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S. S. BARKER

1,580,775

DOOR CONSTRUCTION FOR POULTRY COOPS

Original Filed Jan. 12, 1925

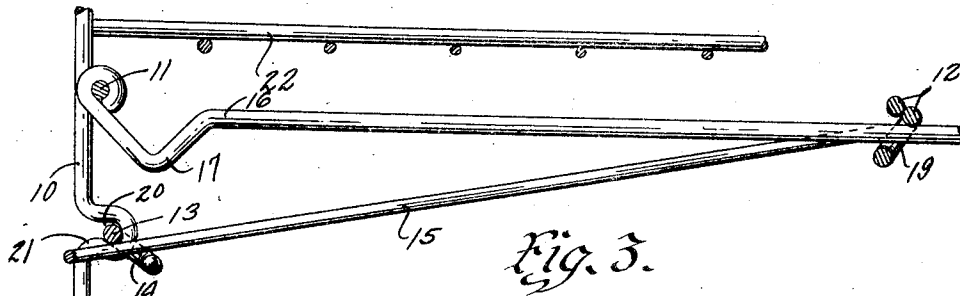


Fig. 3.

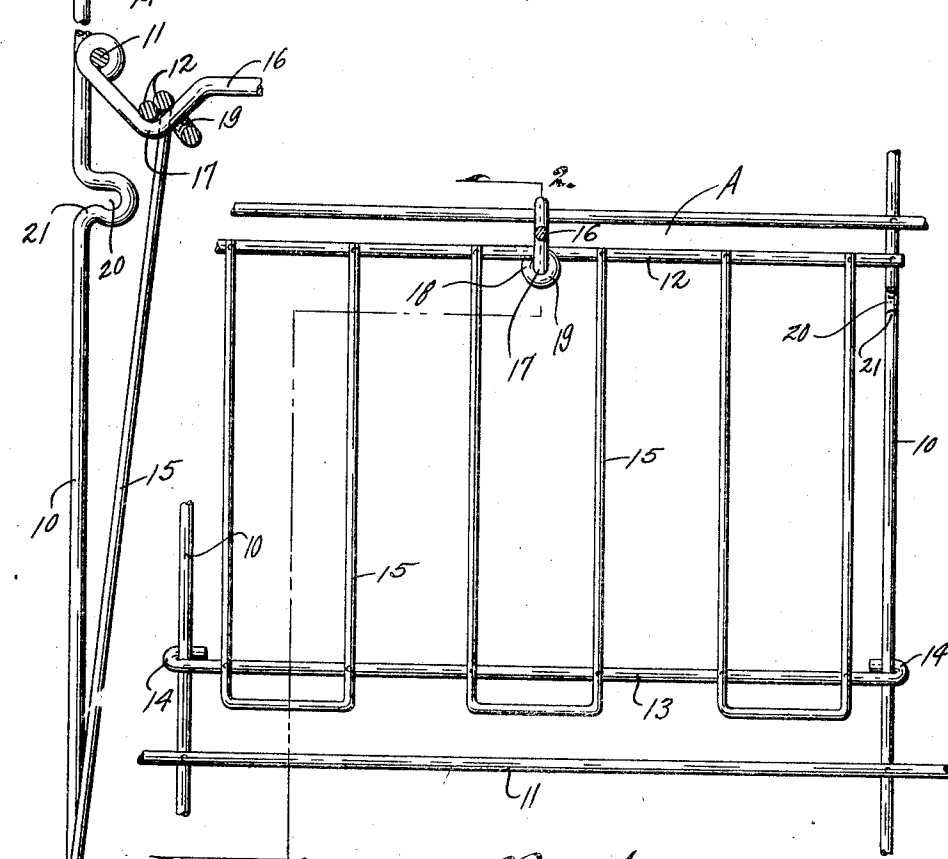


Fig. 1.

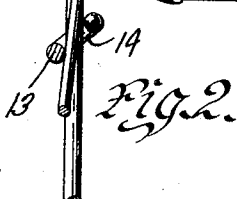


Fig. 2.

Witness
R. S. Rucker

Inventor
Seth S. Barker
by Cair & Freeman Attorneys

UNITED STATES PATENT OFFICE.

SETH S. BARKER, OF OTTUMWA, IOWA.

DOOR CONSTRUCTION FOR POULTRY COOPS.

Original application filed January 12, 1925, Serial No. 1,888. Divided and this application filed December 9, 1925. Serial No. 74,330.

To all whom it may concern

Be it known that I, SETH S. BARKER, a citizen of the United States, residing at Ottumwa, in the county of Wapello and State of Iowa, have invented a certain new and useful Door Construction for Poultry Coops, of which the following is a specification.

The object of my invention is to provide a door construction for poultry coops or the like, wherein the door may be slid inwardly within the coop proper, the parts being of simple, durable and comparatively inexpensive construction.

More particularly, it is my object to provide a door construction for poultry coops of the metal or wire type, wherein the door may be slid upwardly upon a pair of spaced wires, which serve as guides for the upward movement of the door, and to provide centrally disposed guides for the upper end of the door to slide upon when the door is being moved to open position.

Still a further object is to provide hook portions in the guide upon which the door slides, for receiving a portion of the door when it is in raised position for holding the same against accidental closing.

This application is a divisional one of my co-pending application, filed January 12, 1925, Serial No. 1,888.

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 front or plan view of my door construction, looking at it from the inner side.

Figure 2 is a sectional view taken on the line 2—2 of Figure 1, showing the door in closed position; and

Figure 3 is a similar view showing the door in raised or open position.

In the accompanying drawings, I have used the reference numeral 10 to indicate generally a pair of vertical spaced guides or wires, which form a part of the poultry coop or feeder, as the case may be.

Fixed to the vertical wire 10 are a pair of cross wires 11, which define the door opening A. The door for the opening A is formed by an upper cross wire 12 and a lower cross wire 13. The lower cross wire 13 has its ends bent so as to form open loops 14, which extend around and engage the vertical spaced ends or guides 10.

The upper and lower cross wires 12 and 13 are connected together by a number of wires 15, which are bent to form a substantial U, and then fastened to the wires 12 and 13 by spot welding or the like.

From the construction of the parts just described, it will be seen that the wires 12, 13 and 15 form a complete door section.

The open loops 14 are slidably mounted upon the wires 10.

Fastened to the upper wire 11 midway between the two wires 10 is a guide wire 16 having a V-shaped notch 17 therein near its forward end, that is, adjacent the wire 11, as clearly illustrated in Figures 2 and 3 of the drawings.

The upper wire 12 of the door, midway between its ends is formed with a coil 18, which forms a loop 19. The loop 19 receives the guide wire 16 and slides thereon.

The normal position of the door is such that the loop 19 engages the guide wire 16 at the notch 17. The notch 17 tends to hold or cause the door to remain in closed position.

When it is desired to open the door, it is necessary to engage the wire 13 or the door itself, and raise it slightly upwardly a short distance until the coil 18 clears the notch 17 and thereafter further upward movement of the door will cause the upper end thereof to move inwardly and the lower end to move upwardly.

Just below the upper cross wire 11 and within the guides 10, I form a pair of inwardly opening hooks or receiving pockets 20, which are designed to have the open loops 14 of the door received therein when the door itself is in open position.

The hooks or pockets 20 have a small hump 21 formed thereon so as to insure the door remaining in open position when the parts are moved to open position.

The inner end of the guide wire 16 may

be fastened to any cross wire 22, which may be either from the top of the poultry coop or a floor in the coop in case it is a coop of more than one section.

5 The particular type of coop that my door is adapted for is clearly shown in my co-
pending application, filed January 12, 1925,
Serial No. 1,888, and the door may be used
in connection with other poultry coops.

10 The advantage of this door construction
is that the door may be opened inwardly
and will thus not interfere with placing
poultry into the coop because the operator
may simply raise the door and by forcing
15 or pushing the poultry into the coop through
the door opening, the door itself will be
opened and thereafter the door will drop to
its closed position providing the open loops
14 do not engage the receiving pockets 20.

20 The receiving pockets 20 are effective when
it is desired to raise the door and leave it
in open position.

Another advantage of my door construc-
tion resides in the fact that no part thereof,
25 either when in opened or closed position,
projects out beyond the face of the coop
itself.

Some changes may be made in the con-
struction and arrangement of the various
30 parts of my invention, without departing
from the real spirit and purpose of my in-
vention, and it is my intention to cover by
my claims, any modified forms of structure
or use of mechanical equivalents, which may
35 be reasonably included within their scope.

I claim as my invention:

1. A door construction for poultry feed-
ers and the like comprising a frame defin-
ing a door opening, a door for said opening,
40 loops formed on the lower end of said door
engageable with the vertical portions of said
frame, a guide rod horizontally disposed
and in connection with the frame, means
of connection between the horizontal guide
45 rod and the upper end of the door, whereby
movement of the door to open position will
cause it to move upwardly and inwardly
with the loops sliding upon the vertical por-
tions of said frame and the upper end of
50 said door sliding inwardly upon said hori-
zontal rod.

2. A door construction for poultry feed-
ers and the like comprising a frame defin-
ing a door opening, a door for said opening,
55 loops formed on the lower end of said door
engageable with the vertical portions of
said frame, a guide rod horizontally disposed
and in connection with the frame, means
of connection between the horizontal guide
60 rod and the upper end of the door, whereby
movement of the door to open position will
cause it to move upwardly and inwardly
with the loops sliding upon the vertical por-
tions of said frame and the upper end of
65 said door sliding inwardly upon said hori-

zontal rod, and receiving pockets formed on
the vertical portions of said frame for re-
ceiving the lower end of said door when it
is in open position for maintaining the door
in open position. 70

3. A door construction for poultry feeders
and the like comprising a frame defining
a door opening, a door for said opening,
loops formed on the lower end of said door
engageable with the vertical portions of said 75
frame, a guide rod horizontally disposed
and in connection with the frame, said door
having a coil formed thereon defining an
opening for receiving said horizontal guide
rod, whereby movement of the door to open 80
position will cause it to move upwardly and
inwardly with the loops sliding upon the
vertical portions of said frame and the upper
end of said door sliding inwardly upon
said horizontal rod. 85

4. A door construction for poultry feeders
and the like comprising a frame defining a
door opening, a door for said opening, loops
formed on the lower end of said door en-
gageable with the vertical portions of said 90
frame, a guide rod horizontally disposed
and in connection with the frame, said guide
rod having a V-shaped notch formed therein
for receiving a portion of the door when
it is in closed position, means of connection 95
between the horizontal guide rod and the
upper end of the door, whereby movement
of the door to open position will cause it
to move upwardly and inwardly with the
loops sliding upon the vertical portions of 100
said frame and the upper end of said door
sliding inwardly upon said horizontal rod.

5. A door construction for poultry feed-
ers and the like comprising a frame defining
a door opening, a door for said opening,
105 loops formed on the lower end of said door
engageable with the vertical portions of
said frame, a guide rod horizontally dis-
posed and in connection with the frame,
said guide rod having a V-shaped notch
formed therein for receiving a portion of
the door when it is in closed position, means
of connection between the horizontal guide
rod and the upper end of the door, whereby
movement of the door to open position will 115
cause it to move upwardly and inwardly
with the loops sliding upon the vertical
portions of said frame and the upper end
of said door sliding inwardly upon said
horizontal rod, and receiving pockets formed 120
on the vertical portions of said frame for
receiving the lower end of said door when
it is in open position for maintaining the
door in open position.

6. A door construction for poultry feed- 125
ers and the like comprising a frame defining
a door opening, a door for said opening, said
door comprising a pair of horizontally dis-
posed wires and vertically disposed wires
connected together, loops formed on one 130

of said horizontal wires engageable with the frame defining the door opening and slidable thereon, a guide rod horizontally disposed and means of connection between
5 the upper horizontal wire of the door and said guide rods, whereby movement of the door to open position will cause it to move upwardly and inwardly with the loops on the lower horizontal wire of the door sliding upon said frame and the upper horizontal wire of the door sliding inwardly upon
10 said horizontal guide rod.

Des Moines, Iowa, November 10, 1925.

SETH S. BARKER.