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PATENTED APR. 16, 1907.

F. J. HALBEKANN.  
SHAVING APPARATUS.  
APPLICATION FILED SEPT. 14, 1906.

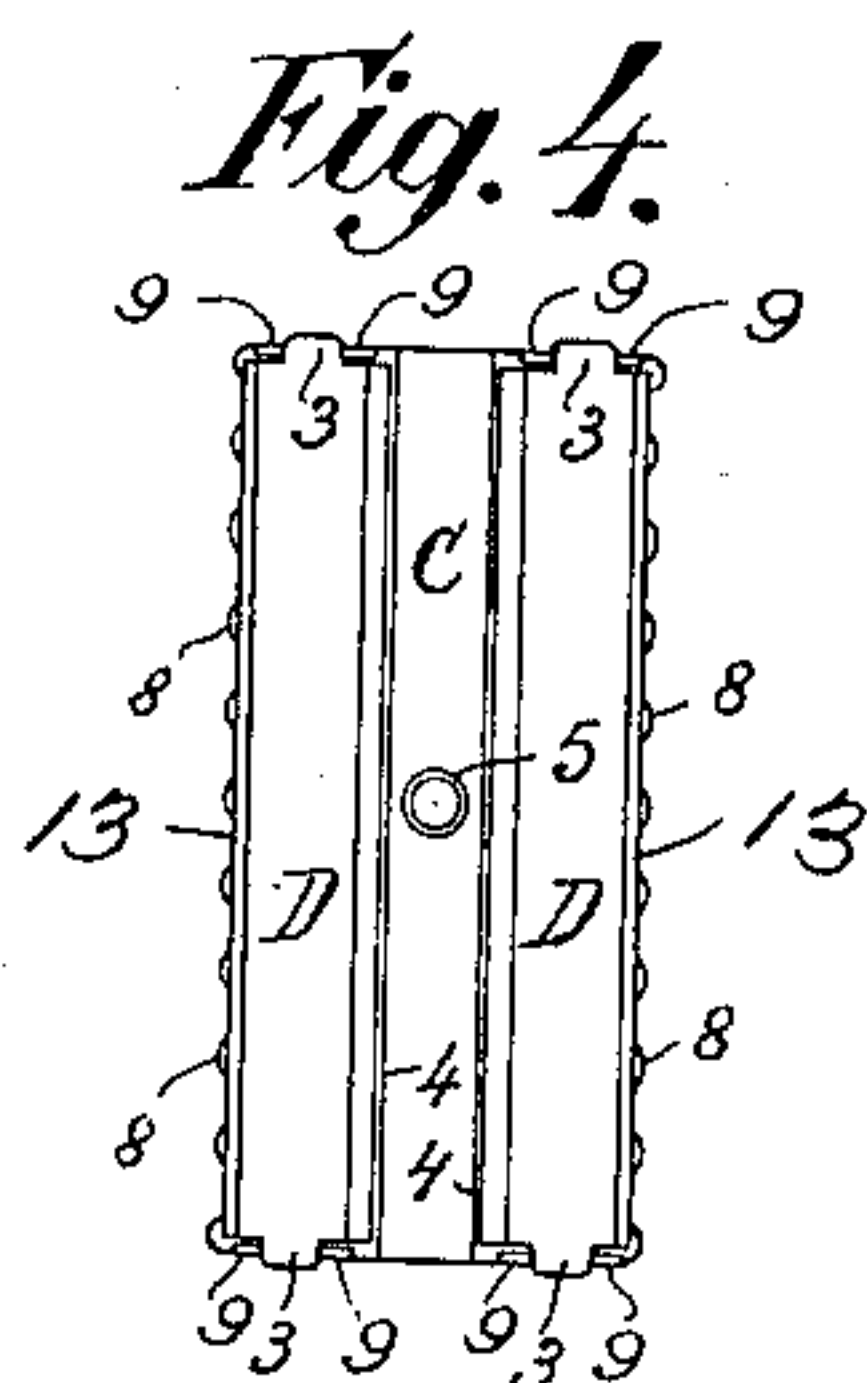
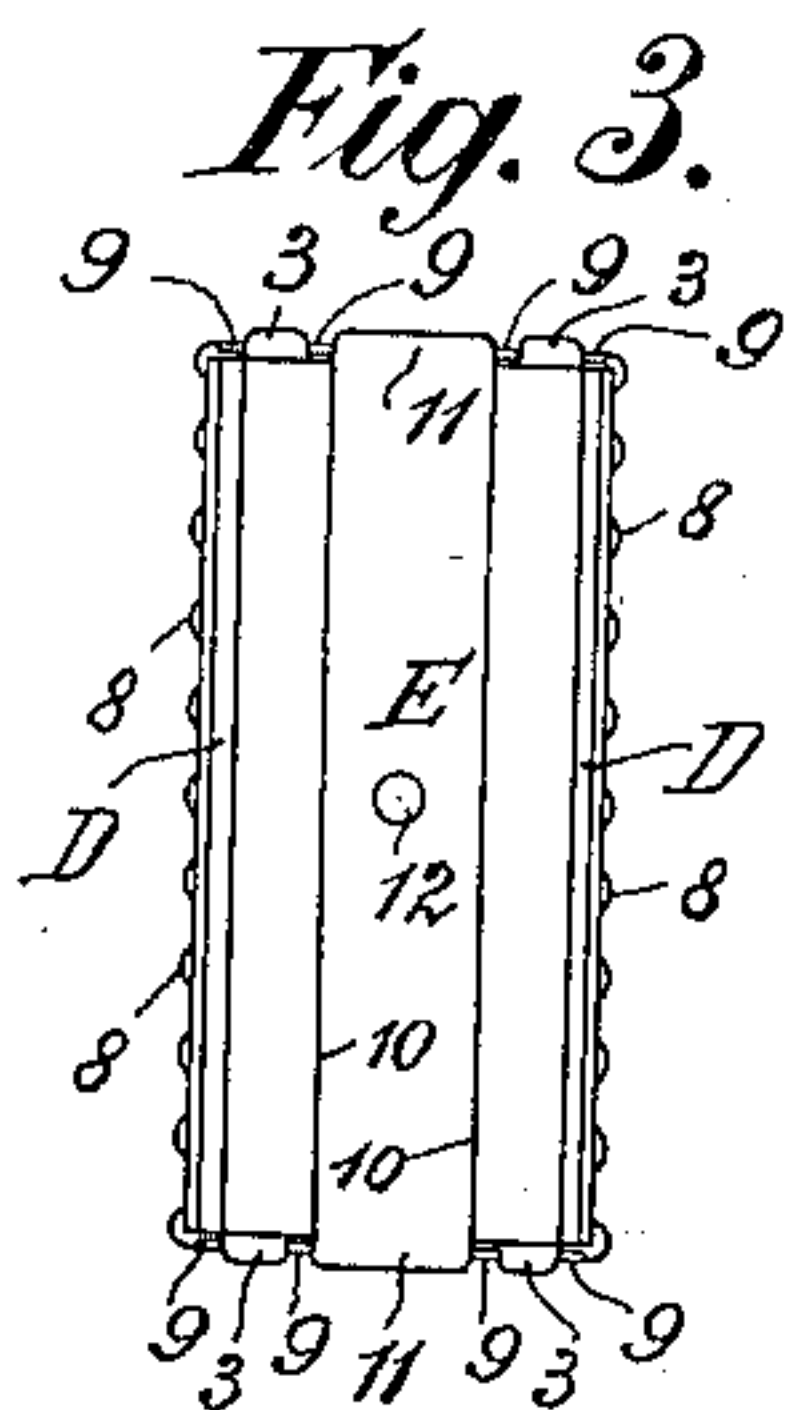
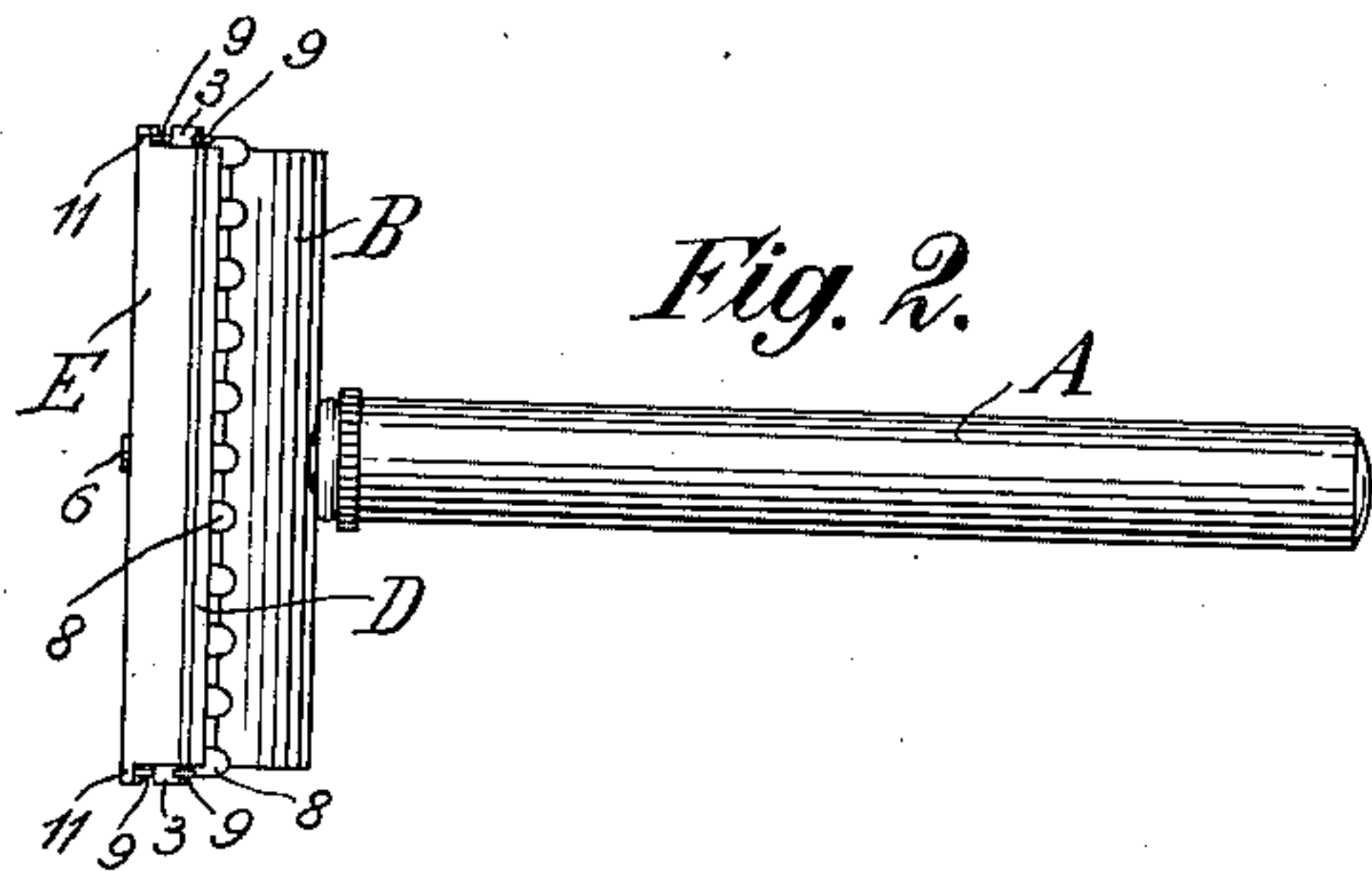
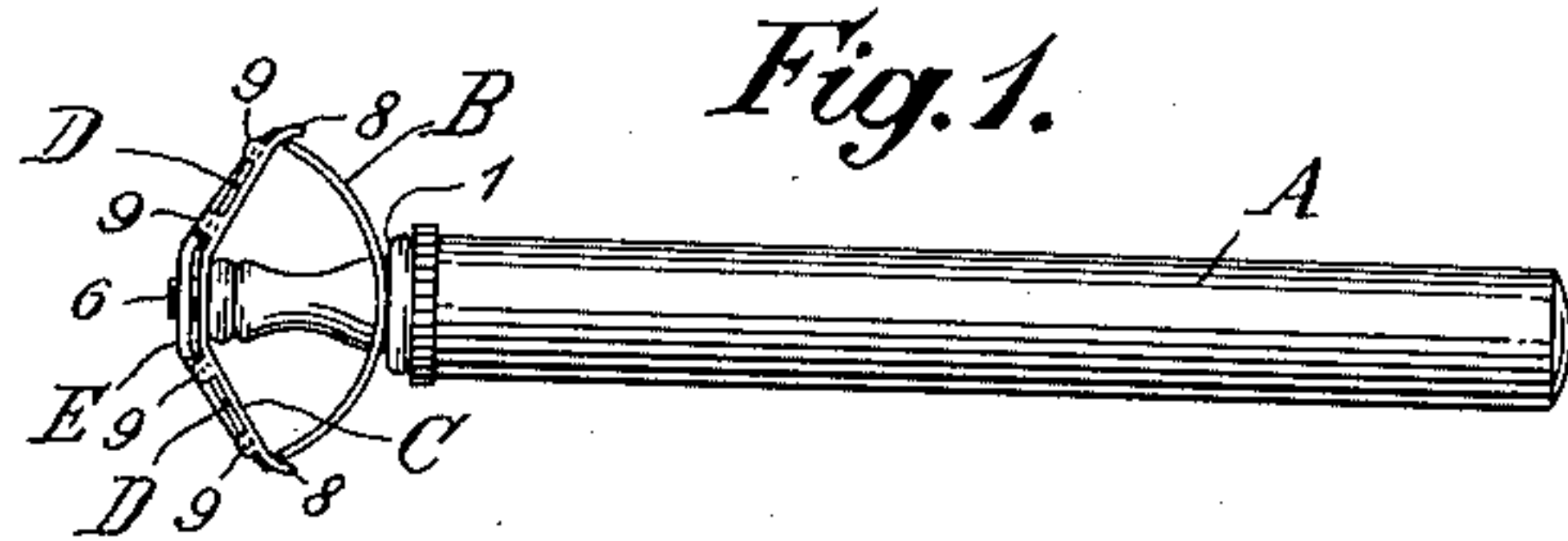


Fig. 5.

Witnesses:  
Eugene Duns  
Paul Pittbach

Fig. 6.

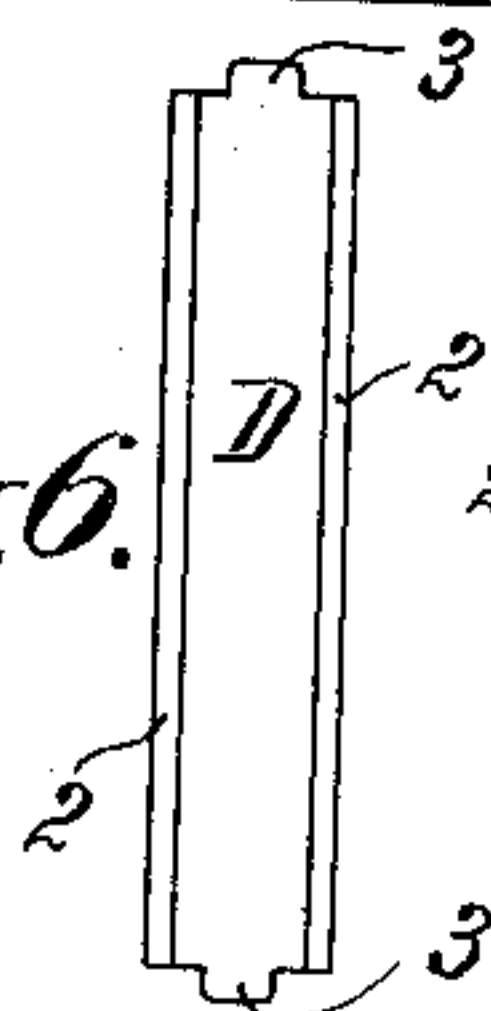


Fig. 7.

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# UNITED STATES PATENT OFFICE.

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## SHAVING APPARATUS.

No. 850,430.

Specification of Letters Patent.

Patented April 16, 1907.

Application filed September 14, 1906. Serial No. 334,588.

*To all whom it may concern:*

Be it known that I, FRANZ JOSEF HALBEKANN, a citizen of the Empire of Germany, residing at Solingen, in the Empire of Germany, have invented a new and useful Shaving Apparatus, of which the following is a specification.

My invention relates to a shaving apparatus with two reversible blades, each of which has two parallel cutting edges, so that always two cutting edges at a time are available and may be used one after the other and that on becoming blunt they can be quickly replaced by two sharp edges by merely reversing the two blades.

I will now proceed to describe my invention with reference to the accompanying drawings, in which—

Figure 1 is a side view of the complete shaving apparatus. Fig. 2 is another view of the same seen from above in Fig. 1. Fig. 3 is a top view of the same seen from left in Fig. 1. Fig. 4 is a similar view after a cover has been taken off. Fig. 5 is an elevation of the handle. Fig. 6 is an elevation of a reversible blade, and Fig. 7 is an end view of the same.

Similar characters of reference refer to similar parts throughout the several views.

The shaving apparatus consists of a handle A, a support B, a blade-holder C, two blades D D, and a cover E. The support B is an elastic rectangular metallic plate which is bent in the manner shown in Fig. 1 and is in its middle provided with a hole, through which the thinner part of the handle A in Fig. 5 up to its shoulder 1 can pass. The two blades D D are alike and are each provided with two long parallel cutting edges 2 and with two projections 3 3 on the two short sides. The blade-holder C is a substantially rectangular metallic plate which is bent in two lines 4 4, Fig. 4, near its middle and also in two other lines, (beneath the lines 13 in Fig. 4,) all these lines being parallel to the latter. In the middle of the blade-holder C a hole 5 is provided, through which the screw-threaded end 6 of the handle A up to its shoulder 7, or nearly so, can pass. The two longitudinal edges of the blade-holder C are so cut out as to form two series of projecting-ears 8 8, which project beyond the corresponding two edges of the support B if the two parts B and C are put together in the

manner shown at Fig. 1. The two short sides of the blade-holder C are each provided with four upwardly-projecting studs 9 9. The two projections 3 3 of each blade D are each made to nicely fit between two of the studs 9 9 of the blade-holder C, (see Fig. 4,) so that the two blades D D are thereby prevented from shifting in the cross direction. They will then invariably occupy their correct positions. The cover E is a substantially rectangular metallic plate which is bent in two lines 10 10 parallel to its two long sides and is on its two short sides provided with two projections 11 11. These two projections 11 11 are made to nicely fit between the four internal studs 9 9 of the blade-holder C, as is clearly shown at Figs. 2 and 3. In the middle of the cover E a screw-threaded hole 12 is provided, into which the screw-thread of the end part 6 of the handle A can engage.

The shaving apparatus is composed as follows: First, the support B is put over the thinner part of the handle A until it bears against the shoulder 1 of the latter. Then the blade-holder C is put over the screw-threaded part 6 of the handle A and is made to rest on the two longitudinal edges of the support B in the manner shown at Fig. 1. Preferably the blade-holder C in this position is made not yet to bear against the shoulder 7 of the handle A, so that the two parts B and C may be spread a little on being compressed, and thus they may be reliably connected in a manner to be presently described. Next the two blades D D are put on and made to engage with their projections 3 3 between the studs 9 9 of the blade-holder C in the manner described above. At last the cover E is put on and the handle A is turned so that its screw-thread 6 may engage in the screw-threaded hole 12 of the cover E. By screwing home the handle A not only the cover E and the blade-holder C will be compressed for tightening the two blades D D, inserted between them, but also the blade-holder C will be pressed on the support B, so that these two parts B and C may be a little spread. In this manner the several parts of the shaving apparatus will be prevented from getting loose during use. It will be seen that the shaving apparatus so composed will present two parallel cutting edges without the cover E. These two sharp edges may be used without further trouble one after the other



for shaving oneself in a known manner, the ears 8 8 serving for protecting the skin from cuts.

After both cutting edges of the two blades 5 D D have become blunt it is easy to unscrew the handle A and to take off the cover E, then to reverse the two blades D D and to replace the cover E, after which the handle A is screwed home. Now the shaving apparatus 10 will present two fresh sharp edges without the cover E. Thus on the shaving apparatus in all, four cutting edges are provided, which may be used one after the other without sharpening. This shaving apparatus is safe, simple, and cheap.

I claim—

1. In a shaving apparatus, the combination with a support provided with a central hole, of two blades each having two parallel cutting edges, a blade-holder provided with a central hole and adapted to rest on said support and to reversibly hold said two blades, a cover provided with a central hole and adapted to cover said two blades while allowing their external cutting edges to project, and a handle engaging in the holes of said support, said blade-holder and said cover, adapted to compress said parts for tightening said two blades.

2. In a shaving apparatus, the combination with a rectangular metallic plate bent to form a channel and provided with a central hole, of two blades each having two parallel cutting edges, a blade-holder provided with a central hole and adapted to rest on the longitudinal edges of said rectangular metallic plate and to reversibly hold said two blades, a cover provided with a central hole and adapted to cover said two blades while allowing their external cutting edges to project, and a handle engaging in the holes of said rectangular metallic plate, said blade-holder and said cover, adapted to compress said parts for tightening said two blades.

3. In a shaving apparatus, the combination with a rectangular metallic plate bent to form a channel and provided with a central hole, of two blades each having two projections at both ends and two parallel cutting edges, a blade-holder adapted to rest on the longitudinal edges of said rectangular metallic plate and consisting of a substantially rec-

tangular metallic plate which is longitudinally bent in four parallel lines, and is provided with a central hole, also with a plurality of protecting-ears along the long sides and with eight studs on the two short sides, the eight studs of said blade-holder being adapted to reversibly hold the projections of said two blades, a cover provided with a central screw-threaded hole and adapted to cover said two blades while allowing their external cutting edges to project, and a handle provided with a shoulder and with a screw-threaded end which is adapted to engage through the holes of said rectangular metallic plate and said blade-holder into the screw-threaded hole of said cover, said handle being adapted by means of its shoulder to compress all the parts for tightening said two blades.

4. In a shaving apparatus, the combination with a rectangular metallic plate bent to form a channel and provided with a central hole, of a blade-holder adapted to rest on the longitudinal edges of said rectangular metallic plate and consisting of a substantially rectangular metallic plate which is longitudinally bent in four lines and is provided with a central hole, also with a plurality of protecting-ears along the long sides and with eight studs on the two short sides, two blades each having one projection on each of the ends and two parallel cutting edges, they being adapted to reversibly engage with their projections between the eight studs of said blade-holder, a cover provided with a central screw-threaded hole and with two projections and adapted to engage with its projections between the eight studs of said blade-holder and to cover said two blades while allowing their external cutting edges to project, and a handle provided with a shoulder and with a screw-threaded end which is adapted to engage through the holes of said rectangular metallic plate and said blade-holder into the screw-threaded hole of said cover, said handle being adapted by means of its shoulder to compress all the parts for tightening said two blades.

FRANZ JOSEF HALBEKANN.

Witnesses:

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