No. 868,588. PATENTED OCT. 15, 1907.

W. N. WARD.

SAFETY RAZOR.

APPLICATION FILED JULY 5, 1907.

Fig. 1.

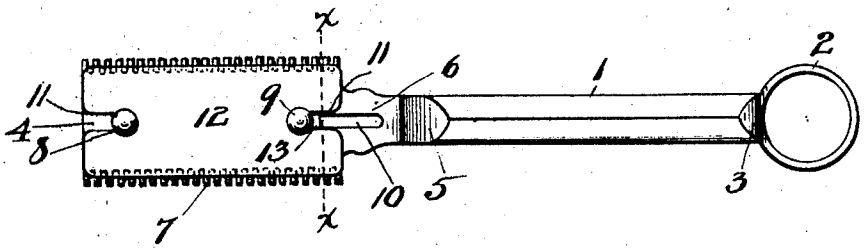


Fig. 2.

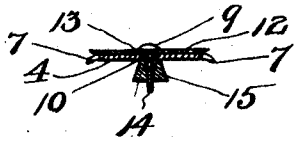


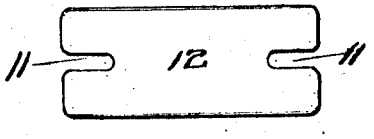
Fig. 3.



Fig. 4.



Fig. 5.



Witnesses

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WILLIAM N. WARD, OF CHICAGO, ILLINOIS, ASSIGNOR TO YALE SAFETY RAZOR CO., OF CHICAGO, ILLINOIS, A CORPORATION OF ARIZONA TERRITORY.

SAFETY-RAZOR.

No. 868,588. Specification of Letters Patent. Patented Oct. 15, 1907.

Application filed July 5, 1907. Serial No. 382,265.

To all whom it may concern:

Be it known that I, WILLIAM N. WARD, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Safety-Razors, of which the following is a specification.

My invention relates to safety razors and has for its object the provision of a device in which the blade holder is formed as an extension of the handle and the removable blades are provided with recesses in their ends that are engaged by headed pins on the blade holder, one of said pins being slidably mounted in a slot in the holder to admit of the removal and replacement of the blades, the slidable pin being provided with a screw shank on which is mounted a nut for securing it in position to hold the blade.

The construction and operation of my improved safety razor will be described in detail hereinafter and illustrated in the accompanying drawings in which—

Figure 1 is a plan view of my improved razor showing the blade in position, Fig. 2, a cross section on the line x—x of Fig. 1, Fig. 3, a cross section of the handle, Fig. 4, a detail view of the locking pin, and Fig. 5, a plan view of the blade.

In the drawings similar reference characters indicate corresponding parts throughout the several views.

The handle 1 of my improved razor is preferably made hexagonal in cross section as shown in the drawings so as to admit of the tool being firmly grasped by the operator without danger of it twisting. The surface of the handle may be made smooth or if desired roughened by cross-hatching or pebbling, the roughened surface adding to the security in handling the device but not being necessary to a complete tool.

At one end of the handle 1 a ring 2 is formed which receives the little finger of the operator's hand while shaving and is also used for hanging up the razor when not in use. As shown in the drawings the handle 1 is beveled to the thickness of the ring 2 as indicated by 3.

The blade holder 4 is formed integral with handle 1 which is beveled as shown at 5 to the thickness of a shank 6 connecting said handle and holder. The side edges of the holder 4 is formed with guard teeth 7.

A pin 8 is secured in the middle of the holder 4, and adjacent to its outer end and another pin 9 is slidably mounted in slot 10 cut in the inner end of blade holder 4 and extending into shank 6. Both of the pins 8 and 9 are formed with narrow shanks to fit in recesses 11 cut in the ends of blade 12 which consists of an oblong-shaped piece of thin steel with its longer edges sharpened. The tops of pins 8 and 9 have relatively wide heads to engage the top of the blade when in position so as to hold it against the holder 4.

The pin 9 is formed with shoulders 13 to engage the slot 10 to prevent it from turning and a threaded shank 14, and is held in a locked position by means of a thumb nut 15 fitting the threaded shank.

It will be understood from the above description and an inspection of the drawings that when the blade 12 is placed in position the thumb nut 15 may be unscrewed so as to permit the pin 9 to be withdrawn towards the handle 1. The blade 12 is then laid on the holder 4 and slid towards the outer end thereof so that the pin 8 engages the recess 11 in the outer end of the blade. The pin 8 is then slid along slot 10 so that it engages the recess 11 in the other end of the blade and after the thumb nut 15 is tightened on the threaded shank 14 the blade is held securely in position. To remove the blade the above operation is reversed.

It will be understood also that as my improved razor consists of easily dismembered parts it is capable of being thoroughly cleansed with the least expenditure of time and trouble.

Having thus described my invention what I claim is—

1. In a safety razor, a blade holder, a headed pin rigidly secured to the holder, a headed pin adjustably mounted on the holder, a blade formed to engage said holder and pins and means to rigidly secure said adjustable pin in an adjusted position, substantially as shown and described.

2. In a safety razor, a blade holder, a headed pin rigidly secured thereto, a pin adjustably mounted on said holder, a blade having apertures to receive said pins in securing the blade in position and means to rigidly secure said adjustable pin in an adjusted position, substantially as shown and described.

3. In a safety razor, a blade holder having a slot therein, a headed pin slidably mounted in the slot having a threaded shank, a thumb-nut engaging said threaded shank, a headed pin secured to said holder, and a blade formed to engage said pins, substantially as shown and described.

4. In a safety razor, a blade holder, a headed pin secured thereto, a headed pin slidably mounted on said holder, a blade having recesses centrally of its ends to receive said pins and means to rigidly secure said slidable pin in an adjusted position, substantially as shown and described.

5. In a safety razor, a blade holder having a longitudinal slot therein, a blade having recesses formed centrally of its ends, means to engage one end of the blade, and a headed pin slidably mounted in the slot in the holder to engage the other end of the blade, substantially as shown and described.

6. In a safety razor, a blade holder having a longitudinal slot therein, a blade formed with recesses centrally of its ends, a headed pin secured to the blade holder and adapted to engage the recess at one end of the blade, and a headed pin slidably mounted in the slot aforesaid to engage the recess at the other end of the blade, substantially as shown and described.

7. In a safety razor, a blade holder having a longitudinal slot therein, a blade having recesses in its ends and centrally thereof, a headed pin secured to the blade holder and adapted to engage the recess at one end of the blade, a headed pin slidably mounted in the slot aforesaid to engage

the recess in the other end of the blade and having a screw-threaded shank, and a thumb nut secured on said threaded shank, substantially as shown and described.

8. A safety razor comprising a blade holder having a handle formed integral therewith and extending from one end thereof, said blade holder and handle formed with a slot, the blade formed of a thin metal plate having recesses in its ends formed centrally thereof, a headed pin secured adjacent to the outer end of the blade holder to engage the recess in one end of the blade, a headed pin slidably mounted in the slot aforesaid to engage the recess in the other end of the blade, said slidable pin having a threaded shank, and a thumb nut secured on said threaded shank, substantially as shown and described.

In testimony whereof I hereto affix my signature in the presence of two witnesses.

WILLIAM N. WARD.

Witnesses:
HARRY L. KING,
SAMUEL T. HEAP.