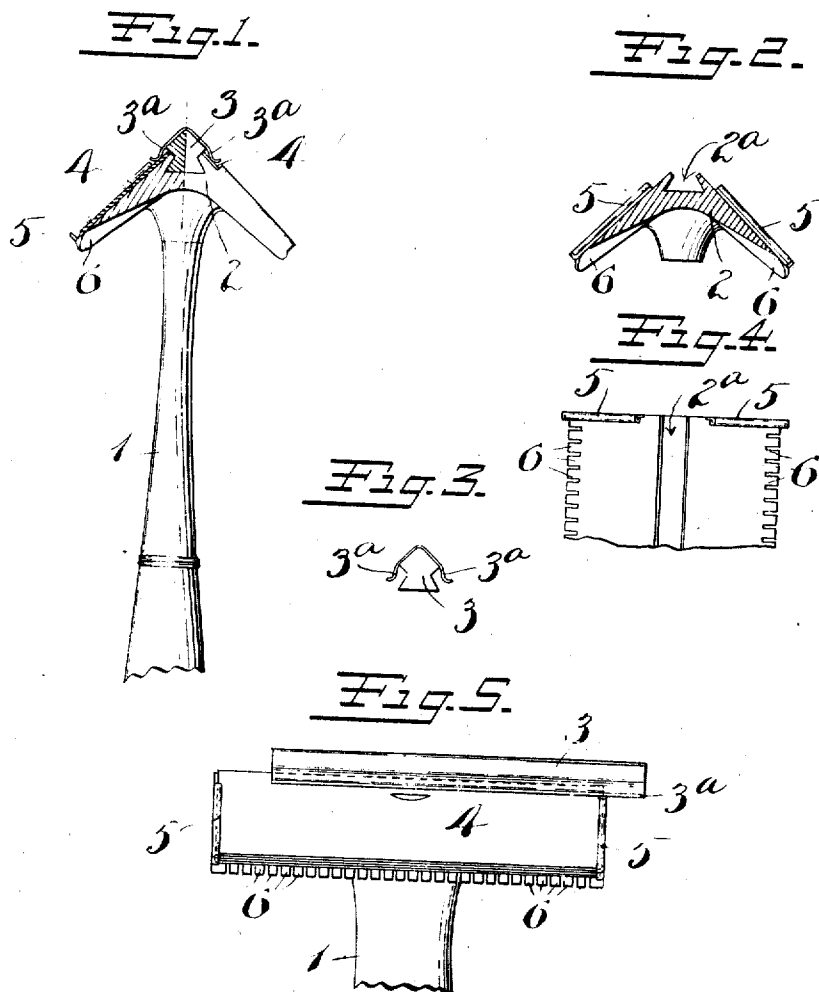


935,032.

Patented Sept. 28, 1909.



Witnesses:
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UNITED STATES PATENT OFFICE.

LEON KNASTER, OF HOBOKEN, NEW JERSEY.

SAFETY-RAZOR.

935,032.

Specification of Letters Patent. Patented Sept. 28, 1909.

Application filed June 5, 1909. Serial No. 500,371.

To all whom it may concern:

Be it known that I, LEON KNASTER, a citizen of Russia, residing at Hoboken, county of Hudson, State of New Jersey, have invented certain new and useful Improvements in Safety-Razors, of which the following is a full, clear, and exact description.

My invention relates to safety razors.

The object is to improve and simplify the construction.

Various advantages of the device will be apparent from a reading of the following description and an examination of the accompanying drawings.

In the drawings, Figure 1 is an edge elevation, partly in section, a portion of the handle being broken away, said view being slightly enlarged. Fig. 2 is a section of the blade supporting head with the blade-locking key removed. Fig. 3 is an end elevation of the blade-locking key detached. Fig. 4 is a plan view of Fig. 2. Fig. 5 is a front elevation, the blade-locking key being partially displaced.

1 is a handle.

2 is a head, the opposite outer surfaces of which are arranged at substantially right angles to each other so as to form a ridge. The ridge is provided with an elongated undercut groove 2^a in which the blade-locking key 3 is located when the parts are assembled.

4—4 are blades supported on the outer surfaces of the head 2.

5—5 are blade guides at each end of each blade supporting surface into the embrace of which the blades may be slid from the ridge. The lower end of each clip 5 is turned in to engage the cutting edge of the blade at each corner, serving thereby to position the cutting edge of the blade properly with respect to the guards 6—6 and also serving to prevent the user from becoming injured by the corners of the blade. Between the guards 6—6, a multitude of clearance slots are provided to permit the lather to escape as the razor is being used. The blade-locking key 3 is preferably provided with flexible spring clips 3^a—3^a, which, when the key is in place as shown in Fig. 1, each rests upon its respective blade, holding the same firmly down upon the surface of the blade supporting head. These clips 3^a may be

made integral with the blade-locking key 3, if desired, but that is immaterial.

From the foregoing it will be at once apparent that the article is provided with two blades always ready for use. Each of these blades is arranged at a suitable angle relatively to the handle so that shaving may be accomplished without any special effort on the part of the user to incline the blade properly during the shaving operation. The undercut groove 2^a may be of any suitable cross section but, for convenience of illustration, I have shown the same dovetailed. In Fig. 5 the key 3 is shown as partially removed to illustrate the direction of movement of the key during the process of locking or unlocking the blades. Looking at Fig. 1, it will be observed that the upper ends of the end clips 5—5 terminate at a suitable point below the ridge to afford clearance for the clips 3^a of the locking key. Various changes may be made without departure from the spirit or scope of this invention.

What I claim is:

1. A safety razor comprising a blade supporting head having oppositely extending blade supporting surfaces, a clip at each end of each blade supporting surface arranged to receive the adjacent end of a blade, a blade-locking key carried by said head the head being provided with means to interlock with the key at the rear edges of said blades, and a plurality of guards at the opposite edge of each blade supporting surface.

2. A safety razor comprising a blade supporting head having oppositely inclined blade supporting surfaces, a clip at each end of each blade supporting surface arranged to receive the adjacent end of a blade, a blade-locking key carried by said head, the head being provided with means to interlock with the key at the meeting angle of said blade supporting surfaces, a plurality of guards along the opposite edge of each blade supporting surface.

3. A safety razor comprising a blade supporting head having oppositely inclined blade supporting surfaces, a clip at each end of said blade supporting surfaces arranged to receive the adjacent end of a blade, and means to cover and protect each corner of the blade at its cutting edge, a blade-locking key carried by said head, the head being

provided with means to interlock with the key at the meeting angle of said blade supporting surfaces and a plurality of guards along the opposite edge of each blade supporting surface.

4. A safety razor comprising a blade supporting head having two oppositely inclined blade supporting surfaces, means carried by each surface to position a blade thereon, a longitudinally movable blade-locking key carried by the head at the meeting angle of said blade-locking surfaces.

5. A safety razor comprising a blade supporting head having two oppositely inclined blade supporting surfaces, means carried by each surface to position a blade thereon, a longitudinally movable blade-locking key carried by the head at the meeting angle of said blade-locking surfaces, clips carried by said blade locking key arranged to overstand the blades.

6. A safety razor comprising a blade supporting head having two oppositely inclined

blade supporting surfaces, means carried by each surface to position a blade thereon, a longitudinally movable blade-locking key carried by the head at the meeting angle of said blade-locking surfaces, flexible clips carried by said blade locking key arranged to overstand the blades.

7. In a safety razor, a blade-supporting head having a blade-supporting portion, a clip at each end of said blade-supporting portion arranged to receive the adjacent end of a blade, a longitudinally movable blade-locking key, said head being provided with means to interlock with the key at the rear of said blade to hold the latter in place, and a plurality of guards along the edge of said blade-supporting portion adjacent to the cutting edge of a blade when the latter is in place.

LEON KNASTER.

Witnesses:

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