

937,786.

Fig. 3. A perspective view of the device, showing the handle H, the frame 3, and the internal components including the spring 3, the lever 4, and the contact points a, a', a'', b, B, B'.

Fig 5.

Fig. 3.

Fig. 4.

Inventor
Morris Gallae
By Walter Murray
Attorney

UNITED STATES PATENT OFFICE.

MORRIS GALLAS, OF CINCINNATI, OHIO.

RAZOR-STROPPING DEVICE.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, MORRIS GALLAS, a citizen of the United States of America, and resident of Cincinnati, county of Hamilton, and State of Ohio, have invented certain new and useful Improvements in Razor-Stropping Devices, of which the following is a specification.

My invention relates to devices which are adapted for stropping safety razor blades and in which the blade is mounted in a holder to which motion is imparted by the movement of the strop, to cause the blade to bear against the strop.

The object of my invention is to provide a razor stropping device of the character described, which consists of a minimum number of parts in a compact form and in which either one of two edges of a blade may be stropped readily and efficiently.

Another object of the invention is to provide a blade holder into which the blade may be easily and firmly inserted. This object is attained by the means described in the specification and illustrated in the accompanying drawings, in which,

Figure 1 is a front elevation of a razor stropping device embodying my invention. Fig. 2 is a side elevation of the same. Fig. 3 is a sectional view taken upon the line 3—3 of Fig. 1. Fig. 4 is a perspective view of the blade casing. Fig. 5 is a detail view of the blade.

The razor stropping device consists of end plates, A, A', supplied with a hanger, a, and between which are mounted three friction rollers, B, B', and B². Spaced at a distance from the roller, B, journal studs, d, d', are journaled in the plates, A, A'.

Mounted in the plate, A', between the friction roller, B', and the journal stud, d', is a stud shaft, a'. Friction roller, B', has secured upon its end a gear pinion, b. Journal stud, d', has secured upon its end a gear pinion, d¹⁰, and stud shaft, a', has secured upon its end an intermediate gear pinion, a², which intermeshes with gear pinions, d¹⁰ and b. An ordinary razor strop, H, is to be inserted between the friction roller, B', and the journal studs, d, d', and is to bear against the friction rollers, B, B². Upon the journal studs, d, d', a blade holder, D, is secured. Blade holder, D, is made from a sheet of metal which is curved to form sides, d², d², whose meeting edges are held together by

the spring in the metal. The sheet of metal is cut away at the U-bend of the metal, leaving open edges between which the blade casing, E, may be inserted, but leaving the U-bend of the metal intact at d⁴, d⁵, to form a seat for the journal studs, d, d', to which the ends, d⁴, d⁵, are secured. The sides, d², d³, have notches, or thumb holes, d⁶, d⁷, cut centrally at their separated edges. Adjacent to the meeting edges the holder has stop lugs, d⁸, d⁹, projecting inwardly, as indicated in dotted line Fig. 1, to contact with the lugs upon the ends of the blade casing.

The blade casing, E, consists of two plates, e, and e', which have lugs at each of their ends, the lugs at one of the ends being formed into a hinge, e². Plate, e, has inwardly projecting circular studs, e³, e⁴, and plate, e', has perforations, e⁵, e⁶, situated so as to register with the studs, e³, e⁴, when the casing is closed. The blade, G, has perforations, g, g', to fit over the studs, e³, e⁴ and has knife edges, g², g³.

In use, a razor blade being inserted in the casing, E, and the plates of the casing being closed together, the casing is inserted between the open edges of the holder, D, and pushed inward until the lugs of the casing engage the stop lugs, d⁸, d⁹, of the holder, D. The hanger, a, having been engaged with any suitable fixed hook, or such other stationary device, the strop is drawn toward the person stropping the device. Looking at Fig. 3, supposing the strop to be drawn in the direction of the arrow—it causes the roller, B', to rotate in the same direction until the blade is brought into contact with the strop by the rotation of the friction roller, B', being conveyed through the intermediate gear wheel, a², to the stud, d'. Further motion of the strop in the same direction causes the blade to be held firmly in contact with the strop. The friction rollers, B, B², are spaced in a relation to the friction roller, B', such as to present the strop at the proper angle to the blade. When the strop is drawn in a direction opposite to the arrow shown in Fig. 3, rotation is imparted to the friction roller, B', and thence to the journal stud, d', thereby rotating the blade-holder about the journal studs, d, d', so as to cause it to contact the strop between the friction rollers, B' and B². Thus the edge, g², of the blade may be stropped upon each side. When it is desired to strop the opposite edge

of the blade, the casing, E, is removed from the holder and placed in a reversed position to that just described.

What I claim is:

5 1. In a razor stropping device the combination of metal plates, a friction roller and a blade holder journaled between the plates, a means of coupling the friction roller to the blade holder and two friction rollers jour-
10 naled between the plates upon opposite sides of the first friction roller which is positioned between the second friction rollers and the blade holder.

2. The combination of a blade holder for
15 a razor stropping device consisting of two

metal plates held yieldingly together at one edge and held apart at their opposite edges and having inwardly projecting studs near their converging edges, and a casing for the blade consisting of plates having lugs pro- 20
jecting from their ends and adapted to engage the studs when the casing is inserted in the holder so as to permit the blade to project properly beyond the converging edges of the holder.

MORRIS GALLAS.

Witnesses:

WALTER F. MURRAY,
AGNES McCORMACK.