

UNITED STATES PATENT OFFICE.

EGON LOTHAR SCHMITZ, OF NEW YORK, N. Y.

SAFETY-RAZOR.

SPECIFICATION forming part of Letters Patent No. 484,116, dated October 11, 1892.

Application filed April 15, 1892. Serial No. 429,359. (No model.)

To all whom it may concern:

Be it known that I, EGON LOTHAR SCHMITZ, a subject of the Emperor of Germany, and a resident of the city of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Safety-Razors, of which the following is a specification.

This invention relates to that class of razors that are known as "safety-razors;" and the object of my invention is to provide a razor of this kind which is simple in construction and in which the blade can be readily adjusted to project more or less over the guard.

The invention consists in a safety-razor constructed with a casing having a comb on its front and blade-holding lugs on the upper edges of the end pieces, a blade-holding plate pivoted in the casing, a screw in the bottom of the casing and acting on said blade-holding plate, and a screw on said blade-holding plate, which latter screw bears against the back of the blade and holds the same in place.

The invention also consists in the construction and combination of parts and details, which will be fully described hereinafter, and finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a perspective view of my improved safety-razor. Fig. 2 is a vertical transverse sectional view of the same. Fig. 3 is a rear view of the same, and Fig. 4 is a front view.

Similar letters of reference indicate corresponding parts.

The casing A is composed of two end plates A', each provided at the upper edge with an inwardly-bent blade-holding lug A², the bottom A³, the rear flange A⁴, and the front A⁵, which parts A', A², A³, A⁴, and A⁵ are made integral and of a single piece of metal. The upper edge of the front A⁵ is provided with a number of inclined slits forming teeth a, and said teeth are bent on a curved line, so as to form a comb or guard C, having curved teeth, the upper parts of which are horizontal or parallel with the base. Near the upper edges of the end pieces A' the blade-supporting plate D is pivoted by means of end pivots D', made integral with the supporting-plate and projecting through apertures in the end plates. Said blade-supporting plate is provided on its

rear edge with a downwardly-projecting flange D², from the bottom edge of which a central arm E projects toward the front, which arm rests upon the pointed upper end of a screw E, passed through the screw-threaded block F', held in the upper end of a threaded neck G, projecting from the bottom of the casing A. The screw E is provided on its lower end with a head E', to permit of turning the same. The tubular handle H has a screw-threaded upper end that can be screwed on the neck G. The screw L has a head M screwed through a threaded aperture in the back flange D² of the blade-supporting plate and at its head is provided with a large shoulder that can bear on the rear edge of the blade S. The screw L is screwed outward as far as possible and the screw E is screwed downward, so as to permit the blade-holding plate D to swing down. The blade S is then placed upon said blade-holding plate in such a manner that it passes under the holding-prongs A² and at its front edge rests upon the flat upper portions of the guard or comb C. The screw L is then tightened, so as to bear against the rear edge of the blade, and the screw E is adjusted higher or lower, so as to give the blade the proper inclination and to adjust the same toward the front more or less. By means of the screws F and L the blade can thus be adjusted to project to a greater or less distance, thus adapting the razor for a more or less close shave. The inclined teeth of the comb do not interfere with the free action of the blade and give sufficient passages for the lather into the holder.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. In a safety-razor, the combination of a blade-holding casing having a vertical front plate provided in its upper portion with outwardly-curved bulging teeth integral with said plate, the upper portion of said teeth forming a flat rest for the cutting-edge of the blade, blade-retaining lugs projecting from the upper edges of the end pieces, a hinged blade-supporting plate having a forwardly-projecting arm at its bottom edge, a blade-holding screw in said plate, a screw in the bottom neck of the casing and bearing against the arm of

the blade-supporting plate, and a handle adapted to be applied on said bottom neck, substantially as described.

2. In a safety-razor, the combination, with
5 a casing provided with a fixed comb and retaining-lugs at the upper edges of the end pieces, of a pivoted blade-supporting plate in said casing, which blade-supporting plate is capable of moving independently of the comb,
10 a blade-retaining screw held in said pivoted supporting-plate, and a separate screw for adjusting said supporting-plate, which separate screw is screwed through the bottom of the casing, substantially as set forth.

15 3. In a safety-razor, the combination, with a casing provided with a comb or guard and

with blade-retaining lugs projecting from the upper edges of the end pieces, of a hinged blade-supporting plate provided with a forwardly-projecting arm at its bottom edge, a
20 blade-holding screw in said plate, a screw in a bottom neck of the casing and bearing against the arm of the blade-supporting plate, and a handle adapted to be applied on said bottom neck, substantially as set forth. 25

In testimony that I claim the foregoing as my invention I have signed my name in presence of two subscribing witnesses.

E. LOTHAR SCHMITZ.

Witnesses:

OSCAR F. GUNZ,
CHARLES SCHROEDER.