

H. F. REED.
COLLAPSIBLE TRAP NEST.
APPLICATION FILED APR. 25, 1917.

Patented Sept. 18, 1917.
2 SHEETS—SHEET 1.

1,240,487.

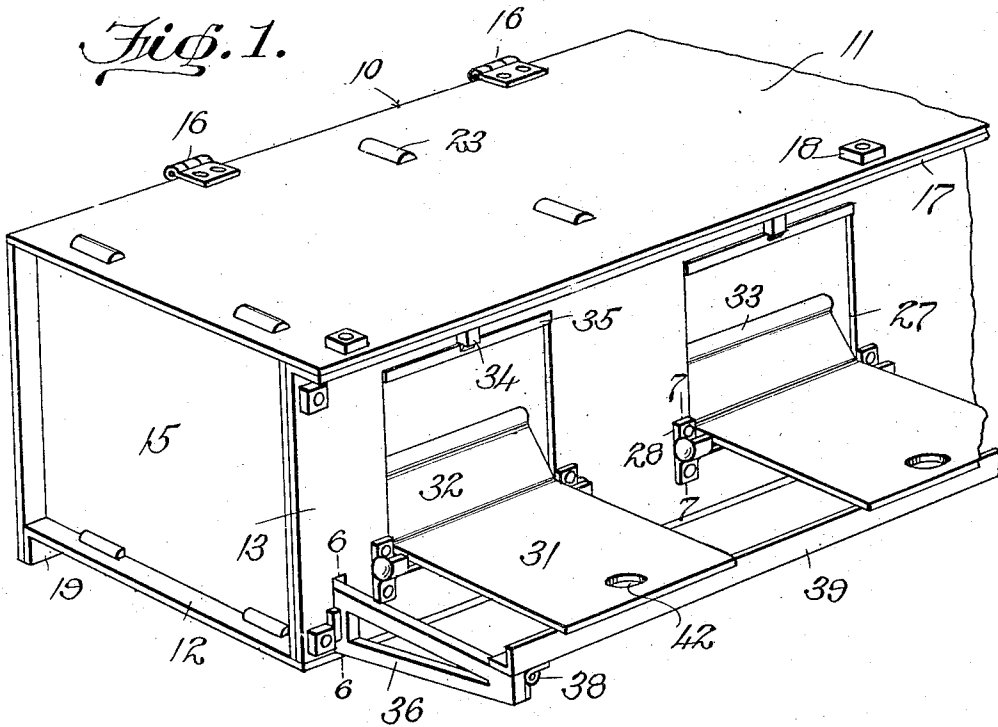


Fig. 6.

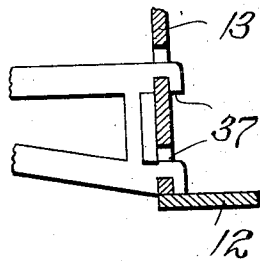


Fig. 7.

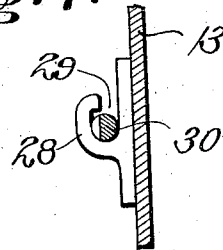
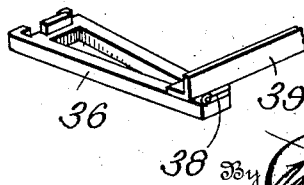


Fig. 8.



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Fig. 2.

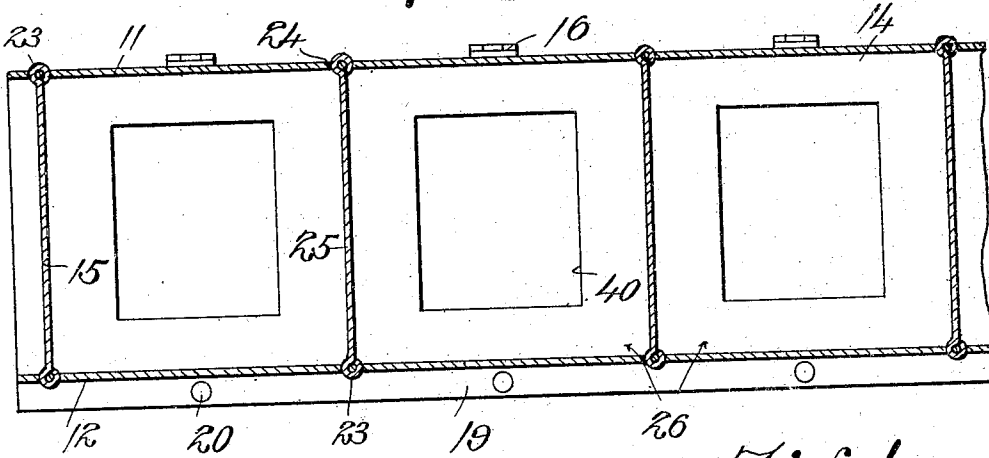


Fig. 3.

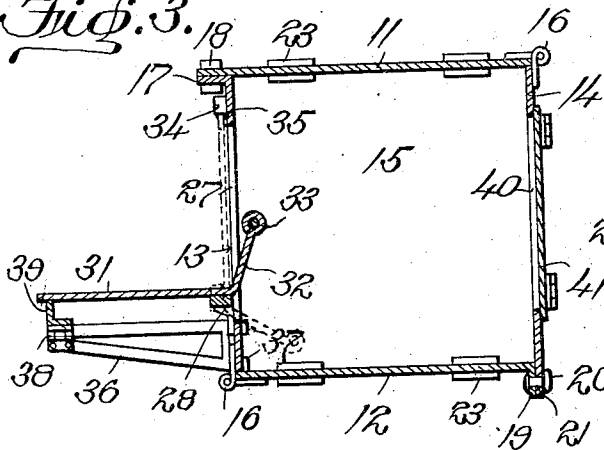


Fig. 4.

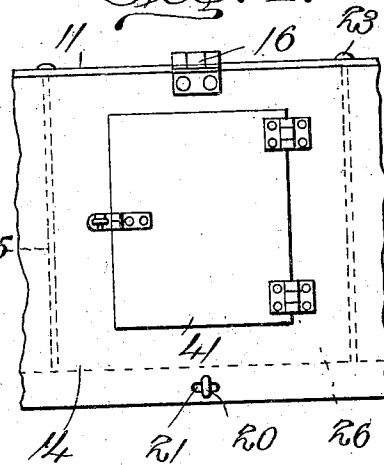
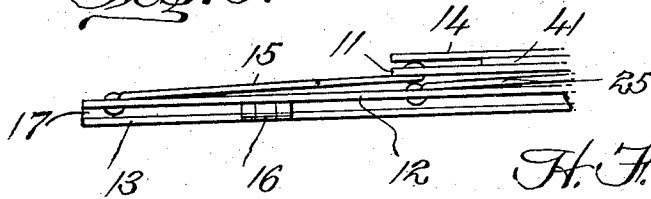


Fig. 5.



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UNITED STATES PATENT OFFICE.

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COLLAPSIBLE TRAP-NEST.

1,240,487.

Specification of Letters Patent.

Patented Sept. 18, 1917.

Application filed April 25, 1917. Serial No. 164,479.

To all whom it may concern:

Be it known that I, HARVEY F. REED, a citizen of the United States, residing at New York city, in the county of New York, State of New York, have invented certain new and useful Improvements in Collapsible Trap-Nests; 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 improvements in hen's nests and has for its object to provide a collapsible structure, preferably of all metal construction and embodying one or more nests as may be desirable.

It is further a purpose of the present invention to provide a nest structure in which the several parts may be quickly and conveniently folded in novel manner for storage or shipment and as readily set up for use.

Still another object of the invention is to provide an appliance in which is embodied a novel arrangement of trapping mechanism through the medium of which the hens may be imprisoned in the respective nesting compartments until released by the attendant, the structure thus affording a reliable and effective medium for pedigree breeding and for obtaining an accurate record of the individual layers.

With the above and other objects of similar nature in view, the invention resides in the construction, combination and arrangement of parts, set forth in and falling within the scope of the appended claim.

In the drawing:—

Figure 1 is a fragmental perspective view of a nesting appliance constructed in accordance with the invention.

Fig. 2 is a longitudinal section there-through.

Fig. 3 is a transverse section.

Fig. 4 is a fragmental rear elevation.

Fig. 5 is a side elevation of the appliance collapsed.

Fig. 6 is a detail section taken on the line 6—6 of Fig. 1.

Fig. 7 is a detail section taken on the line 7—7 of Fig. 1; and

Fig. 8 is a detached view of one of the brackets and the supporting bar in folded position.

Referring now more particularly to the accompanying drawing the improved nest-

ing appliance is indicated generally at 10 and consists of a substantially rectangular housing including a top wall 11, bottom wall 12, front wall 13, rear wall 14, and end walls 15. Connecting the top wall 11 with the rear wall 14, and the front wall 13 with the bottom wall 12 are hinges 16, the front and rear walls being thus free to fold respectively upon the bottom and top walls when it desired to collapse the housing for any purpose. Formed on the upper edge of the front wall 13 is an outwardly directed flange 17, on which the top wall 11 is supported, said flange and the top wall having therein registering apertures through which connecting bolts 18 are removably passed. The rear and bottom walls are also detachably connected, the latter having an integral flange 19 carrying a plurality of turn buttons 20 passed removably through slots 21 in the rear wall 14 and secured as is evident. The end walls 15 are secured within the housing by providing on their upper and lower edge spaced tongues 23, said tongue being bent circularly through spaced openings formed in the adjacent wall and thus serving to hingedly connect the end walls therewith. There is further provided at spaced intervals within the housing a plurality of transverse partitions 25 thereby forming a plurality of compartments each of which provides a nest. These partitions 25 are arranged within the housing and hingedly connected to the top and bottom walls thereof in the same manner as the end walls 15. Access is had to each of the compartments through an opening 27 formed in the front wall 13, while secured adjacent the lower corners of said opening are brackets 28 each provided with an open bearing 29, a shaft 30 carrying a trapping platform 31 being removably pivoted in said bearings whereby the platform is free to swing upwardly and close the entrance opening as will subsequently appear.

At the inner end of the platform 31 there is provided an angular extension 32 the free edge portion of which is suitably rolled to produce a perch 33, a hen when entering the related compartment stepping thereupon and tilting the platform upwardly in which position it is automatically secured by means of a spring catch 34 of any suitable design. A buffer 35 arranged below the catch 34 serves to prevent unnecessary noise when closing the trapping platform.

In order to support the platforms 31 in position to project horizontally from the front wall 13 there are provided a plurality of brackets 36 the inner ends of which are
 5 removably engaged as at 37, in openings formed in the front wall, while supported at their outer ends and connected thereto by means of hinge 38, is an angle bar 39. When
 10 in open position the platforms 31 rest upon the angle bar 39 and permit of a hen stepping thereon and passing through the related entrance opening, she then stepping upon the perch 33 and by her weight tilting the platform to close said opening. The catch
 15 34 having operated automatically to lock the platform in closed position, the hen will be effectively trapped in the compartment until released by the attendant, at which time her leg band number or other designating mark
 20 is noted and recorded to indicate that an egg has been laid by that particular individual. It is, of course, understood that suitable nesting material is placed in the compartment to provide a soft surface on which the eggs are
 25 deposited.

In order to gain access to the nesting compartments and release the hens, there is provided in the rear wall 14 a plurality of openings 40, closed by means of hinged
 30 doors 41, the hens being withdrawn by the attendant through these openings and their numbers noted. To permit resetting of the trapping platforms from the rear of the appliance, a small opening 42 is placed therein
 35 through which a finger of the attendant may be passed to engage and release the latter.

In collapsing the appliance, the brackets 36 together with the angle bar 39 are removed and folded as shown in Fig. 8 and
 40 the platforms 31 next removed from the bearings 29. The bolts 18 are then removed and the turn-buttons 20 released so that the rear wall 14 may be folded upon the top wall

11 and the front wall 13 folded beneath the bottom wall 12. The top and rear walls are
 45 now moved longitudinally with respect to the bottom and front walls, the end walls and partitions swinging on their hinged connections with the top and bottom walls and the entire structure being collapsed as
 50 clearly illustrated in Fig. 5. There is thus provided an extremely compact article which requires the minimum of space for storage and shipment as the case may be. It will be
 55 evident that an appliance of this nature may be set up and collapsed at will with the expenditure of but little time and labor.

It may further be stated that this device is preferably of all metal construction, so that it may be easily and thoroughly cleaned
 60 and will afford no hiding places for vermin.

What I claim is:—

A collapsible nest structure including a top wall and a bottom wall, a front wall hinged to the bottom wall and foldable
 65 therebeneath, a rear wall hinged to the top wall and foldable thereupon, means detachably securing the front and rear walls to the bottom and top walls respectively, end walls hingedly connecting the top and bottom
 70 walls for folding movement toward each other, said front wall having an entrance opening therein, a trapping platform removably pivoted in the entrance opening and
 75 tiltable by a hen to close the latter, means for automatically locking the platform in closed position, and brackets removably engaged with said front wall for supporting said platform in its open position.

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

HARVEY F. REED.

Witnesses:

MAX HULA,
 ADOLPH S. WASSERMAN.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
 Washington, D. C."