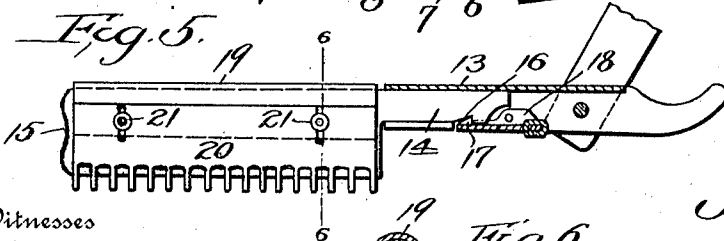
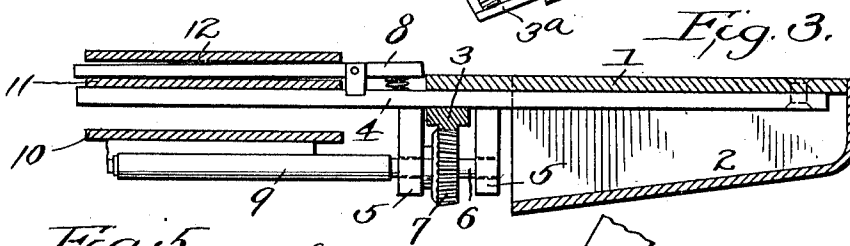
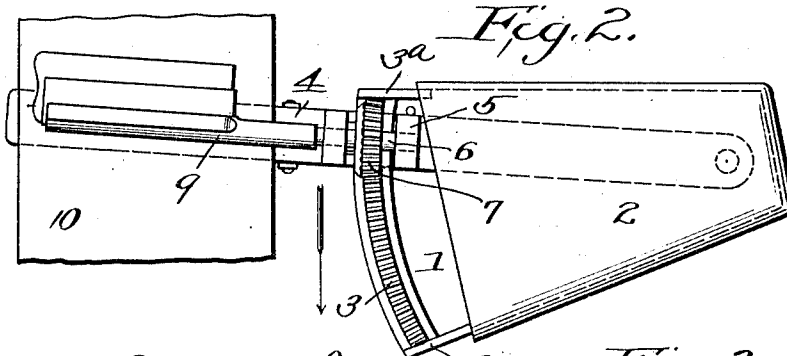
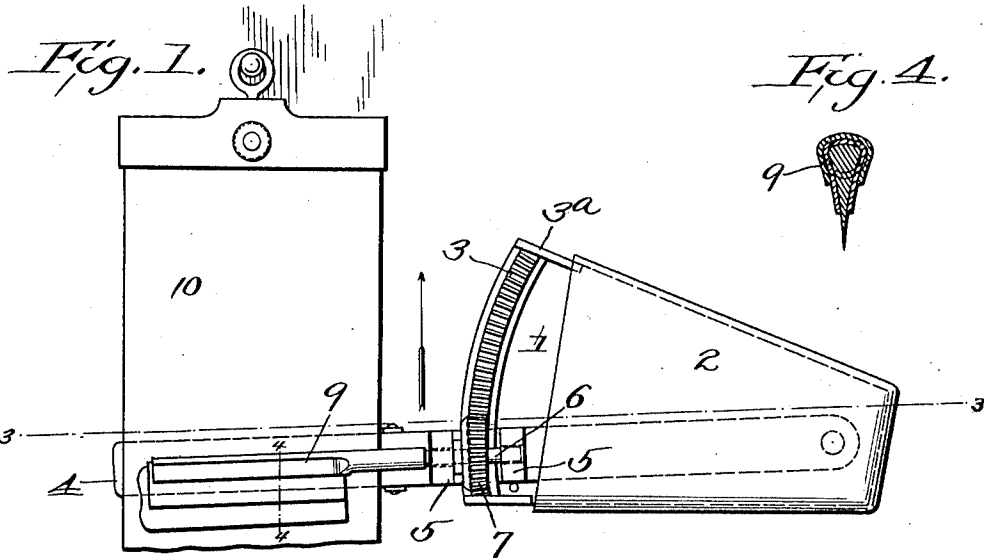


J. F. GAU.
 RAZOR STROPPING DEVICE.
 APPLICATION FILED JUNE 19, 1912.

1,061,468.

Patented May 13, 1913.



Witnesses

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UNITED STATES PATENT OFFICE.

JOSEPH F. GAU, OF ST. PAUL, MINNESOTA.

RAZOR-STROPPING DEVICE.

1,061,468.

Specification of Letters Patent.

Patented May 13, 1913.

Application filed June 19, 1912. Serial No. 704,502.

To all whom it may concern:

Be it known that I, JOSEPH F. GAU, a citizen of the United States, residing at St. Paul, in the county of Ramsey and State of Minnesota, have invented a new and useful Improvement in Razor-Stropping Devices, of which the following is a specification.

This invention relates to a razor stropping device and the object of the invention is to provide means for stropping a razor blade of the ordinary kind, giving the same the diagonal stroke usually employed in stropping by hand, the device including means for automatically reversing the blade at the end of each stroke.

The invention also includes means for detachably connecting a blade of this kind to a suitable holder, since it is necessary to detach the blade from the ordinary handle in order to insert the same in the holder of the stropping machine.

The invention also includes a guard for such blade so that the same can be converted into a safety razor.

In the accompanying drawings, Figure 1 is a plan view, the parts being shown in the position occupied upon the up stroke. Fig. 2 is a plan view, the parts being shown in the position occupied during the down stroke. Fig. 3 is a section upon the line 3—3 of Fig. 1. Fig. 4 is a detail section on the line 4—4 of Fig. 1. Fig. 5 is a sectional side view illustrating the guard and the manner of connecting the blade to a handle of the ordinary type. Fig. 6 is a cross section upon the line 6—6 of Fig. 5.

In constructing the device, I employ an approximately segmental shaped base 1, of a suitable size to conveniently hold in the hand, said base being partially inclosed by a suitable cover 2. Adjacent the curved end of the base are suitable brackets 3^a, which support a curved rack bar 3, said bar being held away from the base by means of the brackets. Pivoted upon the base is a bar 4, which swings between said base and the rack bar 3 and carries blocks 5, which are arranged respectively upon opposite sides of the rack bar, and said blocks carry a shaft 6 upon which is mounted a gear wheel 7 adapted to travel upon said rack bar.

Upon the underside of the bar 4 is pivoted a spring pressed gripping jaw 8. A suitable blade holder 9 is fixed upon the outer end of the shaft 6 and is rotated with it. Preferably I employ three strops 10, 11 and

12, the outer strops 10 and 12 being employed for the purpose of sharpening the razor blade, only one being used at a time, while the intermediate strop or strip 11 is gripped by the jaw 8, being held between said jaw and the bar 4.

The handle of the razor is provided with a shank holder 13 adapted to receive the shank 14 of a razor blade 15, and said shank is provided with a notch 16 adapted to be engaged by a suitable detent 17 carried by a pivoted catch 18, pivoted within the shank holder 13. A sectional safety guard is employed in connection with this blade, said guard consisting of a substantially U-shaped member 19 adapted to have a sliding fit upon the back of the razor blade and a guard plate 20, provided with the U-shaped teeth and adapted to be adjustably clamped by means of set screws 21 to the member 19.

The various strops are spaced apart by any suitable means and are also provided at their upper ends with any suitable means for hanging the same upon a hook or other support, and in use the intermediate member 11 of the strop is gripped by the jaw 8, the base 1 is held in the hand, and upon the up stroke the bar 2 will swing into the position shown in Fig. 1, thus throwing the razor blade into proper position to bear upon either the strop 10 or 12 as the case may be. At the end of the up stroke and upon the commencement of the down stroke the bar will take the position shown in Fig. 2, due to the fact that the frictional contact between the jaw 8, the bar 4 and the intermediate member 11 of the strop will practically hold the bar 4 stationary while the base 2 travels beneath the gear wheel 7 rotating said gear and reversing the position of the blade. After the parts have reached the position shown in Fig. 2 there is no longer a possibility of relative movement between the base 1 and the bar 4, without change of direction, and consequently the entire device including the blade will be carried along the strop. This operation is repeated as often as necessary, the plate automatically reversing at the commencement of each stroke.

What I claim is:—

1. A device of the kind described comprising a base adapted to be held in the hand, a rack bar carried by the base, a bar pivoted upon the base, a shaft mounted upon said bar, a gear carried by said shaft, and engaging said rack bar, blade holding means

connected to said shaft, and a jaw carried by the said bar and adapted to grip a strap.

2. A device of the kind described comprising a base, means partially inclosing said
5 base, brackets carried by the base, a curved rack bar supported by the brackets spaced from the base, a bar pivoted upon the base and swinging beneath said rack bar, blocks carried by the pivoted bar and arranged
10 upon opposite sides of said rack bar, a shaft mounted upon said blocks, a gear mounted between the blocks and adapted to engage the rack bar, a blade holder carried by the
15 jaw mounted upon the side of the pivoted

bar opposite the said blade holder, as and for the purpose set forth.

3. A razor stropping device comprising a base, a pivoted bar carried by the base, means supported from said bar for holding 20 a razor blade and a spring pressed jaw carried by said bar, and adapted to engage one of a pair of flexible members, the blade being stropped engaging the other of said members.

JOSEPH F. GAU.

Witnesses:

ERNEST BIRCHALL,
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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."