

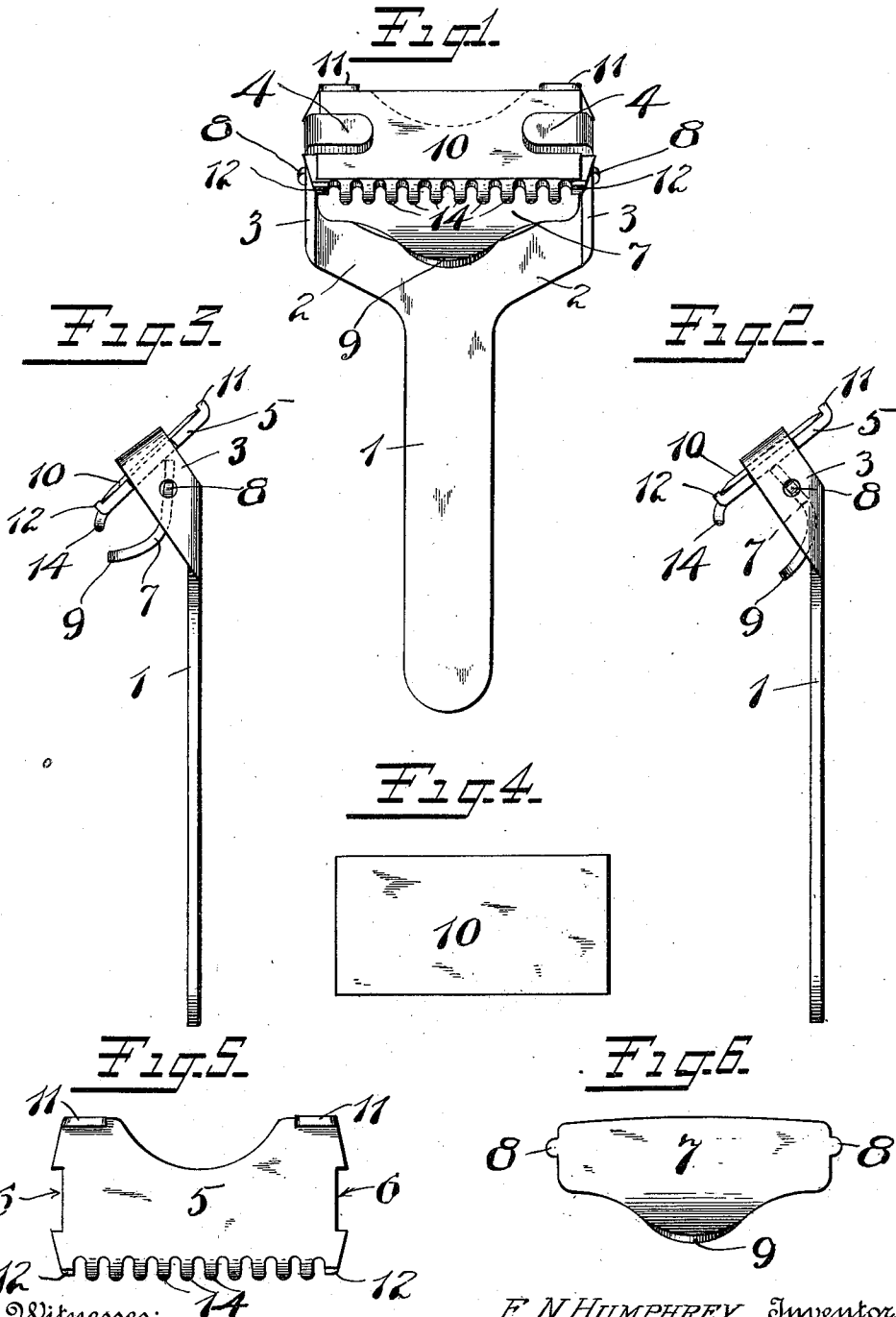
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SAFETY RAZOR.

APPLICATION FILED JULY 10, 1911.

1,008,929.

Patented Nov. 14, 1911.



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UNITED STATES PATENT OFFICE.

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SAFETY-RAZOR.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that we, CLARENCE E. SMITH and ERNEST N. HUMPHREY, citizens of the United States, residing at New Britain, Hartford county, State of Connecticut, have invented certain new and useful Improvements in Safety-Razors, of which the following is a full, clear, and exact description.

This invention relates to improvements in safety razors, the object being to provide an effective safety razor construction of the simplest possible form and minimum number of parts, whereby the same may be rapidly and economically produced and vended at small cost. As shown herein, the razor is made entirely from sheet metal, the construction being such that sheet metal may be effectively employed.

In the accompanying drawings, Figure 1 is a front elevation of a razor, on a relatively enlarged scale, the parts thereof being set up ready for use. Fig. 2 is a side elevation of the parts as shown in Fig. 1. Fig. 3 is a side elevation of the parts shown in Fig. 1, said parts being open to release the blade. Fig. 4 is a plan view of the blade. Fig. 5 is a plan view of the blade support. Fig. 6 is a plan view of the operating cam lever.

In the drawings we have shown only the preferred form of the various parts.

1 represents a handle portion having two oppositely diverging parts 2—2 bent forwardly to form side arms or cheek pieces 3—3. The ends of these cheek pieces 3—3 are turned inwardly to form blade gripping abutments 4—4.

5 represents a blade supporting plate; said plate is preferably notched at opposite ends as at 6—6, in which notches the cheeks 3—3 of the handle frame stand when the parts are assembled. The plate 5 is loosely mounted between the cheek pieces 3—3 under the abutments 4—4, and is capable of being moved up and down.

7 is an operating cam lever. This lever 7 is pivotally connected in any suitable manner between the cheek pieces 3—3 and beneath the blade supporting plate 5. In the particular form shown, pivot lugs 8—8 are

provided at the ends of the lever 7, which lugs stand in perforations or recesses in the cheeks 3—3.

9 is a finger piece on the lever 7 for receiving finger pressure to operate said lever.

10 represents a razor blade having one or two sharpened edges as desired. This blade is adapted to be properly positioned upon the supporting plate 5, as by lugs 11—11 at the rear, and 12—12 at the front edges of the latter.

14—14 are guard tongues at the forward edge of the blade supporting plate 5, said guard tongues performing the usual function common in all safety razors.

To insert a blade in the razor ready for use, the parts are first caused to assume the position indicated in Fig. 3, in which the supporting plate 5 is lowered away from the abutments 4—4. The blade 10 is then inserted upon the top of the plate 5 and underneath the abutments 4—4. The cam lever 7 is then swung to the position shown in Fig. 2, forcing the supporting plate 5 upwardly until the blade 10 is tightly clamped between it and the overlying abutments 4—4, which latter grasp the blade at its ends. It is desirable that the operative edge of the cam lever 7 which engages the underside of the blade supporting plate 5 should swing slightly past the center so as to prevent the accidental releasing of the parts at any time.

All the parts described may be stamped up from sheet metal and hence may be rapidly produced.

The frame complete may comprise, as shown, only three parts all of which may be rapidly assembled ready to receive a blade.

What we claim is:

A holder frame for a safety razor blade, comprising a sheet metal handle, two oppositely converging integral parts, said parts being turned up at an angle to the axis of the handle to form two parallel cheek pieces constituting guides for the blade support, the extreme ends of said cheek pieces being turned toward each other into the same plane to form blade-engaging abutments, in

combination with a blade supporting plate
and guard notched at opposite ends to move
on said cheek pieces, blade positioning lugs
on said combined plate and guard, a sheet
5 metal cam plate extending across the space
between said cheek pieces and under said
combined plate and guard, and a pivotal

connection between said cam plate and cheek
pieces.

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents,
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