A. D. BENSON & J. F. HARRIS.

RAZOR SHARPENING DEVICE.

APPLICATION FILED DEC. 10, 1908. RENEWED OCT. 9, 1909.

940,298.

Patented Nov. 16, 1909.

Fig. 1.

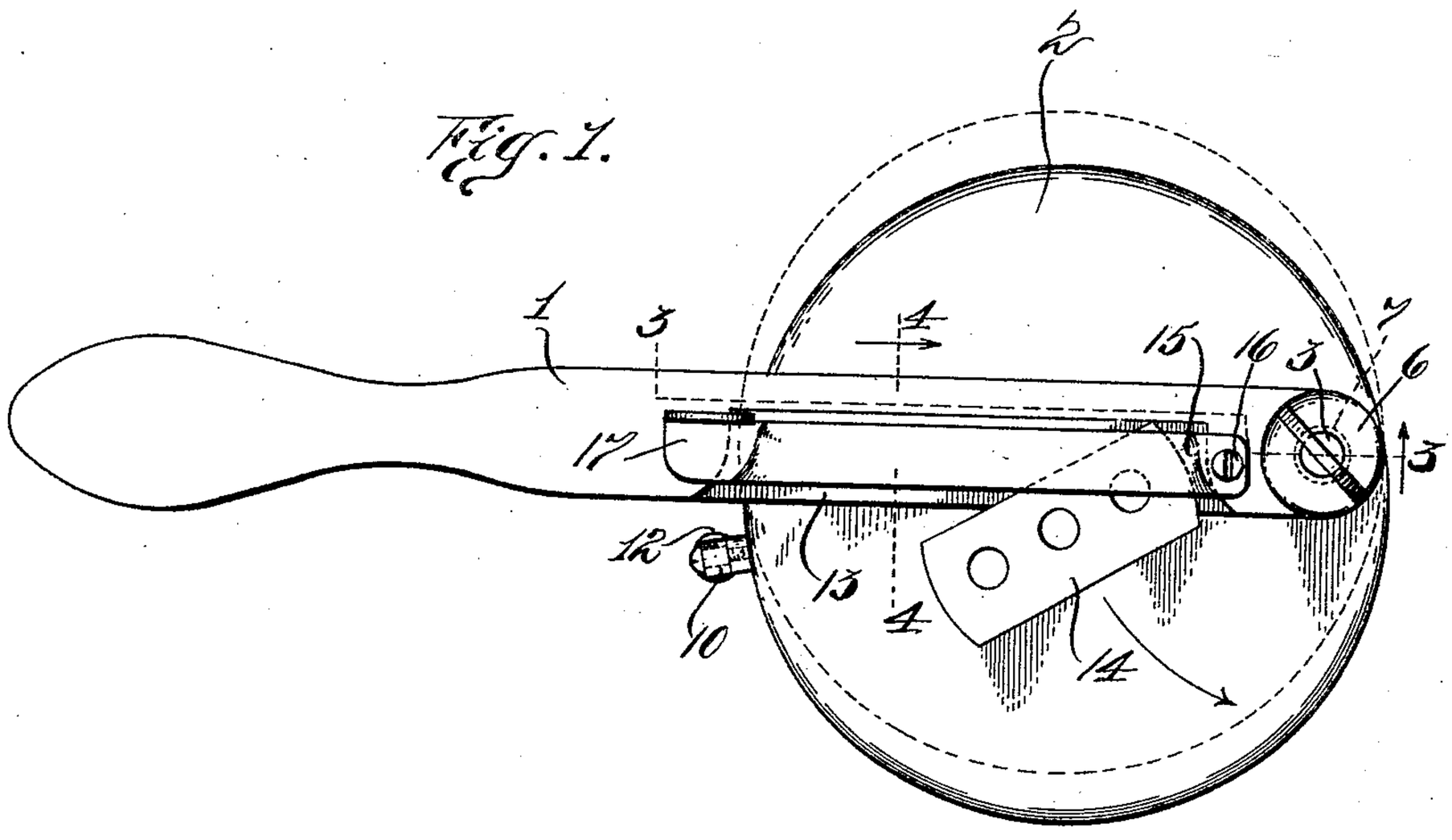


Fig. 2.

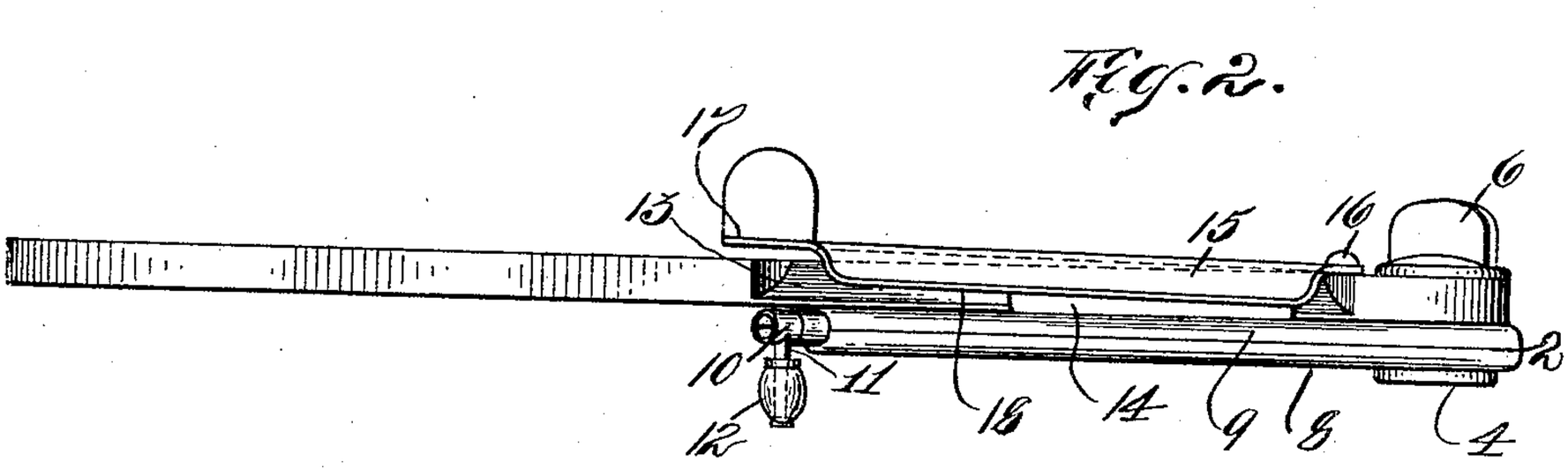
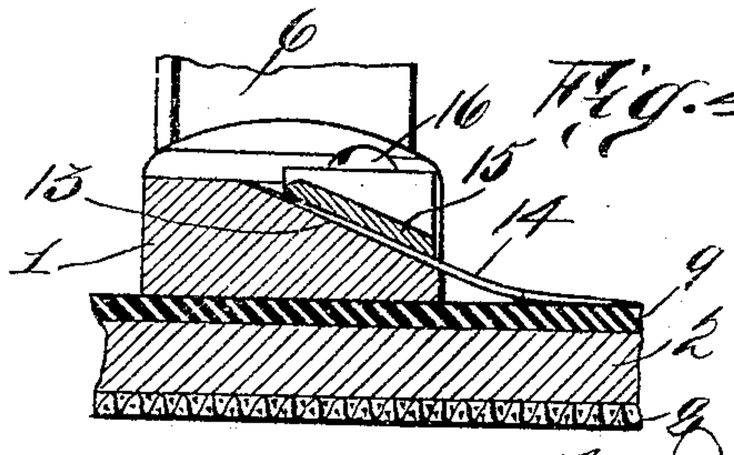


Fig. 3.

Fig. 4.



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UNITED STATES PATENT OFFICE.

ARTHUR D. BENSON, OF NEW YORK, N. Y., AND JOHN F. HARRIS, OF HOBOKEN, NEW JERSEY.

RAZOR-SHARPENING DEVICE.

940,298. Specification of Letters Patent. Patented Nov. 16, 1909.

Application filed December 10, 1908, Serial No. 466,743. Renewed October 9, 1909. Serial No. 521,860.

To all whom it may concern:

Be it known that we, ARTHUR D. BENSON and JOHN F. HARRIS, citizens of the United States, residing at New York city, New York, and Hoboken, New Jersey, respectively, have invented certain new and useful Improvements in Razor-Sharpening Devices, of which the following is a clear, full, and exact description.

Our invention relates to a universal blade honing or stropping device, and our object is to provide a simple and inexpensive construction which is not only adapted for use with any of the ordinary razor blades now known, but which will also enable a shear-like action of the stropping surface to be obtained upon the blade such as is only possible in hand stropping by a skilful operator.

We have described in the specification and shown in the drawings a preferred embodiment of our invention to effect the results above named, and have particularly set forth the same in claims at the end of the specification.

In the drawings, Figure 1 is a plan view of the complete device showing a razor blade secured thereon; Fig. 2 is a side view of the same; Fig. 3 is a longitudinal section along line 3—3 of Fig. 1; and Fig. 4 is a fragmentary section on line 4—4 Fig. 1.

1 represents the blade supporting member of the device which is adapted to be grasped by the hand at one end and which has at its opposite end a pivotal bearing for a stropping disk 2. The pivot for the stropping disk consists of a pivot pin 3 extending through apertures of the handle portion 1 and the stropping disk 2. The pin 3 is provided with a circular head 4 at one end and a threaded portion 5 at the other, intended to receive a thumb locking nut 6. Surrounding the pin 3 and acting as a bearing sleeve between the same and the members 1 and 2 is the bushing 7. The stropping disk 2 is preferably circular in form as shown, and is also pivoted to the supporting member 1 eccentrically. This disk is provided on one side with a canvas covering 8, and upon the other with a leather covering 9, which are the usual materials used for stropping razor blades. It will be observed that the pivotal mounting of this disk is detachable by removing the thumb nut 6, whereby the disk may be reversed to present either of its sides, the leather or the canvas, to working position.

Any usual operating handle may be attached to the stropping disk, and the one which we have preferably shown consists of a pin 10 swivelly mounted at the circumference of said disk and having a portion 11 extending at right angles thereto, which forms a support for a finger piece 11 freely rotatable thereon. It will be understood from this construction that the handle 12 is easily reversible to either side of the disk for operating the same when this disk is turned upon its pivotal bearing 3.

Upon the main supporting member near one edge thereof is formed a beveled seat portion 13 adapted to receive any ordinary razor blade such as here indicated by 14. As shown in Fig. 4, this beveled seat portion 13 is formed so that the blade 14 supported thereon is inclined at an angle to the abrasive surface of the stropping disk. Any suitable means may be employed to secure a razor blade upon this beveled seat portion 13, but the simplest construction and one which we prefer consists of a clamp 15 pivoted at one end to the supporting portion 1 at 16 and having a finger rest in the other end indicated at 17. As shown in Fig. 2, this clamp consists of a thin metallic member offset downward in the central portion as at 18, whereby when the thumb of the operator is pressed upon a finger piece 17, this offset portion 18 will firmly press against the blade and hold the same in the beveled seat portion.

In operating the device a blade 14 is first inserted between the clamp and the supporting member and adjusted at any desirable angle, such as is shown in Fig. 1, for causing a shear action of the stropping disk upon the edge thereof when operated. A finger of the hand grasping the main supporting member 1 is extended to press down firmly upon the finger piece 17 to secure the blade in its clamped position, while the other hand may turn the disk by means of the finger piece 12. It is readily seen that by this simple clamping device the blade may be quickly turned to present all of its

edges to the surface of the stropping disk and also adjusted at various angles to effect the shear action of the disk desired.

What we claim is:

1. A device for stropping or honing razor blades comprising in combination a blade supporting member and a movable disk member having an abrasive surface of a different character on each side thereof, said disk being pivotally and reversibly mounted upon said supporting member, means for clamping to said supporting member a razor blade with the edge thereof standing in the path of said movable abrasive disk.

2. A device for stropping or honing razor blades comprising in combination a blade supporting member and a movable disk member having an abrasive surface of a different character on each side thereof, said disk being pivotally and reversibly mounted upon said supporting member whereby either surface may be adjusted to working position, said supporting member being provided with a beveled seat portion adapted to support a razor blade at an angle to the working surface of said disk.

3. A device for stropping or honing razor blades comprising in combination a blade supporting member and a movable disk having abrasive surfaces rotatably mounted thereon, said supporting member provided with a beveled seat portion adapted to support a razor blade at an angle to the surface of said abrasive disk, and a clamp member pivoted at one end to said supporting member having an offset portion fitting into said seat portion for securing a razor blade thereon.

4. A device for stropping or honing razor blades comprising in combination a blade supporting member and a circular stropping disk eccentrically pivoted to said supporting member and provided with a leather-covered surface and a canvas-covered surface, said disk being also reversibly mounted upon said supporting member whereby either surface may be adjusted to working condition, said supporting member being provided with a beveled seat portion adapted to support a razor blade at an angle to the working surface of said disk, and a clamp member pivoted at one end to said supporting member and having an offset portion fitting into said seat portion for securing a razor blade thereon.

Signed at New York N. Y. this 9th day of December 1908.

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