May 20, 1930. E. AARON 1,758,915

RAZOR BLADE SHARPENER

Filed Aug. 8, 1929

Fig. 1.

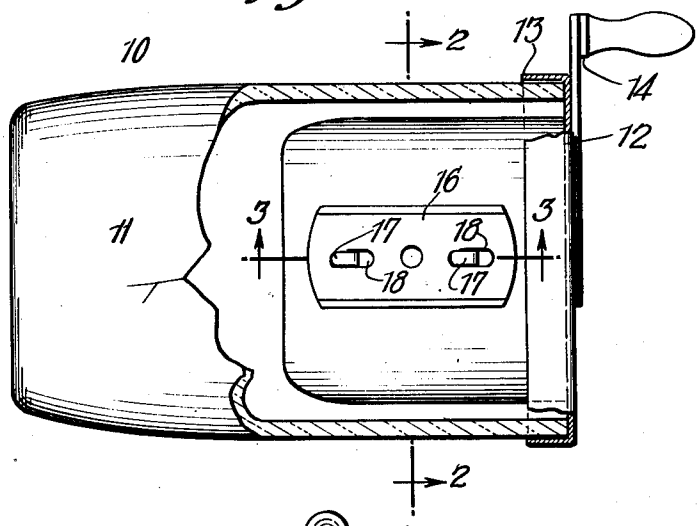


Fig. 2.

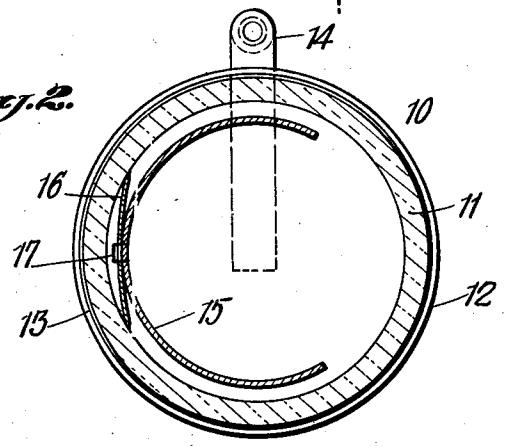
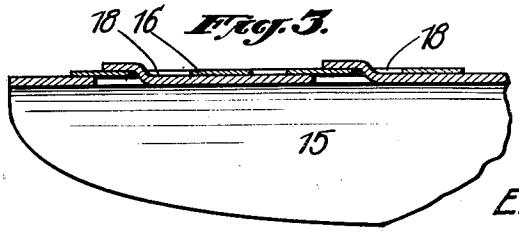


Fig. 3.



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UNITED STATES PATENT OFFICE

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RAZOR-BLADE SHARPENER

Application filed August 8, 1929. Serial No. 384,403.

This invention relates to improvements in razor blade sharpening devices.

The primary object of the invention resides in a razor blade sharpening device for maintaining a keen edge upon a safety razor blade by which the life of a blade may be prolonged.

Another object of the invention is to provide a safety razor blade sharpener including a hollow body in the nature of a glass cylinder, and a rotatable cover closing one end of the body and provided with means for supporting and maintaining a razor blade in sharpening contact with the inner annular smooth wall of the body.

A further object is the provision of a sharpening device which is simple of construction, inexpensive of manufacture, and easy and efficient of operation.

With these and other objects in view, the invention resides in the certain novel construction, combination and arrangement of parts, the essential features of which are hereinafter fully described, are particularly pointed out in the appended claims, and are illustrated in the accompanying drawing, in which:

Figure 1 is a side elevational view partly in section of my improved safety razor sharpening device.

Figure 2 is a vertical transverse sectional view on the line 2—2 of Figure 1.

Figure 3 is a detail longitudinal sectional view on the line 3—3 of Figure 1.

Referring to the drawings by reference characters, the numeral 10 designates my improved razor blade sharpening device in its entirety, which includes a cylindrical hollow body 11 which may be constructed of glass or any other material having an annular inner smooth wall for a purpose to be hereinafter appreciated.

One end of the cylindrical body is open and fitting thereover is a cap or cover 12, the same having an inwardly extending flange 13 which telescopes the annular wall of the body and by which the cap is rotatably and detachably mounted to the body. Fixed to the outer side of the cap 12 is a crank handle 14, by which the said cap may be manually rotated during a blade sharpening operation.

Extending inwardly from the cap 12 is a portion 15 which constitutes the blade holder and which is substantially semi-circular in cross section as best seen in Figure 2, the curvature of the portion being on an axis of the longitudinal center of the body 11. The portion 15 is in spaced relation to the inner annular wall of the body 11 for the purpose of supporting a safety razor blade 16 in a slightly flexed condition with the knife edges of the blade in frictional or sharpening contact with the inner annular wall of the body. The blade 16 is supported in position upon the crest of the blade holder 15 by stamping out tongues 17 which tongues pass through openings 18 in the safety razor blade 16. The blade is applied to its holder by sliding the same longitudinally so that the tongues 17 pass through the openings 18 and overlie portions of the body of the blade.

Assuming that a blade 16 has been applied to the blade holder 15 in the manner just described, which is accomplished by removing the cap or cover 12, after which the said cap or cover is replaced and rotation is imparted to the cap by manually grasping the handle 14 and turning the same. As previously stated, the knife edges of the blade are in contact with the inner smooth annular wall of the body, and by rotating the same a keen or sharp edge will be produced. The cap may be rotated first in one direction for any desired number of revolutions, and the rotation reversed in order that both sides of the edge may be evenly sharpened. After one of the sides of the edges of the blade has been sharpened, the said blade may be reversed in order to evenly sharpen the edges of the opposite side.

From the foregoing description it will be seen that I have provided a simple and inexpensive razor blade sharpener which is easy in operation and which will remain in working order during all times, as there are no delicate or intricate parts to become worn or out of order.

Having thus described the invention, what

I claim as new and desire to secure by Letters Patent is:—

1. A razor blade sharpening device comprising a cylindrical body open at one end, a cap rotatably mounted on the open end of said body, manipulating means for rotating said cap, and razor blade supporting means carried by said cap for supporting a razor blade with its knife edge or edges in bearing contact with the inner periphery of said cylindrical body.

2. A razor blade sharpening device comprising a hollow body having a smooth annular inner wall, a cap removably and rotatably mounted on said body, a manipulating handle fixed to said cap, and a razor blade supporting means on said cap for supporting a safety razor blade with its knife edge or edges in contact with the annular inner walls of said body.

3. A razor blade sharpening device comprising a hollow body having a smooth annular inner wall, a cap removably and rotatably mounted on said body, a manipulating handle fixed to said cap, a razor blade supporting means on said cap for supporting a safety razor blade with its knife edge or edges in contact with the annular inner walls of said body, said razor blade supporting means including a portion extending into said body in spaced parallel relation to the inner wall thereof, and blade receiving tongues rising from said portion.

4. A razor blade sharpening device comprising a cylindrical glass body open at one end, a cover closing the open end of said cylindrical glass body and rotatably mounted thereon, a crank handle provided on said cover by which manual rotation may be imparted to said cover, a portion extending from said cover into said cylindrical glass body in parallel spaced relation to the inner walls thereof, and means on said portion for removably receiving and supporting a safety razor blade with its knife edge or edges in sharpening contact with the inner walls of said glass body.

In testimony whereof I affix my signature.

EMANUEL AARON.