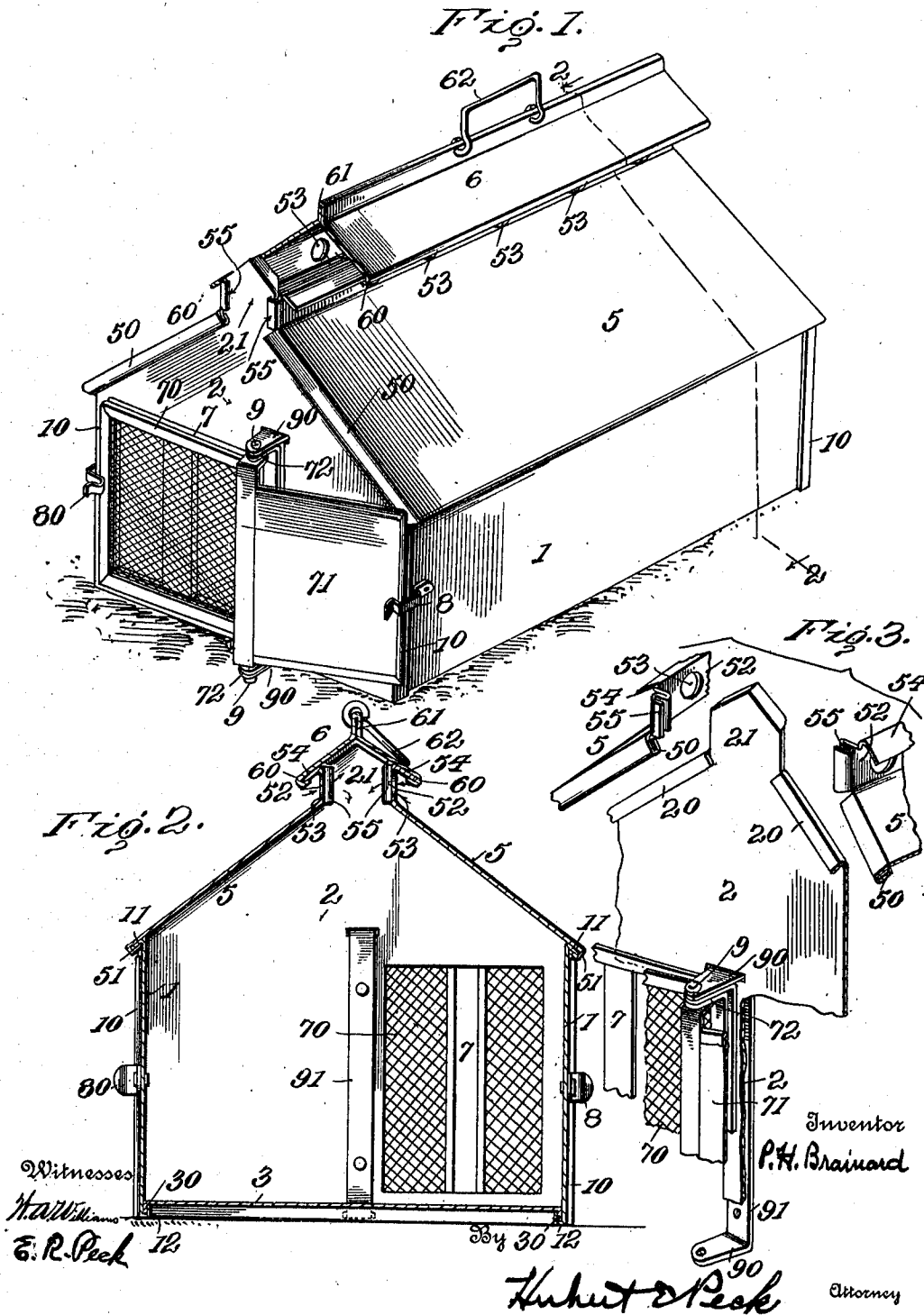


P. H. BRAINARD.
BROODER COOP.
APPLICATION FILED APR. 5, 1910.

982,703.

Patented Jan. 24, 1911.



UNITED STATES PATENT OFFICE.

PEARL HENRY BRAINARD, OF MACOMB, ILLINOIS, ASSIGNOR TO MACOMB POULTRY SUPPLY COMPANY, OF MACOMB, ILLINOIS, A FIRM.

BROODER-COOP.

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Specification of Letters Patent.

Patented Jan. 24, 1911.

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To all whom it may concern:

Be it known that I, PEARL HENRY BRAINARD, a citizen of the United States, residing at Macomb, McDonough county, Illinois, have invented certain new and useful Improvements in Brooder-Coops; and I do hereby 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.

This invention relates to certain improvements in brooder coops for chickens, and the like; and the objects and nature of the invention will be readily understood by those skilled in the art in the light of the following explanation of the accompanying drawings showing what I now consider my preferred embodiment from among other formations and arrangements within the spirit and scope of the invention.

The invention consists in certain novel features in construction and in combinations and arrangements as more fully and particularly set forth and pointed out hereinafter.

Referring to the accompanying drawings;—Figure 1, is a perspective view of the coop set up, a portion of the removable top hood being broken away to show the formations of the spacing projections of the end walls and of the top edge portions of the roof plates. Fig. 2, is a cross sectional view taken in the plane of the line 2—2, Fig. 1. Fig. 3, is a detail perspective view of portions of the roof plates and front end wall separated, portions of the doors being shown.

The coop disclosed is of the sheet metal knock down type composed of suitably formed sheet metal plates removably joined together at their edges. Suitably galvanized sheet or other metal plates are preferably employed.

The side walls or plates 1, and the end plates or walls 2, are removably and slidably united at their vertical meeting edges by the ordinary interlocking hook flanges or seams 10, as will be well understood by those skilled in the art. In the specific example shown, the horizontal upper edges of the side plates 1, are formed with out turned flanges 11, and the top edges of the end (front and rear) walls 2, are formed with out and down turned or hook flanges 20.

3, is the removable horizontal floor plate

or wall formed with depending flanges 30, removably and vertically receiving the in and upturned hook flanges 12 of the end and side walls and connecting the lower ends of the four vertical walls and bracing the same. 60 However, the invention is not limited to such connection between the floor and walls.

In the example illustrated, I show the coop provided with a gable roof composed of two similar roof plates 5, and a longitudinal central hood or cap 6. The front and rear end walls 2, each have a central top projection 21, and the two flanged edges 20, of each end wall are inclined downwardly and outwardly from the center projection 21, to meet at their lower ends the flanged upper ends of the side walls. 70

The roof plates 5, at their end edges have depending hook flanges 50, to engage the end wall flanges 20, and slide upwardly thereon toward the spacing projections 21. The lower longitudinal edges of the roof plates have inturned hook flanges 51, to engage the flanges 11, of the side walls when the roof plates are in their normal positions. The upper longitudinal edges of the roof plates are turned upwardly to form the vertical walls or flanges 52, formed with transverse ventilating openings 53, and terminating in the out and downwardly inclined flanges 54 forming caves over hanging and guarding the ventilating openings and slide ways for the cap or hood. The upturned edges or flanges 52 of the roof plates are spaced a distance apart by the spacing projections 21 of the end walls and flanges 52, are formed with vertical end grooves or sockets 55, removably receiving the vertical edges of said projections 21. The cap or hood closes the top of the coop intervening between the end projections 21, and the roof flanges 52, and along its opposite longitudinal edges is formed with down and inturned hook flanges 60, to receive the flanges 54, in longitudinal sliding adjustment. The hood can be formed of a sheet of metal doubled along its longitudinal center to form the central longitudinal raised fold or doubled flange 61, from which the opposite sides of the plate incline downwardly and oppositely. A suitable handle or bail 62, can be applied through said doubled fold 61. 100

The hood slides endwise and longitudinally onto the upper flanges of the roof plates and the projections 21, fit up into the 110

end portions thereof. The hood thus locks the roof plates against removal and the roof plates lock the sides and ends of the coop against removal. The hood can be
 5 slipped longitudinally from the roof plates when the coop is to be knocked down. The hood fits over the flanges 54 of the roof plates and provides eaves overhanging and guarding the ventilating openings into the
 10 coop. Material advantages are attained by thus locating the ventilating openings at the extreme top of the coop into an upward extension thereof as will be appreciated by those skilled in the art.

15 A vertical wall of the coop is formed with an opening for the passage of chickens to and from the coop and for purposes of ventilation. Three doors are provided for this opening; one door 7, being vertically barred
 20 for the free in and out passage of the chicks; one door 70, being screened to protect the chicks from vermin, etc., and to provide ventilation, and the third door 71, being solid or a flat imperforate metal plate to protect
 25 the chicks from cold or storm. A spring, or other suitable catch, 8, is provided for holding one or more of said doors open and another catch 80 is provided for holding one or more of said doors in closed position.
 30 All three doors are hung to independently swing on a single common vertical rod or shaft 9, arranged to one side of the opening into the coop and vertical with and spaced outwardly a distance from the vertical coop
 35 wall having said opening therein. The shaft 9, is carried by the horizontal outwardly projecting ears or ends 90, of a vertical plate 91, arranged vertically at the inner surface of said vertical wall and riveted or otherwise fixed thereto and having
 40 its upper and lower ends bent laterally and passed outwardly through slots in said wall to form said shaft carrying ears 90. Each door has parallel horizontal ears 72, projecting outwardly from its pivoted end and perforated to loosely receive and swing on said
 45 shaft 9. The door ears 72 are arranged between the shaft supporting ears, and the ears of each door are arranged in different
 50 horizontal planes of the ears of the remaining doors so that the ears of the doors overlie and rest and turn on each other about a common vertical axis.

I do not herein claim the door construction, arrangement and mounting as claim
 55 for these features is made in my application filed December 19, 1910, S. No. 598,242.

It is evident that various changes and
 60 modifications might be resorted to in the forms, constructions and arrangements of

the parts described without departing from the spirit and scope of my invention and hence I do not wish to limit myself to the exact constructions disclosed hereby.

What I claim is;—

1. In combination, in a knock-down coop, removable side and end walls, the end walls having top upwardly extending spacing projections, roof plates slidably interlocking with the top edges of said end walls and
 70 formed with sockets to receive the upright edges of said projections, said roof plates having upwardly extending portions spaced apart by said projections and terminating
 75 in out-turned flanges, and an eave-forming longitudinally slidable hood interlocking with said flanges and closing the space between said projections and upper portions of said roof plates.

2. In combination, side walls, end walls
 80 removably joined thereto, and having central elevated spacing projections, removable roof plates fitting the upper edges of said walls and at their upper edges fitting the
 85 vertical edges of said projections and spaced apart thereby, the spaced upper edge portions of said plates being upturned and formed with ventilating openings, and a removable longitudinal hood interlocking with
 90 and joining said upper edge portions and forming projecting guard eaves above said openings.

3. In a brooder coop, in combination, side walls, end walls, a pair of roof plates removably joined thereto and having their
 95 upper longitudinal edge portions spaced apart and formed with ventilating openings and turned upwardly with out turned top edge flanges, and a longitudinal hood bridging the space between said top edge portions
 100 and at its opposite longitudinal edges in interlocking longitudinal sliding engagement with said flanges.

4. In a brooder coop, in combination, a removable floor, removable side and end walls,
 105 a pair of removable roof sections having their upper longitudinal edges spaced apart and turned upwardly and formed with ventilating openings, and a longitudinal removable hood bridging the space between said
 110 edges and joining the same and forming outwardly projecting guard eaves over said openings.

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

PEARL HENRY BRAINARD.

Witnesses:

VIRGINIA C. WILSON,
 DANIEL D. RIDEN.