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E. G. KAUFMAN.

RAZOR STROPPING MACHINE.

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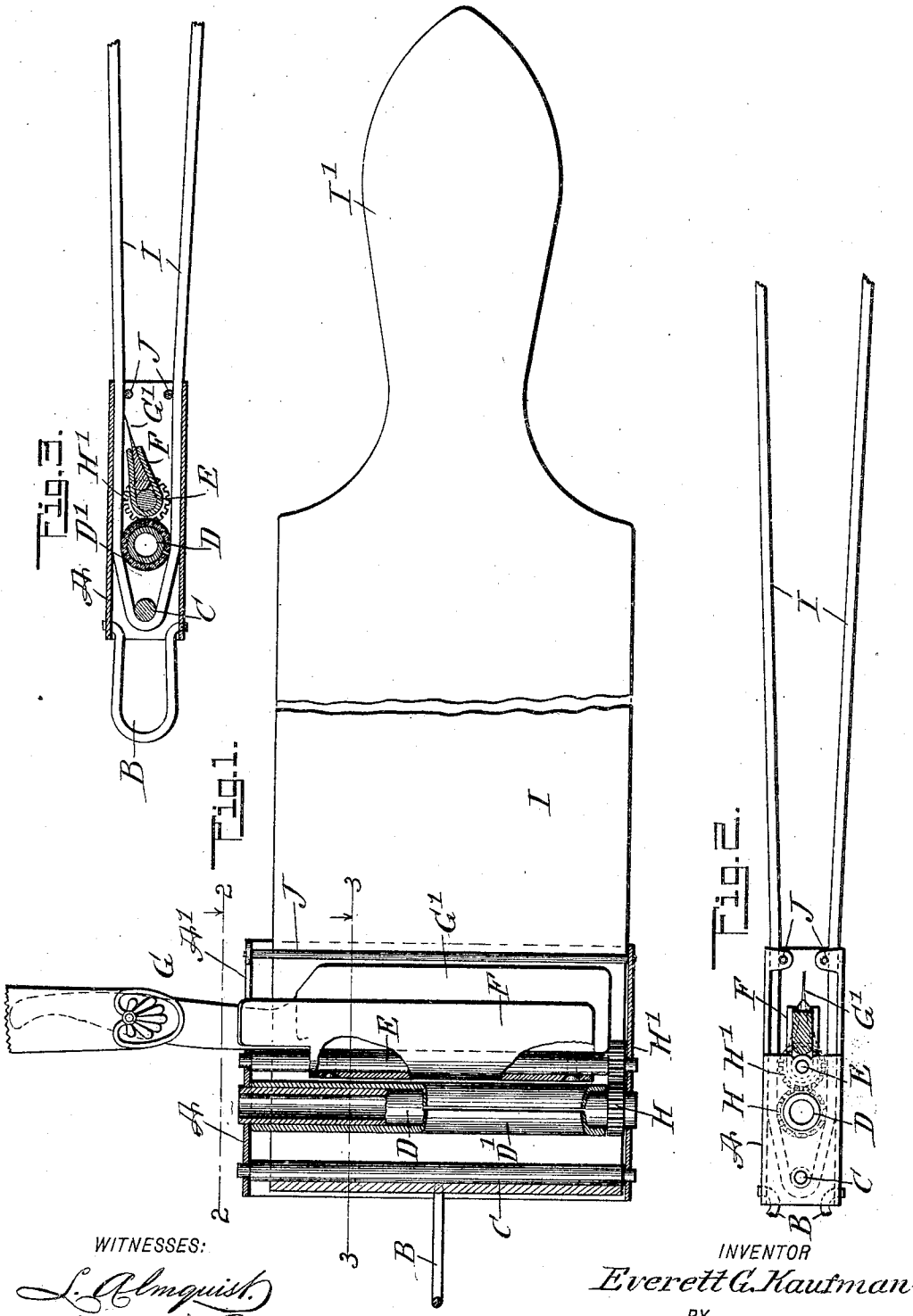

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EVERETT GEORGE KAUFMAN, OF YONKERS, NEW YORK.

RAZOR-STROPPING MACHINE.

No. 836,645. Specification of Letters Patent. Patented Nov. 20, 1906.

Application filed February 2, 1906. Serial No. 299,204.

To all whom it may concern:

Be it known that I, EVERETT GEORGE KAUFMAN, a citizen of the United States, and a resident of Yonkers, in the county of Westchester and State of New York, have invented a new and Improved Razor-Stropping Machine, of which the following is a full, clear, and exact description.

The invention relates to razor-stropping machines in which the strop is manually actuated to rock a shaft employed for carrying the razor and for moving it alternately in contact with the runs of the strop.

The object of the invention is to provide a new and improved razor-stropping machine which is simple and durable in construction, composed of comparatively few parts, not liable to get easily out of order, and arranged to permit an easy movement of the strop to hold the cutting edge of the razor-blade in proper contact with the runs of the strop.

The invention consists of novel features and parts and combinations of the same, which will be more fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a sectional plan view of the improvement. Fig. 2 is a side elevation of the same, showing the razor in section, on the line 2 2 of Fig. 1; and Fig. 3 is a sectional side elevation of the improvement on the line 3 3 of Fig. 1.

The frame A of the razor-stropping machine is preferably in the shape of a rectangular box open at the ends and provided at one end with a bail B for conveniently attaching the machine to a hook or other suitable support. In the sides of the frame A are journaled a guide-roller C, an actuating rock-shaft D, and a clamp-carrying rock-shaft E, the latter being provided with a clamp F for receiving and holding the blade G′ of an ordinary razor G.

As indicated in Fig. 1, one end of the clamp F extends through a recess A′, formed in one side of the frame A to permit convenient introduction of the razor-blade G′ into the clamp F. The rock-shaft D is preferably provided with a split sleeve D′, sprung onto the shaft D and held thereon by the resiliency of the sleeve, made of steel or similar material, and on the rock-shaft E is secured a gear-wheel H in mesh with a gear-wheel H′, secured on the rock-shaft D, so that when the actuating rock-shaft D is rocked a similar movement is given to the rock-shaft E, its clamp F, and razor-blade G′. A razor-strop I extends over the guide-roller C and its runs contact with opposite sides of the sleeve D′ of the actuating rock-shaft D, and then the runs of the strop I pass over guide-rollers J, journaled in the sides of the frame A and spaced from the inner face thereof to form passages for the runs of the strop I. The guide-rollers J are located a distance in front of the cutting edge of the razor-blade G′, so that the said cutting edge comes alternately in contact with the inner faces of the runs of the strop I extending between the rollers J and the actuating rock-shaft D, which runs lie against the top and bottom of the frame A. (See Figs. 2 and 3.)

When the several parts of the stropping-machine are in position and the blade G′ is engaged with the clamp F and the operator pulls alternately on the handles I′, formed at the ends of the strop I, then the strop-runs in passing over the sleeve D′ rock the actuating rock-shaft D, which, by the gear-wheels H and H′, imparts a corresponding rocking motion to the clamp-carrying rock-shaft E, so that the clamp F, and with it the razor-blade G′, is swung alternately in opposite directions to engage the cutting edge of the razor-blade G′ alternately with the inner faces of the runs of the strop I. Now as soon as the cutting edge of the razor-blade G′ has moved with the desired force in contact with the corresponding run of the razor-strop I and the latter is further actuated, as described, then the sleeve D′ on the actuating rock-shaft D begins to turn on the rock-shaft D, so that the cutting edge of the razor-blade G′ is held with uniform force in contact with the run of the strop I, and consequently a proper stropping of the cutting edge of the razor-blade takes place. It is expressly understood that the sleeve D′ engages its rock-shaft D with sufficient frictional force that the sleeve D′ turns with the rock-shaft D during the time the razor-blade F′ swings from one run of the strop to the other; but as soon as the cutting edge of the razor-blade G′ is in contact with the run with the desired force then the sleeve D′ begins to turn on the rock-shaft D.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. A razor-stropping machine comprising a frame, a guide-roller journaled in the said frame, a razor-clamp, an actuating rock-shaft journaled in the said frame, and provided with a friction-sleeve a clamp-carrying rock-shaft journaled in the said frame and carrying the said clamp, a connection between the said rock-shafts, a razor-strop passing over the said guide-roller and having its runs in engagement with opposite sides of the said friction-sleeve, and a pair of guide-rollers journaled in the frame, spaced from the inner walls thereof and over which pass the runs of the said strop.

2. A razor-stropping machine comprising a frame, a razor-clamp, an actuating rock-shaft journaled in the said frame and provided with a friction-sleeve, a clamp-carrying rock-shaft journaled in the said frame and carrying the said clamp, a connection between the said rock-shafts to rotate the same in unison, and a razor-strop engaging opposite sides of the said friction-sleeve to rotate the said actuating rock-shaft and to turn on the same.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EVERETT GEORGE KAUFMAN.

Witnesses:
W. R. GREENE,
C. J. ELLERY.