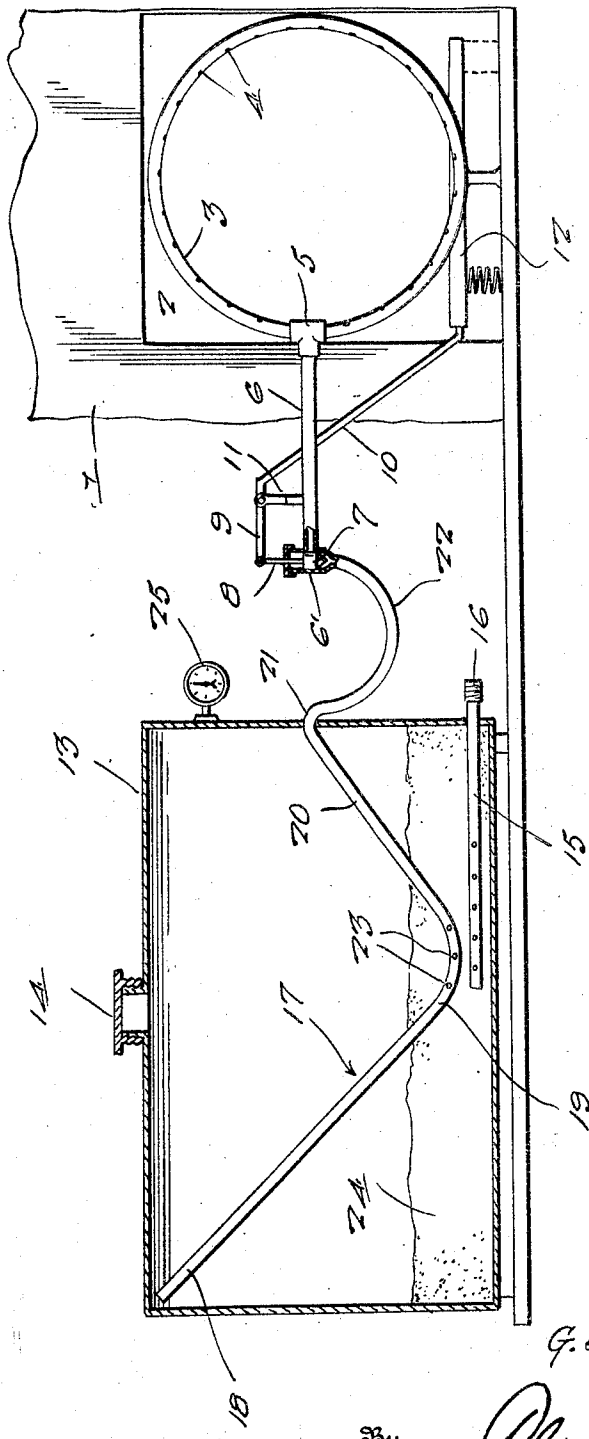
Oct. 13, 1925. 1,556,935

G. A. HIXSON

VERMIN EXTERMINATOR

Filed Feb. 20, 1925



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UNITED STATES PATENT OFFICE.

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VERMIN EXTERMINATOR.

Application filed February 20, 1925. Serial No. 10,553.

To all whom it may concern:

Be it known that I, GLENN A. HIXSON, a citizen of the United States, residing at Shawnee, in the county of Pottawatomie and State of Oklahoma, have invented certain new and useful Improvements in a Vermin Exterminator, of which the following is a specification.

This invention relates to an improved vermin exterminating device which is especially, but not necessarily designed for use in chicken coops or other forms of fowl houses.

The invention has more particular reference to a device which automatically and uniformly distributes the exterminating medium upon the fowls as they pass out of the coop through the exit opening, the operation of the device being under the control of the fowls themselves.

The features of a device of this class are clearly obvious and the structural details for permitting the desired result to be effectively accomplished, will become apparent from the following description and drawing.

In the accompanying drawing forming a part of this application and in which like numerals are employed to designate like parts throughout the same:

The single figure represents a view in section and elevation showing the complete apparatus for automatically applying the vermin exterminating medium.

Referring to the drawing in detail, it will be seen that the reference character 1 designates a fragment of a chicken coop or house provided with the customary exit opening 2. In the present instance a tubular ring 3 is located in and occupies a considerable portion of the opening 2. This ring is provided on its inner surface with a plurality of apertures 4, through which the exterminating powder, or other vermin killing means is ejected. This ring may be separately supported and it need not be permanently mounted in place because it is only desirable to apply the exterminator at certain periods of time. It will be noted that a T-coupling 5 is connected to the ring and a supply pipe 6 leads angularly from this, the pipe being connected at its opposite end to a valve casing 6′ in which a valve 7 is slidable to control the entrance of powder to the pipe 6.

It will be noted that the valve is provided with a stem 8 extending above the casing and the horizontal portion 9 of a link 10 is pivotally connected thereto, this portion being pivotally supported upon a bracket 11 carried by the pipe 6. The lower end of the operating link 10 is connected to a spring elevated platform or perch 12 also located in the exit opening and in leaving the coop the fowls are compelled to step on it, it being obvious that the weight will be sufficient to depress the same and open the valve 7.

Improved means is provided for supplying powder under pressure to the valve casing 6′. The means comprises a cylindrical compressed air tank 13 having a filler neck at its top closed by a removable cap 14. Extending into one end of the tank adjacent the bottom thereof is an apertured air supply pipe 15 having a threaded head 16 on its outer end. An air compresser or other air supply means is adapted to be connected with each head.

Located within the tank is a conducting pipe 17. The free end of this pipe indicated at 18 is located at the top of the air chamber within the tank. The intermediate portion thereof is disposed on a comparatively low level and is bent as at 19, being then extended upwardly at 30 and through the front end wall of the tank as at 21, after which it is bent to substantial U-formation at 22, and connected with the valve casing 6′. Bend 19 is formed with intake holes 23 through which the disinfecting powder 24 is sucked. If desired, an air pressure gauge 25 may be provided.

In operation, air under pressure is introduced into the tank through the apertured pipe 15 by any suitable means, and inasmuch as the bend 19 containing the apertures 23 is disposed below the level of the powder 24, it will be seen that the air under pressure will enter the upper end 18 of the conducting pipe 17. The air on rushing outwardly through this pipe will serve to suck in powder through the apertures 23 and the powder-laden air under pressure will pass on through the conducting pipe into and through the valve, supply pipe 6 and thence through the apertured ring 3.

The powder will be sprayed in jets through the opening 4 around the entire circumference of the ring to be uniformly

spread onto the body of the chickens as they pass therethrough. Obviously, as before stated, the valve is controlled by each fowl as it steps upon the depressible platform or perch 12, whereby to operate the control valve.

It is thought that the foregoing description taken in connection with the accompanying drawing will enable persons skilled in the art to which the invention relates to obtain a clear understanding of the same. For this reason a more lengthy description is thought unnecessary.

Although the preferred embodiment of the invention has been shown and described, it is to be understood that minor changes coming within the field of invention claimed may be resorted to if desired.

Having thus described my invention, what I claim as new is:—

1. A vermin exterminator embodying an insecticide containing tank, an apertured air supply pipe extending in said tank, a conducting pipe extending into said tank, said conducting pipe having its intake located adjacent one end and the top of said tank, the intermediate portion of the conducting pipe being bent downwardly and disposed in close relation to the bottom of the tank and formed with intake apertures, and a valved controlling device for said conducting pipe.

2. A vermin exterminator comprising a hollow ring-like distributor through which a fowl is adapted to pass, said ring being provided on its inner periphery with holes forming discharge ports, a supply pipe connected to one side of the ring, a valve casing, a valve located in said casing, a depressible perch located adjacent said ring, an operating link connected to said perch, being pivotally mounted between its ends on said supply pipe and being connected adjacent its pivoted end to said valve, an insecticide containing tank, a conducting pipe extending into said tank, said conducting pipe having its intake located adjacent one end and the top of said tank, the intermediate portion of the conducting pipe being disposed in close relation to the bottom of the tank and provided with intake apertures

In testimony whereof I affix my signature.

GLENN A. HIXSON.