

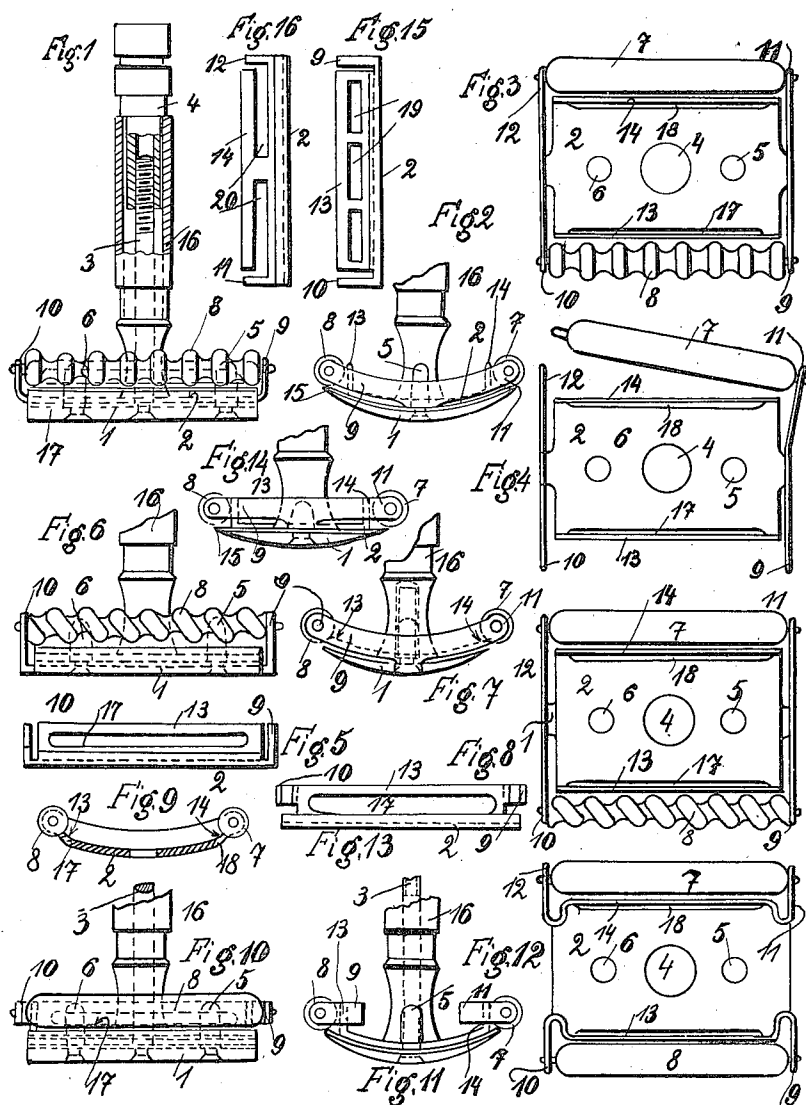
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SAFETY ROLLER RAZOR

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SAFETY ROLLER RAZOR.

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(GRANTED UNDER THE PROVISIONS OF THE ACT OF MARCH 3, 1921, 41 STAT. L., 1313.)

To all whom it may concern:

Be it known that we, MAX ROHDE and ROBERT ROHDE, citizens of the German Republic, residing at Berlin-Plotzensee, 5 Königsdamm, 11^a, Germany, have invented certain new and useful Improvements in Safety Roller Razors (for which I have filed applications in Germany as follows: March 4, 1919, No. R 47,245 IX/69; July 30, 1919, No. R 48,300, IX/69; March 20, 10 1919, No. R 47,318 IX/69; July 12, 1919, No. R 48,670, IX/69; and February 25, 1920, No. R 49,620 IX/69, not yet granted), of which the following is a specification.

15 This invention relates to roller-safety razor and our objects are to fit same with removable rollers, elastic bearing arms for said rollers and with lather wipers for single as well as for double-edged safety blades 20 or razors.

Our objects are attained by mechanism such as will now be described with reference to the annexed drawings given by way of example, in which:—

25 Figure 1 is an end elevation, partly in section, of one form of construction; Fig. 2, a side view with part of the handle broken away; Fig. 3, a plan; Fig. 4, a plan with parts removed; Fig. 5, an end view 30 with handle, rollers and razor blade removed; Figs. 6, 7, 8 and 9 are an end view, side view, plan and longitudinal section respectively of a modified construction; Figs. 10 to 13 are an edge view, side view, plan 35 and an end view of a corresponding detail of a further modified construction; and Fig. 14 is a side view of another modification.

In all the figures the same or similar parts are denoted by the reference characters. 40

Referring first to Figs. 1 to 5, 1 denotes the outer clamping plate and 2 the inner clamping plate to which plates a screw-adjustment 3, 4 and guide pins 5 and 6 are 45 fitted. The plate 2 carries elastic arms 9, 10, 11 and 12 in which the safety rollers 7 and 8 are mounted close to the inner side of which are the wipers 13 and 14, while a double-edged razor blade 15 is clamped 50 between the plates 1 and 2 by an appropriate adjustment of the screw-device 3 and 4. The plate 2 is fitted with a hollow handle 16, while the elastic arms 9 to 12 and the lather-wipers 13, 14 are made in one piece.

However, the arms may be fixed by rivet- 55 ing or in any other manner. The wipers 13, 14 consist each of a ledge or rail turned upward to leave a small space for the free play of the rollers 7 and 8. A slot 17 is made in the ledge 13 and a slot 18 in the 60 ledge 14 to allow the lather removed in shaving to pass through such slot and become deposited on to the inner clamping plate. The guide pins 5 and 6 and the pin- 65 screw 3 are fixed to the outer clamping plate 1 in positions to fit into holes provided in the plate 2. The roller 7 is smooth and roller 8 is corrugated, but both may be corrugated or smooth, or spirally grooved. Fig. 4 illustrates the manner of removing 70 the safety rollers. In forcing the roller endwise against one of its elastic bearing arms it will be possible to withdraw the trunnion of the roller at the other end, then remove the roller and allow the elastic arm 75 11 to straighten out.

The constructional form shown in Figs. 6 to 9 comprises the same parts denoted by the same numerals as above described, the wipers 13, 14 being shortened and the 80 operative edges of same being turned direct towards the rollers, while the elastic bearing arms 9 to 12 are fast on the outer clamping plate 1.

The third constructional form shown in 85 Figs. 10 to 13, comprises an outer clamping plate 1 with screw 3 and guide pins 5 and 6, adapted to co-act with the inner plate 2 carrying the bearing arms 9 to 12, wipers 13, 14 and handle 16 with the screw mem- 90 bers 3 and 4, and rollers 7, 8, while a razor blade is shown between the plates 1 and 2. The elastic arms 9 to 12 are here bent in the form of hooks and are subsequently 95 fixed to or form the wipers 13, 14 which in other respects are similar to those shown in Figs. 1 to 5. The rollers are smooth, but they may have the forms shown in Figs. 1 to 9 and they are withdrawable in the manner illustrated in Fig. 4. The screw-con- 100 nection corresponds with that shown in Figs. 1 to 5, but other screw-connections may be adopted. The lather escapes through the slots 17, 18.

The modification shown in Fig. 4 has a 105 straight razor-blade 15, the screw-connection and other parts may have any of the previously described forms.

subsequently fixed to either the outer or the inner clamping plate.

The slot for the passage of lather may be a single slot, series of successive slots interrupted by bridge pieces as shown in Fig. 15, or a double slot with open ends as shown in Fig. 16.

I claim:

1. In a safety roller razor the combination of a soap lather wiper with rollers, the inner clamping plate being provided with four elastic bearing-arms which permit of the removal and re-integration of the guard rollers for cleaning purposes and at the same time form bearings for the same, so that between the curved or straight outer and inner clamping plates with guide pins fast in the outer clamping plate, the blade guided by the inner clamping plate, can be set by the screw-device of which the stud-screw is fixed in the outer clamping plate, while the adjusting nut forms the handle.

2. A safety razor comprising an outer clamping plate, an inner clamping plate having resilient arms at its ends, and said inner plate being further provided at its ends with elastic bearing arms in any of the

foregoing constructions may be integral or opposite sides with inwardly bent wiper flanges and lather clearing slots in said flanges, connecting means for said plates to clamp a razor blade therebetween, and rollers detachably revolubly mounted between the ends of said resilient arms and opposite sides which said wiper flanges bear.

3. A safety razor comprising an outer clamping plate, an inner clamping plate having resilient arms at its ends, and said inner plate being further provided at its opposite sides with inwardly bent wiper flanges and lather clearing slots in said flanges, connecting means for said plates to clamp a razor blade therebetween, and rollers detachably revolubly mounted between the ends of said resilient arms and opposite sides which said wiper flanges bear, said resilient arms forming the ends of said wiper flanges.

In testimony whereof we affix our signatures in presence of two witnesses.

MAX ROHDE,
ROBERT ROHDE.

Witnesses:

H. WENTZHEL,
H. HANDLE.