C. A. HEALEY.

CARD FOR ANIMALS.

APPLICATION FILED JUNE 8, 1917. RENEWED JUNE 17, 1918.

1,290,554. Patented Jan. 7, 1919.

Fig. 1.

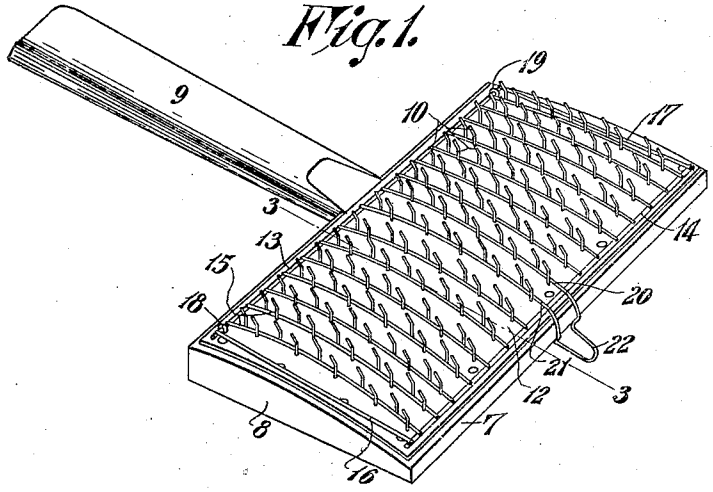


Fig. 2.

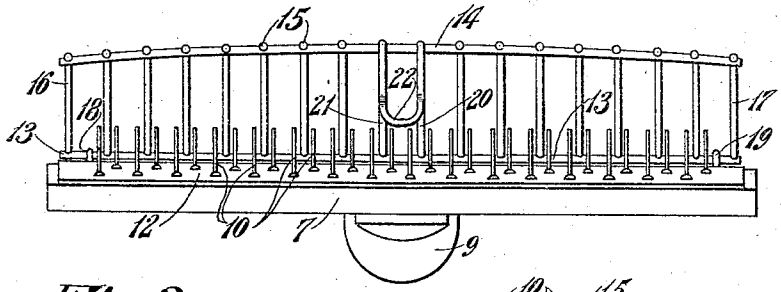


Fig. 3.

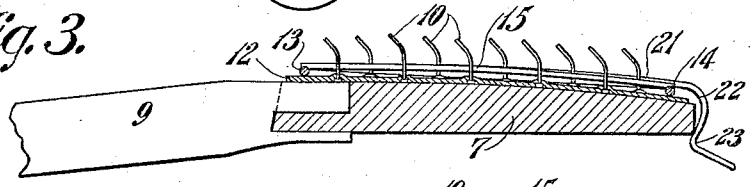
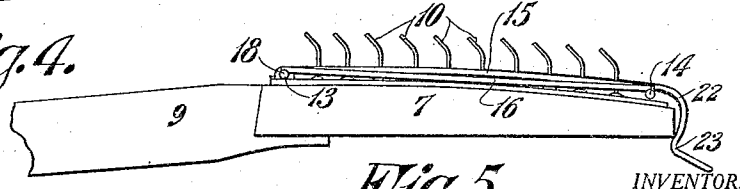


Fig. 4.



WITNESS:
B. A. Seaver

Fig. 6.

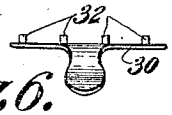
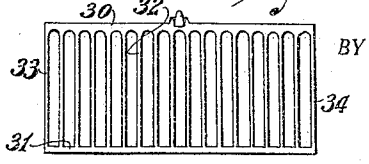


Fig. 5.



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UNITED STATES PATENT OFFICE.

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CARD FOR ANIMALS.

1,290,554. Specification of Letters Patent. Patented Jan. 7, 1919.

Application filed June 8, 1917, Serial No. 173,616. Renewed June 17, 1918. Serial No. 240,525.

To all whom it may concern:

Be it known that I, CLINTON A. HEALEY, a citizen of the United States of America, and resident of Westfield, in the county of Hampden and State of Massachusetts, have invented certain new and useful Improvements in Cards for Animals, of which the following is a full, clear, and exact description.

This invention relates to improved means for permitting cards, or currycombs for animals and the like, to be cleaned of dirt, accumulated material, etc., and has for its object to provide a frame member that will serve to normally lie in intimate engagement with the face of the tooth member and not interfere with its normal uses, but which can be readily released to swing back and thereby remove the objectionable material; and which device can be easily and economically constructed and attached for use, and which will be reliable and durable in its employment.

In the accompanying drawings showing embodiments of my invention,

Figure 1 is a perspective view of the card;

Fig. 2 is a front elevation with the frame slightly raised;

Fig. 3 is a cross section on the line 3—3, Fig. 1;

Fig. 4 is a side elevation, and

Fig. 5 shows another form of frame;

Fig. 6 shows the spring plate for the latter.

As set forth, the card or currycomb 7 is of the usual form comprising a body 8 and a handle 9, the body being provided with the usual arrangement of teeth 10.

These may be secured by means of a sheet 12 of fiber or other suitable material through which the teeth are passed so that their heads engage the lower face, and the sheet is secured to the face of the card by nails at the margins.

This attached face of the body is preferably slightly curved, of a cylindrical form as shown, being curved from the front edge back to the handle edge, while in the transverse direction the lines are straight as shown.

The frame shown in Figs. 1–4 comprises a rear bar 13 that is straight and a front bar 14 that is shown as slightly arched when the frame is raised, as in Fig. 2.

These bars are connected by cross bars 15 that are slightly arched, extending upward from front to rear as shown in Fig. 1; but the side bars 16 and 17 are preferably practically straight, and it will be noticed that these engage the marginal side portion of the attaching sheet 12, that lies against the face of the body, being secured by the nails, while the intermediate portions of the sheet are slightly elevated by reason of the heads of the teeth holding the sheet offset.

The rear portion 13 is suitably hinged to the body as by staples 18 and 19 so that this forms an axis by which the frame can be swung upward.

At the front a suitable fastener is provided, as by having the cross rods 20 and 21 extended to form a loop 22.

This is bent to a somewhat hook shape at 23, and so formed that by pulling down on this loop the bend will pass around the lower edge of the body and hold the frame against the body; but in such operation the frame will first engage the body at the ends of the front arched bar 14, and this will bend downwardly by reason of its resilient structure, being formed of spring wire, until this bar becomes practically straight, and then the hook 23 will engage the body to secure the frame in closed engagement with the card.

In my preferred construction I have the cross bars secured to the front and rear bars by electric welding, such as the well known practice of spot welding, whereby a strong unitary structure is produced.

In Fig. 5 I show a frame that is stamped out of sheet metal comprising a front bar 30 that is arched like the bar 14, while the rear bar 31 is straight; and these bars or portions are connected by the cross bars 32 that are arched and by end bars 33 and 34 that are substantially straight.

At one end is an extension plate 35 that is given a bend similar to the hook 23.

It will be understood that this form of frame is hinged to the card in the same manner, and its operation is identical with that set forth.

I claim:—

1. The combination with the tooth body of a card having a substantially convex curved shape, of a cleaner frame formed of a rear cross bar of straight form hinged to the frame, a front cross bar that is slightly arched and convex relatively to the card in

the raised position of the frame, and cross bars secured at their ends to said end bars and arched substantially similar to the curved face of the card, and a spring hook on the front bar arranged to lock the frame to the face of the card with the said arched front bar bent down against the card.

2. The combination with the tooth body of a card having a substantially convex curved shape, of a cleaner frame formed of a rear cross bar of straight form hinged to the frame, a front cross bar that is slightly arched and convex relatively to the card in the raised position of the frame, and cross bars secured at their ends to said end bars and arched substantially similar to the curved face of the card, and a spring hook on the front bar arranged to lock the frame to the face of the card with the said arched front bar bent down against the card, the said cross bars at each side having a substantially straight formation.

Signed by me at Springfield, Mass., in presence of a subscribing witness.

CLINTON A. HEALEY.

Witness:
G. R. DRISCOLL.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."