(No Model.)

P. J. CAESAR.

RAZOR SHARPENER.

No. 526,125. Patented Sept. 18, 1894.

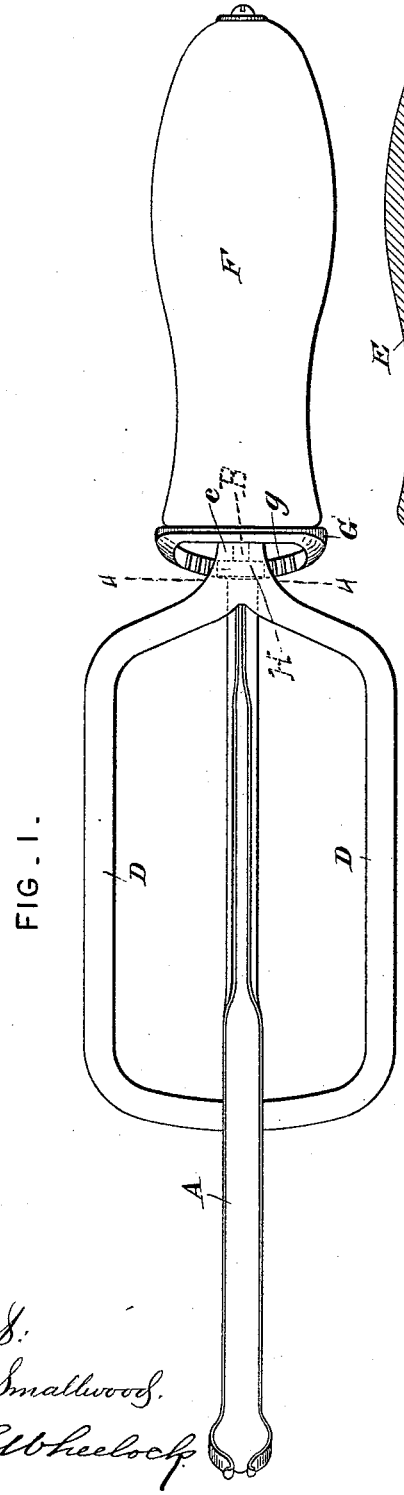

FIG. I.

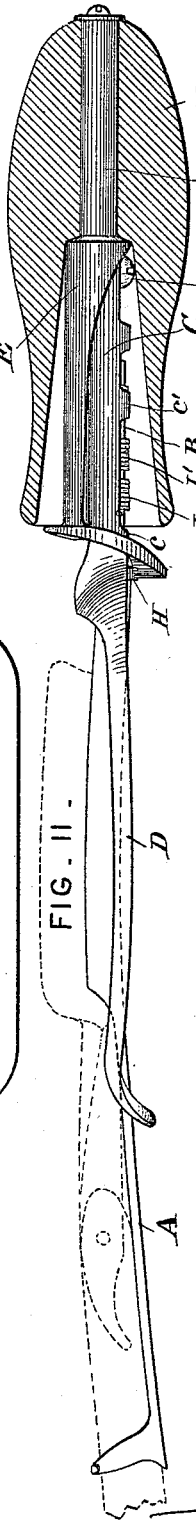

FIG. II.

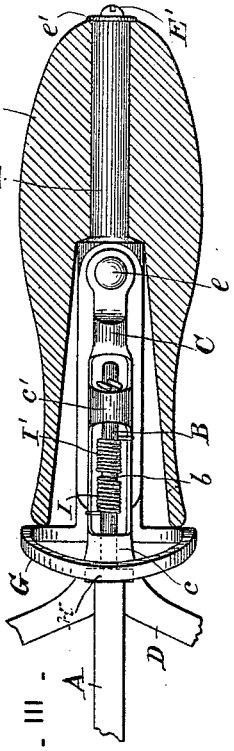

FIG. III.

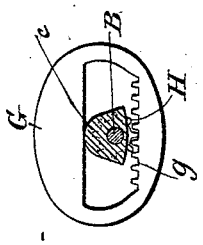

FIG. IV.

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UNITED STATES PATENT OFFICE.

PETER J. CAESAR, OF FERGUS FALLS, MINNESOTA.

RAZOR-SHARPENER.

SPECIFICATION forming part of Letters Patent No. 526,125, dated September 18, 1894.

Application filed April 23, 1890. Serial No. 349,093. (No model.)

To all whom it may concern:

Be it known that I, PETER J. CAESAR, a citizen of the United States, residing at Fergus Falls, in the county of Otter Tail and State of Minnesota, have invented certain new and useful Improvements in Devices for Sharpening Razors, of which the following is a specification.

My invention relates to a device in which a razor is secured and by which it is automatically reversed as the device is moved back and forth over the strop, and consists in certain features to be hereinafter described and then particularized in the claims.

In order that my invention may be fully understood I will proceed to describe the same with reference to the accompanying drawings, in which—

Figure I is a plan view of the device. Fig. II is a side view. Fig. III is an underside view of part of the device, showing the handle in section. Fig. IV is a section on line IV—IV, Fig. I.

The present device is similar in operation to the devices shown and described in my applications, serially numbered 288,899 and 320,261, filed respectively October 23, 1888, and August 9, 1889.

In the drawings, A represents the blade or razor-holder the back of which is bent to conform to the convex back of a razor, and which is secured to or is extended into a short shaft B that is journaled in bearings *c c'* in the stem or extension C of the oblong frame D.

The inner end of the stem C is pivoted at *e* to the shank E on which is revolubly or loosely secured the hollow handle F by means of washer *e'* and screw E' which passes through the washer and outer end of the handle and screws into the end of the shank E.

At the outer end of the shank E is a yoke G through which extends the stem C of the frame D. Fixed on the short shaft B is a small pinion H that is meshed with the rack *g* of the yoke. The pinion is so meshed with the rack that when the device is in its normal condition the pinion will be midway of the rack, and the blade holder presented upwardly.

Between the bearings *c c'* of the shaft B are placed upon the latter reversely acting spiral springs I, I', the inner ends of which are inserted in the opening *b* of the shaft, and the outer free ends of which bear respectively on opposite sides of the stem C.

The under sides of the sides of the oblong frame D are slightly convex.

The operation of the device is as follows:— The razor or other blade being inserted in the holder it is ready to be sharpened. Grasping the handle and bringing the convex sides of the frame D in contact with the strop the device is moved back and forth, each movement in either direction by reason of the friction of the frame against the strop causing the frame to swing away from the direction in which the device is moving, in opposition to the tendency of the springs to retain the frame in central position, and causing the blade holder to turn, bringing the convex edge of the blade in contact with the strop, such strop being made to conform to the convex edge of said blade by the pressure of the convex portions of the frame thereon. The tendency of the springs at each reverse movement of the device is to present the edge of the blade upwardly and away from the strop, the same force automatically returning the frame and holder to central position.

Having thus described my invention, the following is what I claim as new therein and desire to secure by Letters Patent:

1. In a razor sharpening device the combination of a blade-holder, a convex friction device for automatically reversing said holder and for engaging the strop to concave it to receive the convex edge of the blade, substantially as set forth.

2. In a razor sharpening device, the combination of a blade-holder, a swinging frame convex on its under side to concave the strop to receive the convex edge of the blade, and means for automatically returning said blade-holder and swinging frame to their normal position, substantially as set forth.

3. In a razor sharpener, the combination of a suitable blade-holder, a support on which the blade-holder is mounted, and in which it turns upon its axis, a swinging frame and the reversing connections wound upon said

holder, substantially as and for the purpose set forth.

4. In a razor sharpening device, the combination of a swinging frame having a stem, a blade-holder having a shaft journaled in bearings on said stem, and reversely acting spiral springs coiled around said shaft and secured thereto, and having free ends engaging opposite sides of the stem, substantially as set forth.

PETER J. CAESAR.

Witnesses:
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