Nov. 12, 1957 J. C. ABBOTT ET AL 2,812,575

RAZOR BLADE COUNTER

Filed Nov. 4, 1954

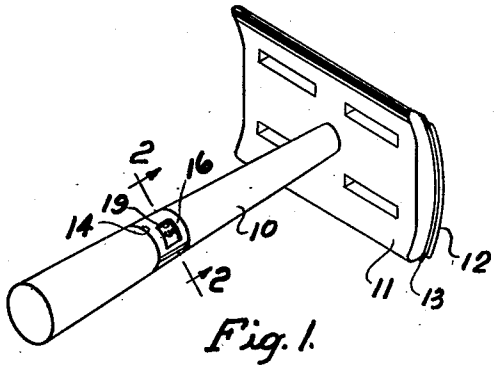


Fig. 1.

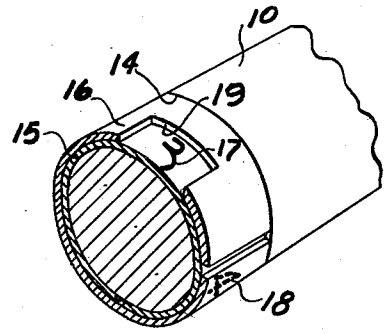


Fig. 2.

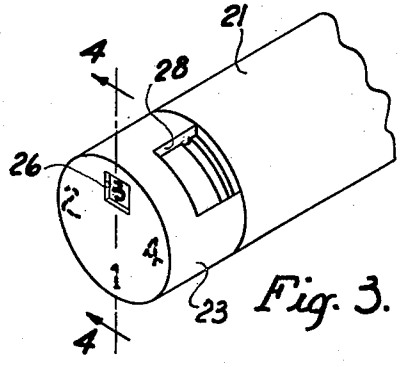


Fig. 3.

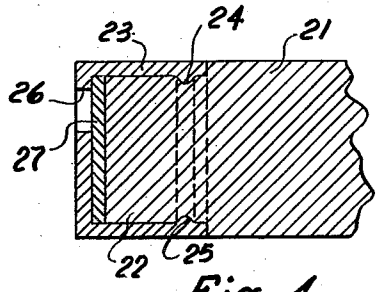


Fig. 4.

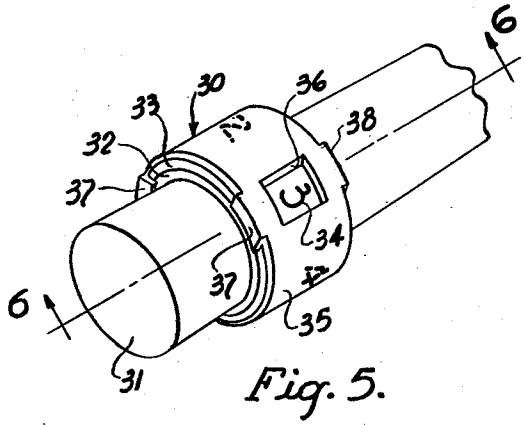


Fig. 5.

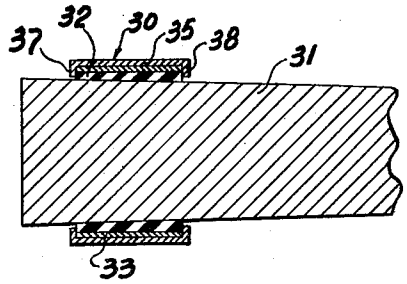


Fig. 6.

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United States Patent Office 2,812,575 Patented Nov. 12, 1957

2,812,575

RAZOR BLADE COUNTER

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Application November 4, 1954, Serial No. 466,820

2 Claims. (Cl. 30—34)

This invention relates to a razor blade counter.

It is an object of the present invention to provide a razor blade counter that is provided on the handle of the razor and by which the number of shaves taken by the user of the razor can be recorded and in order to give an indication as to whether the blade in the razor is new or old.

It is another object of the invention to provide a razor blade counter in the form of an annular assembly adapted to be fitted over the end of the handle and frictionally secured against axial movement therealong.

It is another object of the invention to provide a razor blade counter for razors which is so built into the handle of the razor as not to interfere with the use of the razor or be adjusted while in use accidentally.

Other objects of the invention are to provide in a counter adapted to be secured to the handle of a safety razor which is of simple construction, inexpensive to manufacture, has a minimum number of parts, compact, easy to read, easy to adjust, durable, efficient and effective in use.

For a better understanding of the invention, reference may be had to the following detailed description taken in connection with the accompanying drawing, in which:

Figure 1 is a perspective view of a razor having the blade counting device fitted within the groove in the handle;

Fig. 2 is an enlarged sectional and perspective view taken generally on line 2—2 of Fig. 1;

Fig. 3 is a fragmentary sectional view of the end of a razor handle with a blade counting device secured to the end of the handle;

Fig. 4 is an enlarged vertical sectional view taken on line 4—4 of Fig. 3;

Fig. 5 is a fragmentary perspective view of a handle and of a detachable blade counting device fitted thereover and fitted thereon by frictional engagement with the surface of the handle;

Fig. 6 is a longitudinal sectional view taken on line 6—6 of Fig. 5.

Referring now particularly to Figs. 1 and 2, **10** represents a handle which is secured to blade retaining parts **11** and **12** of the razor in the usual manner and between which a safety razor blade **13** is retained. This handle is generally of the same shape as ordinarily used except there is provided intermediate the length thereof an annular groove **14** into which the counting device of the present invention is fitted. This counting device consists generally of two split rings **15** and **16**. The inner ring has tight frictional engagement with the inner face of the groove **13** and may be of metal or of soft material adapted to have a good grip or frictional engagement with the bottom of the groove **14**. On the outer surface of the inner ring **15** are members or indicia as indicated generally at **17** and **18** to and over which the split ring **17** can be moved to register its window **19** therewith. The number will appear through the window to indicate the number of shaves which has been made with the

particular blade **13** in the razor. Each time the blade is used, the outer ring **16** will be turned to indicate a larger number. There are four numbers on the surface of the inner split ring **15**, only two of which are shown, so that a record of four shaves can be kept with this device upon the razor handle.

Referring now particularly to Figs. 3 and 4, there is shown a modified form of the invention where the blade shave counter is provided on the end of the handle. According to this form of the invention, there is provided a handle **21** having a reduced diameter end **22** upon which a cap **23** is mounted for protection. The portion **22** has a groove **24** and the cap has a projection or annular bead **25** adapted to fit the groove so as to hold the cap **23** against axial displacement from the end portion **22** of the handle. This cap has an opening or window **26** on its end through which a number, or any one of four indicia, can be viewed. The indicia are provided on a plate **27** abutting the end of the reduced diameter portion **22** and contained in the cap. This plate **24** is adhered to the end of the portion **22** and thereby retained against relative rotation. The cap will be rotated over the plate **27**. The cap is provided with openings **28** to lessen the frictional engagement upon the cylindrical surface of the projection **22** and to provide a location for the thumb and finger applied to the cap to turn the same. This cap will be turned after each shave until the indication has been extended to the maximum number on the plate **27**. Any number of shaves can be had with the blade and the same still be recorded, beyond the four numbers already provided, by making additional turns of the cap.

Referring now particularly to Figs. 5 and 6, there is shown a still further form of the invention where the blade shave counter is a separate attachment adapted to fit on the handle of a razor and may be made as a separate assembly, and without changing the construction of the handle. This unit is indicated generally at **30** and is shown assembled upon a handle **31**. This unit **30** has an internal rubber or plastic gripping sleeve **32** which will grip the surface of the handle. Surrounding this rubber or plastic sleeve and adhered thereto is a metal or rigid plastic ring **33** that bears members **34** angularly spaced from each other. An outer sleeve **35** has a window **36** and this sleeve can be rotated or adjusted over the number bearing sleeve **33**. The outer sleeve has depending radially inwardly extending lips **37** and **38** on the opposite ends of the sleeve which are bent inwardly over the edges of the soft rubber or plastic sleeve **32** to have frictional engagement therewith so as to hold the outer sleeve in its adjusted position.

It will be apparent that when the blade counting unit **30** is fitted upon the handle, it will be held by its inner rubber sleeve **32** against sliding along the handle. As the blade is used, the outer sleeve **35** will be adjusted to the different numbers so that the user of the razor can tell quickly how many times the blade has been used.

It should now be apparent that there has been provided a blade counter adapted for use upon the handle of a razor and in a way so as not to interfere with the use of the razor but such that the user of the razor will have available at all times the indication of the number of times the blade has been used. When a new blade is inserted, the ring having the window will be turned to the beginning position, or at some point intermediate two of the numbers.

While various changes may be made in the detail construction, it shall be understood that such changes shall be within the spirit and scope of the present invention as defined by the appended claims.

What is claimed is:

1. A safety razor having a handle, a rubber-like sleeve

frictionally engaging the surface of the handle and surrounding the same, a number bearing sleeve secured about the rubber-like sleeve, and an outer sleeve having a window opening adjustable upon the number bearing sleeve.

2. A safety razor as defined in claim 1, and the outer sleeve having down-turned lips on the ends thereof engageable with the ends of the rubber-like sleeve to hold the outer sleeve in its adjusted position upon the number bearing sleeve.

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