March 3, 1942. W. A. THOMAS 2,275,022

HAIR RECEPTACLE

Filed Sept. 13, 1940

Fig. 1.

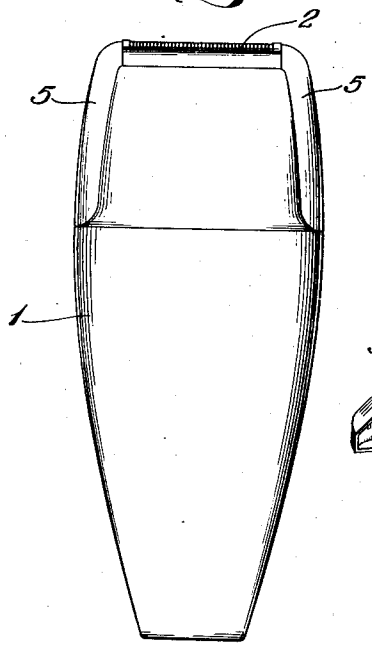


Fig. 2.

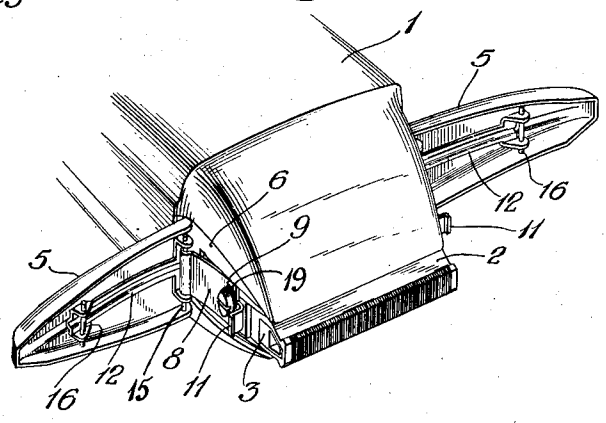


Fig. 3.

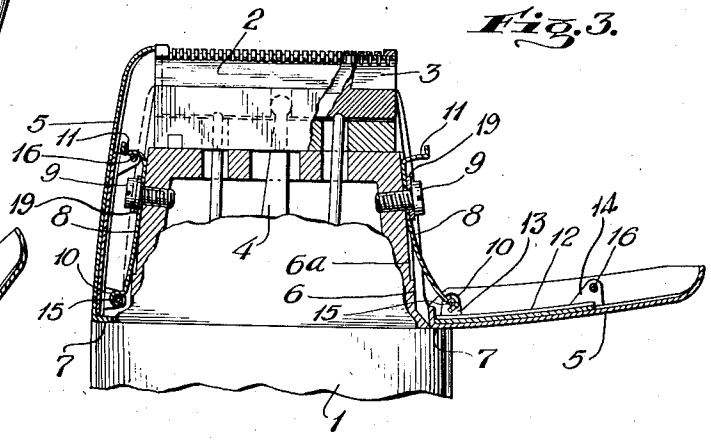


Fig. 4.

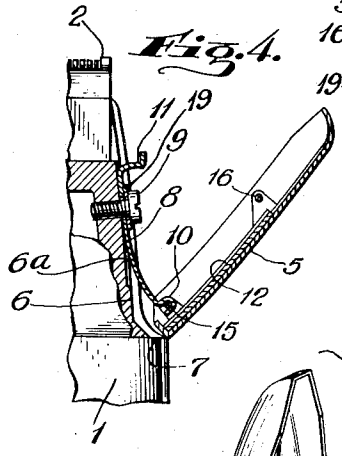
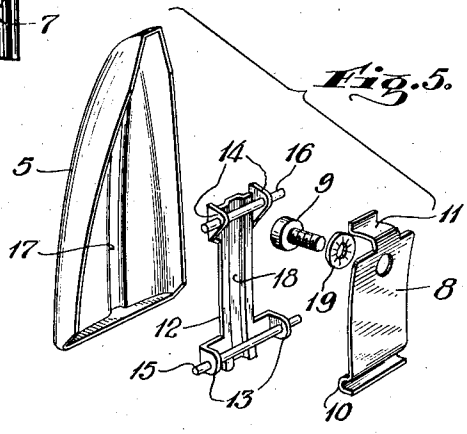


Fig. 5.



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HAIR RECEPTACLE

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7 Claims. (Cl. 30—41)

The invention is concerned with the provision of suitable receptacles to catch and retain, for disposal as convenient, the hair clippings which otherwise fall upon the clothing and elsewhere during the use of hair-cutting appliances, such as electric shavers, the principal object being to provide receptacles which can be incorporated as an integral part of the appliance, rather than as an attachment, as heretofore proposed, which are of sturdy construction, and of special advantage from the standpoint of economy of manufacture and ease of assembly, while effectively guarding against the escape of the cut hair.

One preferred form of the invention achieving these objects and embodying various features, hereinafter described in detail, is illustrated in the accompanying drawing, of which:

Fig. 1 is an elevation of an electric shaver having the improved hair receptacles applied to it;

Fig. 2 is an enlarged perspective view of the head of the shaver showing the receptacles in open position;

Figs. 3 and 4 are enlarged part-sectional views showing the details of construction; and

Fig. 5 is a perspective view of one of the receptacles and the several attachment parts.

The shaver illustrated comprises a molded handle or casing 1 on which is mounted a well-known form of open-ended shaver or cutter head consisting of an outer cutter 2 and an inner cutter 3, the latter being reciprocated by an actuating lever 4 driven by a motor (not shown) mounted within the casing.

In order to catch and collect the hair clippings which would otherwise fall or be ejected from the open ends of the head, I provide a pair of hair receptacles 5 of trough-like form shaped to fit the sides of the shaver adjacent the head, the open sides of the receptacles at their upper ends overlying and forming closures for the open ends of the head and the lower parts of the receptacles overlying the casing.

The casing is preferably molded with recesses adjacent the head to provide walls 6 substantially flush with the open ends of the head and shoulders 7 at the lower ends of the recesses, the receptacles being shaped and dimensioned to fit the recesses and, when in their closed position, to receive and retain against escape all of the clippings passing out of the ends of the cutters.

The receptacles are formed of thin sheet metal and are arranged to be mounted on the shaver by means of two simple, cooperating attachment members secured respectively to the casing and to the receptacles and wholly within the latter,—thereby avoiding external projections likely to scratch or catch in the shaver wrappings and protecting the attachment parts against derangement—and so arranged as to permit the receptacles to be readily opened for emptying. Hinge mounting of the receptacles is preferred.

The attachment member which is shown as secured to the casing comprises a strip of spring metal 8 of considerably less width than that of the interior of the receptacle and slightly bowed throughout the greater part of its length (Fig. 5) so that when attached to the casing wall, as by screw 9, it is somewhat tensioned in a direction to hold it snugly against the face or wall of the recess. As indicated, the wall 6 may be molded with a central depression 6a to provide a seat for the spring, the sides of the depression holding the spring against turning about the axis of its single attachment screw. The lower end of the spring is bent to form an open hinge loop 10, the open side of the loop facing the casing. The upper end of member 8 may be bent outwards, as indicated at 11, to form a latch.

The cooperating attachment member shown is a sheet metal bracket 12 having bent up pairs of spaced ears 13 and 14 at its lower and upper ends, respectively, to receive a hinge pin 15 and a latch pin 16, the bracket and pins comprising a unit adapted to be soldered or otherwise attached to the inside face of the hair receptacle. The pins terminate short of the side walls but are of such length that they cannot be displaced from their supporting ears after the bracket unit has been affixed to the receptacle. The bracket can be located lengthwise of the receptacle by the engagement of its lower end with the inside of the lower wall of the receptacle and can be located widthwise of the receptacle by recessing the latter, as indicated at 17, and forming a corresponding channel 18 in the bracket to seat in the recess. As will be understood, the vertical spacing of the pins 15 and 16 corresponds to that between the hinge loop 10 and latch 11.

The construction illustrated will be recognized as extremely cheap to manufacture and also to provide for ready assembly. In the latter connection it will be seen that the spring members 8 may be first attached to the casing, by spring washer 19 and screw 9, and that the completed receptacle units may be applied thereto by prying the lower ends of the springs outwardly and slipping the hinge pins into position behind and into the loops 10. The assembled position of the parts, with one receptacle closed, is illustrated on

the left-hand side of Fig. 3, the latch pin 15, as shown, being snapped beneath latch 11 to hold the upper end of the receptacle in the position indicated, the lower end of the receptacle being held tight to the casing by the spring hinge loop.

To open the receptacles for emptying, it is merely necessary to grasp the sides adjacent the upper end and swing the receptacles outwardly and downwardly about their hinges. As will be noticed, the springs 8 provide floating mountings for the hinge pins and lower ends of the receptacles so that when the lower corners of the latter bear on the shoulders of the casing recesses they serve to cam the hinge pins and receptacles bodily outwardly somewhat (Fig. 4) until the receptacles snap into their fully open position, as illustrated on the right-hand side of Fig. 3. The receptacles are similarly snapped back into their closed position.

As will be apparent, the invention is capable of embodiment in various forms within the scope of the following claims.

I claim:

1. In a hair cutting appliance having a casing and an open-ended cutter head supported thereon, a spring strip attached to the casing below the head and having its lower end bent to form a hinge loop, a trough-like hair receptacle having an open side, the edges of the upper part of the receptacle fitting an open end of the cutter head and the edges of the lower part fitting the casing and wholly enclosing said strip, a hinge pin secured to the inside of the receptacle and wholly within the same and engaging said hinge loop, and a latch formed at the upper end of said strip engageable with the receptacle when the latter is in its closed position.

2. In a hair cutting appliance having a casing and an open-ended cutter head supported thereon, a member attached to the casing below the head and having its lower end bent to form a spring hinge loop, a trough-like hair receptacle having an open side, the edges of the upper part of the receptacle fitting an open end of the cutter head and the edges of the lower part fitting the casing and wholly enclosing said member, and a hinge pin secured to the inside of the receptacle and wholly within the same and engaging said hinge loop.

3. In a hair cutting appliance having a casing and an open-ended cutter head supported thereon, said casing having a recessed portion adjacent the head providing a wall substantially flush with an open end of the cutter head at the upper end of the recess and a shoulder at the lower end of the recess, a trough-like hair receptacle occupying said recess and, at the upper end of the receptacle, forming a closure for an open end of the cutter head, and cooperating attachment members secured to the said recess wall and to the receptacle, respectively, wholly within the latter.

4. In a hair cutting appliance having a casing and an open-ended cutter head supported thereon, a trough-like hair receptacle having an open side overlying an open end of the cutter head to receive the cut hair therefrom and also overlying a part of the casing, an attachment member secured to the inner face of the receptacle and wholly within the same, a cooperating attachment member secured to the casing and also wholly within the receptacle, one of said members incorporating a spring to maintain the receptacle in its closed position.

5. In a hair cutting appliance having a casing and an open-ended cutter head supported thereon, said casing having a recessed portion adjacent the head providing a wall substantially flush with an open end of the cutter head at the upper end of the recess and a shoulder at the lower end of the recess, a trough-like hair receptacle occupying said recess and, at the upper end of the receptacle, forming a closure for an open end of the cutter head, a spring strip attached to the casing within said recessed portion and having its lower end bent to form a hinge loop, and a hinge pin secured to the inside of the receptacle and engaging said hinge loop.

6. In a hair cutting appliance having a casing and an open-ended cutter head supported thereon, said casing having a recessed portion adjacent the head providing a wall substantially flush with an open end of the cutter head at the upper end of the recess and a shoulder at the lower end of the recess, a trough-like hair receptacle occupying said recess and, at the upper end of the receptacle, forming a closure for an open end of the cutter head, a spring strip attached to the casing within said recessed portion and having a hinge part at its lower end, below the point of attachment of the strip to the casing, and a cooperating hinge part secured to the inside of the receptacle, the lower end of the receptacle being adapted to bear upon and to be held in engagement with the said shoulder as the receptacle is opened and closed.

7. A hair cutting appliance of the kind including a casing and an open-ended cutter supported thereon and provided with a trough-like hair receptacle having its upper part overlying the open end of the cutter and its lower part overlying a solid wall portion of the casing, characterized by the provision of a shoulder at the base of said wall portion projecting beneath and constituting a stop to prevent downward movement of the lower end of said receptacle, cooperating hinge parts secured respectively to the said wall portion and to the receptacle, wholly within the latter, and one of said parts incorporating a spring adapted to yield outwardly to permit the lower end of the receptacle to swing about said shoulder as the receptacle is opened.

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