No. 712,811. Patented Nov. 4, 1902.

J. P. KNIGHT.

TOOL FOR SURFACING RAZOR STROPS.

(Application filed July 5, 1902.)

(No Model.)

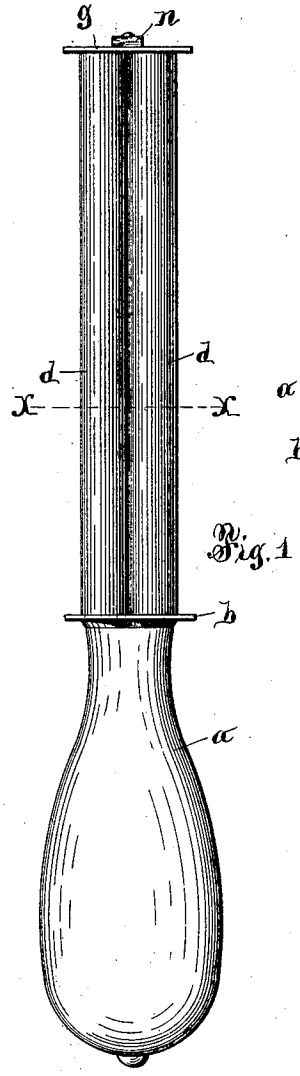



Fig. 1

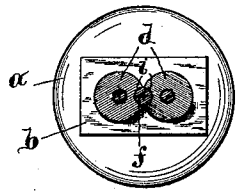



Fig. 3

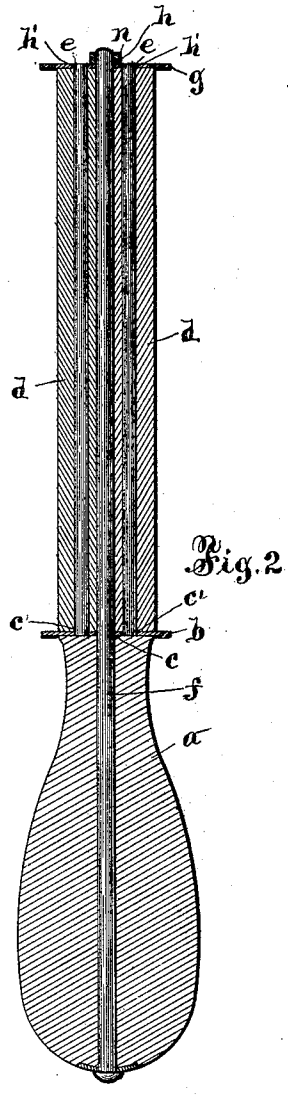



Fig. 2

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# UNITED STATES PATENT OFFICE.

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## TOOL FOR SURFACING RAZOR-STROPS.

SPECIFICATION forming part of Letters Patent No. 712,811, dated November 4, 1902.

Application filed July 5, 1902. Serial No. 114,340. (No model.)

*To all whom it may concern:*

Be it known that I, JAY P. KNIGHT, a citizen of the United States, and a resident of Onondaga Valley, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Tools for Surfacing Razor-Strops, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to the class of tools which are employed for applying to the surfaces of razor-strops a coating which expedites the operation of sharpening razors thereon and serves to produce a keener and finer edge on the razor.

The object of this invention is to provide a tool of the aforesaid class which shall be more efficient and convenient in its operation and capable of being readily repaired or adjusted to be supplied with different surfacing material; and to that end the invention consists in the novel construction of the tool hereinafter described, and set forth in the claims.

In the annexed drawings, Figure 1 is a side view of a tool embodying my invention. Fig. 2 is a longitudinal section of said tool, and Fig. 3 is a transverse section on line X X in Fig. 1.

*a* represents the handle of the tool. The upper end of this handle has firmly secured to it a plate *b*, disposed at right angles to the axis of the handle and provided with a central perforation *c* and with perforations *c' c'* at opposite sides of the center.

*d d* represent the strop-surfacing bars, which are disposed parallel side by side and are each composed of material of a different degree of hardness—*i. e.*, one may be composed of zinc and the other of lead or other suitable material. The softer of said bars is designed to apply an abrading-surface to the razor-strop by rubbing the said bar upon the strop. The bar of the harder material is to be subsequently employed in a similar manner to smoothen said abrading-surface on the strop, or both bars may be used simultaneously. The said surfacing-bars *d d* are secured at one end to the handle by means of studs *e e*, projecting from the ends of the bars and inserted into the perforations *c' c'* in the plate *b*. Through the central perforation *c* of said plate projects a tie-rod *f*, which is firmly secured in the handle *a* and passes between the bars *d d* and has its free end screw-threaded and extending beyond the adjacent ends of the bars *d d*. A cap *g* is provided with a perforation *h* in its center and with perforations *h' h'* at opposite sides of said center. Through the central perforation protrudes the end of the tie-rod *f*, while the studs *e e* on the ends of the bars *d d* enter into the perforations *h' h'*. Said cap thus fastens the free ends of the bars *d d* to the tie-rod *f*. A nut *n*, applied to the protruding end of the tie-rod and bearing on the cap *g*, serves to confine the said cap in its engaging position.

The surfacing-bars *d d* may be of the form of cylindrical tubes having stay-rods passing longitudinally through them and protruding through the ends thereof to form the aforesaid studs *e e*. Grooves *i i* in the sides of the bars *d d*, engaging the tie-rod *f*, prevent said bars from turning.

The described construction of the surfacing-tool allows the surfacing-bars *d d* to be readily removed for repairs or renewal when required, said removal merely requiring the nut *n* to be unscrewed from the tie-rod *f* and the cap *g* to be stripped from said rod. This allows the bars *d d* to be drawn out of engagement with the plate *b*.

What I claim as my invention is—

1. The improved tool for surfacing razor-strops, which consists of a plurality of surfacing-bars disposed side by side and each composed of a strop-surfacing material of a different degree of hardness, a handle secured to one end of the joined bars, a tie extending from the handle to the free ends of the bars, and a cap securing said ends of the bars to the tie as set forth.

2. A tool for surfacing razor-strops, consisting of a plurality of bars disposed side by side and formed with transversely-rounded faces and each composed of strop-surfacing material of a different degree of hardness, a handle secured to one end of the joined bars, a tie-rod extending from the handle and passing between the said bars, and a cap tying the free ends of the bars to the said rod as set forth.

3. A tool for surfacing razor-strops, consisiting of a handle, a plate affixed to said handle at right angles to the axis thereof and

provided with a plurality of perforations, a tie-rod fastened to the handle and projecting through the central perforation of the plate, surfacing-bars disposed parallel at opposite sides of the tie-rod and provided with studs inserted in perforations of the aforesaid plate, a cap having perforations receiving the end of the tie-rod and adjacent studs of the surfacing-bars, and a nut on the protruding end of the tie-rod confining the cap in its engagement as set forth.

4. A tool for surfacing razor-strops, consisting of a plurality of tubes disposed side by side and each composed of metal of a different degree of hardness, stay-rods passing longitudinally through said tubes and protruding at the ends thereof, a handle having affixed to it a plate perforated to receive the protruding ends of the stay-rods at one end of the joined tubes, a tie-rod extending rigidly from the handle and passing between the tubes, and a cap secured to the free end of the tie-rod and perforated to receive the adjacent ends of the stay-rods as set forth.

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