Sept. 9, 1930. J. S. FORBES 1,775,518

MAGNETIC RAZOR CONDITIONING AND DEVICE THEREFOR

Filed March 17, 1927

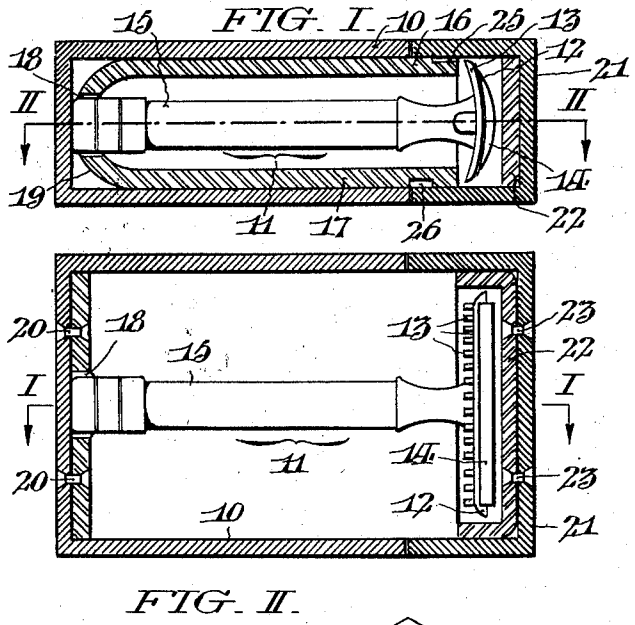


FIG. I.

FIG. II.

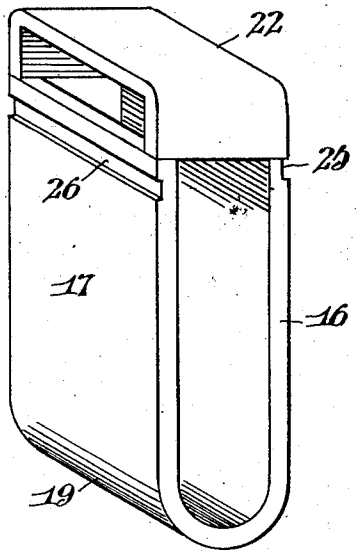


FIG. III.

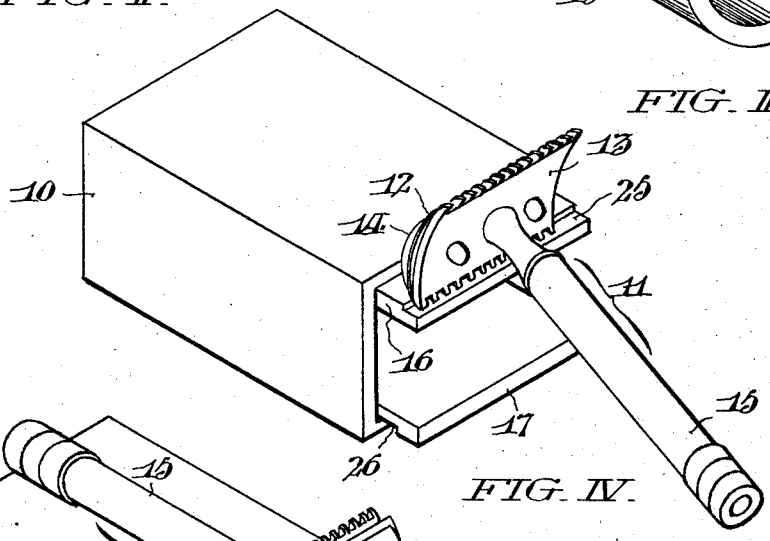


FIG. IV.

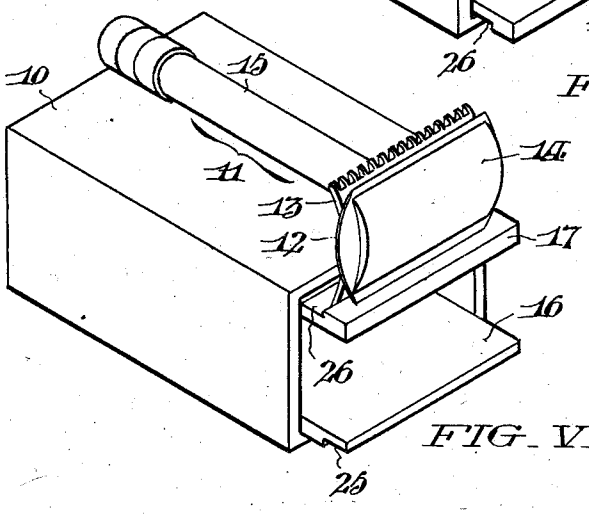


FIG. V.

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Patented Sept. 9, 1930

1,775,518

UNITED STATES PATENT OFFICE

JOHN S. FORBES, OF PHILADELPHIA, PENNSYLVANIA, ASSIGNOR, BY MESNE ASSIGNMENTS, TO YATES & GRANT, INC., OF DETROIT, MICHIGAN, A CORPORATION OF MICHIGAN

MAGNETIC RAZOR CONDITIONING AND DEVICE THEREFOR

Application filed March 17, 1927. Serial No. 176,194.

My invention relates to magnetic razor conditioning, my object being to provide simple and effective means for producing or maintaining a good edge on a razor blade by magnetic influence. How this and other advantages may be realized from my invention will appear from my description hereinafter of a device conveniently embodying it.

In the drawings, Fig. I shows a longitudinal section through a razor case adapted for the purpose of my invention, with a razor therein, the section through the case being taken as indicated by the line I—I in Fig. II.

Fig. II shows a similar section at right angles to that of Fig. I, taken as indicated by the line II—II in Fig. I.

Fig. III is a tilted view of the magnetic means shown in Fig. I, without the case.

Fig. IV is a tilted view of the case and its magnetic means, illustrating one mode of treating a razor blade.

Fig. V is a similar view illustrating another mode of treatment.

The device shown in the drawings comprises a casing 10, of rectangular form, adapted to contain a mounted razor comprehensively indicated as 11, and here shown as of a familiar safety type and form, consisting of a blade 12 and a mounting comprising, as here shown, a pronged guard 13, a curved clamp head 14, and a handle 15 adjustably connected to the head 14. In the present instance, the case 10 also encloses completely the means for creating and applying the magnetic influence, comprising one or more (in the present instance two) magnetic members 16, 17, extending lengthwise of the casing against its opposite sides, with space between them for the razor handle 15. As shown in Fig. I, the spacing of the members 16, 17 and the internal width of the case 10 correspond substantially to the width of the razor blade 12 and its guard 13, while the length of said members 16, 17 corresponds substantially to the length of the handle 15. The end of the handle 15 opposite the blade 12 is held in position by means of a loose fitting socket 18 with which this end of the case 10 is provided. The ends of the members 16, 17 adjacent the blade 12 and the mounting parts 13, 14 may be either of like polarity or of opposite polarity. As shown in Figs. I and II, these members 16, 17 consist of parallel legs of a horseshoe magnet whose bend 19 lies at the inner closed end of the case 10 and has a circular opening therein which forms the socket 18. The horseshoe magnet may be secured in the case 10 in any suitable manner, as by means of rivets 20 through the bend of the magnet and the bottom of the case, Fig. II.

As shown in Fig. I, the spacing of the members 16, 17 is such that the blade and mounting at 12 not only substantially span the ends of such members, but even overlap them. Accordingly, this part of the razor is accommodated in a recessed cover 21 which closes this end of the case. As here shown, the body of the case 10 terminates some distance short of the ends of the members 16, 17, and the cover 21 fits over the projecting ends, which extend the full width of the interior of the case so as to maintain the cover in definite position by their engagement therewithin.

As shown in Figs. I and II, there is a keeper 22 for the magnetic means 16, 17, here shown as recessed to accommodate and enclose the razor mounting, although it need not completely enclose the mounting on all four sides. In the present instance, the keeper 22 is of a form resembling a shallow trough in cross-section, with its ends or "sides" at right angles to the planes of the members 16, 17, so as to engage them endwise at four corners, in the manner illustrated in Fig. III. This keeper 22 is accommodated and preferably secured in the cover 21, as by means of rivets 23.

Ordinarily, the casing 10 with its cover 21 answers the purpose of an ordinary razor case for protecting and carrying the razor 11. When the razor is to be magnetically treated, it is removed from the casing 10 and placed with first one edge and then the other on the end of one of the members 16 or 17, in the manner illustrated in Figs. IV and V.

As shown in Fig. IV, the razor blade 12 is being treated without dismounting or even having its adjustment disturbed,—being sim-

ply laid with the prong ends of its guard 13 resting on a rabbet ledge 25 formed by lateral reduction of the end of the member 16 and against the corresponding shoulder, with the end of the handle 15 resting on the table on which is the device itself. Thus the blade edge lies very close to the magnet without coming in contact therewith, and is subjected to the magnetic influence in full intensity substantially uniformly over its full length. Also, the plane of the blade is substantially normal to the member 12. As shown, the width of the member 16 exceeds the length of the blade 12 sufficiently to assure a substantially uniform magnetic field to act on the blade.

As shown in Fig. V, the squeeze of the parts 13, 14 on the blade 12 has been relaxed to allow the blade to resume its normal flat form, the device has been turned other side up, and the razor 11 has been laid on top of the case 10 with the guard 13 resting in a shallow groove 26 in the member 17, against the shoulder at the outer side of the groove. Thus the blade edge lies very close indeed to the member 17 without actually coming in contact with it.

Having thus described my invention, I claim:

1. A device of the character described for treating a mounted safety razor blade, comprising a magnet pole laterally reduced so as to afford a shoulder for engaging the mount to definitely determine the position of the blade with reference to the pole.

2. A device of the character described for treating a mounted safety razor blade, comprising a magnet pole laterally reduced so as to afford support for the safety guard with the blade edge in very close proximity to the magnet, but out of contact therewith.

3. A device of the character described comprising blade-treating magnet members arranged to accommodate between them the handle of a safety razor mounting, and having their ends spaced in correspondence with the width of the mounted blade, so as to house the handle of the mounting with the blade across the magnet ends.

4. A device of the character described comprising a blade-treating horseshoe magnet corresponding in width between its poles to the width of a safety razor and in length to that of such razor with its handle, and having its bend socketed to take the handle end, so as to house and socket the handle of the mounting with the blade across the magnet poles.

5. A device of the character described comprising blade-treating magnet members arranged to accommodate between them the handle of a safety razor mounting, and having their ends spaced in correspondence with the width of the mounted blade, so as to house the handle of the mounting with the blade across the magnet ends, with an armature spanned between the ends of said members over the razor and mounting.

6. A device of the character described comprising a blade treating magnet and an armature therefor affording between them a housing for a mounted safety razor.

7. A device of the character described comprising a blade-treating horseshoe magnet and its armature affording within them a housing for a safety razor with its handle.

8. A device of the character described comprising a blade-treating horseshoe magnet, and a recessed armature therefor adapted, when in service, to accommodate a safety razor with its handle housed in the magnet.

9. A device of the character described comprising a safety razor case provided with magnetic treating means for the razor blade, with a cover for the case provided with armature means for said magnet means.

10. A device of the character described comprising a safety razor case and cover therefor, one provided with a blade treating magnet and the other with an armature for the magnet, said magnet and armature being adapted to house the razor when in the case.

11. A device of the character described comprising a case for a mounted safety razor having at opposite sides magnetic blade treating members, with space between to accommodate the handle of the mounting.

12. A device of the character described comprising a safety razor case embodying a horseshoe treating magnet for the razor blade, with a cover for the case embodying an armature for the magnet.

13. A shaving kit comprising a horseshoe magnet, and a safety razor disposed within said magnet with its head arranged transversely of the limbs of the magnet.

In testimony whereof, I have hereunto signed my name at Philadelphia, Pennsylvania, this 28th day of February, 1927.

JOHN S. FORBES.