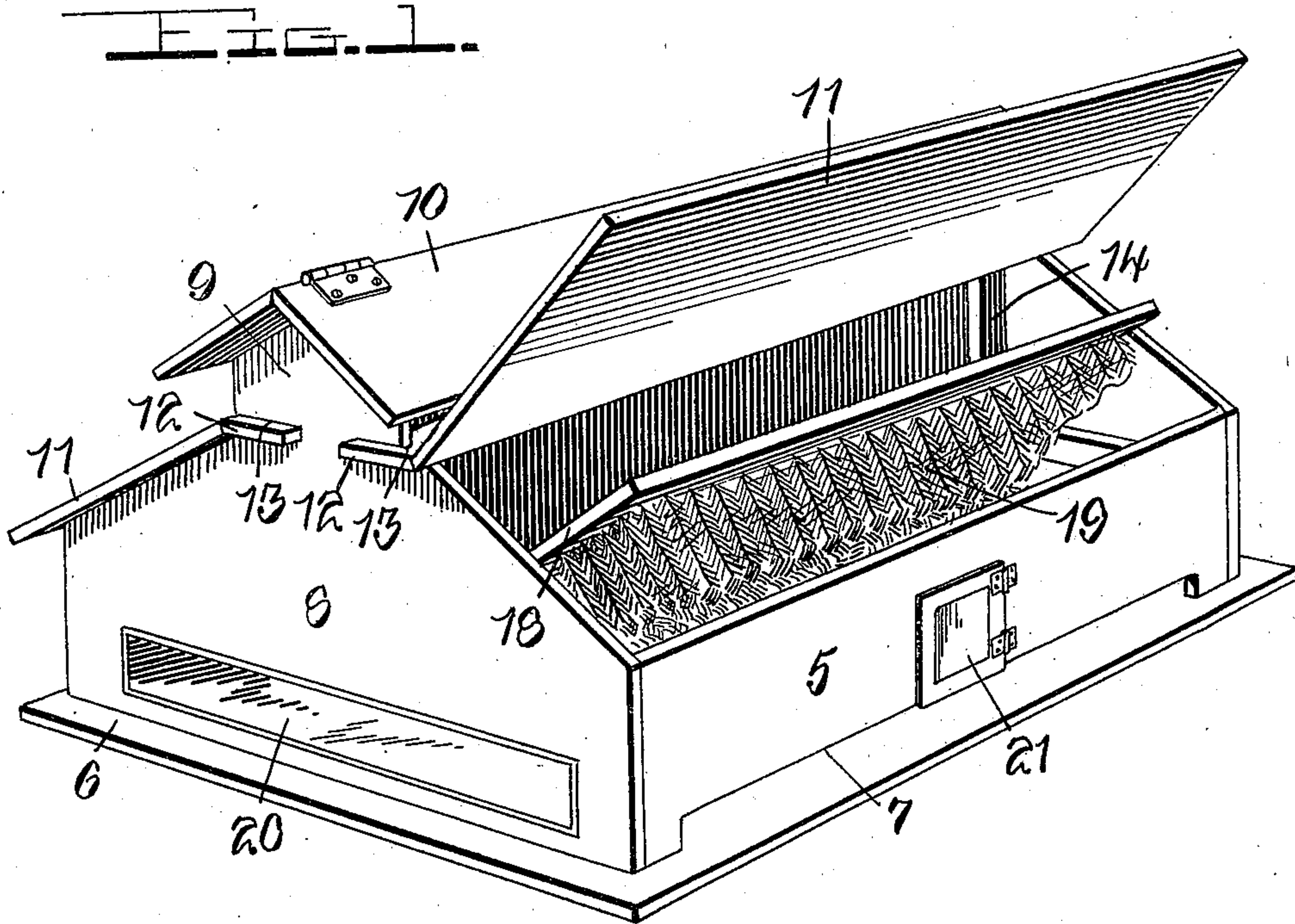
BROODER.

APPLICATION FILED MAY 18, 1910.

Patented Jan. 17, 1911.

2 SHEETS-SHEET 1.

981,942.



Inventor

E. E. Poston,

Witnesses

Chas. L. Griesbauer.
E. M. Ricketts

By

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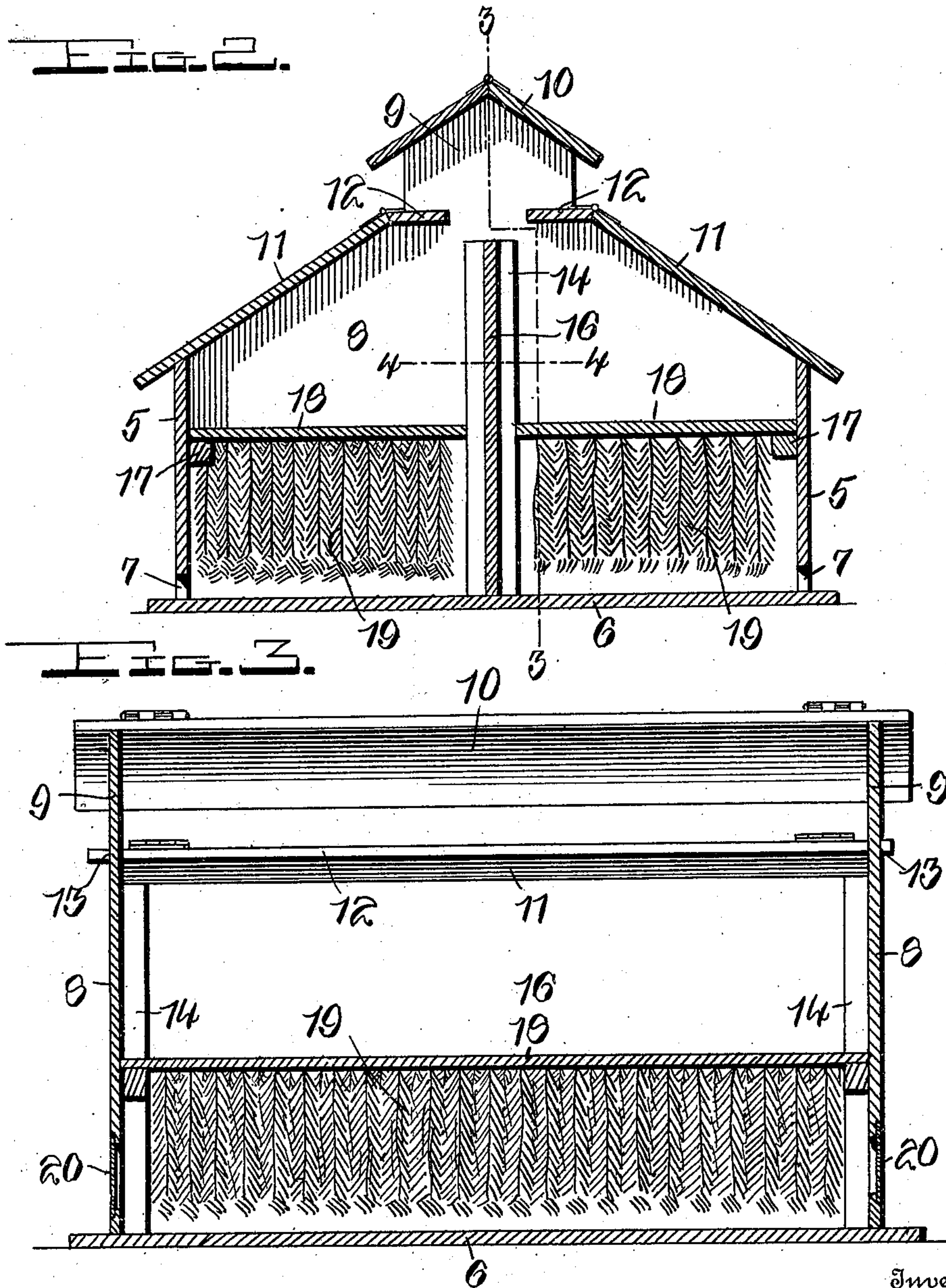
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UNITED STATES PATENT OFFICE.

EMORY E. POSTON, OF CAMPBELL, CALIFORNIA.

BROODER.

981,942.

Specification of Letters Patent.

Patented Jan. 17, 1911.

Application filed May 18, 1910. Serial No. 562,001.

To all whom it may concern:

Be it known that I, EMORY E. POSTON, a citizen of the United States, residing at Campbell, in the county of Santa Clara and State of California, have invented certain new and useful Improvements in Brooders, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention relates to brooders and has for its primary object to provide a brooder which is so constructed that the necessity for employing lamps or other artificial heating means is eliminated.

15 A further object is to provide a brooder of simple and inexpensive construction employing novel means for hovering the chicks and which is at all times thoroughly ventilated.

20 With these and other objects in view, the invention consists of the novel features of construction, combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

25 Figure 1 is a perspective view of a brooder constructed in accordance with my invention, one of the top sections and hovering boards being raised; Fig. 2 is a transverse section; 30 Fig. 3 is a section taken on the line 3—3 of Fig. 2; and Fig. 4 is a detail section taken on the line 4—4 of Fig. 2.

Referring more particularly to the drawings 5 indicates the side walls of the brooder which are preferably arranged upon a suitable flooring 6. The lower longitudinal edges of each of the side walls are cut away between their ends as shown at 7 to form air spaces. The end walls 8 are of similar form and their upper edges are inclined from the opposite side walls 5. The center of each of the end walls is formed with an extension 9, the edges of which are also inclined. Upon these inclined edges of the extensions 9 the cover boards 10 are arranged. These boards may be secured to the end walls 8 or removably arranged thereon as desired. The top of the brooder proper is formed in two sections designated by the numeral 11. These sections are hingedly arranged upon the inclined upper edges of the end walls 8. Bars 12 rigidly connect the end walls and hold the same in spaced relation. These bars are each formed with a short transverse recess 13 to receive the extensions 9 of the end walls, and to these bars

the cover sections 11 are hinged. The cover boards 10 it will be noted extend some distance beyond the extensions 9 and between the edges of these boards and the bars 12 air is admitted to the interior of the brooder. 60

Centrally secured to the inner face of each of the end walls is a vertical cleat 14 which is formed with a longitudinally extending V-shaped groove 15. These grooves receive the V-shaped ends of a central partition 16 which is removably arranged between said end walls. Thus the brooder is divided into two separate compartments, and it will be understood that as each of these compartments are similarly constructed, my invention may be embodied in one such section, so that the partition wall 16 will form one side of the brooder. 65 70

A cleat 17 is secured to each of the side walls 5 and to the end walls. These cleats support the hovering boards 18 and may be removed and secured upon the sides and ends of the brooder as the chicks grow and increase in size. The brooder boards are provided upon their under sides with hanging feathers 19. Turkey feathers are preferably employed as they have been found more suitable for the purpose and are considerably longer than chicken feathers. It will be noted that the inner edges of the boards 18 are disposed upon the side edges of the vertical cleats 14 secured to the end walls 8 whereby a space is provided between the edges of said boards and the central partition 16. Thus the air entering the top of the brooder beneath the cover boards 10 may pass through the upper portion of the brooder and between the partition and the hovering boards into the lower section of the brooder where the chicks are housed, such air current thoroughly permeating the feathers and thus providing proper ventilation whereby the air is relieved of germs and other harmful influences. 75 80 85 90 95 100

In each end wall 8 of the brooder, a window 20 is arranged. These windows are disposed slightly above the ground surface and provide light to the interior of the structure so that the chicks are attracted by the same and they are thus prevented from congregating in one place so that the warmth from their bodies may be equally distributed throughout the brooding compartments. In each side wall 5 of the brooder a door 21 is arranged so that the chicks may be let out when desired. 105 110

From the above it will be seen that I have provided an extremely simple and inexpensive brooder whereby the necessity for employing alcohol lamps or other artificial heating means is rendered unnecessary. The hovering boards which carry the depending feather tufts have been found to act as a very reliable substitute for the hen in the hovering of the chicks. In climates which are extraordinarily cold, such boards would also be provided around the ends and sides of the brooder, but by the arrangement as shown in the drawings it has been determined by actual use that a temperature of between 85° and 92° may be maintained. The device may be readily constructed at a very small cost and is highly efficient and durable in practical use. While I have shown and described the preferred embodiment of my invention, it will be understood that the same is susceptible of many minor modifications without departing from the essential features or sacrificing any of the advantages thereof. For instance, the hinged top section 11 of the brooder may be made of glass. Either one or both of these sections may be so constructed if desired and the central partition may be provided with a door so that the chicks may freely pass from one compartment to the other when the same is open.

Having thus described the invention what is claimed is:—

1. A device of the character described comprising parallel end and side walls, hinged top sections arranged on said walls, a central partition arranged between the end walls, hovering boards arranged between the end and side walls and spaced from said partition, a cover arranged above the top section supported on the end walls and providing an air inlet space above said top section whereby air may flow below the hovering boards upon either side of the central partition, and a plurality of tufts of feathers depending from the under side of each of said boards.

2. A device of the character described comprising end and side walls, a central partition removably arranged between the end walls, top sections hingedly supported upon the end walls, inclined cover boards supported by the end walls above the top sections and providing an air inlet space between the same and said partition, cleats secured to the end and side walls, and hover-

ing boards supported upon said cleats, each of said boards having fixed in its under side a plurality of tufts of feathers, said feathers occupying substantially the entire lower portion of the space between the side wall and the partition.

3. A device of the character described comprising parallel side and end walls, said side walls having their lower edges cut away between their ends to form air outlet openings, each of said end walls having a vertical extension, top sections hinged upon said end walls, inclined cover boards arranged upon the extensions of the end walls and spaced from said top sections to provide an air inlet opening, a central partition removably arranged between the end walls, and hovering boards supported upon the side and end walls, the inner edges of said boards being spaced from the central partition, each of said boards carrying a plurality of depending tufts of feathers.

4. A device of the character described comprising parallel side and end walls, said side walls having their lower edges cut away between their ends to provide air outlet openings, a vertical cleat centrally secured to the inner faces of each of the end walls and provided with a longitudinal V-shaped groove, a partition wall removably engaged in said grooves, each of said end walls being formed with a vertical extension, parallel members rigidly connecting said end walls each provided with a recess adjacent to each of its ends, to receive the extensions of the end walls, a top section hinged to each of said members engaged upon the upper edges of the end walls and extending beyond the side walls, inclined cover boards secured to the extensions spaced from said top sections to provide an air passage, cleats secured to the side and end walls, hovering boards supported by said cleats, the inner edges of said boards engaging with the vertical cleats secured to the end walls to space said boards from the partition, a plurality of tufts of depending feathers being secured to each of said boards, a door arranged in each of the side walls, and a window in each of the end walls.

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

EMORY E. POSTON.

Witnesses:

L. GENASCI,

W. M. BESCHERER.