

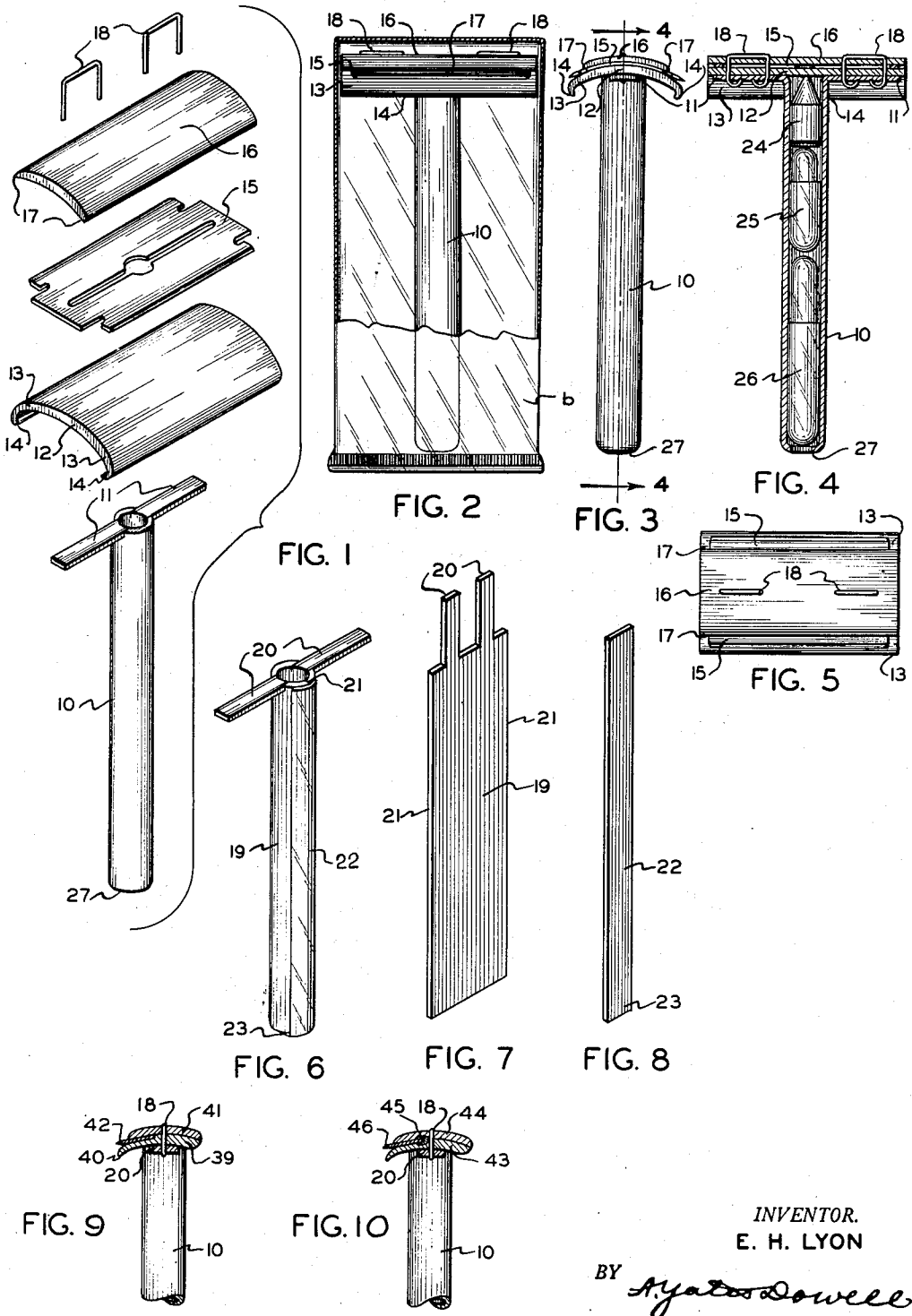
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DISPOSABLE SAFETY RAZOR

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## DISPOSABLE SAFETY RAZOR

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3 Claims. (Cl. 30—32)

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This invention relates to safety razors and more particularly to a holder incorporating a blade in proper shaving position.

The invention further relates to an individual sanitary sterile razor package containing a razor available for a single shave.

Numerous types of safety razors and blades have been manufactured many of which have been expensive, bulky, awkward and difficult to use. Others have been comparatively inexpensive but not satisfactory to use for other reasons.

Also, in safety razors sanitation has not been given the necessary importance, and thus may have contributed to the spread of contagious disease. In public places such as hospitals where patients are shaved by nurses or attendants, in hotels where razors are supplied to guests, as well as in other public places, considerable time is wasted in searching for razors as well as for the blades and also in attempting to sterilize them prior to their use.

Accordingly, there is need for a simple, inexpensive, sanitary safety razor readily accessible at all times, which can be discarded after a single use, and which may be readily available in public places with minimum time consumption, and which can be employed to provide an eminently satisfactory shave by a user or by an individual performing a single shaving operation.

Another object is to provide a razor which can be easily manufactured of readily available material with the only part necessarily formed of metal being the blade, and with a supply of beard-softening material, such as shaving cream, a blood coagulator such as a stiptic pencil, and if desired an after-shaving preparation such as powder or the like with such supplementary materials serving as a reinforcement for the handle of the razor during shipment, and all contained in a transparent sterile bag or package.

Other objects and the nature and advantages of the invention will be apparent from the following description taken in conjunction with the accompanying drawings, wherein:

Fig. 1 is an exploded view of a razor consisting of a holder and a blade in accordance with the present invention;

Fig. 2, a front elevation of the same in a bag;

Fig. 3, an end elevation thereof;

Fig. 4, a section on the line 4—4 of Fig. 3;

Fig. 5, a top plan view;

Fig. 6, a perspective of a modified form of handle;

Fig. 7, the blank used in making the handle of Fig. 6;

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Fig. 8, a perspective of the tape and securing means as shown in Fig. 6;

Fig. 9, a fragmentary vertical section through a head similar to that of Figs. 1 to 5 but designed for a single-edge razor blade; and

Fig. 10, a similar fragmentary section for another type of single-edge blade.

Briefly stated the invention comprises a razor having a handle and a head, both of paper or other inexpensive material, with a blade incorporated in such head. The handle is preferably disposed at right angles to the head between the sides and edges thereof where the razor incorporates a double-edged blade, except as shown in Figs. 9 and 10.

In the preferred embodiment illustrated in the earlier figures the handle is tubular and may be seamless as illustrated in Figs. 1 to 5, inclusive, or seamed as illustrated in Fig. 6. Also, the holder is made with lateral arms for attachment to the head. The head is made of cooperating complementary curved bottom and top plates with the bottom plate wider and provided with curved lateral edges to provide guard means for the blade so that accidental injury is minimized.

The head and lateral arms of the handle are fastened together by means which, for purposes of illustration, may be one or more wire staples extending through the axial slot in the conventional blade.

Where the handle is of seamed construction the lineal joint may be held together as shown in Fig. 6 by means of a cementing strip. This strip may be turned or extended over the end of the handle opposite the head as disclosed. Within the handle cartridges or capsules may be stored containing shaving soap or cream, powder, and a stiptic pencil.

With continued reference to the drawings, a razor in accordance with the present invention may consist of a handle formed of a seamless tube 10 having arms 11 bent outwardly at one end and disposed at right angles to the tube. The head is provided with a bottom plate consisting of a relatively thick central portion 12, with thinner lateral deges 13, and curved lateral extremities 14 which serve as blade guards to prevent accidental cutting of the user.

On the rounded upper surface of the bottom plate is adapted to be located a conventional double-edge razor blade 15, with an overlying retaining top plate 16 curved in cross-section and provided with lateral edges 17. These are the principal parts of the razor and they are held together by securing means which may be

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one or more conventional staples 18 extending, as shown in Fig. 4, through the top plate, the slot in the razor blade, the bottom plate, and the laterally extending edge of the handle portion.

Instead of the seamless tube 10, the handle may be formed of a strip or a tube blank 19 of cardboard or the like material, and having edges 21 and spaced arm portions 20. This strip may be rolled into a tube with the edges 21 in contact and so secured as for purposes of illustration by a thin sheet 22. The strip 22 may have an end portion 23 extended across the end of the tube to close such end of the tube. Also, the arm portions 20 correspond to the arms 11 of the preceding figures and the tube thus formed with its lateral arm is useable interchangeably with the tube 10.

The seamless tube of which the handle is formed is adapted to retain a plurality of cartridges such as a stiptic pencil 24, a capsule of shaving cream 25, and a capsule of powder 26, for use after shaving. The lower end of the handle may be provided with a crimped extremity 27 for retaining the contents within the same.

In the process of manufacturing the razor of Figs. 1 to 6, inclusive, the handle is preferably provided with a reduced or distorted end 27 to retain the contents of the handle. In manufacturing the razor of these figures the capsules are inserted into the end of the handle nearest the head before the head is applied.

From the foregoing, it will be readily understood that by the present invention a simple, inexpensive, disposable safety razor and blade are provided from which a single excellent and satisfactory shave can be obtained and such razor can be had in thoroughly sanitary condition with the essential cream, stiptic pencil and powder conveniently available in the handle of the same.

Further, the device is complete in itself and can be made readily available to the medical profession, in hospitals, offices, or on the highway miles from such offices and hospitals.

It can be made readily attractive for use by women as well as men, dispensed in stores of all kinds, hotels, highway bus and air stations in connection with all modes of transportation, beauty parlors and other places of business.

While the description of the invention has been directed to a razor of the double-edged type, this is by way of illustration and not by way of limitation.

The razor of Figs. 1 to 5 inclusive, is susceptible of modification to accommodate a single-edged blade. For example, in Fig. 9, is disclosed a handle 10 and a head consisting of a lower plate 30 with a guarding edge 40 and a top plate 41, the top and bottom plates being secured to the arms 20 by means of staples 18 and securing a single-edge blade 42 in position. In Fig. 10 the parts correspond with those of the immediately preceding figure except that the bottom and top plates 43 and 44 are fabricated to accommodate the reinforcing strip 45 for the blade 46. From the description of Figs.

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9 and 10, it will be readily apparent that the razor may accommodate either a single or double edged blade and in each event the rear edge of the blade is supported by the head.

5 It will be obvious to those skilled in the art that various changes may be made in the invention without departing from the spirit and scope thereof and therefore the invention is not limited by that which is shown in the drawings and described in the specification but only as indicated in the appended claims.

What is claimed is:

1. A disposable razor comprising a tubular handle having oppositely disposed integral arms at one end, said handle being composed of an elongated sheet with spaced projections at one end, said sheet being rolled into tubular form with its lineal edges in abutting relation and said tabs being bent outwardly to form said arms, a cementing strip overlying and holding said abutting edges in contiguous relation, upper and lower complementary curved plates for holding a razor blade between them, said plates forming a head and a guard for the cutting edge of the blade, a blade between said plates, staple means extending through both said curved plates and said arms and fastening the parts in assembled relation to provide a unitary structure.

2. A disposable razor comprising a tubular handle having oppositely disposed integral arms at one end, upper and lower complementary curved plates for holding a razor blade between them, said plates forming a head and a guard for the cutting edge of the blade, a blade between said plates, staple means extending through both of said curved plates and said arms and fastening the parts in assembled relation to provide a unitary structure.

3. A disposable razor comprising a tubular handle having oppositely disposed integral arms at one end, said handle being composed of a sheet curled together with its lineal edges in abutting relation, a strip overlying and holding said abutting edges in contiguous relation, upper and lower complementary curved plates for holding a razor blade between them, said plates forming a head and a guard for the cutting edge of the blade, a blade between said plates, means extending through both said curved plates and said arms and fastening the parts in assembled relation to provide a unitary structure.

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