April 18, 1939. G. A. BROYLES 2,155,299

HAIR REMOVER DEVICE

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Fig. 1.

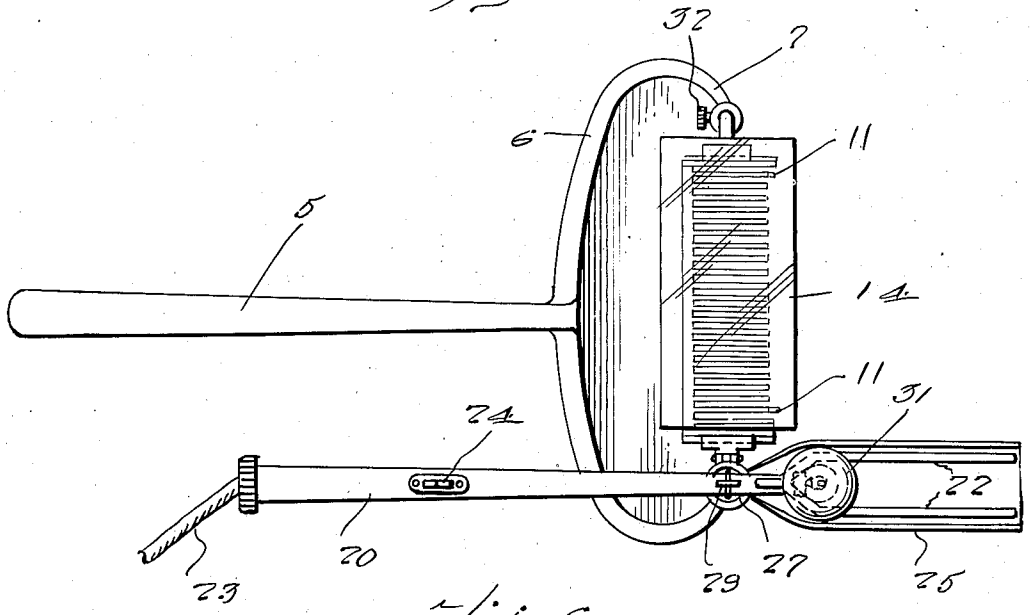
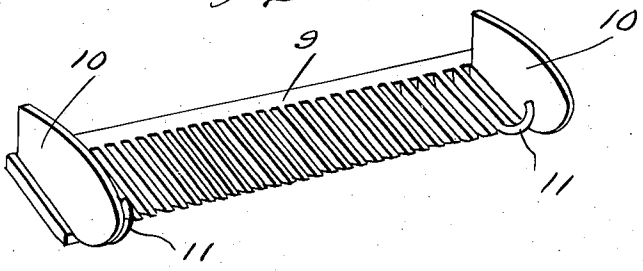


Fig. 6.



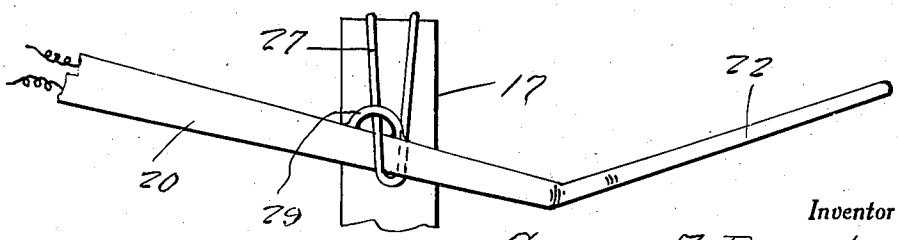


Fig. 5.

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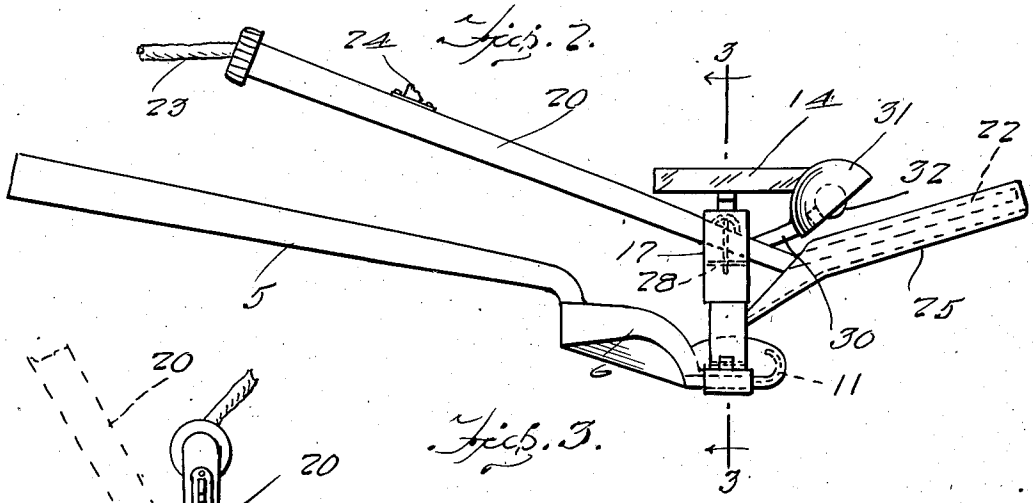


Fig. 2.

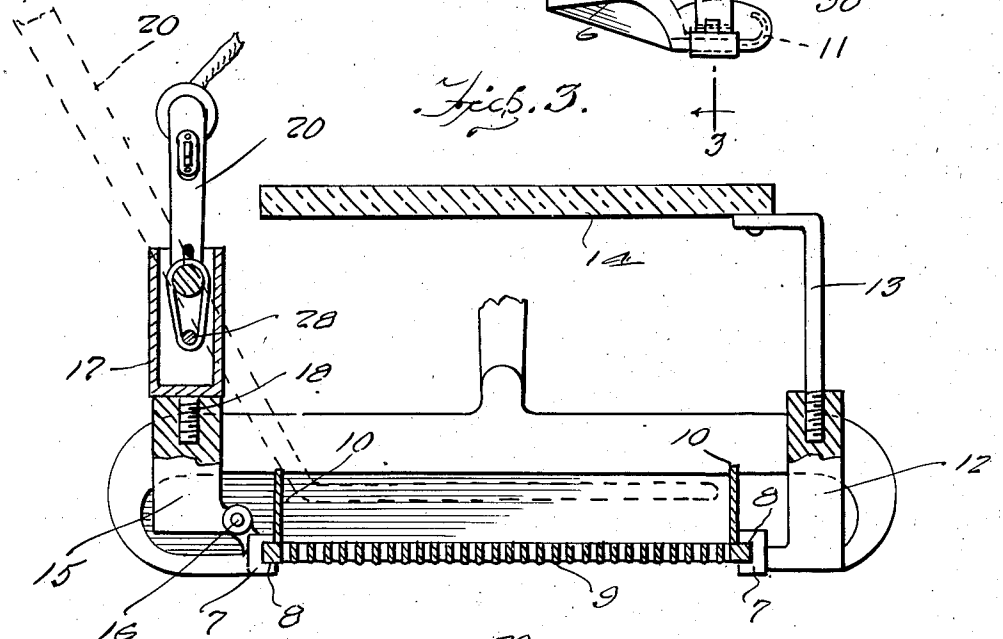


Fig. 3.

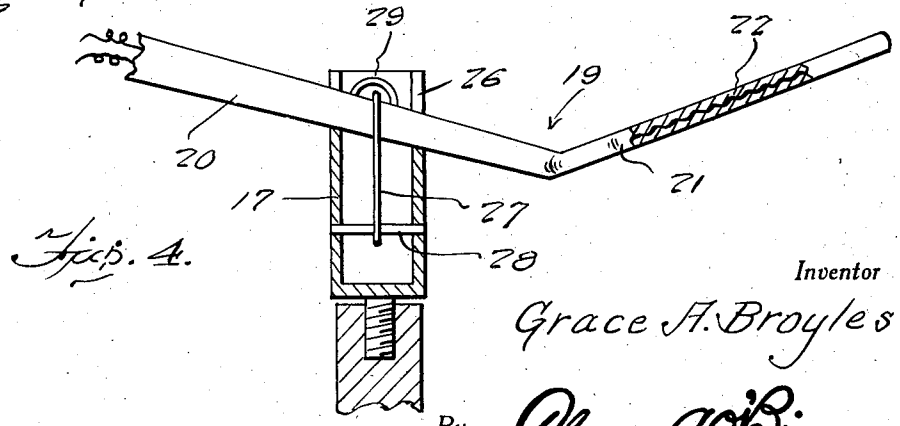


Fig. 4.

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UNITED STATES PATENT OFFICE

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HAIR REMOVER DEVICE

Grace Annette Broyles, Kenosha, Wis.

Application October 25, 1938, Serial No. 236,967

10 Claims. (Cl. 132—1)

This invention is a device for removing surplus hair from the body and an object of the invention is to provide a device whereby the removal of surplus hair may be accomplished in a positive and efficient manner and without possibility of injury to the body.

The invention together with its objects and advantages will be best understood from a study of the following description taken in connection with the accompanying drawings wherein:

Figure 1 is a top plan view of the device.

Figure 2 is a side elevational view thereof.

Figure 3 is a view taken substantially on the line 3—3 of Figure 2.

Figure 4 is a fragmentary detail view partly in section and partly in elevation showing a singeing device and a supporting means therefor.

Figure 5 is a fragmentary elevational view showing the singeing device and a part of the support therefor and with the singeing device in a position for use.

Figure 6 is a perspective view of a comb forming part of the invention.

Referring to the drawings by reference numerals it will be seen that the hair-removing device, in the preferred embodiment thereof, comprises a suitable handle 5 that at one end is provided with an integral substantially oval-shaped tray 6.

The tray 6 is provided with a rim having terminals 7 provided with grooves 8 for accommodating the end edges of a comb 9 of suitable dimensions and formed from any suitable material. The comb 9 is provided adjacent opposite ends thereof with upstanding guard plates 10, and end teeth of the comb at the leading edge of the comb are provided with upwardly disposed curved extensions 11 for a purpose hereinafter made manifest.

Mounted on the rim of the tray 6 at one of the ends 7 of the rim and rising from the frame is a fixed bracket 12 that receives the threaded end of a supporting arm 13 provided for a magnifying glass 14 whereby said glass 14 may be supported in proper position with respect to the comb 9 when the device is in use to facilitate operation of the device and to insure a thorough removal of the hairs from the part of the body being operated upon.

Pivoted to the other end 7 of the tray rim is a bracket 15, as at 16.

For detachable engagement with the bracket 15 is a hollow supporting post 17 that is provided with a threaded end 18 that threads into a socket provided therefor in the post 15.

The post 17 provides a support for a hair-singeing element indicated generally by the reference numeral 19.

The hair-singeing element 19 comprises a hollow handle 20 of rubber or other suitable material and provided at one end with a pair of parallel tines 21 in which are arranged resistance wires 22 for heating the tines so that the latter may be placed in quick contact with the hairs of the body for singeing said hairs and thus causing the hairs to die whereby they may be readily brushed from the body.

For the resistance wires, or heating elements 22, the handle 20 accommodates an electric cord 23 and for controlling the circuit to the heating elements 22 there is also mounted on the handle 20 a suitable switch 24.

To receive the tines 22 of the singeing fork when the latter is not in use there is provided a somewhat pan-shaped receptacle 25 that is mounted on and extends forwardly from the bracket 15 as best shown in Figure 1.

To support the hair-singeing element 19 the post 17 in the upper end thereof is slotted as at 26 to accommodate the handle 20 of the singeing device 19 as shown in Figure 4.

To retain the handle 20 within the slot 26 there is arranged within the post 17 an elastic band 27 that is trained over an anchoring rod 28 disposed transversely of the post 17 interiorly of the latter. The handle 20 of the hair-singeing element 19 is passed through the band 27 and is provided with a suitable guard loop 29 within the confines of which the band 27 is received as shown in Figure 4 so that the guard 29 serves to prevent complete disengagement of the handle 20 and band 27.

When the singeing device 19 is in use, the device together with the post 17 is rotated from, for example, substantially the position shown in Figure 1 to substantially the dotted line position shown in Figure 3, for positioning the singeing device above and parallel to the comb 9, after which by raising up on handle 20 the latter is removed from the slot 26 and placed to one side of the post 17 as shown in Figure 5 so that the tines of the singeing device 19 are lowered as suggested by the broken lines in Figure 3 sufficiently to contact the hairs for the purpose of singeing the latter and consequently kill the hairs. In this connection it will be appreciated that the tray 6 will serve to catch such of the hairs that fall rearwardly with respect to the comb. It will be further appreciated that in actual practice the comb 9 may be made of any suitable material but preferably of hard, white

rubber, or a material of a similar nature and very light in color in contrast to the hair so as to clearly show up the hair and thereby insure a thorough and efficient singeing of the hair.

It will further be appreciated that in so using the singeing device the tray 6 will protect the flesh against being contacted by the singeing device.

It will also be seen that when the tines 22 of the hair-singeing device are properly positioned with respect to the comb 9 the possibility of the tines being swung forwardly with respect to the comb and possibly into contact with the skin of the person being treated is obviated through the medium of the hook extensions 11 on the end teeth of the comb, and which extensions 11 will serve as a stop for the tines 22 to limit swinging movement of the latter.

If desired handle 20 of the device 19 may have extending therefrom a suitable bracket 30 on the outer end of which is a suitable reflector 31 and a lamp socket for receiving an incandescent lamp bulb 32.

It will also be apparent that magnifying glass 14 may be swung into operative position over the comb 9 or to an out-of-the-way position laterally with respect to the frame 6 as may be found desirable, and is held in the desired position through the medium of a set screw 32.

Further in actual practice and as when one is using the device on one's own face, the magnifying glass 14 is dispensed with and the post 17 changed over from the bracket 15 to the bracket 12, this change-over of the post 17 placing the singeing device in a position to be manipulated by the hand of the person using the device on one's own self.

It will also be understood that in actual practice the device may be used for removing hair from any part of the body including the face, and in fact, is particularly designed for removing unsightly hairs from the face.

In actual practice the comb 9 serves to lift the hairs and the hair-singeing device 19 serves to singe the combed hairs thus killing the latter thereby tending to effect a permanent removal of such hairs.

It will be further understood that in actual practice the undersides of the teeth of the comb 9 where such sides contact the flesh will be somewhat roughened to aid in pushing the hair up between the teeth to be contacted by the tines 22 of the hair-singeing device 19.

Thus it will be seen that a device of this character may be operated by one skilled in the art or by an amateur for permanently and effectively removing surplus hairs and without danger to the operator or the patient.

It is thought that a clear understanding of the construction, utility and advantages of a device of this character will be had without a more detailed description.

Having thus described the invention what is claimed as new is:

1. In a hair removing device, a tray having teeth at its front edge, a handle connected with the rear edge, a second handle, singeing means at the front end of the second handle and means for movably connecting the second handle to an end portion of the tray whereby said second handle can be moved from a position paralleling the first handle to a position which places the singeing means over the toothed portion of the tray and then downwardly into contact with the toothed portion of the tray.

2. In a hair singeing device, a tray having teeth at its front edge, a handle connected to the rear portion of the tray, a bracket extending upwardly from the tray adjacent one end of the toothed portion thereof, a second handle, singeing means at the front end of the second handle, a post rotatably connected with the bracket and means for movably connecting an intermediate part of the second handle with the post, said means and the rotary post permitting the second handle to be moved from a position paralleling the first handle to a position to first place the singeing means over the toothed portion of the tray and then to move said means downwardly upon the toothed portion.

3. In a hair singeing device, a tray having teeth at its front edges, a handle connected to the rear portion of the tray, a bracket extending upwardly from the tray adjacent one end of the toothed portion thereof, a second handle, singeing means at the front end of the second handle, a post rotatably connected with the bracket and means for movably connecting an intermediate part of the second handle with the post, said means and the rotary post permitting the second handle to be moved from a position paralleling the first handle to a position to first place the singeing means over the toothed portion of the tray and then to move said means downwardly upon the toothed portion, and a forwardly extending small tray connected with the bracket for receiving the singeing means when the handle thereof is in parallel position with the first handle.

4. In a hair singeing device, a tray having teeth at its front edge, a handle connected to the rear portion of the tray, a bracket extending upwardly from the tray adjacent one end of the toothed portion thereof, a second handle, singeing means at the front end of the second handle, a post rotatably connected with the bracket and means for movably connecting an intermediate part of the second handle with the post, said means and the rotary post permitting the second handle to be moved from a position paralleling the first handle to a position to first place the singeing means over the toothed portion of the tray and then to move said means downwardly upon the toothed portion, one tooth having an upwardly extending hook portion at its front end forming a stop for preventing forward movement of the singeing means when such means are arranged over the toothed portion of the tray.

5. In a singeing device of the class described a tray having a toothed portion at its front edge, handles connected to its rear edge, an upstanding bracket pivotally connected at its lower end to an end portion of the tray adjacent an end of the toothed portion thereof, a post rotatably connected with the bracket and having a slot in its upper end, an elongated second handle, singeing means at the front end of the second handle, elastic means for normally holding an intermediate part of the second handle in the slot of the post, said rotary post permitting the second handle to be moved from a position where it parallels the first handle to a position where the singeing means are located over the toothed portion of the tray and the pivoted bracket and the elastic means permitting the second handle to be moved to place the singeing means in contact with the toothed portion of the tray.

6. In a singeing device of the class described a tray having a toothed portion at its front edge, handles connected to its rear edge, an upstand-

ing bracket pivotally connected at its lower end to and end portion of the tray adjacent an end of the toothed portion thereof, a post rotatably connected with the bracket and having a slot in its upper end, an elongated second handle, singeing means at the front end of the second handle, elastic means for normally holding an intermediate part of the second handle in the slot of the post, said rotary post permitting the second handle to be moved from a position where it parallels the first handle to a position where the singeing means are located over the toothed portion of the tray and the pivoted bracket and the elastic means permitting the second handle to be moved to place the singeing means in contact with the toothed portion of the tray, a forwardly extending small tray connected with the bracket for receiving the singeing means when the second handle is in position paralleling the first handle and a stop at the front edge of the toothed portion of the tray for preventing forward movement of the singeing means when the same are located over said toothed portion.

7. In a singeing device of the class described, a tray having a toothed portion at its front edge, a handle connected with the rear portion of the tray, a pair of upright brackets connected with the tray one adjacent each end of the toothed portion thereof, said brackets having sockets in their upper ends, a post having a projection at its lower end for rotatably engaging either socket, an elongated second handle having a fork at its front end, electric singeing means carried by said fork, means for movably connecting an intermediate part of the second handle to the post.

8. In a singeing device of the class described, a tray having a toothed portion at its front edge, a handle connected with the rear portion of the tray, a pair of upright brackets connected with the tray one adjacent each end of the toothed portion thereof, said brackets having sockets in their upper ends, a post having a projection at its lower end for rotatably engaging either socket, an elongated second handle having a fork at its front end, electric singeing means carried by said fork, means for movably connecting an intermediate part of the second handle to the post, an upright removably and rotatably fitting in the socket of one upright, and having a horizontal arm at its upper end adapted to have attached thereto a magnifying glass.

9. In a hair singeing device of the class described, a tray having horizontal and longitudinally extending guideways at its front part and a comb having its end edges slidably arranged in said guideways.

10. In a hair singeing device of the class described, a tray having horizontal and longitudinally extending guideways at its front part and a comb having its end edges slidably arranged in said guideways, and upstanding guard members connected with the ends of the comb.

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