

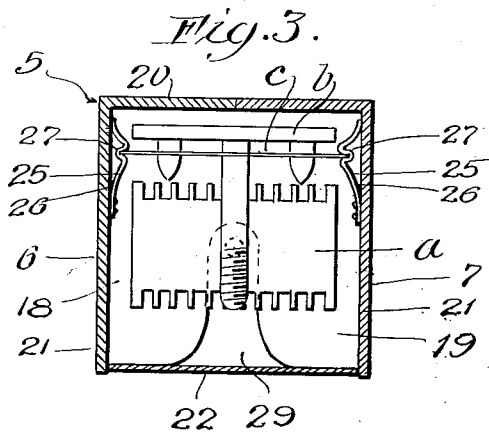
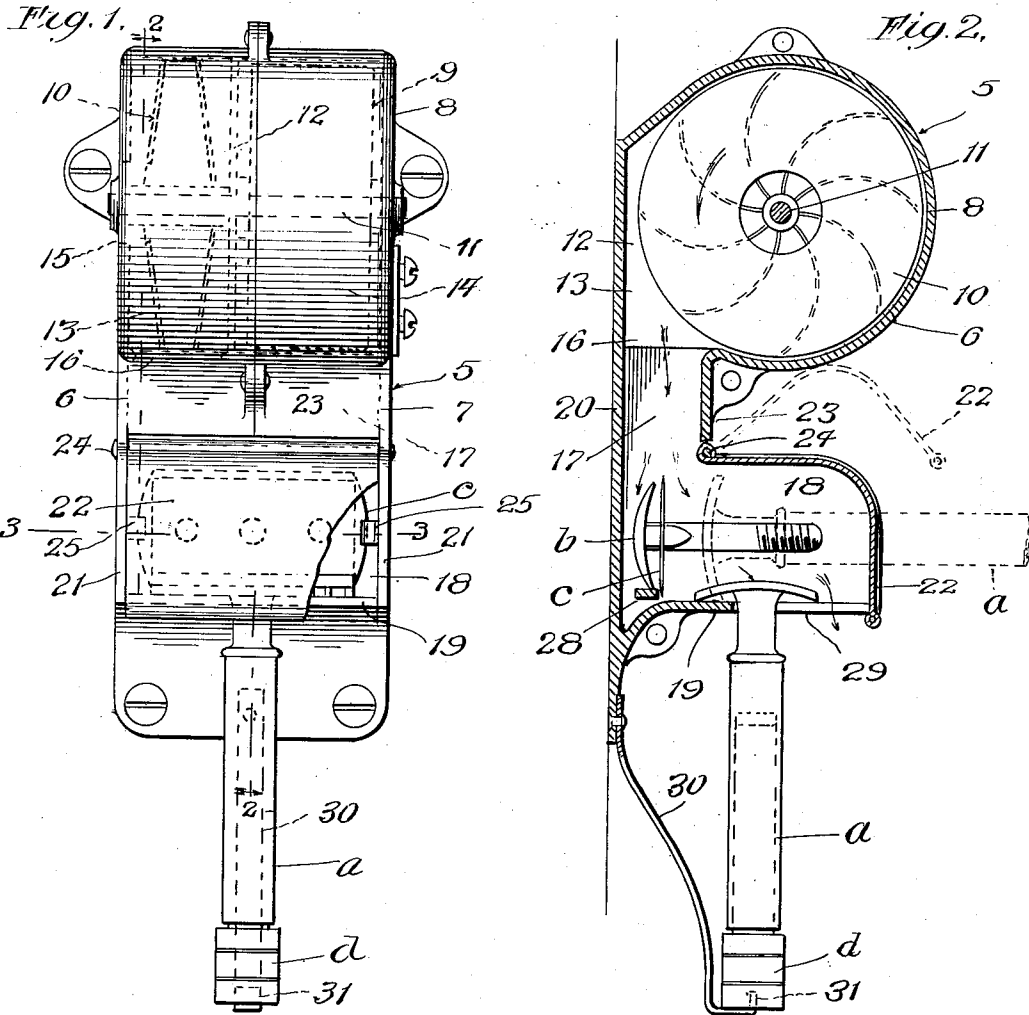
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SAFETY RAZOR DRIER

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UNITED STATES PATENT OFFICE.

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SAFETY-RAZOR DRIER.

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This invention relates to safety razor driers and its principal object is to provide a device of novel construction and arrangement for drying safety razors after they have been used and washed.

It is well known by persons using safety razors, that considerable annoyance is occasioned in wiping a safety razor dry after washing and rinsing it, and that frequently towels are cut in attempting to wipe the blade dry. Moreover, the disassembled parts of the razor are usually laid upon the wash bowl after rinsing them, and while wiping the parts. This is objectionable from a sanitary standpoint, and often the parts fall into the bowl or upon the floor, after being washed and before they are again assembled. All of these objectionable features have been overcome with the use of a safety razor drier embodying the present invention.

Another object of the invention is to provide a safety razor drier with means for holding a safety razor in disassembled condition. Another object is to provide a safety razor drier with a motor driven fan or blower for producing a strong blast or current of air over the disassembled parts of the razor, whereby the water, which adheres to the razor after being rinsed, is evaporated, thereby leaving the razor in a thoroughly dry state, with its main parts contained within and protected by the case. Another object is to provide novel means for holding the several parts of a safety razor, including its blade, in separated condition, whereby the current of air, produced by the fan may pass across all of its surfaces.

With these and other objects and advantages in view, this invention consists in a safety razor drier having a case for containing the razor in disassembled condition, and a motor driven fan or blower for producing a strong blast or current of air through that part of the case containing the disassembled razor. It further consists in a case provided with means for holding the several parts of the disassembled razor in separated condition, whereby the air current, produced by the fan, may pass all of the surfaces of the razor. It further consists in means for facilitating the assembly and disassembly of the parts of the razor within the case. It further consists in

the several novel features hereinafter fully set forth and claimed.

The invention is clearly illustrated in the drawing accompanying this specification, in which:—

Fig. 1 is a front elevation, partly broken out, of a safety razor drier embodying a simple form of the present invention; Fig. 2 is a vertical section taken on the line 2—2 of Fig. 1 and Fig. 3 is a horizontal section taken on the line 3—3 of Fig. 1.

Referring to said drawing, which illustrates one embodiment of the present invention, the reference character 5 designates a case, here shown as formed of two sections 6 and 7, riveted, bolted or otherwise secured together. The case is formed with a back wall 20, which is provided with screw holes whereby it may be screwed or bolted to a wall or other support. In the upper end of the case is formed a chambered portion 8, in which is mounted a small electric motor 9 and a fan or blower 10, preferably mounted directly upon the shaft 11 of the motor. As a preference, a partition 12 is secured in the chambered portion 8 and divides the same into two chambers 13, 14, one containing the motor and the other containing the fan. The fan may comprise one of the Serocco type, if desired, but this is not essential to the invention, broadly considered. The chamber 13 is formed with an air inlet 15 which opens to the axial opening of the fan, and with an outlet opening 16 through which the fan discharges the air from the chamber 13. Below the outlet opening 16 is an air passageway 17 which leads to a drying chamber 18, for containing the disassembled parts of the razor.

The drying chamber 18, is shown as formed with a bottom wall 19, the back wall 20 and side walls 21, all of which may be formed integral with the main elements of the case. The front of the drying chamber 18 is open and a cover 22, is provided for closing said open front, and if desired, the top of the drying chamber may be open and the cover 22 may extend back over the open top to the front wall 23 of the air passageway 17, where it may be hinged to the case as at 24. The drying chamber is made of suitable size to accommodate the blade holding portions of a safety razor in disassembled or partly disassembled condition. The opening at the front is large

enough to permit the head or blade end of a safety razor to be readily inserted there-through.

The drying chamber is provided with means for holding a safety razor in partly assembled condition therein, whereby the current of air delivered by the fan may flow past all of the surfaces of the razor. In accordance with the form of the invention illustrated in the drawings, the construction and arrangement of said means is as follows:

Adjacent the rear end of the drying chamber, means are provided for grasping and holding the razor blade, when the latter is brought into engagement therewith, whereby the handle portion *a*, of the razor may be disconnected from the jaw member *b*, and blade *c*, in disassembling the parts of the razor. Said blade holding means, as shown, comprise a pair of oppositely disposed resilient fingers 25, secured to the side walls 21, of the drying chamber by rivets or otherwise, and having blade engaging portions normally lying in the path of movement taken by the blade while being inserted into the drying chamber. In the form shown in the drawing the resilient fingers 25, comprise strips of spring metal, bent up to form arms 26 that incline inwards from the side walls of the drying chamber, and have their free ends bent up into U like blade clamping parts 27 that are arranged to engage with the side edge portions of the razor blade *c*, when the razor is inserted into the drying chamber. Said blade holding members, when in effective engagement with the razor blade, hold the same in place in the drying chamber and therewith hold the jaw member *b*, in position. If desired a rest or ledge 28, may be provided adjacent the blade holding fingers and immediately below the position occupied by the jaw member *b*, which acts in connection with the blade to hold said jaw member in place.

In the bottom wall 19 of the drying chamber is formed a notch 29, in which the handle portion of the razor is received when the blade clamping jaw member thereof has been disconnected from the jaw member *b*, and placed in the drying chamber, said notch also forms an outlet for the escape of air from the drying chamber. Secured to the back wall 20 of the case is an arm 30 which for convenience may be formed of spring metal, and said arm projects down below the handle portion *a*, of the razor, and a bent up end 31, that is arranged to engage under the lower end of the usual jaw actuating member *d*, of the razor and hold the same in place in the handle.

To use the drier, the razor, after having been used, is washed and rinsed as usual without taking it part, however, although

the jaw actuating member *d*, may be partly backed off the threaded stem of the jaw member *b*, to permit the water to flow past all of the surfaces of the jaws and blade. The cover 22 is then raised and the razor inserted into the drying chamber and pushed back until the blade is caught between the blade holding fingers 25. The jaw actuating member *d*, is then backed off the threaded stem of the jaw member and when free thereof, the whole handle portion is withdrawn from the blade and jaw member, and brought into upright position in front of the notched bottom wall 19, and the neck part of the handle slipped into the notch 29 bringing the head or jaw portion of the handle down upon the bottom wall 19, and bringing the upturned end of the arm 30 into the hollow of the jaw actuating member *d*. The cover 22 is then closed and the electric current turned on. The fan being set in motion, delivers a relatively strong blast or current of air to and through the drying chamber, and the location and arrangement of the razor parts is such that the current of air flows past all of the surfaces thereof and escapes through the notch in the bottom wall and through the bore of the handle portion of the razor. The electric current is left on for a relatively short period of time—a few minutes or so—which is sufficient to thoroughly evaporate the water, leaving the parts in a dry condition, sheltered within the drying chamber.

When it is desired to use the razor, the cover is raised, the handle portion of the razor detached from the notched bottom wall, the jaw end thereof inserted into the drying chamber and slipped upon the threaded stem of the jaw member *b*, and the jaw actuating member *d*, turned up until connected to said stem, whereupon the razor may be withdrawn and the jaw actuating member *d*, turned up to clamp the blade between the jaws. The razor is then ready for use.

From the above it is readily apparent that little effort is required to dry safety razors with a drier embodying the present invention. Moreover, the safety razor is held in a closed case when being dried, and does not have to be removed therefrom but may be stored therein until it is needed for use.

More or less variation of the exact details of construction is possible without departing from the spirit of this invention; I desire, therefore, not to limit myself to the exact form of the construction shown and described, but intend, in the following claims, to point out all of the invention disclosed herein.

I claim as new, and desire to secure by Letters Patent:

1. A safety razor drier, comprising in combination, a case having a drying cham-

ber, provided with air inlet and outlet openings, blade and razor holding means therein, for holding the blade and other parts of a safety razor in spaced relation in said drying chamber, and a motor driven fan for delivering a current of air to said drying chamber.

2. A safety razor drier, comprising in combination, a case having a drying chamber provided with air inlet and air outlet openings, blade gripping fingers in said drying chamber, and a motor driven fan for delivering a current of air into said drying chamber.

3. A safety razor drier, comprising in combination, a case having a drying chamber provided with air inlet and air outlet openings, blade gripping fingers in said drying chamber, having oppositely disposed resilient arms arranged to grasp the side edges of the razor blade of a safety razor, and a motor driven fan for delivering a current of air into said drying chamber.

4. A safety razor drier, comprising in combination, a case having a drying chamber open at the front, the open front being closed by a cover, and there being a notch in one wall of said drying chamber, holding means in said chamber for holding a partly assembled safety razor therein, and a motor driven fan for delivering a current of air into said drying chamber.

5. A safety razor drier, comprising in combination, a case having a drying chamber open at the front, the open front being closed by a cover, and there being a notch in one wall of said drying chamber, oppositely disposed resilient blade holding fingers in said drying chamber arranged for engagement with the side edges of a safety razor

blade, and a motor driven fan for delivering a current of air into said drying chamber.

6. A safety razor drier, comprising in combination, a case having a fan chamber, a drying chamber and an air passageway therebetween, said drying chamber having an open front closed by a cover, oppositely disposed resilient blade grasping fingers in said drying chamber, for holding parts of a partly assembled safety razor in said drying chamber, and a motor driven fan in said fan chamber.

7. A safety razor drier, comprising in combination, a case having a chambered portion and a drying chamber formed with an open front, a motor and fan in said chambered portion, an air passageway leading from said fan to said drying chamber, resilient blade holding means in said drying chamber, and a cover for said open front of said drying chamber.

8. A safety razor drier, comprising in combination, a case having a razor drying chamber provided with a notched bottom wall, a motor driven fan for delivering a current of air into said drying chamber, means for holding parts of a razor within said drying chamber, and means exterior of the case for supporting a protruding part of a razor.

9. A safety razor drier, comprising in combination, a case having a razor drying chamber provided with a notched bottom wall, a motor driven fan for delivering a current of air into said drying chamber, means for holding parts of a razor within said drying chamber and a flexible arm having an upturned end for supporting a protruding part of a razor.

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