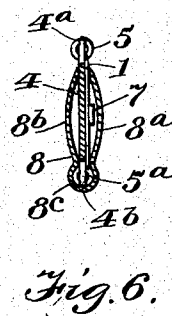
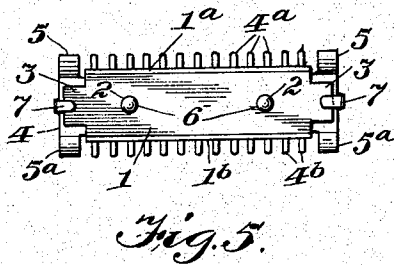
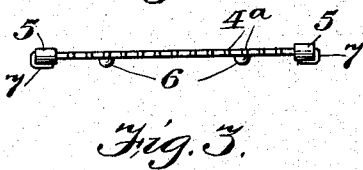
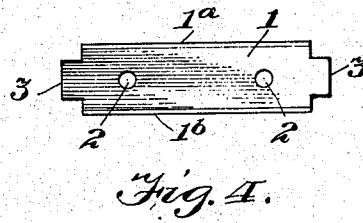
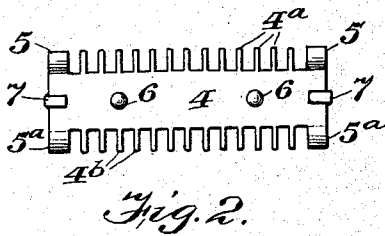
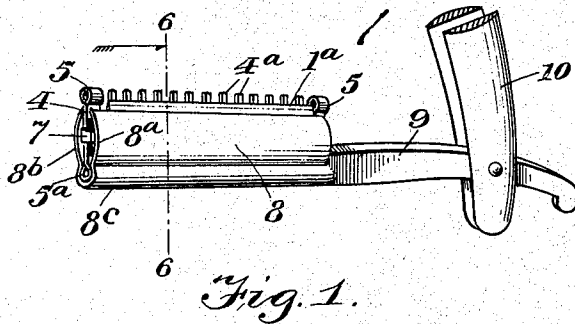


1,028,461.

Patented June 4, 1912.



Witnesses:

Robert Head

J. M. H. Head

Inventor:
Samuel Hetlyn

By his Attorneys

Griffino Zamboni

UNITED STATES PATENT OFFICE.

SAMUEL HETLYN, OF NEW YORK, N. Y.

SAFETY-RAZOR.

1,028,461.

Specification of Letters Patent.

Patented June 4, 1912.

Application filed October 11, 1910. Serial No. 586,436.

To all whom it may concern:

Be it known that I, SAMUEL HETLYN, a citizen of the United States, residing in the city of New York, borough of Manhattan, county and State of New York, have invented a certain new and useful Safety-Razor, of which the following is a specification:

This invention is a safety razor of that type wherein blades are used interchangeably in connection with a holder.

One object is to enable a blade to be reversed with respect to the holder for the purpose of shaving either side of the face by drawing the blade in a downward direction.

A further object is to simplify the construction so as to result in economy of manufacture, the new device consisting, practically, of three parts which are adapted to be "blanked" or stamped from sheet metal.

Briefly stated, the invention comprises a holder, a guard separate from said holder, and a blade separate from the guard and the holder. The blade is, preferably, double edged, and it is connected by suitable means detachably to the guard. The attached blade and guard are insertible into the holder so as to expose an edge of the guard and the blade for use in shaving one side of the face, but said guard and blade may be reversed, side for side, with respect to the holder for the purpose of bringing the other side edges of the guard and the blade into position for shaving the other side of the face.

The invention consists, further, of certain novel constructions and arrangements of parts to be hereinafter described.

In the accompanying drawings, I have illustrated a practical embodiment of the invention, but the construction shown therein is to be understood as illustrative only, and not as defining the limits of the invention.

Figure 1 is a perspective view, the handle being broken away, illustrating the parts assembled for use. Fig. 2 is a side elevation of the guard. Fig. 3 is an edge view of the guard. Fig. 4 is a side elevation of the blade. Fig. 5 is a side elevation showing the blade and guard attached and assembled in position for insertion into the

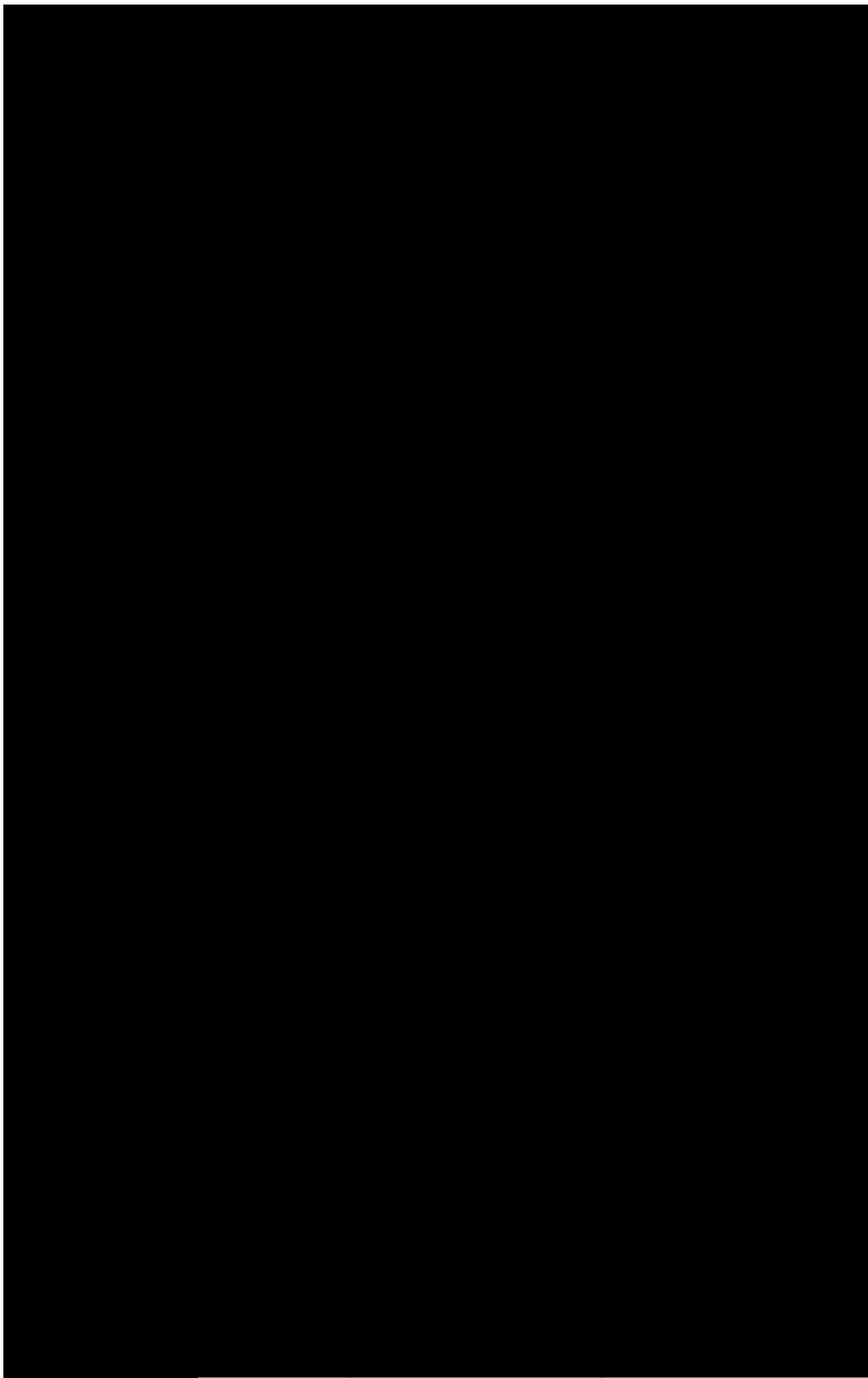
holder. Fig. 6 is a transverse cross section on the line 6—6 of Fig. 1.

The blade of the razor, 1, is provided with two cutting edges, 1^a, 1^b; and is provided, also, with apertures 2, and tongues 3, 3, said tongues being at the respective ends of the blade.

The blade 1 coöperates with a guard, 4. The guard is composed, preferably, of a single piece of metal, and it is provided with series of comb teeth 4^a, 4^b along the respective edges thereof. Said guard is provided, also, with guides or lugs 5, 5^a, and with positioning pins 6, the latter being between the two series of comb teeth. The guides or lugs 5, 5^a are positioned at the corners of the guard and in alinement with teeth 4^a, 4^b, said lugs being, preferably, integral with the body portion 4, each lug being of greater width than the teeth. The lugs are stamped with the guard blank from the metal sheet, and said lugs are rolled or folded upon themselves to form the rounded guide, as illustrated in Fig. 1. However, the precise form of the lug or guide is not a material part of the invention.

Centering pins, 6, are preferably stamped through the body portion of the guide 4, and they are positioned to register with apertures 2 of blade 1. End clips, 7, are provided for engagement with tongues 3 of blade 1 and these clips operate to retain the blade in operative position with respect to the guard, whereby the attached blade and guard may be handled as a unit in adjusting and reversing the blade in the holder.

A holder 8 is mounted on a shank 9, the latter being pivoted to a handle 10, such as is used in ordinary razors. The holder 8 is constructed of spring metal and may be of any desired shape or contour, but I have illustrated it as comprising two curved jaws 8^a, 8^b, and with a bottom member 8^c; said jaws 8^a, 8^b and bottom member 8^c being integral, whereby the bottom member 8^c serves to retain said jaws into spring pressed engagement with each other. The guard and blade are adapted to be slid between the jaws 8^a, 8^b, forcing said jaws apart, one pair of the guides 5 or 5^a of the guard fitting within the channeled bottom member 8^c. The guard and blade are positioned between the spring clamping jaws 8^a, so that one set of guides, 5 or 5^a, enter the channeled mem-



the attached blade and guard being reversible with respect to the holder, and removable at will therefrom by sliding the guard and blade with respect to said holder, the
5 guides and teeth at one side of the guard plate and one edge of the blade being insertible into the channeled retaining member of the holder so as to conceal the inserted edges of the parts, the other edge of the

blade and the toothed edge of the guard being exposed for use. 10

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

SAMUEL HETLYN.

Witnesses:

SAMUEL EDELMANN,
MAX LEVEY.