

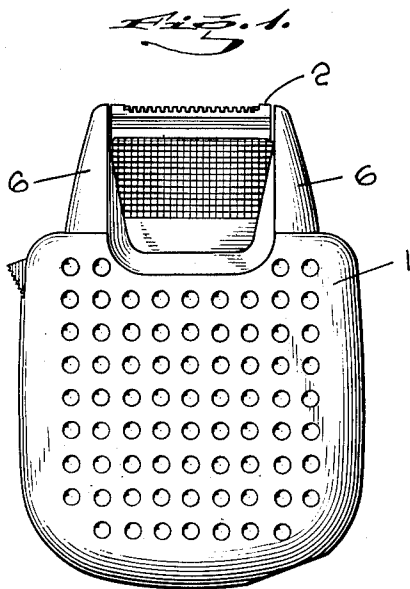
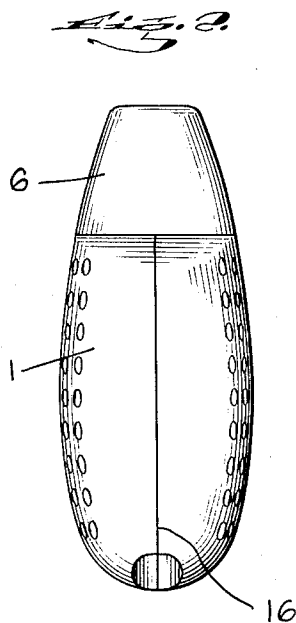
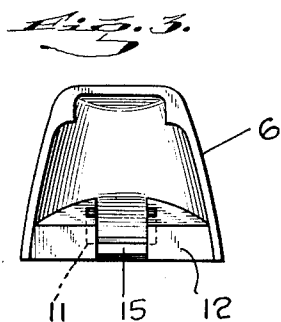
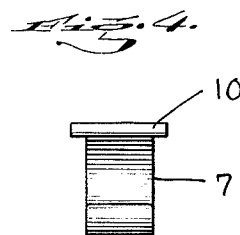
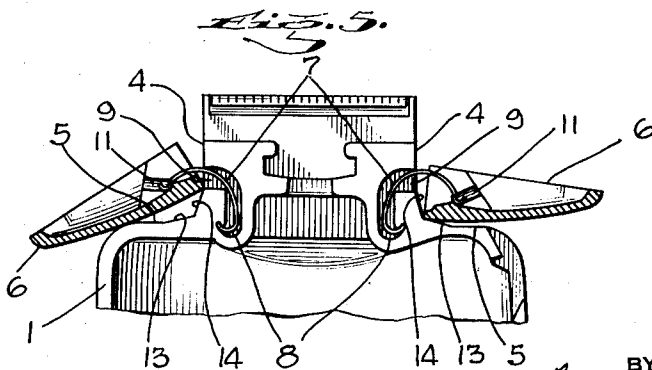
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BEARD CLIPPINGS RECEPTACLE FOR ELECTRIC SHAVERS

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BEARD CLIPPINGS RECEPTACLE FOR
ELECTRIC SHAVERS

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6 Claims. (Cl. 30—41)

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This invention is in the nature of an improvement in beard clippings receptacles of the general type disclosed in Patent No. 2,275,022, dated March 3, 1942, and has for its object the provision of such a receptacle in such form that it may be readily molded and so organized as to facilitate opening and closing and also cleaning.

The invention will be readily understood from the following description of the accompanying drawings, in which:

Fig. 1 is a front elevation of an electric shaver incorporating a preferred form of the invention;

Fig. 2 is a side elevation of the same;

Fig. 3 is an enlarged scale elevation of the inner side of one of the receptacles;

Fig. 4 is an enlarged elevation of one of the receptacle springs; and

Fig. 5 is a broken-out elevation, also enlarged, of the upper part of one of the case halves showing the receptacles, in section, in different positions of opening.

In the particular electric shaver illustrated, the plastic molded case 1 carries a shearing head 2 which may be of the well-known type incorporating one or more outer cutters open at opposite ends and having inner cutters adapted to be reciprocated by a motor mounted within the case.

Adjacent and below the opposite ends of the shearing head the case is formed with angularly disposed walls forming recesses to receive beard clippings receptacles. For convenience, each case recess will be referred to as defined by a side wall 4 and a bottom wall 5. The receptacles and cooperating case recesses and components being identical at the two ends of the shearing head, the same reference characters will be used for both.

The receptacles, generally designated 6, are more or less trough-shaped or cupped on the inner side, that is, adjacent the shaver case and overlie the open ends of the shearing head to receive the beard clippings. At least around their periphery, the receptacles abut the side and bottom walls of the case recess to more or less close the receptacles against the escape of beard clippings.

The receptacles are spring-hinged to permit ready opening and preferably by means of ribbon-type or so-called C-springs 7 the ends of which are anchored, respectively, to the case and to the receptacles. In the form illustrated, the inner ends of the springs are located in channels 8 formed in the shaver case and extend outwardly through case openings 9 below

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the shearing head. The outer ends of the springs have formed up pintle portions 10 (Fig. 4) adapted to be located in slots 11 which are open at their upper ends and extend downwardly into the thickened lower portions 12 (Fig. 3) of the receptacles. As will be understood, this type of spring mounting holds the receptacles closed (as in Fig. 1) when in position to abut the bottom and side walls of the case recesses and permits them to be swung outwardly from the upper ends for emptying and to give access to the open ends of the shearing head for cleaning the latter.

The beard clippings, especially if allowed to accumulate, tend to pack and the dust-like small particles penetrate and adhere in quite small crevices; and, accordingly, it is desirable to provide for opening the receptacles wide and in such fashion as to facilitate cleaning not only inside but around them.

To that end, the bottom wall of each case recess is provided with a small ramp 13 which slopes upwardly toward the vertical wall of the case recess. Preferably, as shown, there is provided a second ramp 14 formed on the side wall of the case recess as an extension of the first ramp and sloping inwardly toward the side wall of the case recess. As indicated, the lower part of each receptacle, or its inner side, is recessed, as at 15 (Fig. 3) to accommodate the ramp when the receptacles are in their closed position.

When one of the receptacles is swung downwardly to open it, it comes to a first position of rest as indicated at the right in Fig. 5, the bottom outer edge of the receptacle having ridden up the first ramp and come to rest at the line of junction of the two ramps. Further downward pressure applied to the outer end of such receptacle moves it to a second position of rest as indicated at the left in Fig. 5, in which the bottom outer edge of the receptacle has reached the upper end of the second ramp.

It has been found that, so organized, the receptacles open freely and smoothly and that by the motions thus imparted to and the positions assumed by them, a thorough cleaning of the beard clipping accumulations both in and around the receptacles can be more readily performed and, in consequence, the receptacles maintained in good working order. As will be recognized, the receptacles are readily adapted for molding, as also is the case, with its receptacle recesses and ramps. In the present instance, the case may be assumed to consist of two identical halves mating along the line 16 (Fig. 2), the case re-

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cesses and ramps being formed one half on each case half. In other words, each case half is a replica of the one shown in Fig. 5.

It will be understood that the details of construction of the above preferred form are subject to modification within the scope of the following claims.

We claim:

1. The combination with a shaver case, a shearing head supported on the case at one end thereof and the case having a recess below and at each end of the shearing head, each said recess including a vertical wall substantially in the plane of the end of the shearing head and a substantially horizontal wall at the lower end of the vertical wall and a case opening in each of said vertical walls: of a clippings receptacle in each said recess having inner side and bottom faces respectively abutting the said vertical and horizontal walls, said receptacle having a thickened lower portion incorporating a slot open at the upper end and extending downwardly into the thickened portion, a pair of ribbon springs, one end of each spring being anchored in one of said case openings and the other end of each spring extending into one of the receptacles and having lateral projections seating in the slot of such receptacle, a first ramp sloping upwardly from the bottom toward the vertical wall of each said recess, and a second ramp, forming an extension of the first and sloping inwardly toward each said vertical case wall, the said inner side of each receptacle having a recess of a width to accommodate the said ramps.

2. The combination with a shaver case, a shearing head supported on the case at one end thereof and the case having a recess below and at each end of the shearing head, each said recess including a vertical wall substantially in the plane of the end of the shearing head and a substantially horizontal wall at the lower end of the vertical wall: of a clippings receptacle in each said recess having inner side and bottom faces respectively abutting the said vertical and horizontal walls, said receptacle having a thickened lower portion incorporating a recess on the side abutting the said vertical wall, a first ramp sloping upwardly from the bottom toward the vertical wall of the said first-mentioned recess, a second ramp, forming an extension of the first and sloping inwardly toward each said vertical case wall, said ramps being aligned with and of a width less than the said receptacle recesses, and a spring for each receptacle having one end anchored to the case and the other to the receptacle.

3. The combination with a shaver case, a shearing head supported on the case at one end thereof and the case having a recess below and at each

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end of the shearing head, each said recess including a vertical wall substantially in the plane of the end of the shearing head and a substantially horizontal wall at the lower end of the vertical wall: of a clippings receptacle in each said recess having inner side and bottom faces respectively abutting the said vertical and horizontal walls, a first ramp sloping upwardly from the bottom toward the vertical wall of each case recess, a second ramp, forming an extension of the first and sloping inwardly toward each said vertical case wall, the inner side of each receptacle having a recess to accommodate said ramps and a hinge spring for each receptacle having one end anchored to the case and the other end to the receptacle.

4. In a shaver case having angularly disposed side and bottom walls defining a case recess and a spring-hinged, trough-like hair receptacle seated in said case recess with the side and bottom of the receptacle respectively abutting the side and bottom walls of the case recess, the improvement which comprises: a first ramp sloping upwardly from the bottom of the case recess toward the said side thereof and a second ramp, forming an extension of the first and sloping inwardly toward the said side of the case recess, the said side and bottom of the receptacle being recessed to accommodate the said ramps when the receptacle side and bottom are in position to abut the side and bottom of the case recess.

5. In a shaver case having angularly disposed side and bottom walls defining a case recess and a spring-hinged trough-like hair receptacle seated in said case recess with the side and bottom of the receptacle respectively abutting the side and bottom walls of the case recess, the improvement which comprises: a first ramp sloping upwardly from the bottom of the case recess toward the said side thereof and a second ramp, forming an extension of the first and sloping inwardly toward the said side of the case recess.

6. In a shaver case having angularly disposed side and bottom walls defining a case recess and a spring-hinged, trough-like hair receptacle seated in said case recess with the side and bottom of the receptacle respectively abutting the side and bottom walls of the case recess, the improvement which comprises: a ramp sloping upwardly from the bottom of the case recess toward the side thereof, the said receptacle being recessed to accommodate the ramp when the receptacle side and bottom are in position to abut the side and bottom of the case recess.

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No references cited.