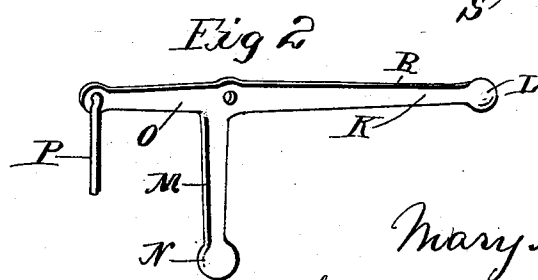
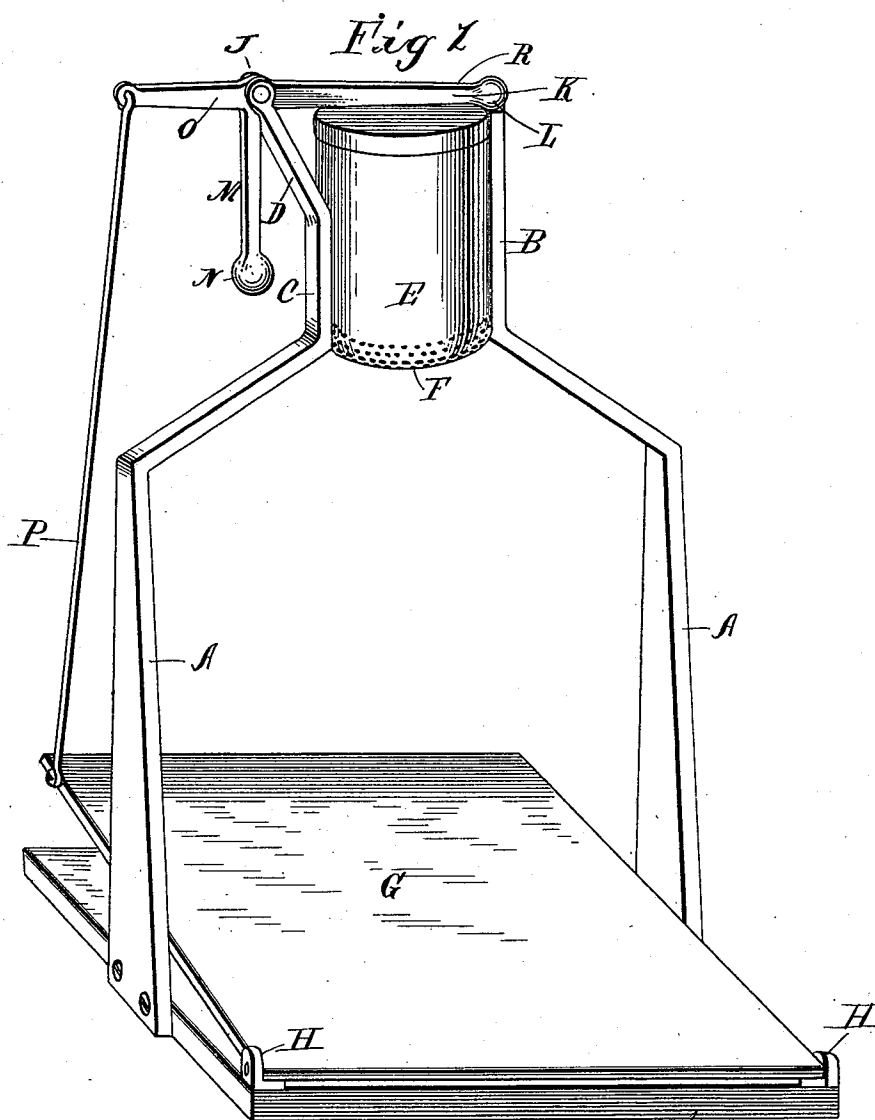


(No Model.)

M. A. HAWLEY.
DEVICE FOR APPLYING INSECTICIDES.

No. 507,615.

Patented Oct. 31, 1893.



Witnesses
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UNITED STATES PATENT OFFICE.

MARY A. HAWLEY, OF DIXON, ILLINOIS.

DEVICE FOR APPLYING INSECTICIDES.

SPECIFICATION forming part of Letters Patent No. 507,615, dated October 31, 1893.

Application filed April 15, 1893. Serial No. 470,523. (No model.)

To all whom it may concern:

Be it known that I, MARY A. HAWLEY, a citizen of the United States, residing at Dixon, in the county of Lee and State of Illinois, have
5 invented certain new and useful Improvements in Devices for Applying Insecticides; and I do 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
10 appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention has reference to improvements in devices for applying vermin destroying powder to fowls, and consists of means by which the fowls, in passing in and out of the hen-house, sprinkle such powder upon themselves.

20 The present application comprises improvements upon the construction for which I obtained United States Letters Patent No. 472,456, on April 5, 1892, by which the mechanism involved is simplified, and made more
25 effective and durable.

I accomplish the above purposes by the construction shown in the accompanying drawings, in which—

30 Figure 1 is a perspective of my invention. Fig. 2 is a detail of the concussive lever and some of its adjacent parts.

Similar letters refer to similar parts in each view.

35 A—A are standards, seated a certain distance apart on the base S, and drawn partially toward each other at their upper ends,—one of said standards having the vertical portion B, and the other of said standards the vertical portion C and the diagonally outward
40 projected end D. Between the vertical portions B and C, aforesaid, of the standards A, there is suitably seated, vertically, the insect powder containing vessel E, having its bottom provided with perforations F, suitably
45 distributed over such bottom.

G is a treadle board, either wooden or metallic, pivoted laterally at H to the base S between the standards A, and adapted to oscillate on such pivotal points in the line of the
50 opening between said standards.

R is a double bell-crank lever, pivoted at J on the upper extremity of the part D of one

of said standards A. Said lever consists of one long horizontal arm K, extended over the upper end of can E, and provided at its ex- 55 tremity with the concussing head L, the downwardly projecting arm M, provided at its extremity with the head N, hanging in its normal position about parallel with the adjacent side of the can E, and provided with the short 60 arm O, substantially in prolongation of the arm K.

P is a wire, or cord, attached at its lower end to the corner of the treadle G, and extended vertically, and attached at its upper 65 end to the extremity of the arm O of lever R.

The operation of my invention is as follows:—The device is placed directly within the opening of the hen-house, in such relation to said opening as that the fowls, in passing 70 in and out of the latter, are compelled to step upon and walk over the treadle G. The arms K and M are of such weight as to hold the side of the treadle G, to which the wire P is attached, normally elevated a suitable distance 75 above the earth, or floor, of the hen-house. The passage of the fowls over the treadle G has the effect of forcing such wire attached end downward, and thereby, through the medium of said wire, depress the arm O of the 80 lever R, and cause the end N of the arm M to strike the part C of the standard A, and as said part C is in contact with the can E, the concussion of such blow jars said can and causes a portion of the powder contained 85 therein to be sprinkled upon the fowl or fowls beneath—said can being suspended, as aforesaid, about centrally above the treadle G. The action last described has the effect of raising the arm K above said can, and as the 90 fowl steps from, and thereby releases the treadle G, the arms M and K conjointly incidentally raise said treadle, which causes the arm K to strike the top of the part B of one of the standards A, and thereby impart a sec- 95 ond concussion to said can, which will discharge another portion of said powder upon the fowl beneath, before the latter has passed beyond the reach of said falling particles. If preferred, the heads L and N may be arranged 100 to strike the side and top of the can E, respectively; but, to prevent possible damage to said can, I prefer to receive the blow on the standards A, as shown.

The advantage of my present invention is that each whole movement of the treadle G results in imparting two concussions to the can E, producing two successive discharges 5 from the latter, and thereby not only increases the quantity of discharge, but distributes the same over different portions of the body of the fowl beneath.

The parts may be made of wood, or metal, 10 or partly of each, as may be deemed most desirable; but, in either event, should be well coated, or painted, for the purposes of preservation.

What I claim as my invention, and desire 15 to secure by Letters Patent of the United States, is—

1. The combination of the vertical standard A, the powder containing can E supported in the upper end thereof, the lever R pivoted at 20 J to upper end of standard A provided with concussive arms K and M diverging from said pivotal point, and an actuating arm O, the treadle G pivotally seated at the lower por-

tion of said standard, and the rod, or wire, P connecting said treadle with said operating 25 arm O; substantially as shown, and for the purpose described.

2. The combination of a suitable vertical frame and treadle, seated in the lower portion thereof, and an insect powder containing 30 can seated in the upper end thereof, the lever R fulcrumed in the upper end of said frame, and provided with the concussive arms K and M adapted, in the oscillations of said lever, to alternately jar said can, and with the actu- 35 ating arm O, and means, substantially as shown, for connecting said last named arm and said treadle, whereby the vertical oscillations of the latter are communicated to said lever for the purpose described. 40

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

MARY A. HAWLEY.

Witnesses:

JAMES A. HAWLEY,
LAURA S. HAWLEY.