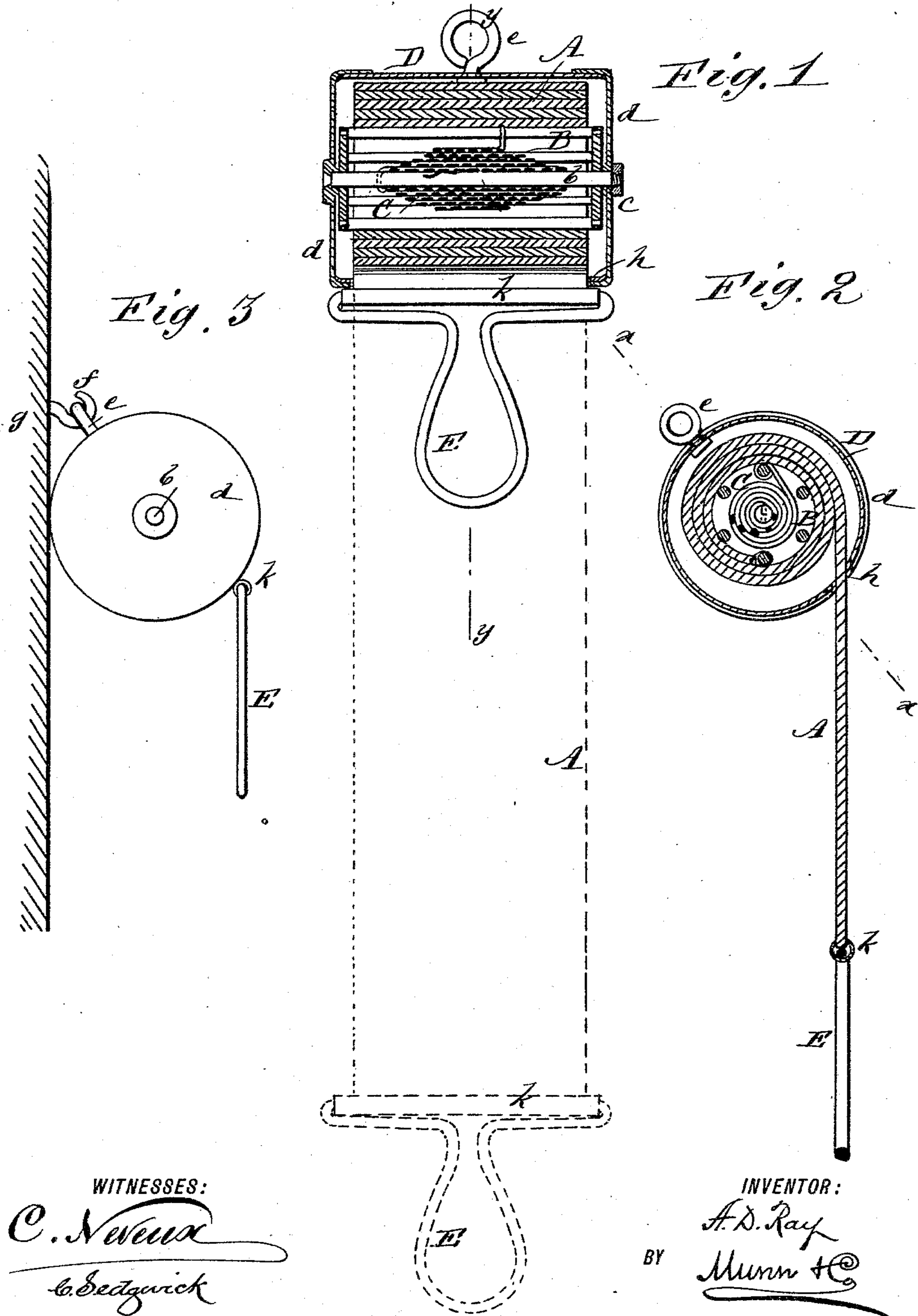


(No Model.)

A. D. RAY.
DEVICE FOR STROPPING RAZORS.

No. 414,447.

Patented Nov. 5, 1889.



WITNESSES:
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UNITED STATES PATENT OFFICE.

ALBERT D. RAY, OF ELGIN, ILLINOIS.

DEVICE FOR STROPPING RAZORS.

SPECIFICATION forming part of Letters Patent No. 414,447, dated November 5, 1889.

Application filed August 6, 1888. Serial No. 282,052. (No model.)

To all whom it may concern:

Be it known that I, ALBERT D. RAY, of Elgin, in the county of Kane and State of Illinois, have invented a new and useful Improvement in Devices for Stropping Razors, of which the following is a full, clear, and exact description.

This invention consists in a device of novel construction for stropping or sharpening razors, designed to be hung upon a wall, window-casing, bureau, or other convenient place or structure, the same combining a flexible strop, a spring-roll to which said strop is attached at its one end, and a casing, with attached carrying-swivel, having the spring-roll within it and adapted to draw and roll up the strop within it and to permit of its being drawn out therefrom against the tension of the spring-roll when required for use, substantially as hereinafter described, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 represents a longitudinal sectional view of the device upon the line $x x$ in Fig. 2 with the strap or strop rolled up within the casing, and showing it by dotted lines when extended or partially drawn out of the casing. Fig. 2 is a transverse section upon the line $y y$ in Fig. 1, and showing the strop as partly extended; and Fig. 3, an end view of the device with the strop rolled up and as pendent on or from a wall or other surface.

A indicates the flexible strap or strop made of leather or other suitable material—such, for instance, as is in common use by barbers and others for sharpening razors—and which has its opposite sides, usually of different finish, available for stropping purposes. The one or inner end of this strop A is attached to a hollow roll B, around which it is adapted to be wound or reeled. Within this roll and attached to it is a longitudinal centrifugal spiral spring C, composed of a plurality of cylindrical coils in one spring, whereby the number of revolutions of the drum is greatly increased and the tension thereof is equalized, and which serves by rotating the roll to

wind the strop on it, thus making the roll B a spring one. The spring C is attached at its one end to the roll B and at its other end to a shaft b , upon which the spring is coiled and on which the roll revolves. This shaft b is firmly secured at its ends, preferably by riveting at its one end and by a nut c , fitting a screw-thread at its other end, or otherwise to flanged end caps $d d$ of a box, casing, or body part D, preferably of cylindrical shape and of sufficient capacity to carry the spring-roll and strop when wound up on the roll within it. To the casing or body part D thereof is attached midway of its length, or thereabout, an eye-shaped swivel e , for suspending the whole device upon a hook-shaped wood-screw f in the wall g , or any other convenient place or structure from which it is desired to hang the razor-stropping device. The opposite side of the casing to that occupied by the eye-swivel is slotted, as at h , to provide for the working of the strop in or out of the casing, which is preferably made of metal.

To provide for drawing the strop out against the tension of the spring-roll and to arrest it when drawn by the latter into the casing, said strop is provided with a handle E at its outer end. This handle is represented as made of a piece of wire bent into the form of a handle and arranged to fit at its ends into a tube k , pressed into or otherwise secured to the leather of the strop.

To use the device, which is suspended by the swivel e , as described, the strop A is drawn out by its handle E from the box or casing against the tension of the spring-roll and the razor stropped, as usual, after which the strop is released and reeled again on the roll by the action of the spring within the box or casing.

When the strop is drawn out for use, the swivel e provides for the easy turning of the box or casing without taking it from its hook, so as to expose both sides of the strop alternately to strop the razor, as required.

The device is compact, but little or not at all in the way, handy, and always ready for use, and when the strop is reeled within the box or casing it is protected from dust, and the device does not present that unsightly ap-

pearance which a strop directly suspended from a wall or other place does.

Having thus described my invention, what I claim as new, and desire to secure by Letters
5 Patent, is—

In a device for stropping razors, the combination of a slotted box or casing D, having removable flanges, end caps *d d*, the roll B therein, the longitudinal centrifugal cylin-

drical spiral spring C, the shaft *b*, and the reversible strop A, connected at its inner end to said roll, all arranged and operating substantially as shown and described, and for the purpose set forth.

ALBERT D. RAY.

Witnesses:

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