Sept. 18, 1928. 1,684,608

H. F. THUMANN

ROOST

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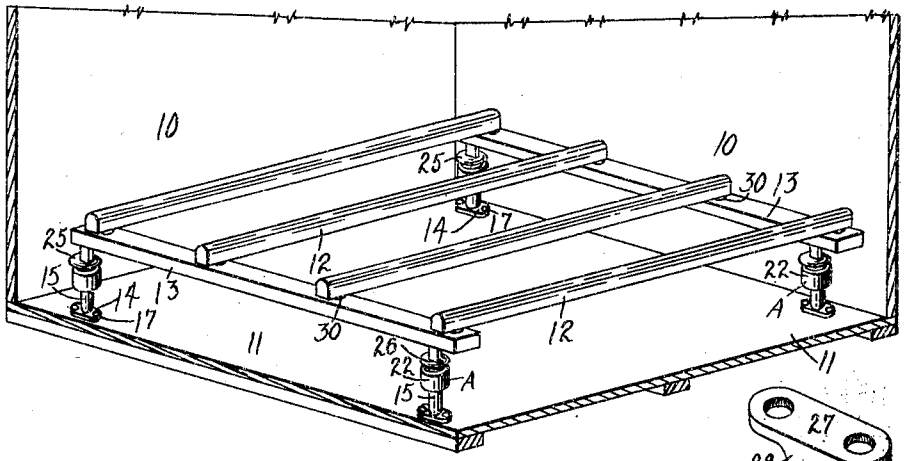
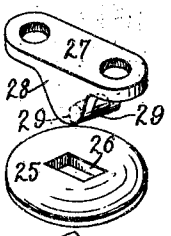


Fig. 1.



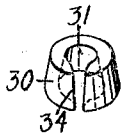


Fig. 4.

Fig. 3.

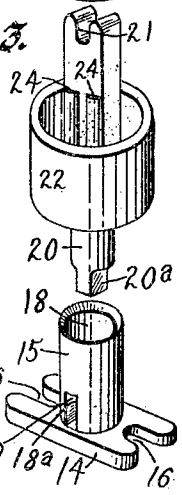
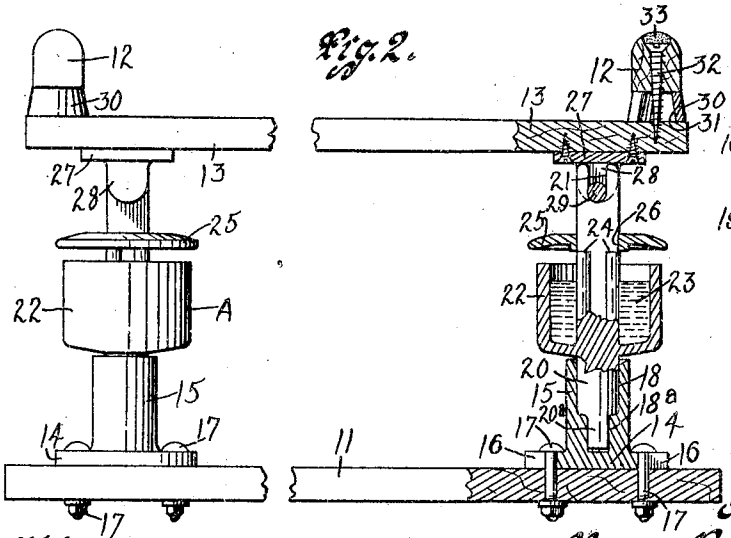


Fig. 2.



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UNITED STATES PATENT OFFICE.

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ROOST.

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My invention relates to roosts for chickens and other fowl.

The purpose of the invention is to provide a roost of simple, durable and inexpensive construction having parts so constructed and arranged as to protect the roost members proper against access by vermin such as mites, lice and so on.

Generally speaking it is my object to provide a chicken roost so constructed and arranged that it will be sanitary and can be readily and easily cleaned.

In this connection it is my purpose to provide a complete unitary structure made of parts which can be readily adjusted for facilitating cleaning.

Particularly it is my purpose to provide a chicken roost having parts so arranged that the roost members proper are mounted in such a way to prevent as far as possible, the collecting of undesirable vermin thereon.

With these and other objects in view my invention consists in the construction, arrangement and combination of the various parts of my device, whereby the objects contemplated are attained, as hereinafter more fully set forth, pointed out in my claims, and illustrated in the accompanying drawings, in which:

Figure 1 is a perspective view of a roost embodying my invention.

Figure 2 is an elevation of my roost, certain parts being shown in section for the purpose of better illustration.

Figure 3 is a perspective view of one of the supporting members showing the parts separated and

Figure 4 is a perspective view of one of the devices by which the roost members proper are supported on the cross bars.

In the accompanying drawings I have used the reference numeral 10 to indicate those portions shown of a chicken house or the like. In the chicken house is an ordinary dropping board 11.

My roosts are preferably made in units or sections each of which has four supporting members, two or more cross bars and a plurality of roost members proper.

The supporting members each comprises a plurality of parts which will now be described. Each supporting member forms substantially a post for supporting the cross bar. There is shown in Figure 1 a roost having the roost members 12, the cross bars 13 and the supporting parts indicated generally at A. The construction of the supporting members may vary.

It is my purpose in providing them to afford; first, a simple support for the cross bar 13; second, a means for holding a vermicide arranged in the path of travel of mites or lice crawling up the support toward the roost; third, a structure which can be readily and easily cleaned and fourth, a support which can be easily taken apart or assembled.

In the drawings each support is illustrated as having a base indicated generally at 14 and formed with a simple upstanding socket member 15. The base 14 is preferably provided at its opposite ends with notches 16 to receive bolts, nails, screws or the like 17 by which the base is rigidly fastened to the dropping board 11.

The socket member 15 is provided with the socket recess 18 which at its lower part is rectangular in cross section as at 18^a. At its lower part adjacent to the base 14 the socket member 15 is provided with passages 19 extending from its exterior and communicating with the socket recess portion 18^a.

The construction of the base 14 and the socket member 15 is such as to permit scalding water, vermicide or the like to be used for thoroughly cleaning the base.

The passages 19 permit the draining of the socket opening. Above each base is a stem or post 20, the lower portion of which is designed to be received in the socket recess and is provided at its lower extremity with a flattened portion 20^a adapted to be nonrotatably received in the portion 18^a of the socket recess 18.

At its upper end the post 20 is provided with a notch in its top as indicated at 21. On the post 20 substantially above the base 14 and socket member 15, is formed a cup 22 to receive vermicide or the like 23. On the post 20 just above the cup 22 is a shoulder 24.

A disc shaped cover plate 25 has a central opening 26 to receive the upper part of the post 20 and to be slipped on the post 20 from above and rest normally on the shoulder 24 slightly spaced above the cup 22 for protecting the cup and its contents from dirt or the like dropping from above.

For coacting with the upper end of the post 20 and its notch 21 there is provided a supporting bracket member 27 secured to

the under surface of the cross bar 13. The bracket 27 is provided with a pair of spaced downwardly extending ears 28 connected by a pin 29 or the like.

The parts are so arranged and are of such sizes and shapes that the pin 29 may be dropped into the slot 21 as shown in Figure 2 with the upper part of the post 20 received between the ears 28. There is thus formed a loose hinge connection between the cross bar 13 and the post.

It will be noted that each post consists of a base 14 with its socket member 15 and an upright post element 20 having between its ends the cup 22. The readily removable cover member 25 and the bracket 27 are arranged in pairs at opposite ends of the roost for supporting a pair of cross bars 13.

Mounted upon the cross bars 13 are the roosts 12 already mounted on each cross bar preferably in the following manner. Resting on the top of the bar 13 beneath each roost member 12 is a spacer member 30 which may have a variety of shapes but is preferably in the form of a truncated cone having a hole 31 extending through it to receive a screw 32 or the like which is extended through the roost member 12 and through the hole 31 and is screwed in the cross bar 13.

The head of the screw is preferably counter sunk in the top of the roost 12 and the hole is filled with putty or the like 33 to make a smooth upper surface for the roost thus to leave no notches or recesses where vermin might gather.

The spacer member 30 has a vertical slot 34 extended from top to bottom and also from the hole 31 to the surface of the member 30 to allow for scalding or otherwise cleansing or sterilizing such member.

It should perhaps be explained that the parts are so constructed and arranged that the pins 29 at one side of the roost structure are aligned with each other and are preferably parallel with the pins at the other side so that the roost consisting of the members 12 and 13 may be readily lifted upon the pins 29 hinged.

To permit convenient cleaning of the dropping board or to permit the post on either side to be taken apart for sterilizing or the like, the parts are so arranged that the posts 20 are nonrotatable. They are held against rotation by the reception of the flattened ends 20^a of the posts 20 in the portions 18^a of the socket recesses 18.

In the practical use of my improved roost, the cups 22 are preferably partially filled with some suitable vermicide. Mites, lice or the like crawling up the post will be unable to pass the liquid in the cups 20 and hence will not get up to the roost members proper 12.

The vermicide tends to destroy the vermin. The frame consisting of roost members 12 and the cross bars 13 can be easily tilted off the posts in the manner just described or can be entirely lifted off for scalding or otherwise sterilizing.

It will be noted that all of the parts are so arranged as to facilitate washing or cleansing. A roost of this kind when installed, can be easily kept clean and sanitary. They may be very easily taken apart.

For assembly, the members 12 and 13 may be lifted off the posts and the covers 25 and the post with the cups 22 may be lifted up and scalded or otherwise cleaned. Scalding water or vermicide may be poured on the sockets and the base 14 for cleaning them.

Some modifications may be made in the details of the construction of the parts of my roost without departing from the real spirit and purpose of my invention and it is my intention to cover by my claims any modified forms of structure or use of mechanical equivalents which may be reasonably included within the scope of the invention disclosed.

I claim as my invention:

1. In a chicken roost, a plurality of supports, cross bars, roost members mounted on and connecting the cross bars, said cross bars being rested upon said supports, said roost members being supported on and spaced from the cross bars by spacer members having holes through them and slots in their walls extended through said holes and by fastening means extending from the roost members through the holes through the cross bars.

2. In a roost structure, cross bars, roost members supported thereon and supports for the cross bars comprising in each instance a base having a socket member, a post nonrotatably mounted in the socket member and readily detachable therefrom and a bracket on one of the cross bars having a loose pivotal connection with the post.

3. In a roost structure, cross bars, roost members supported thereon and supports for the cross bars comprising in each instance a base having a socket member, a post nonrotatably mounted in the socket member and readily detachable therefrom and a bracket on one of the cross bars having a loose pivotal connection with the post, each post having at its upper end a notch and each bracket having a member received in such notch.

4. In a roost structure, cross bars, roost members supported thereon and supports for the cross bars comprising in each instance a base having a socket member, a post nonrotatably mounted in the socket member and readily detachable therefrom and a bracket on one of the cross bars having a loose pivotal connection with the post, each post having at its upper end a notch and each bracket

having a member received in such notch and having ears overlapping the upper end of the post.

5. In a roost structure, cross bars, roost members supported thereon and supports for the cross bars comprising in each instance a base having a socket member, a post non-rotatably mounted in the socket member and readily detachable therefrom and a bracket on one of the cross bars having a loose pivotal connection with the post, each post having formed thereon a cup for containing the vermicide entirely surrounding the post.

6. In a roost structure, cross bars, roost members supported thereon and supports for the cross bars comprising in each instance a base having a socket member, a post non-rotatably mounted in the socket member and readily detachable therefrom and a bracket on one of the cross bars having a loose pivotal connection with the post, each post having formed thereon a cup for containing the vermicide entirely surrounding the post and a protecting cover member on each post spaced above its cup.

7. In a roost structure, cross bars, roost members supported thereon and supports for the cross bars comprising in each instance a base having a socket member, a post non-rotatably mounted in the socket member and readily detachable therefrom and a bracket on one of the cross bars having a loose pivotal connection with the post, each post having formed thereon a cup for containing the vermicide entirely surrounding the post and a protecting cover member on each post spaced above its cup, said cover member being slidably removable from the post, the post being provided with a shoulder for supporting the cover member above the cup.

8. In a chicken roost, cross bars, roost members mounted on the cross bars, upright supporting posts spaced from each other and having in their upper ends registering slots, means on the cross bars loosely and removably received in said slots and adapted to afford pivotal connections between the cross bars and the posts.

9. In a roost structure, a plurality of sockets, posts detachably mounted in and held upright by said sockets, said posts being arranged with slots in their upper ends, cross bars, roost members on the cross bars, brackets on said cross bars having portions detachably and pivotally received in said slots.

10. In a roost structure, a plurality of sockets, posts detachably mounted in and held upright by said sockets, said posts being arranged with slots in their upper ends, cross bars, roost members on the cross bars, brackets on said cross bars having portions detachably and pivotally received in said slots, and portions for engaging the posts for preventing movement of the bars on the posts horizontally.

11. In a structure of the class described, a plurality of bases having sockets, a chicken roost device comprising cross bars and roost members thereon and a series of upright posts having their lower ends detachably received in said sockets and having at their upper ends pivotal connections with the bars.

Des Moines, Iowa, October 22, 1926.

HENRY F. THUMANN.