

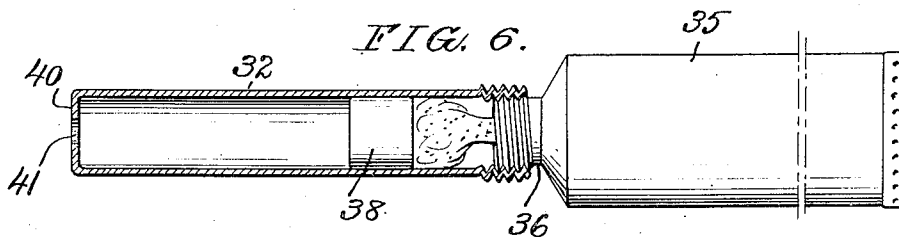
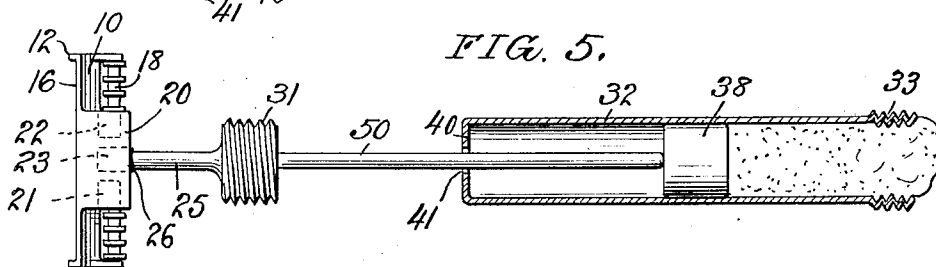
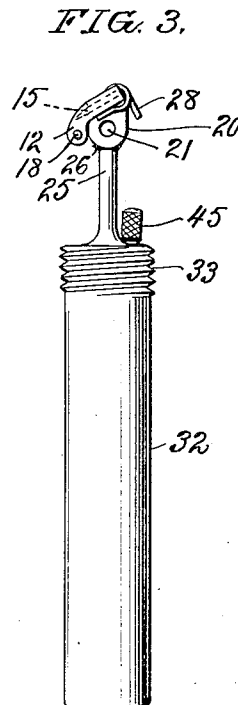
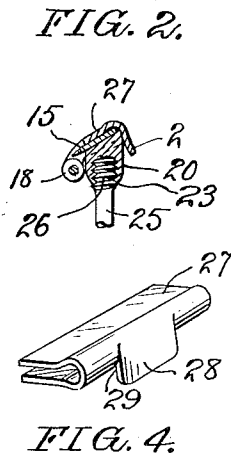
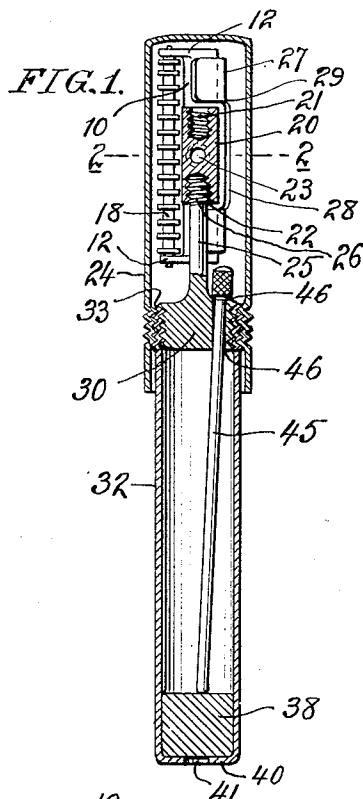
Feb. 21, 1933.

H. B. YOUNG

1,898,803

DISPENSING DEVICE

Filed Aug. 8, 1929



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UNITED STATES PATENT OFFICE

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DISPENSING DEVICE

Application filed August 8, 1929. Serial No. 384,253.

My invention relates to improvements in safety razors and particularly to safety razors of small and compact form adapted to be readily carried in the pocket.

5 The object of my invention is to construct a safety razor in which the parts may be readily assembled and detached; a further object is to provide means for rigidly holding the head in different positions upon the handle; 10 a further object is to provide a novel form of clamping means for holding the cutting blade upon the head, said clamping means having a finger grip for readily detaching the same from the head; a still further object is 15 to provide a razor having a handle for containing shaving soap, or cream, and provide novel means upon the handle for filling the same from a standard tube, or container, and also means for discharging the material from the 20 handle; and a still further object is to provide a rod which may be carried within the handle and adapted for discharging the shaving material from the handle. These together with various other novel features of construction and arrangement of the parts, 25 which will be hereinafter more fully described and claimed, constitute my invention.

Referring to the accompanying drawing; Fig. 1 is a longitudinal central sectional view 30 of my improved safety razor; Fig. 2 is a transverse sectional view of the head as on line 2-2, Fig. 1, showing the shank of the handle attached at a different angle from that shown in Fig. 1; Fig. 3 is an end view of the head, as shown in Fig. 2, also showing the 35 shank attached to the thread end of the handle; Fig. 4 is a perspective view of the clamp for holding the blade upon the head; Fig. 5 is a sectional view of the handle showing the head in side elevation and illustrating a different form for carrying the rod and the manner in which the latter is used for discharging the material from the handle. 40

Fig. 6 is a sectional view of the handle, 45 shown attached to the neck of a standard shaving cream tube and illustrating how the handle may be filled from the tube.

In the accompanying drawing in which like reference characters refer to like parts; 50 10 represents the head of the razor which is of

elongated formation having at the ends up-
standing ribs 12 for holding a blade 15 upon
the flat surface 16 of the head. Said head is
provided with a guard 18 located adjacent to
the cutting edge of the blade 15. The ends of 55
said guard are mounted in the end ribs 12 and
may be either rigidly or rotatably mounted in
said ribs. The head 10 is provided with a
boss 20, which is located upon the opposite
surface of the head from the surface 16 for 60
carrying the blade 15. Said boss 20 is provided
with apertures 21, 22, and 23, which are
threaded and adapted to receive a shank 25
having a threaded end 26. Said shank forms
part of a handle upon which the head may be 65
secured. Said apertures 21 and 22 are in
alignment with each other and extend longitudinally in a line parallel with the surface
16 of the head on which the cutting blade is
mounted. The shank 25 may be inserted in 70
either the aperture 21 or 22, thus making the
head reversible so that the cutting edge of the
blade will be suitable for either right or left
hand shaving. The aperture 23, formed in
said boss 20, is positioned with its longitudinal 75
axis extending at right angles to the axes
of the apertures 21 and 22, so that the shank
25 may be attached at right angles to the
length of the head, as shown in Figs. 2, 3, and
5. By this construction the shank may be 80
rigidly attached to the head in different positions
suitable for shaving, and the shank also
may be attached for carrying the head upon
the shank in such a position that the cap 24
may be placed over the head, as shown in Fig. 85
1, for carrying the razor in a compact form.

A U-shaped spring metal clamp-plate 27
is provided for holding the cutting blade 15
upon the holding surface 16 of the head. Said
clamp-plate embraces the blade and the head
and tightly holds the blade upon the surface 16, between the end ribs 12 of the head. One member of the clamp-plate 27
is cut in two places to form a tongue or finger
grip 28 and also to form a recess 29 in the 95
plate 27, which recess may be occupied by
the boss 20 of the head. The tongue 28 of
the plate 27 is bent at approximately right
angles to the clamping surface of the plate 27,
to form a handle or finger grip which projects 100

slightly away from the boss 20 so that it will be accessible for removing the clamp-plate 27 from the head, and from the blade when it is desired to detach the parts.

5 The shank 25 is provided at its lower end with an enlarged plug 30 which is provided with a screw thread 31. A handle 32, which is of tubular formation and provided with a screw thread 33, shown detached in Fig. 5, is adapted to receive the plug 30 within the threaded end portion 33, as shown in Figs. 1 and 3, thus providing a handle for carrying the head which consists of the shank 25 and the tubular handle 32. The screw thread 33 formed upon the handle 32 is of the standard size and formation found upon the standard size tubes 35, in which the shaving cream, or material, may be purchased upon the market. The tube 35, shown in Fig. 6, is provided with a threaded neck 36 which may be secured in the threaded portion 33 of the handle 32, as shown in Fig. 6, thus tightly attaching the tube 35 to the handle 32 so that the contents of the tube may be forced into the handle for filling the latter. The handle 32 is provided with a piston 38 which is slidably mounted within the handle.

Said handle 32 is provided at one end with an inwardly projecting flange 40, which is provided with a central opening 41 forming an air vent and allowing the piston 38 to be readily moved when the material is forced into the handle from a tube 35, as shown in Fig. 6. Said aperture 41 also provides means for the insertion of a rod for moving the piston 38, for forcing the material out of the threaded end portion 33 when it is desired to use the material. A rod 45, as shown in Figs. 1 and 2 is provided for moving the piston 38 and is adapted to be carried within the handle 32.

The plug 30 is provided with an aperture 46 which extends approximately parallel with the axis of the shank 25. Said aperture is provided in the plug 30 for the purpose of carrying the rod 45, as shown in Fig. 1, and also providing a passageway for the discharging of the material from the handle 32, when the rod is removed. By inserting the rod in the opening 41 of the handle, the piston 38 may be moved for forcing the material from the handle. The aperture 46 is located in the plug 30 so that the material will be discharged at a point adjacent to the shank 25 immediately below the head of the razor so that the material may be conveniently removed by the finger for using the same in the usual manner. The rod 45 may be replaced in the handle 32 by inserting the rod into the aperture 46 and forcing the piston 38 to the lower end of the handle against the flange 40, thus closing the opening 41 to prevent leakage of any material from the lower end of the handle.

Fig. 5 illustrates a rod 50, which is rigidly

carried upon the plug 30 of the shank instead of being detachably mounted upon the plug, as shown in Fig. 1.

In the form shown in Fig. 5 the head and shank are removed from the body 32, so that the rod may be inserted through the opening 41, of the handle, for forcing the piston in a direction to discharge the material from the end 33, of the handle.

My improved razor provides a construction in which the head may be rigidly attached in different positions upon the handle; the clamp plate may be readily attached and detached for holding or removing the blade from the head; the construction of the handle and rod carrying means, forms a convenient means for carrying the rod for discharging the material from the handle, and the threaded end portion of the handle forms a convenient means for injecting the material into the handle from a standard tub or container.

Various other changes may be made in the construction and the arrangement of the parts, without departing from my invention.

I claim:—

1. A dispensing device comprising a handle of tubular formation having end openings forming a receiving and discharging opening at one end thereof and a vent opening at its opposite end, a piston slidably mounted in the handle, a rod for moving the piston within the handle, said handle having said end openings located in axial alignment for the free entrance of the rod for engaging and moving the piston in either direction, a shank, a plug on said shank, means for detachably securing the plug in the discharge end of the handle, and means for mounting the rod upon said plug with the body of the rod extending within the handle when the piston is positioned adjacent to the vent opening of the handle.

2. A dispensing device comprising a handle of tubular formation having end openings forming a receiving and discharging opening at one end thereof and a vent opening at its opposite end, a piston slidably mounted in the handle, a rod for moving the piston within the handle, said handle having said openings located in axial alignment for the free entrance of the rod for engaging and moving the piston in either direction, a shank, a plug on said shank, means for detachably securing the plug in the discharge end of the handle, and said plug having a discharge aperture formed therein through which the rod may be passed into the handle and occupy the interior of the latter between the plug and the piston.

3. A dispensing device comprising a handle of tubular formation having end openings forming a receiving and discharging opening at one end thereof and a vent opening at its opposite end, a piston slidably mounted in the handle, a rod for mov-

ing the piston within the handle, said handle
having said end openings located in axial
alignment for the free entrance of the rod
for engaging and moving the piston in either
5 direction, said handle having a screw thread
formed at said receiving and discharging end
to receive the threaded neck of a container
from which the handle may be filled, and a
plug having a screw thread formed thereon
10 arranged to occupy said thread upon the
handle.

In testimony whereof I affix my signature.
HARRY BENTON YOUNG.

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