Oct. 30, 1923. 1,472,159

J. O. FARRAR

COLLAPSIBLE COOP

Filed Jan. 4, 1922 3 Sheets-Sheet 1

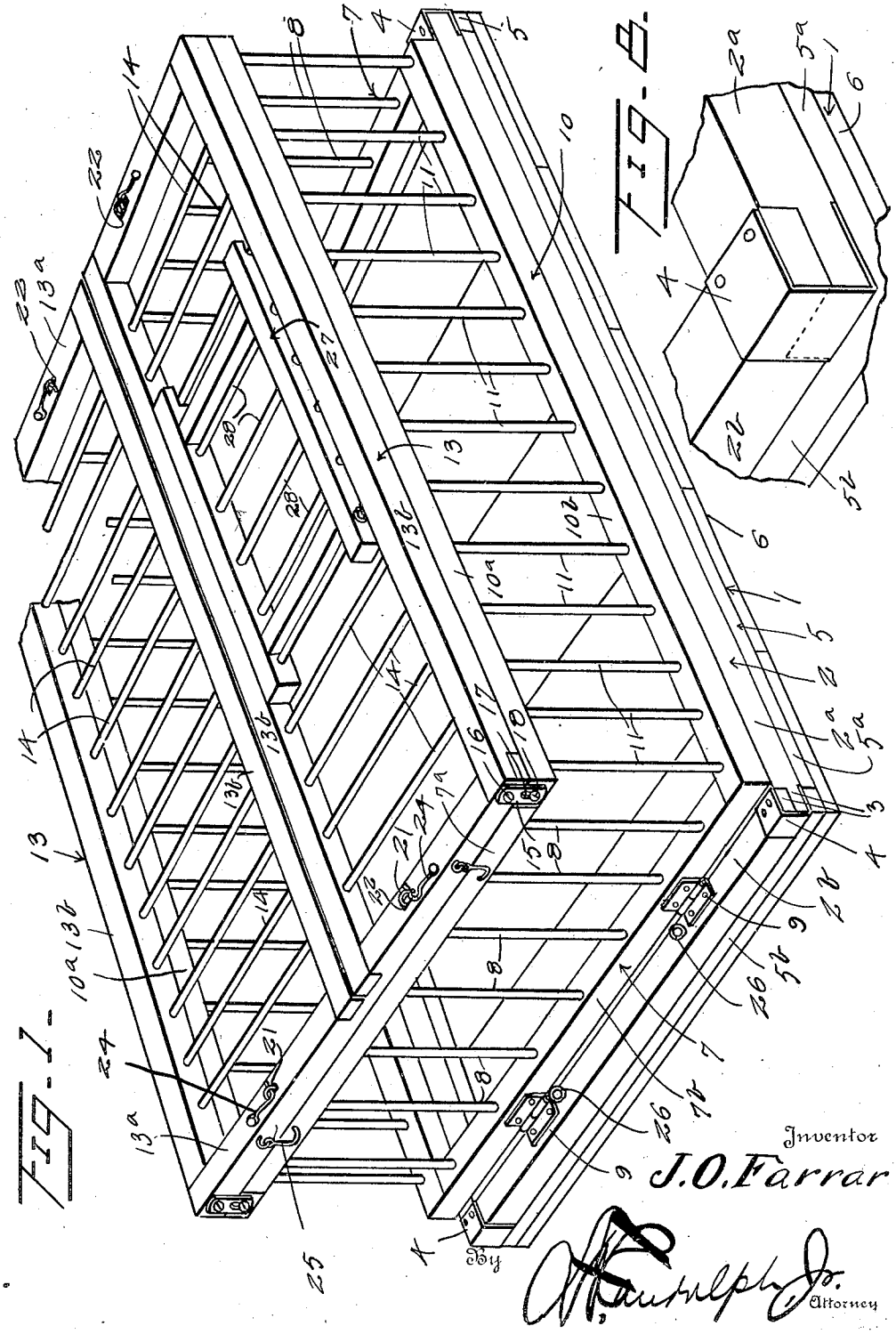


FIG. 1.

FIG. 2.

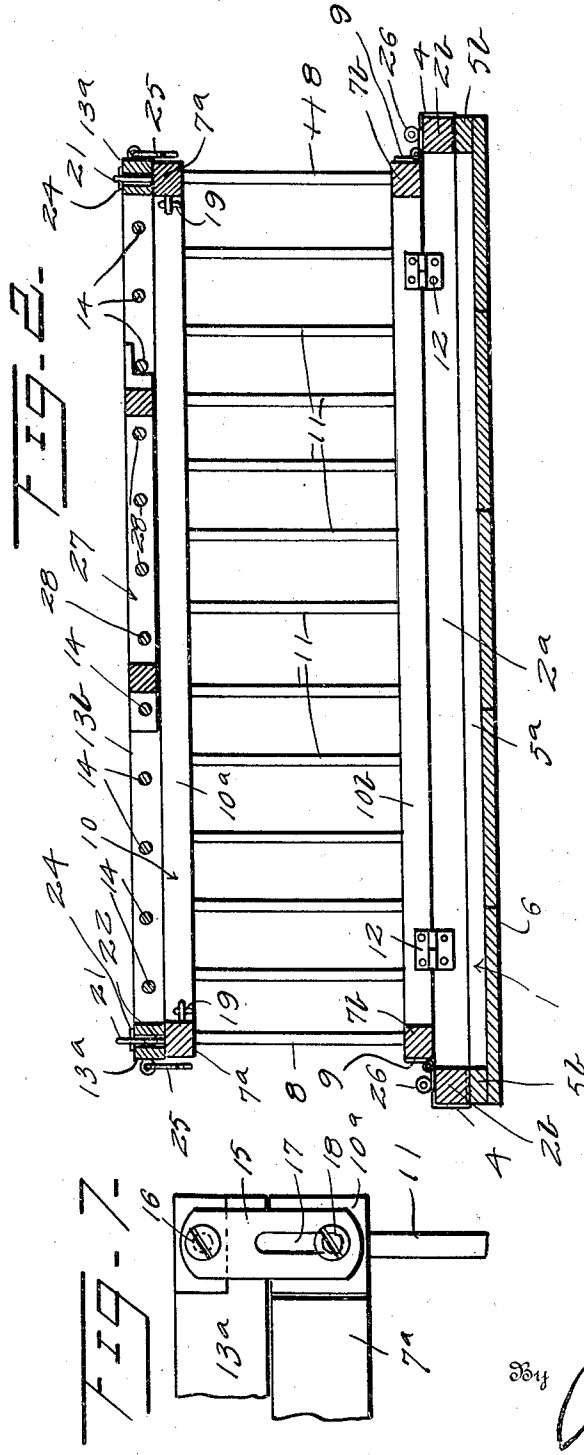
Inventor
J. O. Farrar
By
Attorney

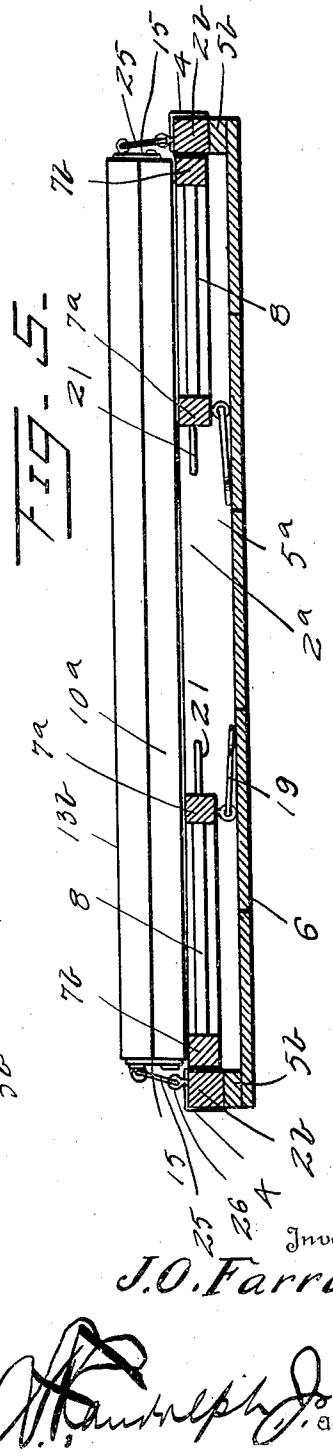
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COLLAPSIBLE COOP

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Fig. 3.

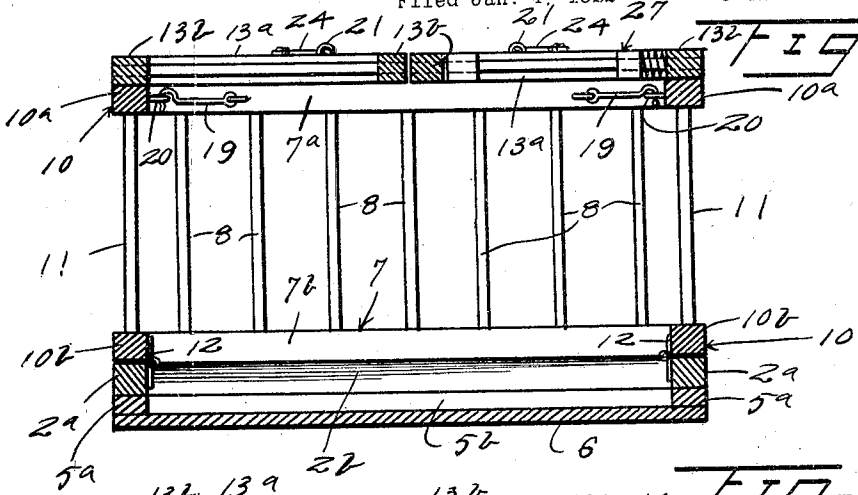


Fig. 6.

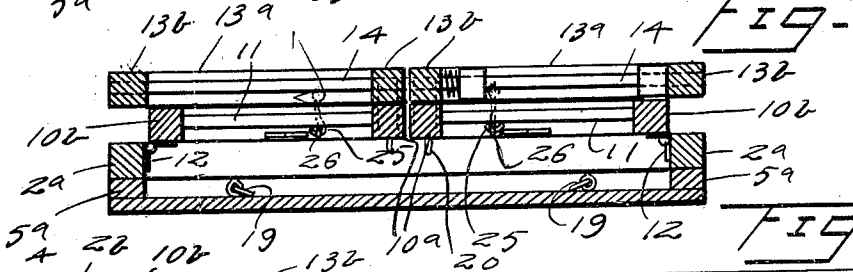
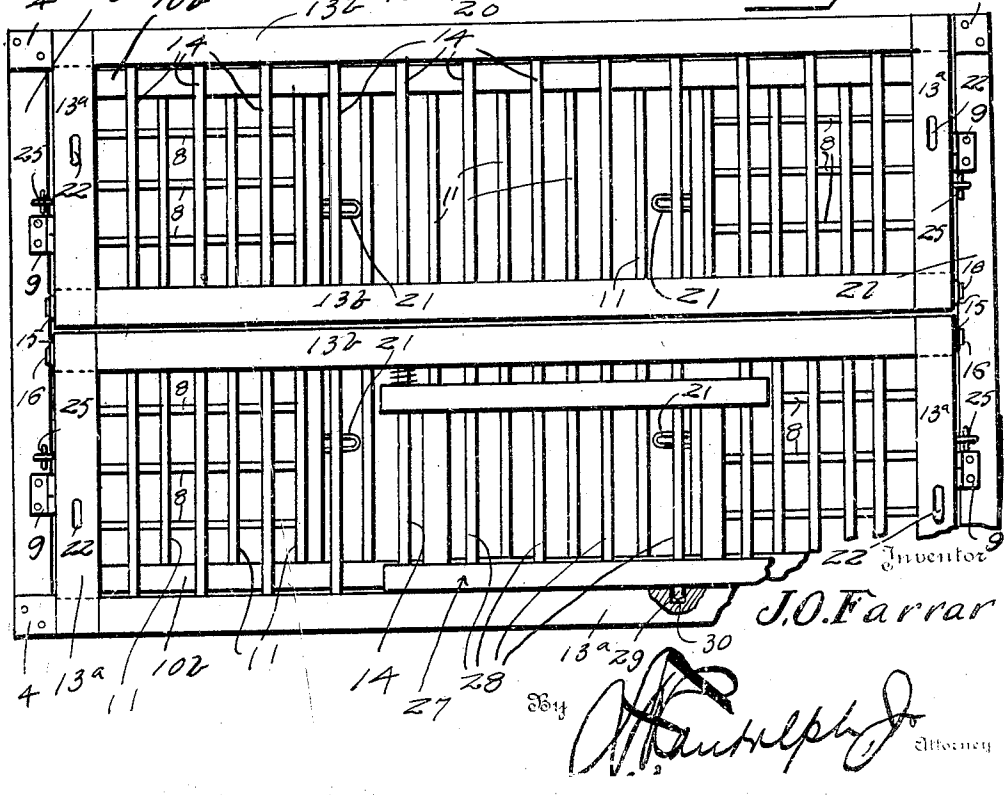


Fig. 4.



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UNITED STATES PATENT OFFICE.

JETHRO O. FARRAR, OF ELKTON, VIRGINIA.

COLLAPSIBLE COOP.

Application filed January 4, 1922. Serial No. 526,926.

To all whom it may concern:

Be it known that I, JETHRO O. FARRAR, a citizen of United States, residing at Elkton, in the county of Rockingham and State of Virginia, have invented certain new and useful Improvements in Collapsible 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 has relation to certain new and useful improvements in a collapsible coop and has for its primary object the provision of a coop which will be of simple and inexpensive construction and yet may be readily folded in compact form when not in use.

The invention has for another object the provision of a collapsible coop which will be composed of the minimum number of parts, of simple construction and arrangement and in which the end members may be readily folded into the base member and the side members and cover members folded over the inwardly folded end members and the base of the coop, thereby providing a flat folded structure which will require but the minimum amount of space for storage or shipping purposes.

The invention has for another object the provision of novel means adapted to prevent the several parts of the coop from any accidental relative movement during the handling thereof when in folded condition, whereby to facilitate the handling of the coop when stacking it to the ship or for storage.

The invention has for a further object the provision of a collapsible coop of the character set forth in which the end members and side members may be readily folded or swung outwardly and locked together to form the body of the coop, while the cover members pivotally connected with the side members may be readily folded upon the latter or opened over the same and over the end members when the coop is assembled for use, novel and simple securing members being provided for the cover sections as well as for the end members and side members of the coop.

With the foregoing and other objects in view as will appear as the description proceeds, the invention consists in the novel construction, combination, and arrangement of cooperating elements as hereinafter more specifically set forth, claimed, and shown in the accompanying drawings forming a part of the present application, and in which:—

Figure 1 is a perspective view of the coop in its set up or assembled condition, ready for use;

Figure 2 is a longitudinal section through the coop in its set up condition as shown in Figure 1;

Figure 3 is a transverse vertical section through the coop as shown in Figures 1 and 2;

Figure 4 is a plan view of the coop in its collapsed or folded condition;

Figure 5 is a longitudinal section through the folded coop;

Figure 6 is a transverse vertical section through the folded coop;

Figure 7 is a detail enlarged view showing the connection between one of the side members and one of the cover sections;

Figure 8 is a detail view showing the structure of the corner portion of the base section of the coop.

Referring more in detail to the drawings in which similar reference characters designate corresponding parts throughout the several views, 1 indicates in general the base of the coop which as shown consists of a rectangular upper frame 2, the side and end members 2^a and 2^b of which have overlapping reduced end portions 3 secured together by elements 4. The base also includes a lower rectangular frame 5, the side and end members 5^a and 5^b of which are secured together in a manner similar to that employed in connecting the members 2^a and 2^b. The solid bottom 6 of the coop is secured to the lower frame 5 in any suitable manner. This provides a light but strong and durable base structure for the coop and provides a space in which the end members 7 of the coop may be folded. The end frame members 7 consist of upper and lower bars 7^a and 7^b which are connected by vertical posts or slats 8, and these end frame members are secured to the inner upper edges of the base 1 of the coop by hinges 9. It will be seen that the bars 7^a and 7^b extend beyond the end posts or slats 8 and abut against the corresponding bars of the side sections to be described. The side sections 10 also consist of upper and lower bars 10^a and 10^b and which bars are connected by vertical posts or slats 11. In this connection it is to be

noted that the bars 10^a and 10^b extend beyond the end of the vertical posts or slats 11 and the object of this extension will presently be described. The side sections 10 are secured to the inner upper edges of the side of the base section 1 by the hinges 12. This structure will permit the side sections 10 to fold over upon the end sections 7 after the latter has been lowered into the bottom sections 1, as shown in the drawings.

The top of the coop is formed of a pair of cover sections which comprise rectangular frames 13 consisting of transverse and longitudinal bars 13^a and 13^b the longitudinal bars of which are also connected by transverse spaced members 14, as clearly shown in the drawings. The cover sections 13 are adapted to fold against the outer faces of the side sections 10 when the coop is in collapsed condition, as will be evident as the description proceeds.

The cover sections 13 are loosely connected at their outer corner portions with the extended end of the upper longitudinal bars 10^a of the side sections 10, by the link or slotted plate 15, pivoted to the end portions of the cover sections 13 at the outer edges thereof, as shown at 16. These links or plates are provided with elongated slots 17 through which extend the pins 18 projecting from the ends of the side sections 10 at the extended ends of the upper longitudinal bars 10^a. This will provide a loose connection between the cover sections 13 and the side sections 10 so that the cover sections 13 may be readily moved to their folded position against the outer faces of the side sections 10 or to their closed positions over the top of the side sections 10 and end sections 7 when the coop is set up for use, with the cover in closed position.

As means for securing the end sections 7 and side sections 10 in upstanding position, the hooks 19 may be carried by the bars 7^a of the end sections 7, as shown and adapted for removable engagement with the eyes 20 carried by the bars 10^a of the side sections, thereby securely fastening together the corner portion of the body of the coop. In this connection it is to be noted that the ends of the bars 7^a and 7^b of the end sections 7 are drawn into engagement with the bars 10 and 10^b of the side sections 10 whereby the ends tend to brace the side and vice versa.

As means for locking the cover in closed position, the staple members 21 have been provided on the end sections 7, these staple members extending upwardly from the upper side bars 7^a of the end sections 7 and adapted to pass through slots 22 provided for this purpose in the bars 13^a of the cover sections 13, after which the hooks 24 pivoted on the bars 13^a of the cover sections 13 may be passed through the projecting end of the staples 21 thereby securely locking the cover sections 13 in closed position. This may be readily understood by referring to Figures 1 and 2 of the drawings.

I also have provided suitable hooks 25 which are carried by the transverse bars 13^a of the cover sections and which when the coop is in a collapsed condition are adapted to engage eyes 26 attached to the upper end bars 2^a of the base. The hooks and eyes it will be readily seen provide an effective means for securing the side and cover sections to the base when the coop is in a collapsed condition and as the side and cover sections are on top of the end sections when the coop is collapsed, the whole structure is securely held in place and prevented from unfolding when the coop is being handled during process of packing for shipment.

It will be noted by referring to the drawings that a door 27 may be provided in the cover of the coop so that fowls or the like may be readily inserted or removed without the necessity of opening the coop. This door is mounted on one of the transverse spaced members 14 of the cover section, and the door consists of a rectangular frame having the longitudinal bars of the rectangle extending beyond the transverse bars at one end of the door, and there is provided a series of posts or slats 28 extending between the longitudinal members of the door to form an open work similar to that of the side and end sections of the coop. These extensions on the longitudinal bars of the door form the means for securing the door to one of the transverse spaced posts or slats 14. As a means of fastening the door in a closed position, I provide a coil spring surrounding the member 14 on which the door is mounted, and one of the longitudinal bars of the door frame carries a lug or projection 29 which is adapted to move into a recess 30, formed in one of the longitudinal bars 13^b of a cover section, by the action of the coil spring in expanding.

It is thought that the complete construction of the coop may now be readily understood from the foregoing paragraphs taken in connection with the accompanying drawings without further detail description. It may be briefly stated, however, that when it is desired to fold the parts of the coop upon one another, from the position in which all the parts are shown in Figure 1 it is first necessary to release the hooks 24, then swing the cover section 13 to open position against the outer faces of the side sections 10. The hook 19 must then be disengaged from the eyes 20 and the end sections 7 folded downwardly in the base sections 1 of the coop. The side sections 10 may then be folded inwardly upon the end sections 7 with the cover sections 13 resting against the outer faces of the side sections 10. The complete coop is then in collapsed condition and ready

to occupy the minimum space for storage or shipment. When the coop is in this condition, the hooks 25 are engaged with the eyes 26 and securely hold the coop sections together. To again return the parts to the position shown in Figure 1 for use of the coop, the operation may simply be reversed so as to bring the movable parts of the coop into their proper places ready to be locked together, as previously described.

While the preferred embodiment of the invention has been shown and described, it is to be understood that minor changes in the details of construction and arrangement of parts may be resorted to within the scope of what is claimed without departing from the spirit of the invention.

What is claimed is:—

A collapsible coop comprising a base having a solid bottom located on its underside, means for bracing the corners of said base, open work end sections hinged to said base and adapted to be folded into the same when the coop is in collapsed condition, open work side sections hinged to the edges of said base and adapted to be folded inwardly upon the end sections when the coop is in collapsed condition, and open work cover sections connected with said side sections by sliding link connections to permit folding of said cover sections against the outer faces of said side sections when the coop is in collapsed condition.

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

JETHRO O. FARRAR.

Witnesses:
F. P. HAMMERS,
C. H. J. BLOSE.