April 13, 1937. J. P. LEINDORF 2,076,734

ABRADANT TUBE FOR PERCHES

Filed Dec. 16, 1935

Fig. 1

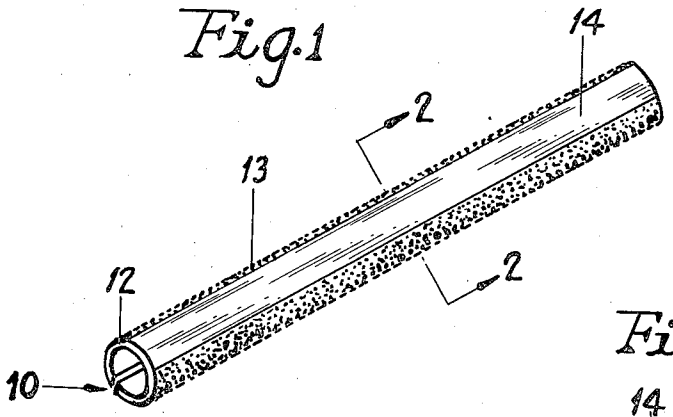


Fig. 2

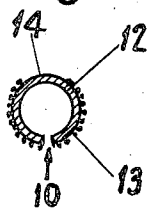


Fig. 7

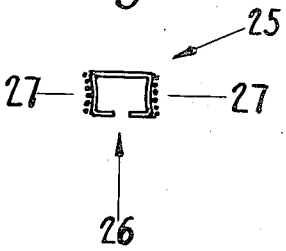


Fig. 3

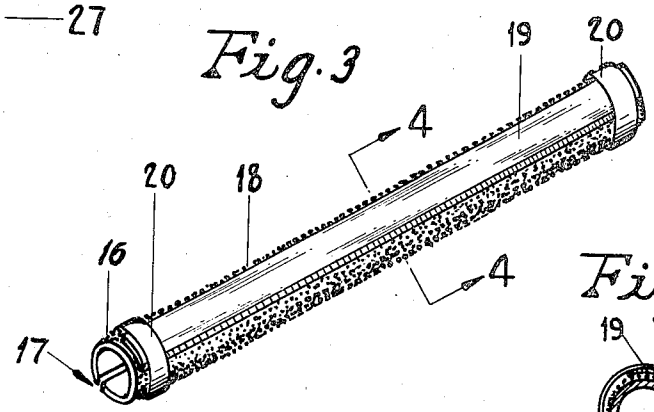


Fig. 4

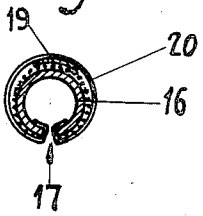


Fig. 6

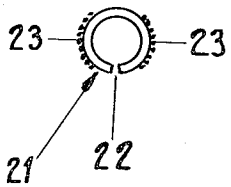


Fig. 5



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ABRADANT TUBE FOR PERCHES

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2 Claims. (Cl. 119—26)

This invention relates to a paper tube having an outer surface that is covered on two sides with an abradant, the said tubes being adapted to be mounted on canary cage perches.

An object of this invention is to slit the paper tube lengthwise so that it will be adapted to slip on and firmly grip perches of various sizes or design of cross-section, such as round, square or oblong, and to make the tube of paper having an element of resilience or springiness so that it may be opened to an increased diameter and still grip the perch.

Another object of this invention is to provide a modified tube which is slit lengthwise, is made of paper having an element of resilience, is covered with an abradant and has a curved strip of absorbent paper secured to the outer surface of said tube diametrically opposite the slit portion and concealing a portion of the said abradant.

Another object of this invention is to provide binding strips for securing each end of the strip of absorbent paper to the paper tube.

With the above and other objects in view, the invention will be hereinafter more particularly described and the combination and arrangement of parts will be shown in the accompanying drawing and pointed out in the claims which form part of this specification.

Reference will now be had to the drawing, wherein like numerals of reference designate corresponding parts throughout the several views, in which:

Figure 1 is a perspective view of the paper tube for canary cage perches having a portion of its outer surface covered with an abradant and having a longitudinal smooth and uncovered portion.

Figure 2 is a cross-sectional view, the section being taken as on line 2—2 in Figure 1.

Figure 3 is a perspective view of a modified paper tube for canary cage perches having its entire outer surface covered with an abradant and with a portion of the abradant surface concealed by a curved strip of paper which is not covered with an abradant.

Figure 4 is a cross-sectional view, the section being taken as on line 4—4 in Figure 3.

Figure 5 is an end view of the curved strip.

Figure 6 is an end view of a modified tube having only its sides covered with an abradant material.

Figure 7 is an end view of a modified paper tube having concave sides covered with abradant material.

In the illustrated embodiment of the invention, the numeral 12 indicates a perspective view of a tube for canary cage perches. The tube 12 is made of paper which naturally has absorbent properties. The tube 12 has an outer surface that is partly covered with an abradant 13, such as sand held together by a binding material such as glue.

The top part 14 of the paper tube 12 which is directly below the feet of the bird is smooth and without abradant material. Due to the absorbent character of paper of which the tube is made, it will function as a blotter and will absorb any pus from infected portions of the feet of the bird. The tube 12 is slit lengthwise, as shown by the numeral 10, so as to permit increasing or decreasing its diameter and so that it may be mounted on perches of various sizes.

In the embodiment shown in Figures 3 and 4, a paper tube 16 is shown, which is slit lengthwise at 17 so as to permit increasing or decreasing its diameter and so that it may be mounted on perches of various sizes. The outer surface of the tube 16 is covered with an abradant 18 such as sand held together by a binding material such as glue. Diametrically opposite the slit portion 17, I have placed a curved strip of absorbent paper board 19 lengthwise of the exterior surface of the tube 16. The strip 19 is co-extensive with the length of the paper tube 16. At each end of the tube 16, I have mounted a thin metal binding member 20 which circumscribes the tube 16 and the curved strip 19 and is bent at 17 so as to engage both side edges of the slitted portion of the tube. Each member 20 thus serves to fasten one end of the strip 19 on the tube 16. The strip 19 may thus be secured to the tube 16 as shown, or it may be glued thereto and conceal the upper portion of its abradant surface.

It is to be noted that the strip 19 forms a raised surface which functions similarly to an arch support used for ailing human feet.

It is also to be noted that the tube 16 is made of paper having an element of resilience or springiness so that it will close up when opened to an increased diameter, larger than its normal internal diameter.

Figure 6 shows an end view of a modified abradant tube for perches and comprises a tube 21 made of paper having an element of resilience and which is slit lengthwise at 22 so as to adapt it to frictionally grip a perch of larger diameter than its bore. The tube 21 has abrasive material glued to its outer surface but only at the sides 23. The lower portions on both sides of the slit 22 and the upper portion diametrically opposite the slit are without any abrasive material.

Figure 7 shows an end view of a modified abradant tube for perches and comprises a tube **25** made of paper having an element of resilience and which is split lengthwise at **26** so as to adapt it to frictionally grip a perch of larger outer cross-section than its interior cross-section.

The tube **25** has abrasive material glued to its outer surface but only at the concave sides **27**. The lower portions on both sides of the slit **26** and the upper portion are without any abrasive material.

In my practice with the tube disclosed in my patent application No. 34,363, filed August 2, 1935, now Patent No. 2,045,395, issued June 23, 1936, I have found that when the tube is covered with sand at its upper surface that, when the canary hops down to the bottom of the cage, it dirties its feet with its own excrement. It then hops back to the sanded tube and deposits the excreta on top of the gravel on the tube. The wet excreta soften the glue and loosen the gravel from the tube.

This loose and dirty gravel then adheres and becomes imbedded in the crevices in the tarsus of the canary's feet and tends to cause infection of the feet. I have accordingly found it necessary to improve the tubes by omitting gravel from its top surface, as shown.

The healthy bird has the comfort of a sandless top paper surface that will provide a smooth and warm cushion-like effect.

I claim:

1. An abradant tube for canary cage perches, comprising an elongated paper tube slit lengthwise, said tube being resilient and being adapted to frictionally grip a perch of larger diameter than its bore, said tube having abrasive material glued to the two sides of its outer surface.

2. An abradant tube for canary cage perches, comprising an elongated paper tube slit lengthwise, said tube being resilient and being adapted to frictionally grip a perch of larger diameter than its bore, said tube having abrasive material glued to its outer surface and having means for covering a portion of said abrasive.

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