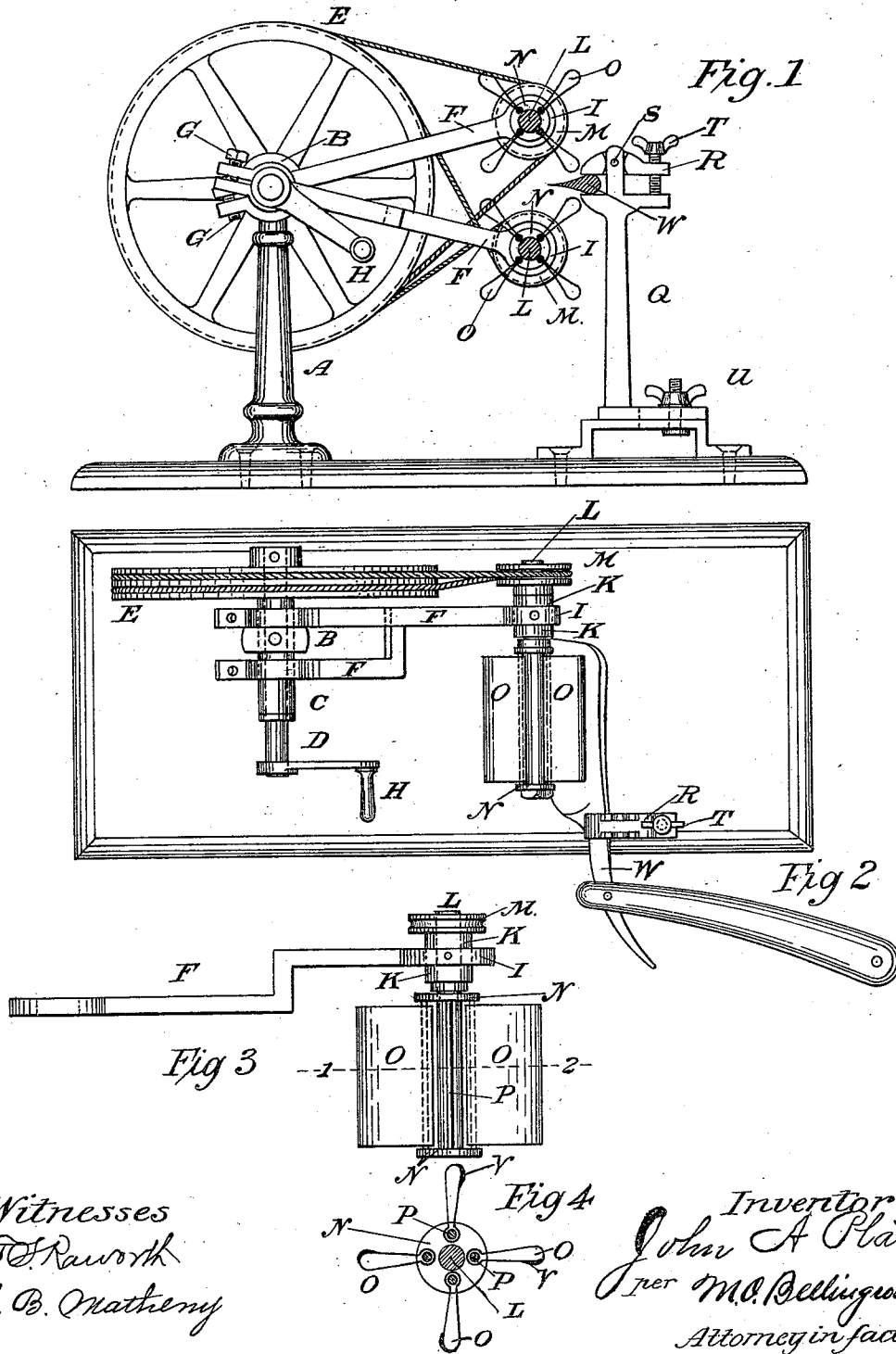


(No Model.)

J. A. PLATT.

ROTARY RAZOR STROPPING AND HONING APPARATUS.
No. 553,625. Patented Jan. 28, 1896.



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UNITED STATES PATENT OFFICE.

JOHN A. PLATT, OF AUGUSTA, GEORGIA.

ROTARY RAZOR STROPPING AND HONING APPARATUS.

SPECIFICATION forming part of Letters Patent No. 553,625, dated January 28, 1896.

Application filed August 13, 1895. Serial No. 559,185. (No model.)

To all whom it may concern:

Be it known that I, JOHN A. PLATT, a citizen of the United States, residing at Augusta, in the county of Richmond and State of Georgia, have invented a new and useful Rotary Razor Stropping and Honing Apparatus, of which the following is a specification.

In the accompanying drawings, Figure 1 is a side elevation of the rotary razor-stropping apparatus. Fig. 2 is a plan of the same apparatus. Fig. 3 is a detailed view of one of the adjustable arms or brackets F on Fig. 1, with its rotary stropping arrangement; and Fig. 4 is a vertical section in line 1 2 on Fig. 3. Similar letters refer to similar parts throughout the several views.

The standard or column A constitutes the frame of the apparatus. The upper portion of this column A is made in the form of a journal-box with cap B, which carries a stationary sleeve or hollow shaft C, in which turns the main shaft D, carrying the double-grooved fly-wheel E. Upon the stationary sleeve or hollow shaft C are mounted the arms or brackets F, which are set at any convenient inclination and which are adjustable independently of each other. They are fastened firmly to the stationary hollow shaft C by means of set-screws G. Upon the other end of the main shaft D is mounted a crank arm or lever H. The other end of each of the adjustable arms or brackets F is made in the form of a journal-box with cap I, in which turns a stationary sleeve or hollow shaft K, in which turns the secondary shaft L and upon which is mounted in line with the fly-wheel E a small single-grooved wheel M. Upon the other end of each secondary shaft L are mounted two collars N N, which constitute the rotating frame for the stropping-wings O and which are made of chamois skin, leather or any other suitable material and which are secured to the rotary frame or sleeve N and to the small circular rods P (shown in Fig. 4) in a suitable and convenient manner.

A device for carrying a razor is provided in connection with this apparatus and is composed of a standard or column Q, which is placed in a convenient position to suit the required location of the razor. The upper portion of this standard or column Q is made in the form of tongue R which has its fulcrum in a pin S, and which can be operated and set

to hold a razor of whatsoever thickness or shape by means of a thumb-screw T.

The above-described carrying device can also be adjusted and held in position horizontally upon a bed provided for this purpose by means of a thumb-screw U, which is so arranged that same can move freely and horizontally in a slot in the lower portion or leg of the standard or column Q.

The above-described parts constitute the principal mechanism of the apparatus, which is operated as follows: A motion given to the crank arm or lever H imparts the same through the main shaft D to the double-grooved fly-wheel E. The transmission from this fly-wheel E to the upper small single-grooved wheel M is made direct in the direction of the circumferential motion of the fly-wheel E, while the transmission from the fly-wheel to the lower single-grooved wheel M is made indirect in the form of a loop encircling the lower single-grooved wheel M. Both transmissions will produce a motion to the grooved wheels M in opposite direction to each other. This opposite rotary motion of these grooved wheels M is communicated through the shaft L to the rotating frame N and thence to the stropping-wings O, which, as previously described, are made of chamois skin, leather or any suitable material, and which are coated on the outside, and internally-moving abutting edges with a solution of fine emery V, mixed with oil or any other oily substance. The razor W is inserted into position and held therein as previously described, and the stropping operation can now proceed.

Having thus described my invention in the improvement of a rotary razor stropping and honing apparatus, what I claim, and desire to secure by Letters Patent, is—

The combination in a razor stropping and honing apparatus, with the main shaft, the two secondary shafts, the two carrier frames, and means for operating the same, whereby the proper rotary movement is imparted to the carrier frames in opposite directions to each other, and the stropping and honing abutments, revolvers or wings, are made to operate in unison therewith, substantially as described.

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