

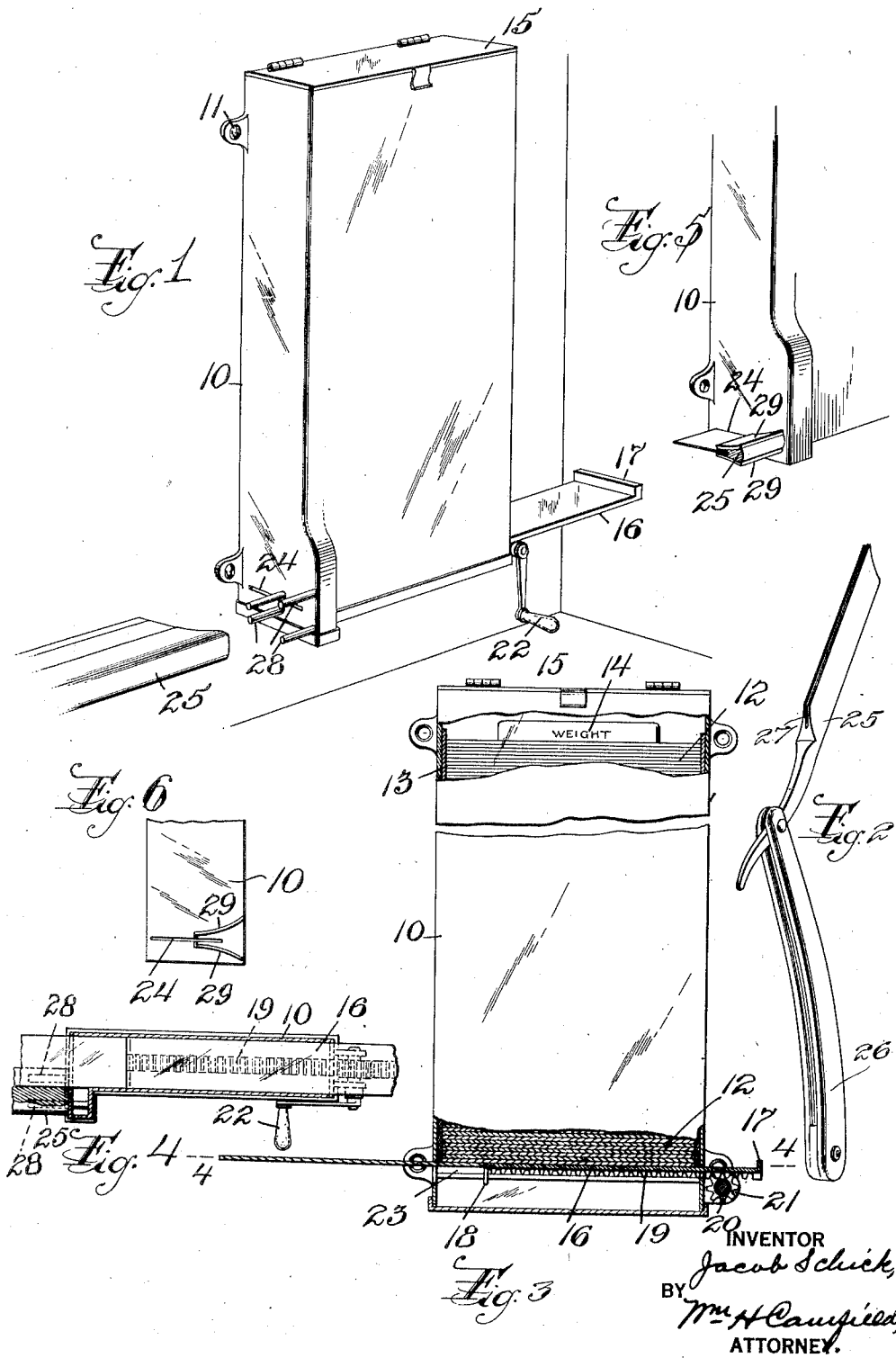
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EQUIPMENT FOR SHAVING

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UNITED STATES PATENT OFFICE

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EQUIPMENT FOR SHAVING

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This invention relates to an improved shaving equipment which is designed to provide a quick, convenient and safe apparatus for inserting blades in a razor.

5 The use of a stack of blades and means for feeding such blades to shaving position in a shaving head is not novel but I have improved the previous form of razor so that the use of either a safety razor or the old fashioned form of razor is possible and it can be used for shaving as is the old fashioned razor, unencumbered by a magazine of blades.

15 The equipment can be used as a home article but is particularly well adapted for use in barber shops. With this equipment a barber installs a holder with the stack of blades placed therein and also provides a razor or razors adapted to receive and hold a blade from the stack in the holder. Each customer can in this way be provided with a new blade, if desired, and the simple form of wafer blade employed is so cheap that the honing and stropping now necessary is eliminated.

25 The use of what I call the old-fashioned razor is universal among barbers and preferred by many people who shave themselves and it has heretofore been impossible to provide an equipment that embraced both a magazine or supply of blades that was free of any added weight to the razor. In prior devices either the razor carries the excess blades or the blades have to be inserted by hand.

35 In my improved equipment the razor is held so that it co-operates for purposes of feeding a blade from the holder into the razor and after the razor is supplied by the feeding mechanism of the holder it is used independent of the holder or magazine and is therefore no more bulky nor any heavier than an ordinary razor.

45 The invention therefore consists of a razor and a holder containing a stack of blades, these articles being independent of each other except for their co-operation in replacing an old blade by a new one since the forcing of a fresh blade into the razor ejects the old blade from the razor as the fresh blade slides the old one ahead of it and replaces it in the razor.

The invention contemplates the use of co-operative parts in the razor and the holder for holding the razor in proper alignment with the feeding means on the holder to insure the proper seating of the wafer blade in the razor.

The invention also relates to certain details of construction which are more fully described hereinafter and finally embodied in the claims.

60 This invention is illustrated in the accompanying drawings in which Figure 1 is a view of one form of holder as used in the invention, the view also showing the end of a razor with a blade inserted. Figure 2 is a perspective view of a razor without a blade. Figure 3 is a front view of a holder, partly in section, and showing a blade partly ejected, the razor being omitted from this view. Figure 4 is a section on line 4—4 in Figure 3. Figure 5 is a perspective view and Figure 6 a side view of the bottom part of a holder of a modified form.

75 It is possible to provide various types and forms of holders for the stack of blades and various mechanisms for feeding the blades one by one from the stack can be devised but I illustrate, in the drawing, one that is adapted to be secured to the wall and comprising a casing 10 with suitable means as screws 11 for securing it in place. The casing contains a stack of blades 12 which are supplied in a clip 13 which is inserted in the casing and overcomes any necessity for handling the individual blades. The blades are stacked provide enough weight to insure the close contact of the blades so that they are successively presented for ejection at the bottom but to insure this for the last few blades to be expended I provide means such as a weight 14 which rides on the top of the stack. The lid 15 keeps the top of the casing closed and is opened to permit the removal of an empty clip and the insertion of a full one. The blades are put into the clip automatically and a blade is not necessarily handled until it is in the razor.

95 The casing or holder is provided with means for ejecting or feeding a blade from the bottom of the stack and I show a recipro-

cating plate or slide 16 which is limited in its movement and I show the stop 17 which engages one side of the casing to limit the forward movement of the slide and a stop 18 to limit the rearward movement of the slide.

The slide is moved by any suitable means and I illustrate a rack and pinion mechanism, the rack 19 being arranged on the under side of the slide and the pinion 20 being mounted on a shaft in bearings 21 and rotated by a handle 22. The slide when moved backward permits the stack to fall so that the bottom blade rests on a shelf 23 and when the slide moves forward it pushes the blade ahead of it out through the slit 24 in the casing until the rear edge of the blade is flush with the outside wall of the casing.

The razor is of any desired type but as this invention is devised more particularly for the old type of razor I show such razor at 25 with the handle 26 secured thereto and having a slit 27 which extends preferably from end to end of the blade grip or support so that an incoming blade slides the blade already in, from the razor.

To insure the proper placing of the blade in the razor when it is fed into it I provide co-operating means on the razor and holder for positioning the razor so that it will properly receive a blade. One form of such means is shown in Figures 1 and 4 by the pins 28 which receive the end of the razor 25, which, when held firmly against the pins, is disposed so that the slit 27 is in line with the slot 24. The grip or support 25 is preferably made of spring steel and holds the blade without any other clamping means thus providing the same free blade appearance and manipulation as provided by the ordinary razor.

The use of this device is simple and, particularly in barber shops, it permits the quick replacement of one blade by another by simply holding the razor in place against the casing, as in Figures 2 and 4, and then giving the handle 22 a turn or two. When the blade is seated in the razor the razor is ready for use and the remaining blades in the holder are kept sealed and dry for future use. In this way each customer can have a fresh blade and the sharpening of the razors by the barber is not necessary.

In Figures 5 and 6 I show a modification of the positioning means or guide for holding the razor in proper relation to the stack of blades. In these figures I illustrate the plates 29 which receive the end of the razor and are made to fit the outer faces thereof so that the blade is seated properly in the razor as the blade emerges from the holder.

The guiding of the razor head 25 can also be insured by partially ejecting a blade from the stack, then sliding the razor with its slit on the exposed part of the blade and when the razor is so positioned, completing the feeding of the blade into the razor head.

Various modifications can be made in the constructions of the parts and the details thereof without departing from my invention.

I claim:

1. A blade feeding apparatus comprising a holder having means for attaching it to a support and constructed to contain a stack of blades, and having a restricted opening on one side at the bottom, a slide in register with the opening and adapted to travel the full width of the holder, whereby a single blade can be wholly ejected from the holder, and a projecting guide on the outside of the holder and adjacent the opening for receiving the end of a razor.

2. A blade feeding apparatus comprising a stationary holder constructed to receive a stack of blades, and having a restricted opening to allow one blade at a time to emerge, a slide longer than the length of the stack and adapted to wholly expel a blade and having one end outside the holder, a stop on said slide to engage the holder, and a guide on the outside of the holder adjacent the opening for positioning the end of the razor.

3. A blade feeding apparatus comprising a stationary holder, a slide at the bottom for supporting a stack of blades the slide having a stop for limiting its sliding movement, a rack on the side, a pinion on the holder for operating the rack, and positioning means for a razor on the outside of the holder, the holder having a restricted opening within said means and in line with the slide.

In testimony whereof I affix my signature.
JACOB SCHICK.