Nov. 30, 1937. F. B. HERBERT 2,100,508

DROPPING BOARD AND ROOST FOR POULTRY

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Fig. 1.

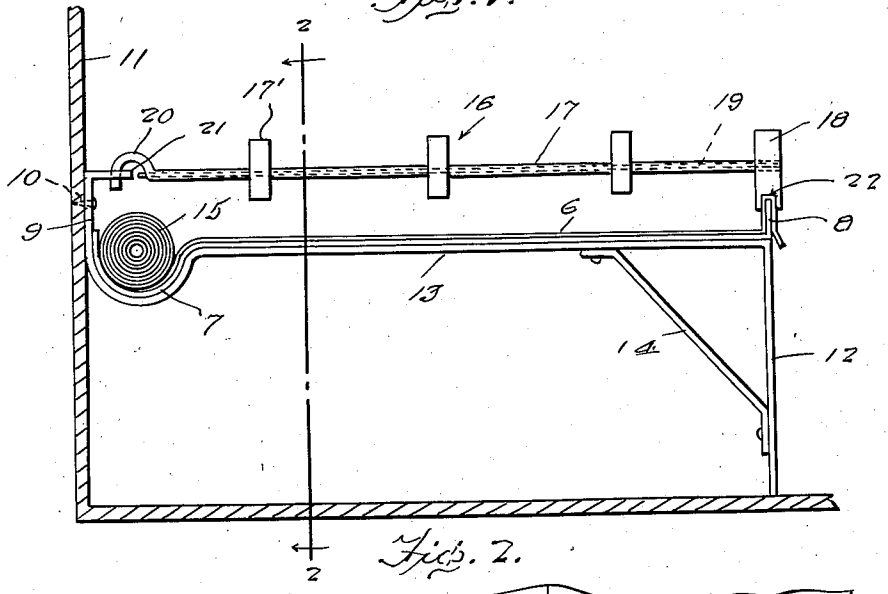
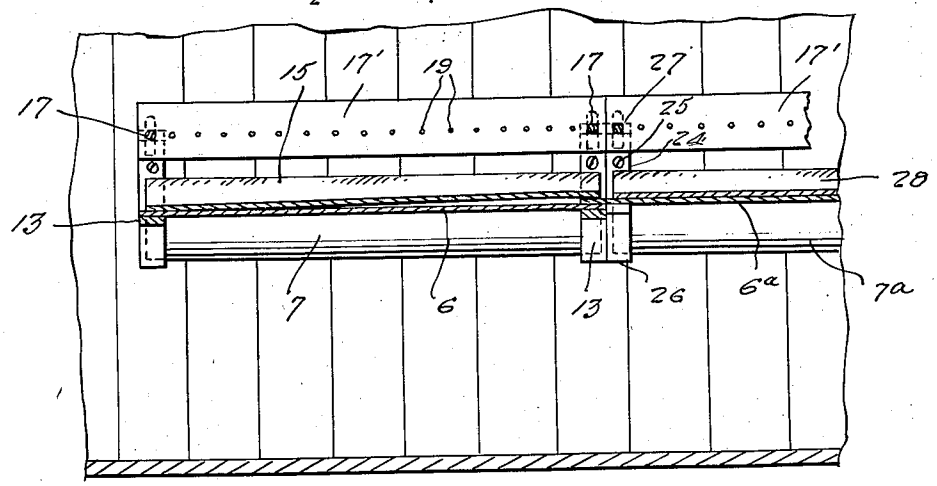


Fig. 2.



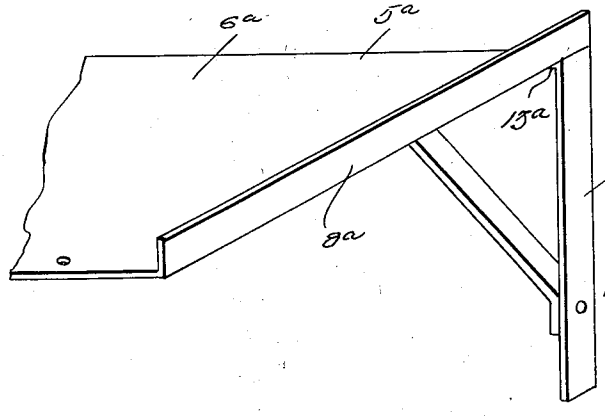


Fig. 5.

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Fig. 3.

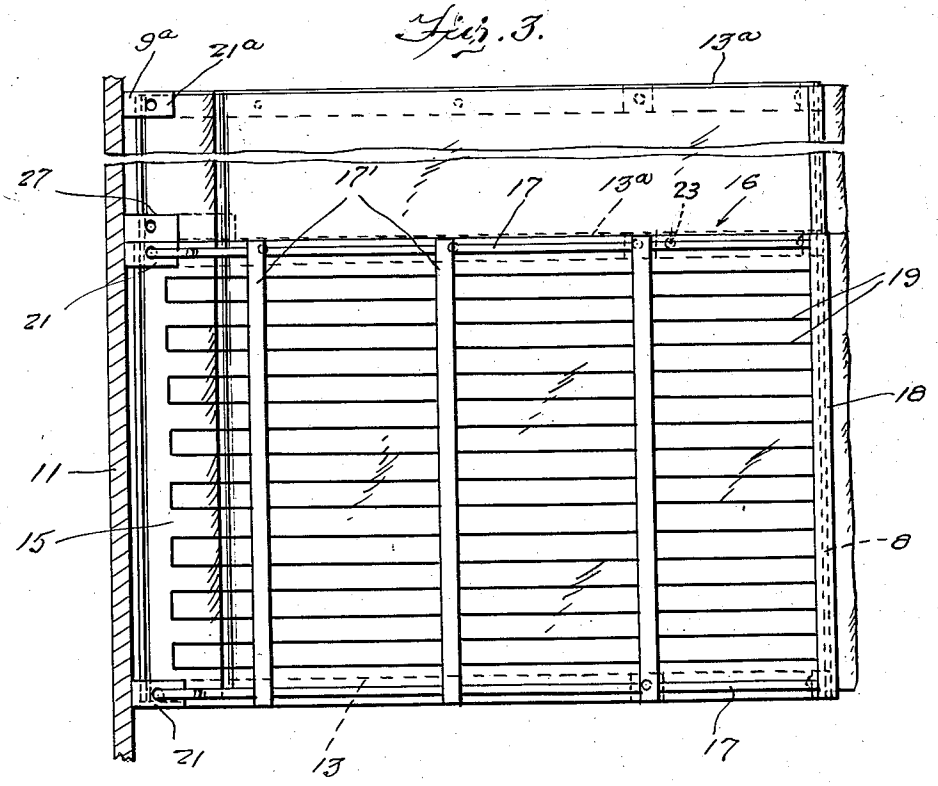
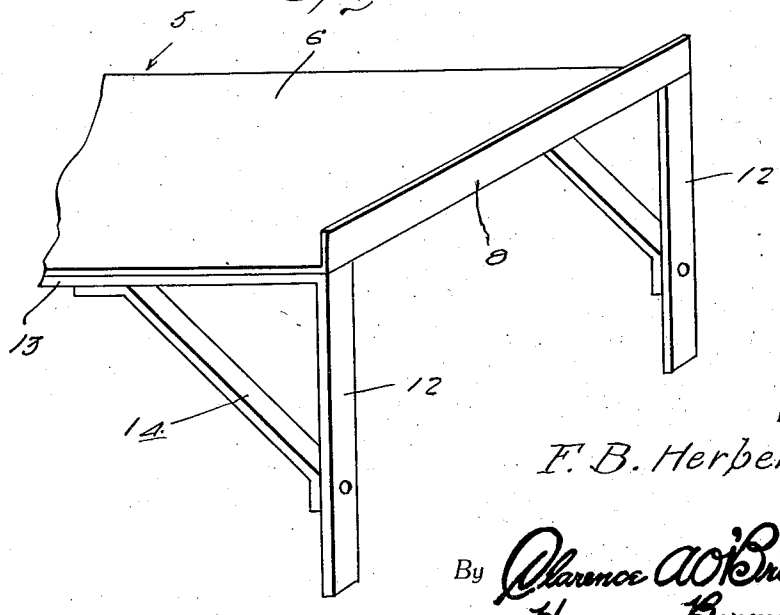


Fig. 4.



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DROPPING BOARD AND ROOST FOR POULTRY

Frank Brodie Herbert, Westwood, N. J.

Application March 25, 1937, Serial No. 133,060

5 Claims. (Cl. 119—22)

This invention relates to dropping boards and roosts for poultry and more particularly to the provision of means for collecting all droppings or excrement to the end that a sanitary and healthful condition may be maintained at substantially all times.

The invention together with its objects and advantages will be best understood from a study of the following description taken in connection with the accompanying drawings wherein:—

Figure 1 is a fragmentary sectional view through a henhouse showing my invention embodied therein.

Figure 2 is a vertical transverse sectional view taken substantially on the line 2—2 of Figure 1.

Figure 3 is a top plan view of the invention.

Figure 4 is a perspective view of one end portion of a main dropping board.

Figure 5 is a similar view of an auxiliary or extension dropping board.

Referring to the drawings by reference numerals it will be seen that in accordance with the present invention there are provided a main dropping board 5 and one or more auxiliary dropping boards 5a.

The board 5 is formed preferably entirely of metal and comprises the board proper 6 consisting of a single sheet of metal formed at one end to provide an integral roll accommodating trough 7 and at a relatively opposite end to provide a vertical upstanding foot plate or flange 8. Reinforcing bars 13 are connected to the under face of the board 6 at the edges thereof and one end of each bar is bent downwardly at right angles to form the leg 12 which is braced by the bar 14 which has one end connected with the leg 12 and its other end with a part of the horizontal portion of the bar 13. The opposite end of the bar 13 is bent into arcuate shape to fit around the trough 7 and is then carried upwardly to form a securing bracket 9 which is perforated to receive the fastener 10 which enters the wall 11 of the henhouse. The bracket has a horizontal part 21 extending partly over the trough and this part 21 has a perforation therein.

The trough 7 is adapted to accommodate a roll 15 of tar paper or the like. A portion of the roll of tar paper 15 is extended over the dropping board 6 and at its free end is draped over the flange 8.

For each dropping board there is provided a roost indicated generally by the reference numeral 16 and comprising a pair of side rods 17 that extend through openings provided therefor in a plurality of relatively spaced transverse rails 17' and a transverse end rail 18.

The bars 17' are provided with spaced openings to accommodate the parallel portions of a plurality of longitudinally extending and laterally spaced, substantially U-shaped wire rods 19 which have the sides or legs thereof at the open end of the U's suitably secured in the end rail 18. These rods form a screen for preventing the fowls from getting on the dropping boards and eating any material that may happen to be on such boards.

At the free end thereof the side rods 17 are formed to present integral hooks 20 that engage in the apertures provided in the lugs 21 on the upper ends of the brackets 9.

The end rail 18 is provided in the bottom edge thereof with a groove 22 that receives the flange 8 in a manner clearly shown in Figure 1 and to hold the free end of the sheet 15 draped over said flange 8.

Obviously, when it is desired to remove the extended portion of the sheet 8 so that a clean section of the roll 15 may be brought into position covering the dropping board 6 roost 16 is swung upwardly to a position substantially paralleling the wall 11 whereupon the used part of the sheet 15 may be folded upon itself with the droppings being thereby wrapped therein, and obviously incidental to the folding of this used portion of the sheet a new or unused section of the sheet may be paid out from the roll 15 to extend over the surface of the dropping board 6. When the used portion of the sheet 15 has been thus folded, it may be torn from the roll and the free end of the roll thus formed then draped over the flange 8 after which the roost 16 is lowered to a horizontal position with the groove 22 receiving the sheet draped flange 8 so that the extended section of the sheet 15 will be held in a smooth condition covering the surface of the dropping board 6. Thus it will be seen that the sheet of tar paper or the like will protect and serve to maintain clean the dropping board 6, and that as each section of the roll is used it may be quickly and easily removed to the end that the henhouse will be clean and healthful substantially at all times.

The number of auxiliary or extension dropping boards 5a used will of course depend upon the length of the henhouse. Each auxiliary or extension dropping board 5a is also formed of metal and comprises the dropping board proper 6a formed from a sheet of metal and provided at one end with an integral receiving trough 7a and at a relatively opposite end with an upstanding flange or foot board 8a. Also secured to the

board 6a at the under side thereof and adjacent one longitudinal edge only is a reinforcing bar or metallic strap 13a which at one end is formed to provide at the end 8a of the auxiliary or extension drop board a supporting leg 12a, while at its opposite end the strap 13a is formed with an arcuate portion to accommodate the trough 7a and also with an integral bracket portion 9a formed with an integral apertured lug 21a.

As shown in Figure 3 where a plurality of dropping boards are used, as for example where a main dropping board 5 and one extension or auxiliary dropping board 5a are used the free longitudinal edge of the board 6a is arranged in overlapping relation to the adjacent longitudinal edge of the main dropping board 5, and the lapped and overlapping edges of said boards are secured together by bolts or the like 23. Also for supporting the trough-equipped end 7a of the auxiliary or extension drop board in conjunction with the bracket 9a is a bracket 24 that is secured to the henhouse wall 11 through the medium of a fastening element such as a screw or the like 25, and the bracket 24 is disposed in abutting relation to the adjacent bracket 9 of the main dropping board 5 and is provided with an arcuate lower portion 26 to accommodate the trough end 7a of the auxiliary board and at its upper end is provided with an apertured integral lug 27 cooperating with the lug 21a for supporting one end of a roost 16 disposed for use in conjunction with the auxiliary dropping board.

It will be also understood, and as shown, that for each auxiliary dropping board there is also provided a roll 28 of tar paper which is used in conjunction with the auxiliary dropping board in the same manner in which the roll 15 of tar paper is used with the main dropping board 5.

It is thought that a clear understanding of the construction, utility and advantages of an invention of this character will be had without a more detailed description.

Having thus described the invention, what is claimed as new is:—

1. In combination, a drop board having a trough at one end, a roll of flexible material resting in said trough and to extend over the surface of said drop board as unrolled to provide a cover for the drop board surface, said drop board at the end thereof remote from said trough being provided with an upstanding flange over which the free end of the roll of flexible material is draped, and a roost hinged at one end and adapted to be raised and lowered at its forward end, said roost at said forward end being provided with a rail having a groove in the bottom edge thereof receiving said flange in a manner to secure the end of the extended portion of the flexible material draped over said flange.

2. In a henhouse, a plurality of drop boards including a main drop board and an auxiliary drop board, said auxiliary drop board having one longitudinal edge thereof arranged in overlapping relation to the adjacent longitudinal edge of the main drop board, each of said drop boards being provided at its rear end with a trough and at its forward end with an upstanding flange, a roll of tar paper arranged in the trough of each drop board and having a section thereof extended over the associated drop board to provide a sanitary and removable surface for said drop board, the extended end of said tar paper roll being draped over the flange of the associated drop board, and a roost normally overlying each drop board, said roost being hinged at its rear end to adapt it to be raised and lowered at its forward end, and also being provided at said forward end with a transverse end rail provided in the under edge thereof with a groove to receive the flange of the associated drop board for releasably retaining the draped end of said section of the tar paper roll over the aforementioned flange of the associated drop board.

3. In a henhouse, a plurality of drop boards including a main drop board and an auxiliary drop board, said auxiliary drop board having one longitudinal edge thereof arranged in overlapping relation to the adjacent longitudinal edge of the main drop board, each of said drop boards being provided at its rear end with a trough and at its forward end with an upstanding flange, a roll of tar paper arranged in the trough of each drop board and having a section thereof extended over the associated drop board to provide a sanitary and removable surface for said drop board, the extended end of said tar paper roll being draped over the flange of the associated drop board, a roost normally overlying each drop board, said roost being hinged at its rear end to adapt it to be raised and lowered at its forward end, and also being provided at said forward end with a transverse end rail provided in the under edge thereof with a groove to receive the flange of the associated drop board for releasably retaining the draped end of said section of the tar paper roll over the aforementioned flange of the associated drop board, and each of said drop boards being formed from a single sheet of metal.

4. In combination, a drop board provided at one end with a trough and also having at said end and extending upwardly above said trough a pair of attaching brackets having integral apertured lugs, said trough adapted to accommodate a roll of tar paper, a portion of which is extended over the drop board to provide a removable sanitary surface therefor, and a roost provided at one end thereof with hooks engaging in the apertured lugs of said brackets whereby said roost at said end is hingedly supported to adapt it to be raised and lowered at its free end, and said roost at said free end being provided with a rail adapted to rest on the adjacent end of said drop board.

5. A drop board having at its rear end an integral trough and upstanding brackets provided with apertured lugs, said drop board at its forward end being provided with an upstanding flange, and said trough adapted to accommodate a roll of tar paper a portion of which is extended over said drop board and has its free end edge draped over said flange, and a roost provided at one end with hooks engaging in said apertured lugs whereby at said end said roost is hinged to adapt it to be raised and lowered at its forward end, said roost at said forward end being provided with a rail having a groove in the under side thereof adapted to accommodate the flange of said drop board in a manner to retain the free end of the extended portion of said tar paper roll draped over said flange.

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