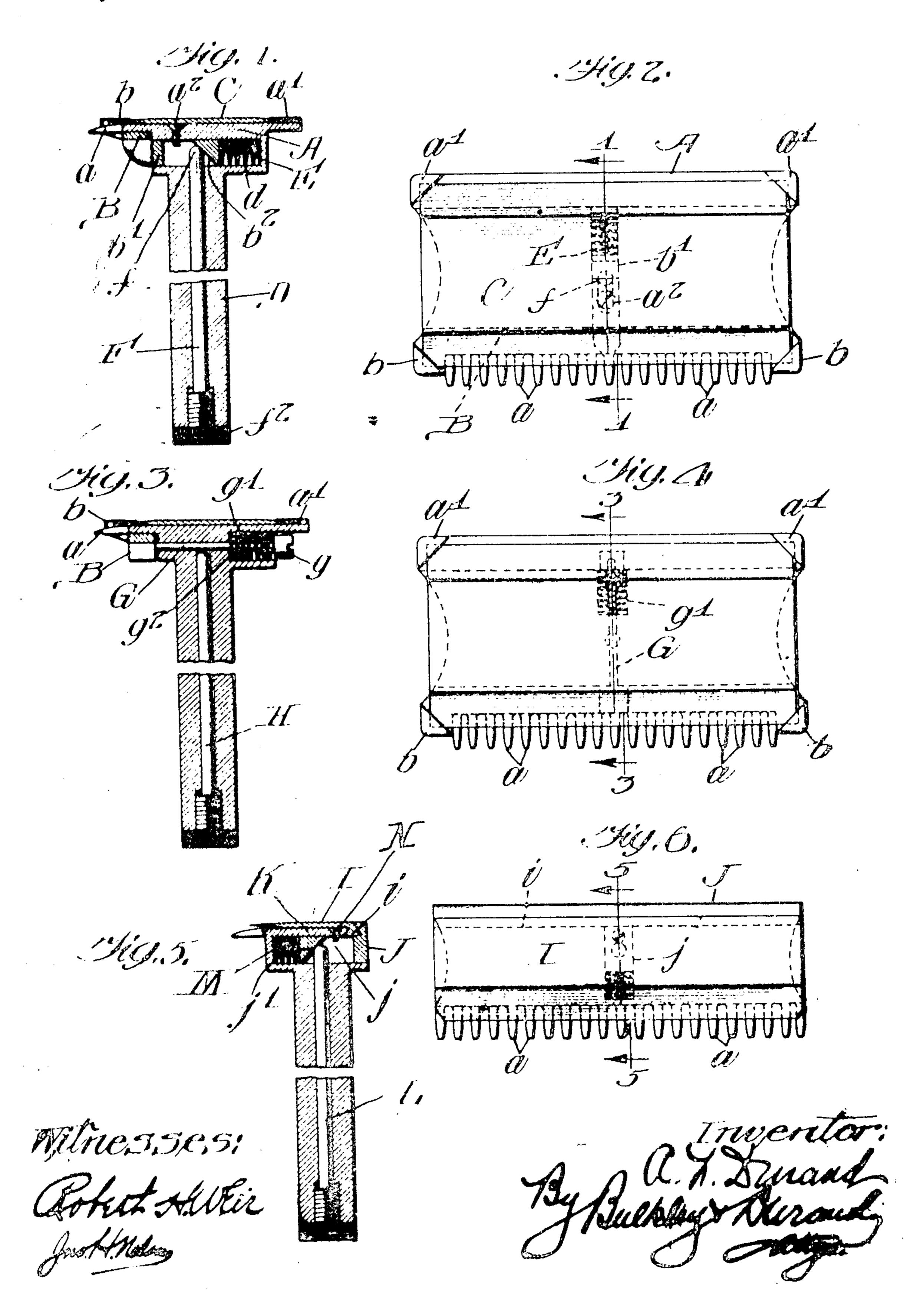
A. F. DURAND. SAFETY RAZOR. APPLICATION FILED MAY 23, 1906.

958,699.

Patented May 17, 1910.



UNITED STATES PATENT OFFICE.

ARTHUR F. DURAND, OF CHICAGO, ILLINOIS.

SAFETY-RAZOR.

958,699.

Specification of Letters Patent. Patented May 17, 1910.

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To all whom it may concern:

Be it known that I. ARTHUR F. DURIND, on the nut g. a citizen of the United States of America. In Figs. 5 and 6 the rear edge of the blade

15 my invention consists in matters bereinafter | M moves the jaw outwardly. With this arset forth and claimed.

1 is a sectional view of a razor embodying | rising above the same. the principles of my invention: Fig. 2 a plan! In the forms shown in Figs. 1 to 4 the 75 view similar to Fig. 1. showing another form | blade is double edged. of my invention; and Fig. 6 is a plan of | In Fig. 5 the screw N prevents the jaw J 80 25 the same.

In Figs. 1 and 2 the plate A has guard | holder or plate K. teeth a and rear holding lugs a. The clamping jaw E has holding lugs b and a stem b'. Said jaw is adapted for movement 30 in the plane of the blade C, and has a bevel b2 in its stem. The handle D is rigid with the plate A and provided with a socket & for said stem. A spring E presses the stem outward and tends to move the jaw B away 35 from the blade. Said holding lugs each engage and overhang a corner of the blade, A screw a² acts on a stop to prevent the stem from fulling out of its socket. The hundle is hollow and provided with an operating 40 screw F. Said operating sqrew has an upper end portion f adapted to engage the bevel b. A thumb piece f' is secured to the screw for operating the same. When the screw F is rotated one way the end f moves down-45 ward and allows the jaw B to disengage its | lugs from the blade. The blade can then be lifted from the plate A. When the screw is rotated the other way the end f then moves up and causes the jaw to engage and hold; 50 the blade.

In Figs. 3 and 4 the stem G of the movable jaw is provided with a nut y. A spring g' is interposed between this nut and the shoulder give The screw II has its upper end adapted to engage the said stem G. With this arrangement the blade can be removed

by loosening the screw H and then pushing

and resident of Chicago. Cook county. Illi: I is not sharpened and is provided with a 60 5 nois, have invented a certain new and useful; downwardly depending lip or ridge i. The Improvement in Safety-Razors, of which the ! movable jaw J is at the rear instead of at following is a specification. the front. This jaw is adapted to clamp the My invention contemplates certain im lip or ridge i against the rear edge of the provements which are directed more espe- plate K upon which the blade rests. Said 65 10 cially to the idea of having the upper or jaw has a stem j provided with a bevel top surface of a safety razor blade uncovered | //. It will be understood of course that said or left fully exposed and thus adapted to be bevel is formed at the end of a slot in said held flat-wise upon the cheek of the user. | stem, as shown in Fig. 5. The upper end of To the foregoing and other useful ends | the screw L engages said bevel. A spring 70 rangement the entire upper surface of the In the accompanying drawings Figure | blade is exposed, and there are no projections

20 of the same: Fig. 3 is a view similar to Fig. Topper surface of the blade is fully exposed. 1. showing another form of my invention; and the lugs do not rise but slightly above Fig. 4 is a plan of the same: Fig. 5 is a such surface. In these forms, however, the

from being disconnected from the blade

In each form of my invention, the cavity for the spring is located midway between the ends of the blade. Thus the stem and spring 85 are, in each case, located centrally of the holder. In this way the ends of the holder are alike and the razor is balanced.

What I claim as my invention is:---1. In a safety razor, the combination of a 90 blade, a plate provided with a guard, a clamping jaw movable in the plane of said blade, means for supporting said jaw for movement in the plane of the blade, and a handle, a screw operable at the lower end 95 of said handle, and means engaged by said

screw for locking said jaw. 2. In a safety razor, the combination of a double edged blade, a guard, a movable jaw provided with a pair of lugs engaging and 100 overhanging the two forward corners of said blade, a plate provided with two lugs engaging and overhanging the two rear corners of said blade, a stem on said jaw extending toward the rear of said plate, a 105 spring holding the jaw in one direction, and a screw extending upwardly and engaging suid stem, suid plate provided with a handle at the lower end of which said screw is operable.

3. In a safety razor, the combination of a double edged blade, a holder provided with

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a scat for the blade and holding lugs for said blade holding device arranged lengththe corner portions thereof, each lug re- wise of the handle, and means coöperating cessed to receive and overhang a corner por- therewith whereby the normal action of the tion of the blade, the two front lugs being spring is opposed and overcome to effect the 5 connected to form a pair, the two rear lugs. being connected to form another pair, means for supporting one pair of lugs for movement toward and away from the other pair, means including a serev extending length-10 wise of the handle for keeking the lugs against relative movement when the blade is in place, a guard for the blade, a handle rigid with one pair of lugs, and a sliding connection between the handle and movable pair of 15 lugs, engaged by said screw, said lugs presserving and overhanging opposite edges of 60 venting edgewise displacement of the blade the blade and holding it flatwise on the blade in all directions.

reversible double edged blade, a holder pro- under side of the blade seat, means on said 20 vided with front and rear holding lugs, blade holding device arranged lengthwise 65 each lug holding the blade against endwise and sidewise displacement, means integral with whereby the normal action of the the blade to hold the same flatwise in place, insertion and removal of the blade. 25 on said holder, a guard for the cutting edge ! of the blade, a handle for the holder, and for said blade, comprising two plates exmeans including a sliding connection in the tending longitudinally of the blade, means holder engaged by the upper end of a rotary for moving one plate transversely of the serew extending lengthwise of the handle for blade, to grip and release the blade, the top 30 locking some of said lugs relatively to the of the blade being exposed, said means com- 75 others to grip the blade.

a flat rectangular blade having one or more on said stem, said holder having a cavity cutting edges, a blade holding device there- for said spring, which cavity is disposed clamping jaws, a spring normally actuating | whereby the said stem and spring are disone of them in the plane of the blade, a posed centrally of the holder, and the oppoblade seat on one clamping jaw. a guard site ends of the latter are of like formation, for the cutting edge or edges, means on said for the purpose set forth. 40 jaws receiving and overhanging opposite! edges of the blade and holding it flatwise 21st day of May, 1906. on the blade seat and fixed from displacement in any direction, a centrally disposed handle rigid with one of said jaws on the 45 under side of the blade sent, and means on

insertion and removal of the blade.

6. In a safety razor, the combination of flat rectangular blade having one or more cutting edges, a blade holding device therefor comprising a pair of clamping jaws, one fixed and one movable thereon, a spring nor- 55 mally actuating the movable clamping jaw in the plane of the blade, a blade seat on said fixed clamping jaw and a guard for the cutting edge or edges, means on said jaws resent and fixed from displacement in any di-I. In a safety razor, the combination of a prection, a centrally disposed handle on the of the handle, and means cooperating therewith the said lags for engaging the top of spring is opposed and overcome to effect the

7. In a razor, a rectangular blade, a holder 70 prising a stem extending transversely of the 5. In a safety razor, the combination of blade, below the latter, and a spring acting 35 for comprising a pair of relatively movable; midway between the two ends of the blade, 80

> Signed by me at Chicago, Illinois, this 85 ARTHUR F. DURAND.

Witnesses:

SARAH LEWIS, JENNIE NORBY.