

H. G. COOK.  
SAFETY RAZOR.  
APPLICATION FILED JAN. 17, 1910.

984,800.

Patented Feb. 21, 1911.

Fig. I.

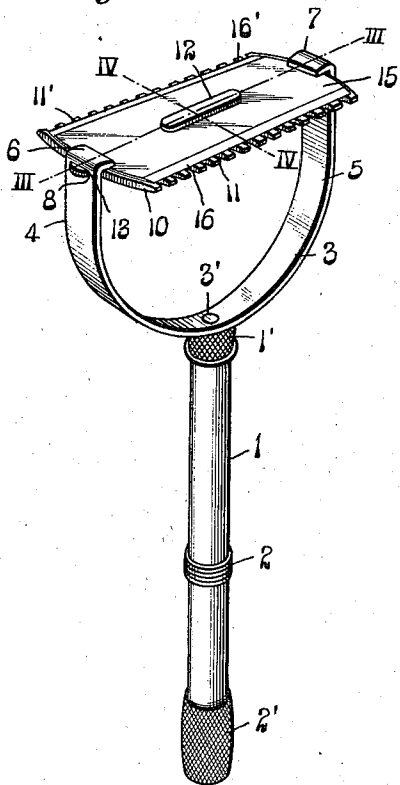


Fig. IV.

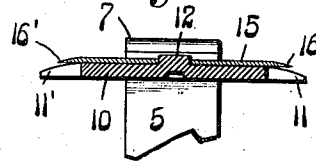


Fig. II.

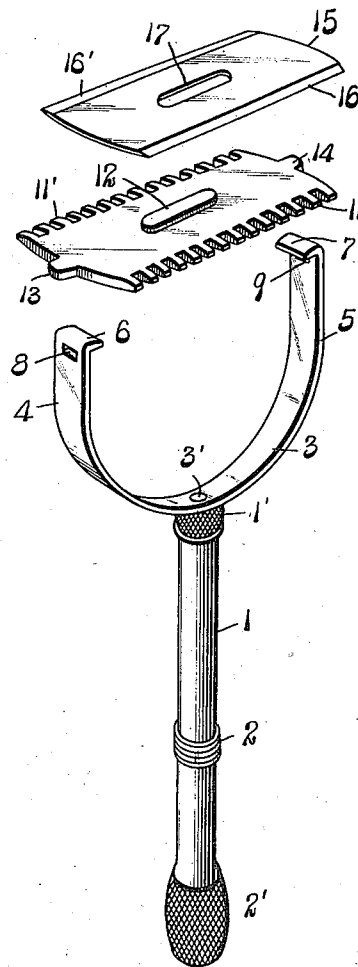
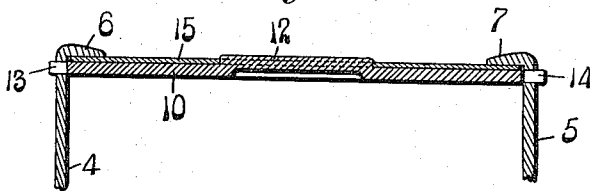


Fig. III.



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# UNITED STATES PATENT OFFICE.

HOWARD G. COOK, OF ST. LOUIS, MISSOURI.

SAFETY-RAZOR.

984,800.

Specification of Letters Patent. Patented Feb. 21, 1911.

Application filed January 17, 1910. Serial No. 538,468.

*To all whom it may concern:*

Be it known that I, HOWARD G. COOK, a citizen of the United States of America, residing in the city of St. Louis and State of Missouri, have invented certain new and useful Improvements in Safety-Razors, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to an improvement in safety razors, and has for its object to produce a safety razor of simple and inexpensive construction, and one which may be readily taken apart and quickly assembled, and one which, when taken apart, will occupy but a small amount of space.

Figure I is a perspective view of my improved safety razor. Fig. II is a perspective view showing the blade removed from the guard plate and the guard plate removed from the holder. Fig. III is an enlarged longitudinal detail section taken on line III—III, Fig. I. Fig. IV is an enlarged vertical cross section taken on line IV—IV, Fig. I.

In the accompanying drawings: 1 designates a handle of tubular form, preferably constructed of two sections joined together in any suitable manner, such as by a screw threaded connection, as seen at 2. Milled gripping portions may also be provided, as seen at 1' and 2'.

3 designates a guard yoke or holder provided with a screw threaded opening into which the handle 1 is inserted, as seen at 3', the said yoke being provided with inwardly pressing spring arms 4 and 5, the upper or outer ends of which are bent over and inwardly at substantially right angles to the arms 4 and 5, forming retaining fingers 6 and 7.

8 and 9 are slots in the spring arms 4 and 5 at a point intermediate of their ends, and just beneath the fingers 6 and 7.

10 designates a guard plate provided with serrations or teeth, 11 and 11' on two of its edges. The upper surface of the guard plate is preferably beveled on each of its edges and provided with teeth 11 and 11' from a point extending outwardly approximately beginning with the depth of the interstices between said teeth. This provides a desirable clearance between the cutting edges of the blade and the surface of the

faces of said teeth on said guard plate (see Fig. IV).

12 is a boss on the upper face of the guard plate 10.

13 and 14 are extensions provided on the ends of the guard plate 10 and adapted to fit within the slots 8 and 9 of the spring arms 4 and 5.

15 designates a blade provided with two cutting edges 16 and 16', and being further provided with a slot 17 which is adapted to receive the boss 12 on the guard plate 10 so as to interlock therewith.

To assemble the parts, the blade 15 is placed on the upper surface of the guard plate 10, the boss 12 entering the slot 17, thus restraining the sidewise movement of the blade relative to the guard plate. The spring arms 4 and 5 of the holder 3 are then sprung apart and the extensions 13 and 14 are inserted into the slots 8 and 9 in said spring arms, the arms being then released, thus gripping the guard plate and blade between them. The fingers 6 and 7 are brought by this action into bearing contact with the upper surface of the blade 15 and serve to restrain said blade from any upward movement, and thus securely hold said blade in position upon the guard plate.

While I have shown and described a spring yoke or holder provided with two spring arms, it is apparent that the same result could be secured by having only one of the arms a spring arm, the other arm being stiff or rigid.

I claim:

1. In a safety razor, the combination of a spring yoke comprising a pair of arms provided with slots and retaining fingers, a guard plate provided with extensions seated in the slots and detachably fitted to the spring yoke and held between the arms of the latter by the inherent spring power in the spring yoke, and a blade held in position by the retaining fingers.

2. In a safety razor, the combination of a normally contracted spring yoke comprising a pair of arms provided with slots, retaining fingers carried by said arms, a guard plate held between said arms by the inherent spring power in the yoke, extensions on the side of the guard plate seated in the slots in said arms, a blade, and means for interlocking said blade with said guard plate and retained on said guard plate by

the retaining fingers on the arms of said yoke, substantially as described.

3. In a safety razor, the combination of  
5 a normally contracted spring yoke comprising a pair of arms provided with slots, retaining fingers carried by said arms, a  
guard plate clamped between said arms by  
the inherent spring power in the yoke, said  
guard plate being provided with central  
10 extensions seated in the slots in said arms,  
a boss on one face of said guard plate, and

a blade seated on said guard plate and provided with a slot with which the boss on said guard plate interlocks, said blade being retained on said guard plate by the retaining fingers on the arms of said yoke,  
substantially as described. 15

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In the presence of—

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