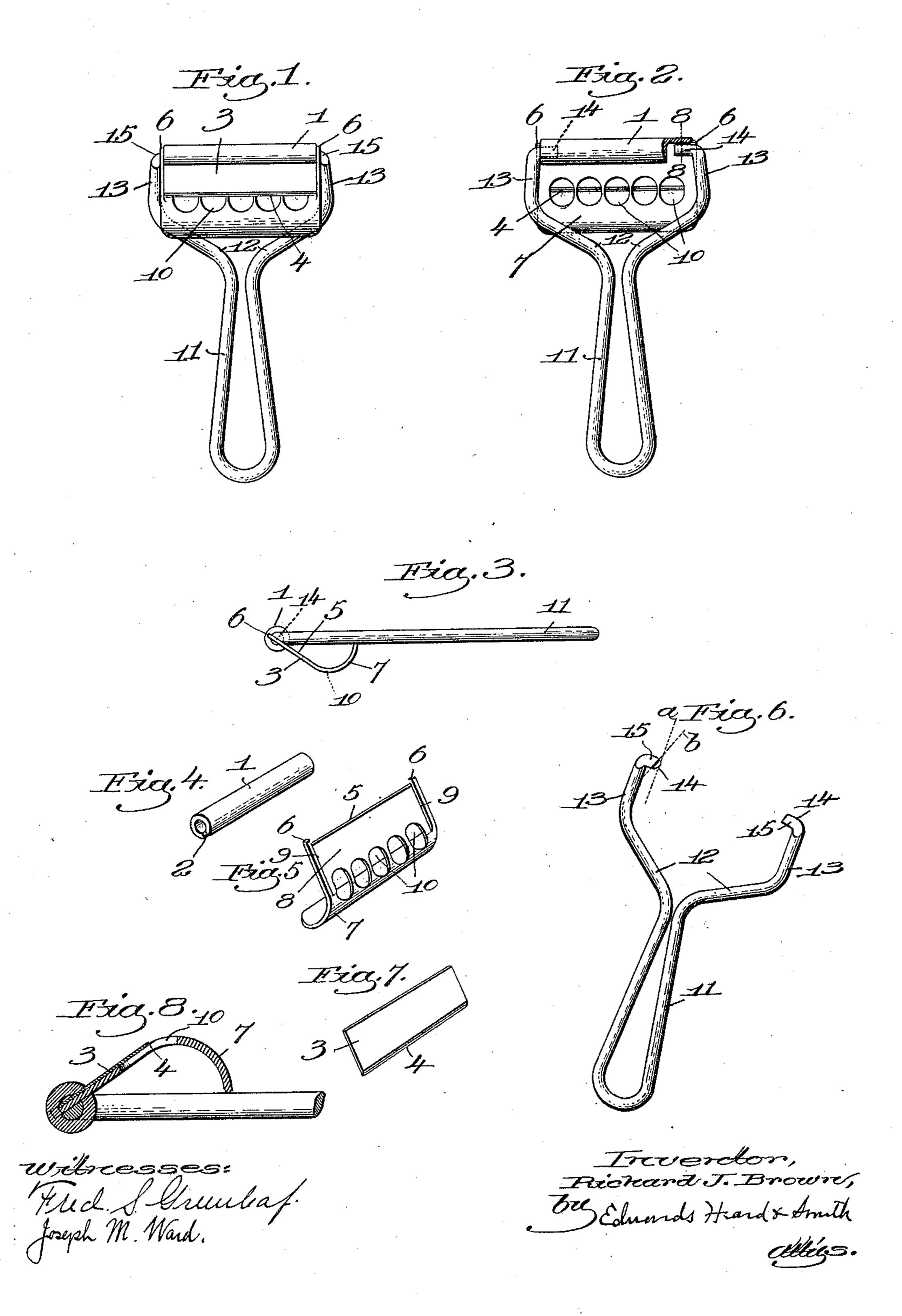
R. J. BROWN. SAFETY RAZOR. APPLICATION FILED JAN. 31, 1911.

999,483.

Patented Aug. 1, 1911.



TEED STATES PATENT OFFICE.

RICHARD J. BROWN, OF ROXBURY, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO THOMAS H. LYNCH, OF BOSTON, MASSACHUSETTS.

SAFETY-RAZOR.

999,483.

Specification of Letters Patent.

Patented Aug. 1, 1911.

Application filed January 31, 1911. Serial No. 605,687.

To all whom it may concern:

Be it known that I, RICHARD J. BROWN, a citizen of the United States, and resident of Roxbury, county of Suffolk, State of 5 Massachusetts, have invented an Improvement in Safety-Razors, of which the following description, in connection with the accompanying drawing, is a specification, like characters on the drawing representing like 10 parts.

This invention has for its object the production of a simple, inexpensive and efficient safety razor so constructed and arranged that the blade may be removed 15 readily for cleaning or stropping and as readily replaced in the holder in condition

for use.

In accordance with my invention the device comprises a guard, a holder for it and 20 for the blade, and a detachable handle, the blade to be used with these parts being thin and flat and having one of its longitudinal edges sharpened.

The blade is very similar, in itself, to a 25 number of safety razor blades now on the market and I make no claim to novelty of

the blade.

The various novel features of my invention will be fully described in the subjoined 30 specification and particularly pointed out

in the following claims.

Figure 1 is a top plan view of a safety razor embodying my invention, looking at the blade side thereof; Fig. 2 is a similar 35 view, but of the opposite side, and partly broken out; Fig. 3 is a side elevation of the device; Figs. 4 and 5 are separate perspective views of the holder for the blade and guard, and the guard, respectively; Fig. 6 40 is a perspective view of the handle, detached; Fig. 7 is a similar view of the blade; Fig. 8 is an enlarged section on the line 8-8, Fig. 2, looking toward the right.

45 the holder 1 is made tubular, with a longitudinal slot 2 extending from one to the other end, such form of holder providing openings at each end communicating with the slot, the latter being substantially radial 50 to the longitudinal center of the holder. Said holder is in practice a piece of stiff and rigid tubing slightly longer than the length of the blade 3.

As shown in Fig. 7 the blade is rectangu-55 lar, thin and flat, made from plate or sheet

steel suitably tempered and having a beveled and sharpened cutting edge 4, a well known form of safety razor blade. The guard is made of plate metal, and comprises a flat portion 5, notched to leave 60 slight projecting lugs 6 at each side of the plate at its back edge, the front portion of the plate being curved to form a smooth, continuous guard 7. A rectangular depression 8 in the face of the flat portion 5 con- 65 stitutes a blade seat, the side walls 9 of the seat positioning the blade when seated and preventing longitudinal movement thereof. At the junction of the flat and curved portions 5 and 7 I perforate the plate, as at 70 10, and as shown in Figs. 1 and 2 said perforations are located beneath the cutting edge of the blade when seated in operative position. The detachable handle is preferably made of stout resilient wire bent to 75 form an elongated loop 11 which constitutes a gripping or handle portion for the hand, the ends of the loop being bent outward oppositely, as at 12, and then upward to form spring arms 13 which slightly converge to- 80 ward their free ends. The free ends of said spring arms are inturned opposite each other, as at 14, and they are slightly tapered from their outer extremities inward by slabbing off or beveling, the beveled faces 85 15, Fig. 6, also lying in a plane at an angle to the plane of the handle.

In Fig. 6 the plane of the handle is indicated by the dotted line a, and the plane of the beveled faces by the dotted line b. To 90 assemble the parts of the razor the blade 3 is seated on the seat 8 of the guard, between the side walls 9, and with the back edge of the blade adjacent the notched edge of the guard plate, and the latter and the blade 95 are inserted in the slot 2 of the holder 1. The lugs 6 overlap the ends of the holder, the notched edge of the guard plate bear-In the preferred form of my invention | ing against the inner wall of said holder. One of the tapered, beveled ends 14 of the 100 handle arm 13 is now pushed into the open end of the holder between the wall of the latter and the under face of the guard plate, and by springing the arms 13 apart the tapered end 14 of the opposite arm is 105 slipped into place at the other end of the holder. The spring or resiliency of the arms 13 acts to force the tapered ends 14 thereof inward to thereby tightly clamp or wedge the guard plate, and the blade seated there- 110

on, in the holder, as clearly shown in Fig. 8. The beveled faces 15 of the inturned ends 14 bear against the adjacent face of the guard plate, pressing the latter against 5 the inner wall of the holder, and at the same time position the blade seat and the blade thereon at the proper inclination or angle with relation to the plane of the handle. As shown the clamping of the 10 guard plate in the holder also clamps the blade securely in its seat 8, and the depth of cut is regulated by moving the blade inward or outward on its seat.

The perforations 10 permit the lather to pass through the guard to the concave side thereof as the razor is passed over the face in the act of shaving, and thus is kept from dropping on the hand or clothing of the user, the guard protecting the skin and preventing accidental cutting thereof as the edge of the blade takes hold of the beard.

As will be apparent the razor can be separated instantly into its several parts merely by detaching the handle from the holder, for the blade and guard plate are thereby instantly released, and the assembling of the parts for use is very quickly and easily effected.

Various changes or modifications in details 30 of construction and arrangement may be made by those skilled in the art without departing from the spirit and scope of my invention as set forth in the annexed claims.

Having fully described my invention, what I claim as new and desire to secure by Letters Patent is:

1. A safety razor comprising a tubular, longitudinally slotted holder, a guard having a blade seat, a thin flat blade, said guard and the back of a blade seated thereon adapted to enter the slot of the holder, and a detachable handle having spring arms provided with opposite inturned and tapered ends to enter the opposite open ends of the holder and clarar the blade and grand therein

and clamp the blade and guard therein.

2. A safety razor comprising a holder having axial openings at its ends and a communicating longitudinal slot, having a flat blade-supporting portion and an adjated to be seated on the flat portion of the plate, the latter and the back of the blade adapted to enter the slot of the holder, and a detachable handle having spring arms inturned and oppositely tapered to enter the axial openings of the holder and wedge the blade and its supporting plate in the slot of the holder.

3. A safety razor comprising a tubular, for longitudinally slotted holder, a guard having a flat blade seat and apertured adja-

cent the seat, a thin detachable blade, said guard and the back of a blade seated thereon adapted to enter the slot of the holder, and a detachable handle having spring arms 65 provided with inturned, opposite ends inwardly tapered and also beveled at an angle to the plane of the handle, to enter the open ends of the holder and wedge the blade and guard tightly therein, the bevel of the said 70 tapered ends positioning the blade and adjacent portion of the guard at the proper inclination with respect to the handle.

4. A safety razor comprising a tubular, longitudinally slotted holder, a guard hav- 75 ing a blade seat, a thin flat blade, said guard and the back of a blade seated thereon adapted to enter the slot of the holder, means to position the guard in and relatively to the holder, a detachable handle, and 80 means thereon to detachably engage the holder and simultaneously clamp the guard and blade therein.

5. A safety razor comprising a tubular, longitudinally slotted holder, a guard hav- 85 ing a blade seat, a thin flat blade, said guard and the back of a blade seated thereon adapted to enter the slot of the holder, a detachable handle, and means integral therewith to detachably engage the holder and 90 also clamp the guard and blade therein.

6. A safety razor comprising a holder having a longitudinal slot, a guard, a detachable thin and flat blade to seat thereupon, said guard and the back of the blade 95 adapted to enter loosely the slot in the holder, a detachable handle, and means thereon to detachably connect the handle and holder and simultaneously clamp the blade and guard in the holder.

7. A safety razor comprising a holder having a longitudinal slot, a plate having a blade seat and curved toward the handle to constitute a guard and lather collector, a thin, flat blade, said plate and the back of 105 a blade seated thereon adapted to enter loosely the slot in the holder, a detachable handle, and means thereon to engage the plate adjacent the ends of the holder and clamp the plate and seated blade in such 110 holder, the plate having openings adjacent the cutting edge of the blade to permit the passage of the lather therethrough to be collected in the concaved side of the guard.

In testimony whereof, I have signed my 115 name to this specification, in the presence of two subscribing witnesses.

RICHARD J. BROWN.

Witnesses:

John C. Edwards, Thomas J. Drummond.