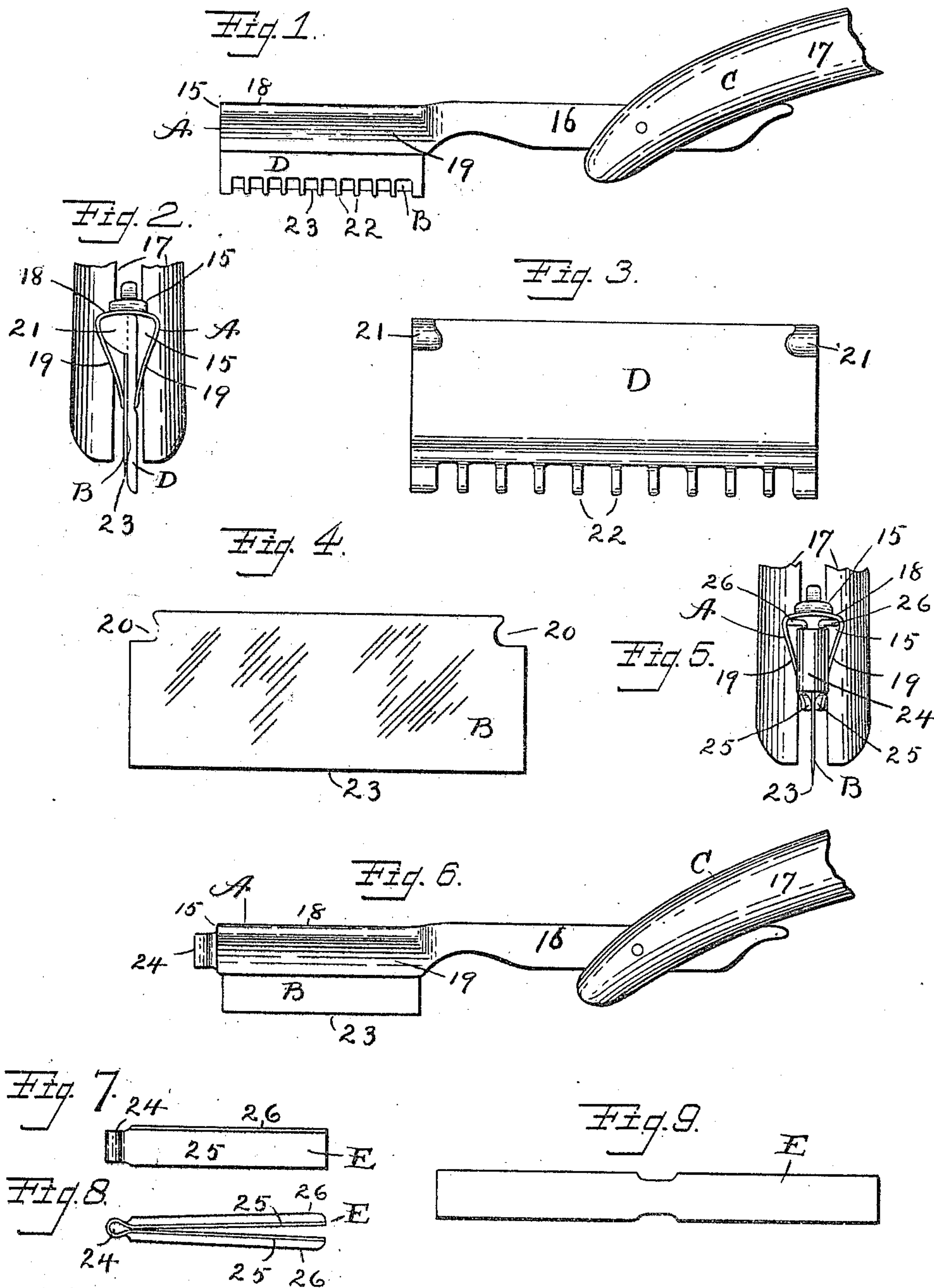


997,711.

Patented July 11, 1911.



Witnesses.

S. H. Clarke
W. L. Lockwood.

Inventor.

William H. Smith.

By Louis W. Schmidt
Atty.

UNITED STATES PATENT OFFICE.

WILLIAM H. SMITH, OF NEW BRITAIN, CONNECTICUT.

RAZOR.

997,711.

Specification of Letters Patent.

Patented July 11, 1911.

Application filed February 21, 1910. Serial No. 545,067.

To all whom it may concern:

Be it known that I, WILLIAM H. SMITH, a citizen of the United States, residing at New Britain, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Razors, of which the following is a specification.

My invention relates to improvements in razors, and the objects of my improvements are simplicity and economy in construction and convenience and efficiency in use.

In the accompanying drawings:—Figure 1 is a side elevation of my razor arranged as a safety razor, a portion of the handle being broken away. Fig. 2 is an enlarged end view of the same. Fig. 3 is a side elevation of the guard. Fig. 4 is a similar view of the blade. Fig. 5 is an end view of my razor arranged for use as an ordinary razor or for stropping. Fig. 6 is a side elevation of the same, on the same scale as Fig. 1. Fig. 7 is a side elevation of my spring member. Fig. 8 is a bottom view of the same. Fig. 9 is a side elevation of the blank for the same.

A is the blade holder of my razor comprising an angular tubular socket 15 adapted to receive the blade B and parts coacting therewith to be described and a shank 16 by which it is pivotally mounted to the handle C comprising the usual handle scales 17. The said angular tubular socket 15 comprises a flattened back wall 18, joined by rounded corners along each edge with a pair of forwardly extending clamping wings 19, the said socket 15 being symmetrical and reversible in its means for receiving and retaining the said blade and coacting parts. The said blade B is made of sheet metal, generally rectangular and is provided at the corners at the back edge at each end with a notch 20, which fit over corresponding lugs 21 on the blade face of the guard D. The said guard D is a generally rectangular plate like structure having a plane outer surface, is of dimensions corresponding essentially to those of the blade and has the usual comb formation 22 along the front edge, so that when the blade is received on the said blade face, with the said notches 20 engaged with the said lugs 21, the said comb or guard proper 22 will extend adjacent to and along the edge 23 of the said blade. The said guard and blade constitute a unit, essentially rectangular and having guide lugs on the rear edge corresponding to the

thickness of the said lugs 21, and as a unit are receivable in and a fit for the said tubular socket 15 of the holder A. The said blade B and guard D are symmetrical in formation individually and also when combined as a unit, and are accordingly receivable by either end in the said socket 15 of the holder A so that the same are adapted to be readily changed about for either left hand or right hand use. In order to permit omitting the said guard D as for use as an ordinary razor or for stropping, I replace the said guard by a spring member E which is adapted to coact with the said socket 15 of the holder in receiving and clamping the blade B, which member comprises a ribbed holder formed preferably of a strip of sheet metal doubled upon itself at the middle of the length so as to form a loop 24 which may serve conveniently as a handle and has two similar longitudinally extending arms 25, generally rectangular and adapted to receive the upper or back part of the blade, the said arms having the adjacent upper or back edge on each side turned outwardly to form a pair of flat longitudinal ribs 26, which ribs fit the said tubular back or socket 15 when the blade B is received between the two arms 25. As described each of the said arms 25 comprises essentially an angle piece and the two are combined for convenience by the handle 24 and they are adapted to receive the blade by either end and together with the blade as a unit may be received in the said socket 15 of the holder A. The handle 24 serves conveniently as a means for inserting and removing the blade. Structurally, the said spring member E may be made from angular stock, the rib portion 26 adjacent the handle 24 being cut away to facilitate bending into the form described, or the same may be made up from a blank such as shown in Fig. 9, generally rectangular, and having notches on the sides at the center of the length, at the point of the bend to form the handle 24.

I claim as my invention:—

In a razor, a blade, a holder and a guard plate, the said holder having a tubular socket and lateral clamping wings, the said guard plate provided with a blade-receiving surface generally rectangular and having lugs at the corners at the back edge of the said surface, the said lugs a fit for the said tubular back, the said blade being of sheet metal, receivable on the said surface, and

provided with notches a fit for the said lugs,
the said lugs and notches serving to prevent
relative lateral displacement of the said
guard plate and blade in all directions when
5 the said blade is in position on the said
blade-receiving surface, and the said clamp-
ing wings serving to hold the said blade in

such position when the said guard plate and
lugs are received in the said tubular back.

WILLIAM H. SMITH.

Witnesses:

NEWTON L. LOCKWOOD,
SHEFFIELD H. CLARK.