Nov. 4, 1947. G. F. RUHL 2,430,303

COMB

Filed Dec. 6, 1945

FIG. 1.

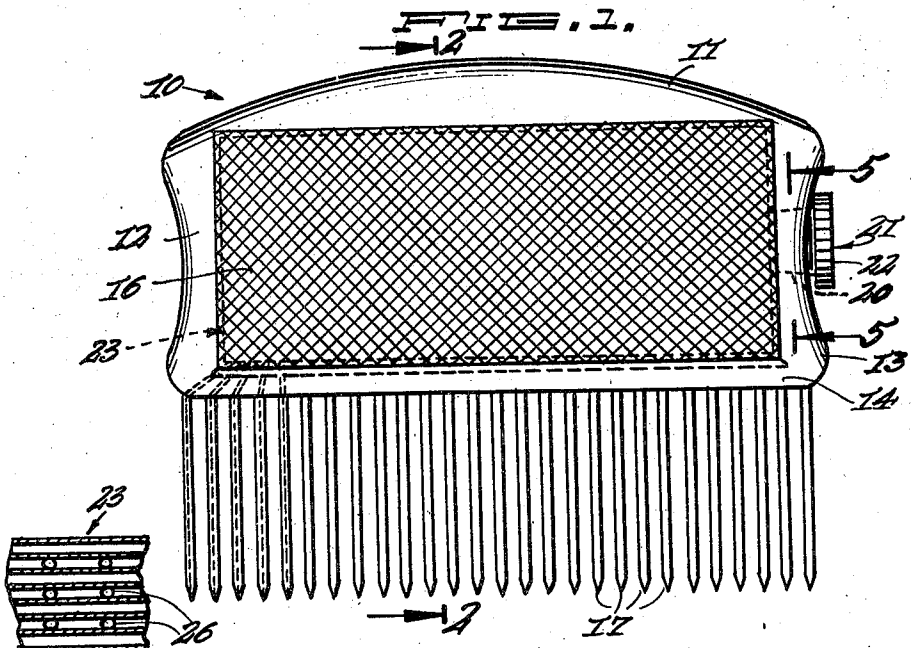


FIG. 6.

FIG. 2.

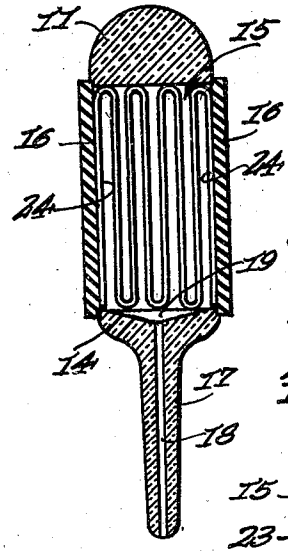


FIG. 3.

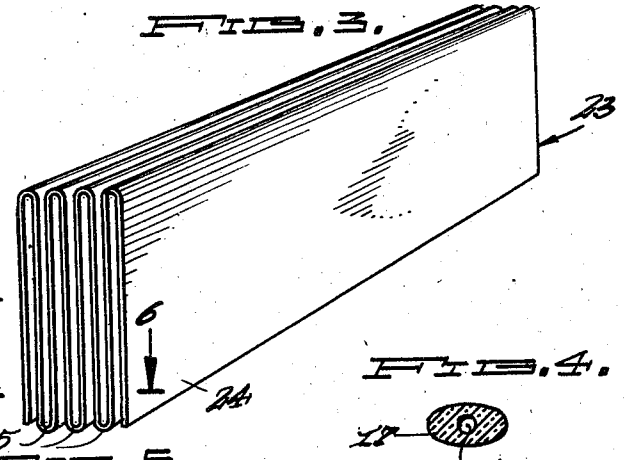


FIG. 5.

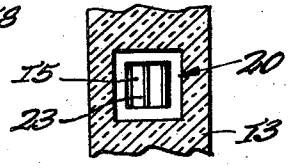


FIG. 4.

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COMB

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4 Claims. (Cl. 119—86)

1

This invention relates to combs, and more particularly to combs for use on animals, and aims to provide a practical and efficient comb capable of delivering an exterminating powder or other insecticide under the hair of the animal and to deposit it on the skin where the parasitic insects or vermin are found.

The above broad as well as additional and more specific objects will become apparent in the following description, wherein characters of reference refer to like-numbered parts in the accompanying drawing. It is to be understood that the drawing is intended for the purpose of illustration only, and that it is neither desired nor intended to limit the invention necessarily to the specific details of construction shown excepting insofar as they may be deemed essential to the invention.

Referring briefly to the drawings,

Fig. 1 is a side elevational view of the comb.

Fig. 2 is a cross-sectional view taken on the line 2—2 of Fig. 1.

Fig. 3 is a perspective view of the accordion-like agitator loosely mounted within the powder compartment of the comb.

Fig. 4 is a transverse sectional view through one of the prongs of the comb.

Fig. 5 is a cross-sectional view taken on the line 5—5 of Fig. 1, with the plug or stopper removed.

Fig. 6 is a fragmentary cross-sectional view taken on the line 6—6 of Fig. 3.

Referring in detail to the drawing, the numeral 10 indicates the body of the comb which comprises a unitary frame made of any suitable material, such as, for instance, wood or a so-called plastics composition. The frame includes the top section 11, the end sections 12 and 13, and the bottom section 14. The body 10 is of sufficient width, as shown in Fig. 2, to provide a compartment 15 enclosed by the frame, the two sides of the frame being open. These two sides, however, are closed by walls 16 of resilient material, such as, for instance, rubber, which are secured to the sides of the frame in any desired manner to close the said sides.

Loosely but compactly mounted within the compartment 15 is an accordion-like agitator for the purpose presently to be set forth. From the lower section 14 of the frame, a plurality of spaced prongs or teeth extend, either integrally, as shown, or they may be separately attached to the said section. Each prong 17 has an axial channel 18 therethrough. The floor 19 of the compartment 15, which is provided by the top of the lower frame section 14, is shaped trough-like, and

2

the upper ends of the channels 18 lead into the trough of the floor 19.

At one end of the frame 10, an inwardly-tapering opening, rectagular in cross-section, is provided at 20 through the end section 13. A plug 21 having a knurled rim 22 is adapted to register snugly in the opening 20 to serve as a removable closure.

The agitator 23 is formed by bending a single sheet of resilient material, such as, for instance, steel or aluminum, into the shape of an accordion, as shown, having the outside leg sections 24 positioned against the walls 16 and resting upon the uppermost side edges of the floor 19. The outer surfaces of the walls 16 may be roughened as indicated by the intersecting diagonal lines in Fig. 1.

An insecticide powder is introduced into the compartment 15 through the opening 20, whence the powder enters between the folds of the member 23. In order to prevent trapping of any of the powder between the lower connecting folds 25 of the member, a plurality of spaced holes or openings 26 is provided through those folds. In use, the comb is applied to an animal with the teeth brought through the fur into contact with the skin, and the side walls 16 are successively squeezed and released in an obvious manner. When the walls are squeezed together, the powder obviously seeks the outlets through the channels 18 down the teeth 17, whence it is forced out against the skin of the animal. The accordion-like agitator obviously serves to assist in the operation of preventing the powder from caking and in its distribution into the teeth.

Obviously, modifications in form and structure may be made without departing from the spirit and scope of the invention.

I claim:

1. A comb comprising a frame having an opening therethrough, said frame having flexible side walls covering the sides of said opening, comb teeth extending integrally from said frame and having channels therethrough communicating with said opening between said walls, an accordion-like agitator loosely mounted in said opening between said walls, said frame having a filler opening therethrough into said opening between said walls.

2. A comb comprising a unitary frame having a window-like opening passing therethrough, resilient walls secured to said frame on opposed sides thereof thereby closing said opening and providing a compartment within said frame between said walls, said frame having a filler open-

ing into said compartment and having spaced comb teeth extending from one edge thereof, said teeth having channels communicating with said compartment, and an agitator member loosely mounted in said compartment, said agitator comprising an accordion-like member with the folds thereof extending longitudinally in said compartment with the opposed side walls thereof positioned adjacent the said resilient walls.

3. A comb comprising a unitary frame having a window-like opening passing therethrough, resilient walls secured to said frame on opposite sides thereof thereby closing said opening and providing a compartment within said frame between said walls, said frame having a filler opening into said compartment and having spaced comb teeth extending from one edge thereof, said teeth having channels communicating with said compartment, and an agitator member loosely mounted in said compartment, said agitator comprising an accordion-like member with the folds thereof extending longitudinally in said compartment and with the opposed walls thereof being positioned adjacent said resilient walls, those of said folds occurring at the bottom of said member having vertical openings therethrough.

4. A comb comprising a unitary frame having a window-like opening passing therethrough, resilient walls secured to said frame on opposed sides thereof thereby closing said opening and providing a compartment within said frame between said walls, said frame having a filler opening into said compartment and having spaced comb teeth extending from one edge thereof, said teeth having channels communicating with said compartment, and an agitator member loosely mounted in said compartment, said agitator comprising an accordion-like member with the folds thereof extending longitudinally in said compartment, said compartment having a trough-shaped floor, the opposed walls of said agitator being positioned adjacent said resilient walls and resting upon the outer uppermost edges of said trough-shaped floor.

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The following references are of record in the file of this patent:

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