

W. P. HARTMAN.
 RAZOR STROP.
 APPLICATION FILED MAR. 16, 1909.

931,758.

Patented Aug. 24, 1909.

Fig. 1.

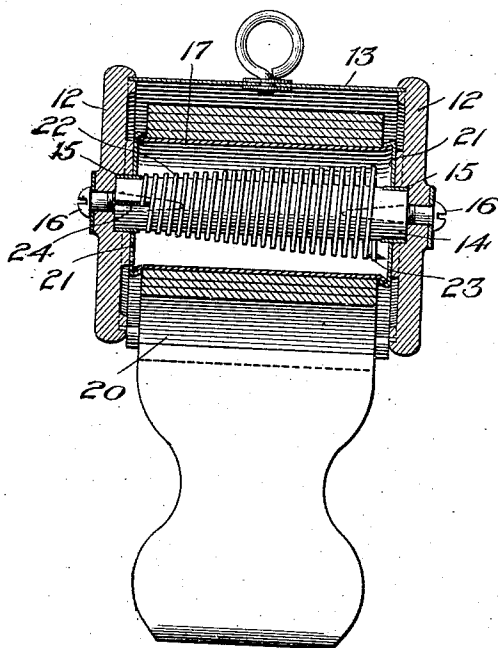


Fig. 2.

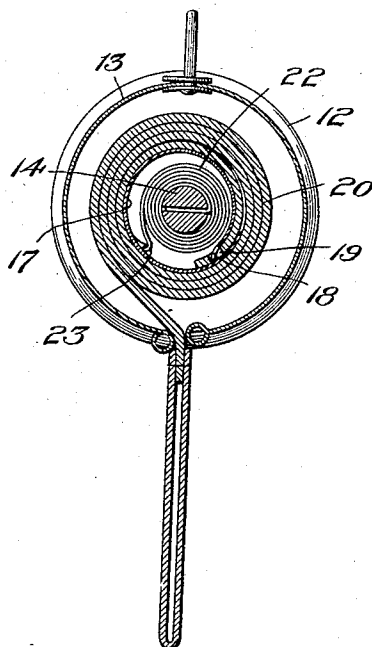


Fig. 3.

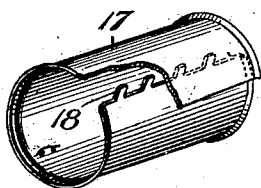
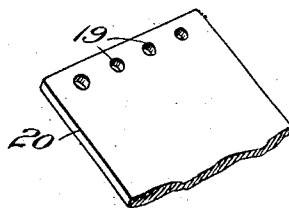


Fig. 4.



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UNITED STATES PATENT OFFICE.

WARREN P. HARTHAN, OF WORCESTER, MASSACHUSETTS, ASSIGNOR TO J. R. TORREY AND
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RAZOR-STROP.

931,758.

Specification of Letters Patent.

Patented Aug. 24, 1909.

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To all whom it may concern:

Be it known that I, WARREN P. HARTHAN, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented or discovered certain new and useful Improvements in Razor-Strops, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to that class of razor strops in which the strop is wound in a suitable casing by means of a spring which is placed under tension when the strop is drawn out of the casing and the stress or recoil of which will rewind the drawn-out strop in the casing.

The present invention is an improvement upon the form of spring-wound strop covered by patent to Blasdel, No. 776,213, November 29, 1904, and relates more particularly to the construction of the winding drum which is inclosed within the casing, and the means by which the end of the strop is attached to said winding drum.

In the accompanying drawings, Figure 1 is a central longitudinal section illustrative of the invention, and Fig. 2 a transverse section thereof. Fig. 3 is a detail perspective view, partly broken away, of a winding drum to show the means by which the end of the strop is connected therewith. Fig. 4 is a detail view of the end of the strop which is to be attached to the winding drum.

Referring to the drawings, the casing within which the strop is wound comprises two wooden end heads 12 and a cylindrical sheet metal casing portion 13 the ends of which are fitted into circular grooves near the peripheries of the said end heads, as in the construction shown and described in said patent. The end heads 12 are provided on their inner sides with central recesses for the reception of the ends of a stationary shaft 14 provided at its ends with removable sheet metal sleeves 15, the casing parts being removably secured together by means of screws 16 passing through said end heads and engaging the shaft 14. Within the said casing and loosely surrounding the said shaft is a winding drum 17 which consists of a coiled piece of sheet metal having overlapping ends, the inner end being provided with outwardly bent teeth 18 for engagement with holes 19 in the end of the strop

20, and the overlapping portion of said drum outside of the said teeth serving to retain the strop in engagement with the latter. The cylindrical body of the drum is preferably formed slightly flaring at its ends and over the flanges afforded by said flaring ends are fitted removable heads or caps 21 having inturned lips engaging said flange or flared ends and which caps serve to hold the overlapping outer end of the drum strip against the strop, and thus securely retain the latter in engagement with the teeth 18. The said end caps are provided with openings loosely encircling the shaft 14 and which openings receive the metal sleeves 15 which afford bearings for said drum at the walls of said openings.

In attaching the strop 20 to the winding drum the end heads or caps 21 of the latter are removed or omitted and the teeth 18 of the drum are then entered into the holes 19 of the strop, and the end heads or caps are then engaged with the flared or flanged ends of the drum, thus pressing the overlapping end of the strip of metal forming the drum against the portion of the strop held by the teeth 18 inside of or beneath the said overlapping portion of the drum, and thus positively preventing the disengagement of said teeth from said strop.

Encircling the shaft 14, within the drum 17, is a coil spring 22 preferably tapering from end to end, one end of said spring being provided with a hook 23 which engages said drum by entering a hole or aperture therein, the other end of said spring being bent to engage a slit 24 at one end of the shaft 14, the said spring 22 thus connecting the said shaft 14 and the winding drum 17 in such a manner that when the strop, after being wound on the drum, is drawn out of the casing the said spring will be placed under tension, so that the strop, when released, will be automatically coiled within the casing and on the winding drum by the said spring, said drum being turned, to wind up the strop, by said spring.

The construction hereinbefore described, and by which the strop is connected with the spring-actuated winding drum, is simpler and less expensive to manufacture than the construction shown and described in said patent whereby the strop is attached to the winding drum.

Having thus described my invention I claim and desire to secure by Letters Patent:

1. A razor stropping device comprising a casing composed of end heads and a metallic cylindrical portion between the same, a stationary shaft-connecting said end heads, a revoluble winding drum consisting of a coiled strip of sheet metal having an inner portion provided with teeth and an outer portion overlapping said teeth, a strop to be coiled within the said casing on said drum and provided at its inner end with holes engaged by said teeth, means for holding said outer portion against said strop to prevent disengagement of said teeth from said strip, and a spring interposed between and connected with said shaft and drum, said spring serving to retract said strop within said casing after it has been drawn out.
2. A razor stropping device comprising a casing composed of end heads and a metallic cylindrical portion between the same, a stationary shaft connecting said end heads, a revoluble winding drum consisting of a

coiled strip of sheet metal comprising an inner portion provided with teeth and an outer portion overlapping said teeth, the cylindrical body of said drum being slightly flared or flanged at its ends, a strop to be coiled within the said casing on said drum and provided at its inner end with holes engaged by said teeth, removable heads or caps engaging the flared or flanged ends of said drum and serving to press the overlapping portion thereof against the part of the strop engaged by said teeth, to prevent disengagement of said strop from said teeth, and a spring interposed between and connected with said shaft and drum, said spring serving to retract said strop within said casing after it has been drawn out.

In testimony whereof I affix my signature, in presence of two witnesses.

WARREN P. HARTHAN.

Witnesses.

FRANK L. HALE,
E. H. H. WILSON.