No. 714,622. Patented Nov. 25, 1902.

W. TAPP.

MACHINE FOR USE IN STROPPING RAZORS.

(Application filed June 30, 1902.)

(No Model.)

Fig. 1.

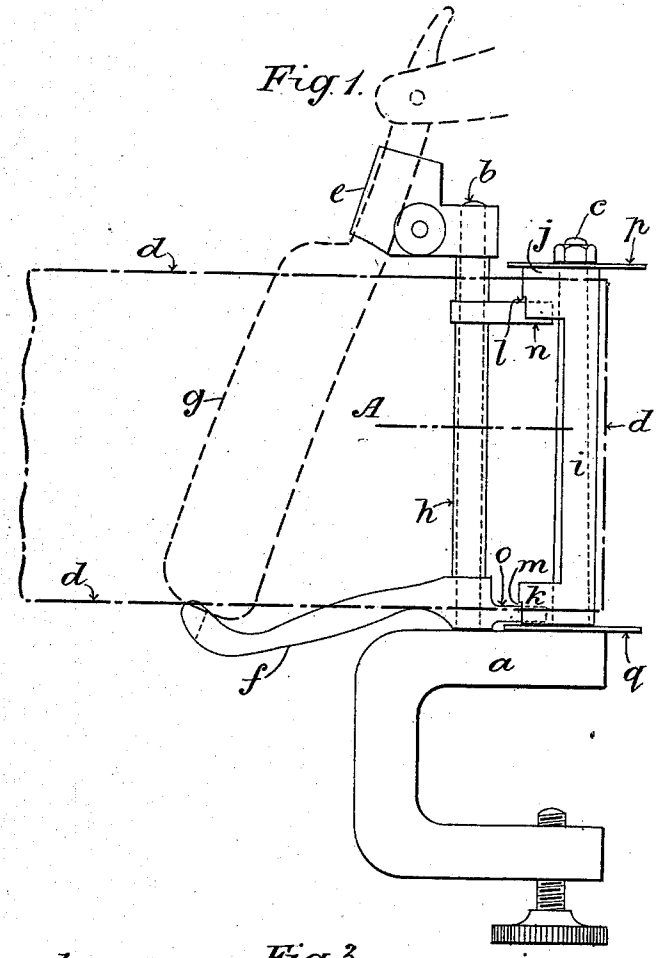


Fig. 2.

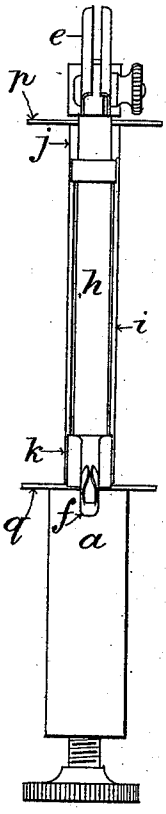


Fig. 3

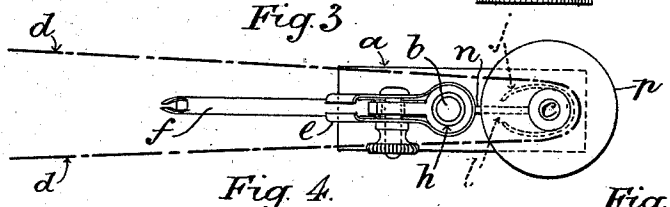


Fig. 4.

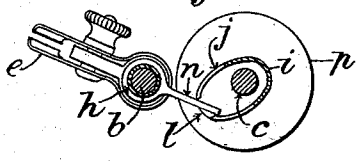
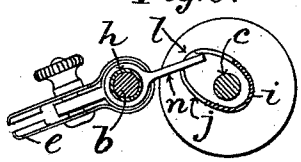


Fig. 5.



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UNITED STATES PATENT OFFICE.

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MACHINE FOR USE IN STROPPING RAZORS.

SPECIFICATION forming part of Letters Patent No. 714,622, dated November 25, 1902.

Application filed June 30, 1902. Serial No. 113,829. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM TAPP, a subject of the King of Great Britain, residing at Bristol, England, have invented new and useful Improvements in Machines for Use in Stropping Razors, of which the following is a specification.

My invention relates to that type of machines for use in the stropping of razors in which an oscillatory support is provided for holding the razor, and the provision for stropping it consists of a flexible band, by reciprocatory endwise motion of which band oscillation of the razor-support is produced, causing the two sides of the razor-blade to be alternately pressed against and acted on by the said band.

My said invention has for its principal objects to improve the construction of this class of machines by simplifying the arrangement of parts and to provide for thorough efficiency in operation, which objects I attain by dispensing with the parts heretofore provided for guiding the stropping-band contiguously to the oscillatory razor-support and by forming the said support so that the back of the blade of a razor when placed in the machine is entirely free and also (by preference) so that the position of the said blade relatively to the stropping-band is such as to insure a heel-to-point action of the said band on the blade.

I will further describe my invention with reference to the accompanying drawings.

Figure 1 is a side view, Fig. 2 a front view, and Fig. 3 a plan, of a machine of the aforesaid type embodying my said improvements. Figs. 4 and 5 are sectional views showing the parts of the machine above the line A, Fig. 1, in different positions.

In the following description the several parts of the machine are referred to by the letters marked on the drawings, the same letters of reference being used to indicate the same parts in all the figures.

a is a screw-clamp constituting the base of the machine and admitting of the fixing thereof to a table or the like.

b c are rods or pillars secured at their lower ends in the base *a* and supporting the acting parts of the machine, which are an oscillatory razor-holder and means (hereinafter termed the "oscillator") whereby the required motion is communicated to the razor-holder from the stropping-band, the position of which relatively to the aforesaid parts of the machine is indicated by the broken lines *d d* in Figs. 1 and 3. The said razor-holder consists of a screw-clip *e* for receiving the tang of the razor and an arm *f*, having jaws at its free end, in which clip and jaws the razor to be stropped is placed in the position indicated by the broken lines *g* in Fig. 1. The said parts *e f* are both carried by a tube or sleeve *h*, surrounding the pillar *b* and capable of turning thereon. The oscillator consists of a semitube *i*, having elliptical ends *j k*, which are engaged with the pillar *c* and have formed in them slots or notches *l m*, with which the free ends of arms *n o*, projecting from the razor-holder, are engaged.

p q are disks affixed, respectively, to the part *j* of the oscillator and to the base *a* and serving to keep in place the stropping-band, which by its bearing on the oscillator communicates motion thereto when actuated during use of the machine.

In order to strop a razor by means of the said machine, the razor is placed in the oscillatory holder, as indicated at *g* in Fig. 1, and secured by means of the screw of the clip *e*, and the stropping-band is placed as indicated at *d* in Figs. 1 and 3, and its two ends are pulled alternately, the band being kept sufficiently in tension to cause motion to be imparted by it to the oscillator, the motion of which is communicated to the razor-holder by the engagement of the parts *l m* and *n o* until the said parts become interlocked, after which during the remainder of each pull on the band it slips on the oscillator and rubs or strops the razor-blade on the side presented to the band by the turning of the razor-holder. The manner in which the engaged parts of the oscillator and the razor-holder interlock after being partially turned by the first portion of each pull on the band is clearly illustrated by the sectional views, Figs. 4 and 5.

In consequence of the stropping-band being unsupported by or having no bearing on any part of the machine except the oscillator the elasticity of pressure on the razor of the said band when in tension is in no way impaired, as it is in machines having intermediate guides or supports for the band to bear

against, and in consequence of the razor-holder being so constructed as to engage only with the tang and point end of the blade pressure of the stropping-band against the whole of each side or face of the blade is insured.

Although I prefer to provide for support of the razor at such an angle as to insure a heel-to-point action of the stropping-band, I do not limit myself thereto, as the other features of my invention are advantageous in the case of machines wherein the razor-blade is supported at right angles to the direction of motion of the stropping-band.

Where desirable, provision for supporting the machine during use by means of hooks, as in some other machines of the aforesaid type, may be substituted for the screw-clamp illustrated.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a device for stropping razors, the combination of a frame, two pillars in said frame, a sleeve on each of said pillars, means for attaching a razor to one of said sleeves, a pair of jaws on the other of said sleeves, a tongue on said razor-supporting sleeve projecting between said jaws, and a razor-strop passing around the sleeve that is provided with jaws.

2. In a device for stropping razors, the combination of a frame, two pillars carried by said frame, a sleeve on each of said pillars, a razor-support on one of said sleeves, said support consisting of a tang-end holder and a point-end holder, jaws on the other of said sleeves, a tongue on said razor-supporting sleeve projecting between said jaws, and a razor-strop passing around the sleeve that is provided with jaws.

3. In a device for stropping razors, the combination of a frame, two pillars carried by said frame, a sleeve on each of said pillars, a razor-support on one of said sleeves, said support consisting of a tang-end holder and a point-end holder, and said point-end holder extending a greater distance from said sleeve than said tang-end holder, jaws on the other of said sleeves, a tongue on said razor-supporting sleeve projecting between said jaws, and a razor-strop passing around the sleeve that is provided with jaws.

4. In a device for stropping razors, comprising a reciprocating stropping-band, and an oscillatory razor-support, a razor-holder consisting of a tang-end-receiving part and of a point-end-receiving part in advance of the tang-end-receiving part.

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