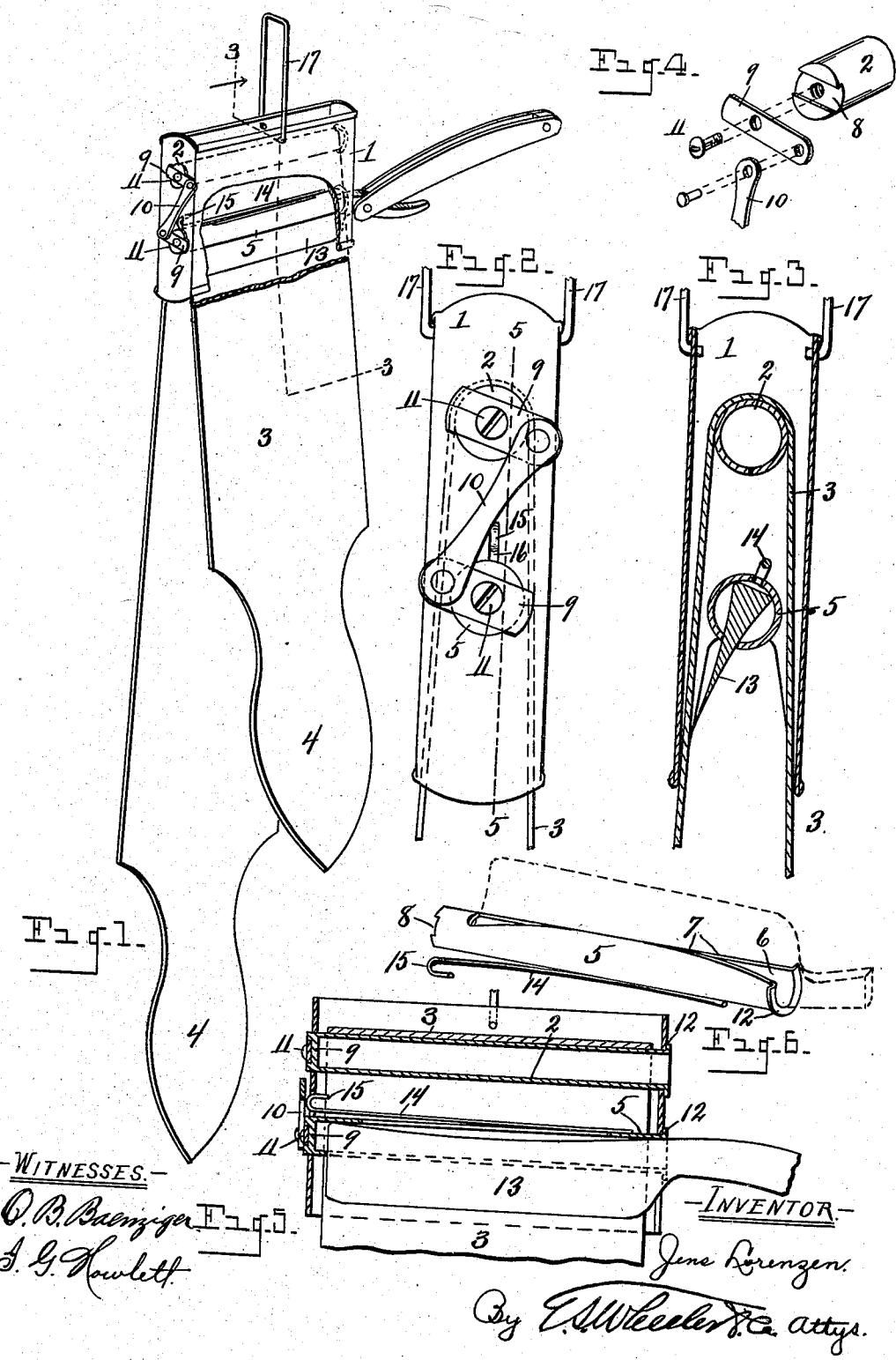


No. 894,841.

PATENTED AUG. 4, 1908.

J. LORENZEN.
STROPPING MACHINE.
APPLICATION FILED SEPT. 29, 1906.



UNITED STATES PATENT OFFICE.

JENS LORENZEN, OF FREMONT, OHIO, ASSIGNOR TO HENRIE CLAUSS, OF FREMONT, OHIO.

STROPPING-MACHINE.

No. 894,841.

Specification of Letters Patent.

Patented Aug. 4, 1908.

Application filed September 29, 1906. Serial No. 336,761.

To all whom it may concern:

Be it known that I, JENS LORENZEN, a citizen of the United States, residing at Fremont, in the county of Sandusky, State of Ohio, have invented certain new and useful Improvements in Stropping-Machines; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to razor stropping devices, being an improvement upon the structure shown in my co-pending application, Serial No. 296,738, and consists in the construction and arrangement of parts hereinafter fully set forth and claimed.

The object of the invention is to produce a razor stropping device of simple and inexpensive construction, wherein the arrangement is such as to enable the razor blade to be held in an oscillatory holder and swung from side to side against the active portions of the strop as said strop is drawn back and forth over a roller which is oscillated by the movement of the strop and which imparts movement to the razor holder.

The above object is attained by the structure illustrated in the accompanying drawing, in which:—

Figure 1 is a perspective view of a device involving my invention. Fig. 2 is an end elevation thereof, the bail by means of which it is supported when not in operation, being broken away. Fig. 3 is a sectional view as on line 3—3 of Fig. 1. Fig. 4 is a view in perspective of the parts employed for transmitting the oscillatory movement of the shaft or tube over which the strop passes, to the holder which carries the razor blade. Fig. 5 is a sectional view as on line 5—5 of Fig. 2. Fig. 6 is a perspective view of the blade holder and the torsion spring which maintains it normally in a neutral position.

Referring to the characters of reference, 1 designates a suitable case which is preferably 50 rectangular in shape. Crossing the interior of the case from end to end is a tubular roller or hollow shaft 2 which is journaled in the ends of the case and over which passes the looped strop 3 whose end portions lie in parallel relation and project from the bottom of

the case, being provided with hand grips 4 for the purpose of manipulation. Also journaled in the ends of the case 3 between the hollow rock shaft 2 and the bottom of the case, is an oscillatory razor blade holder 5, 60 made preferably of spring metal in tubular form, and provided in one side thereof with a tapering slot 6 having converging sides 7 adapted to clamp the razor blade when shoved into said tapering slot. 65

One end of the roller 2 and of the holder 5 is provided with a transverse channel 8 in which is secured a crank arm 9, the projecting ends of which bear against the face of the end of the case and hold said roller and said holder from withdrawing therefrom. The working ends of the cranks 9 project in opposite directions and are pivotally connected by a connecting bar 10. Passing through each of the crank arms into the end of their 75 respective roller and blade holder, are the screws 11 which serve to retain said crank arms in place, and which upon removal enable the hollow shaft and blade holder to be removed from the casing. The opposite 80 ends of the hollow shaft and blade holder are provided with the annular flanges 12 which engage the end of the casing, and in conjunction with the crank arms 9 retain said shaft and holder against longitudinal movement. 85

By reason of connecting the roller and blade holder through the opposite ends of the crank arms 9, a reverse movement is transmitted from one to the other through the connecting bar. 90

To place the razor blade 13 in position in the blade holder, its back is entered in the tapering opening 6 between the sides of said holder and forced longitudinally thereof 95 until fully entered between the spring sides 7 which clamp the opposite sides of the blade and retain it securely in position with its edge lying between the working portions of the strop. By drawing the strop longitudinally in opposite directions in reciprocal succession, the shaft 2 will be reciprocated and will impart a like movement through the connecting bar 10 to the blade holder, causing the blade to swing from side to side against the inner face of the strop, the arrangement being such by reversing the movement of the blade holder with respect to that of the shaft as to cause the blade to swing against the working portion of the strop which is being 100 105 110

drawn outwardly, the blade swinging from side to side as the direction of movement of the strop is reversed, thereby perfectly stropping the edge of the blade.

5 To swing the edge of the blade away from the face of the strop at the termination of the longitudinal movement thereof in either direction, a torsional spring 14 is employed which is attached to the upper portion of the 10 periphery of the blade holder at one end and which at the other end is provided with a loop 15 which engages in a slot 16 in the end of the case, whereby said spring is held from turning. As the blade holder is partially 15 rotated in either direction, a torsional twist is imparted to said spring whose tension is exerted to normally return the blade holder to a neutral position, whereby upon a cessation 20 of the movement of the strop in either direction, the tension of said spring is exerted to carry the edge of the razor blade away from the strop, thereby preventing the strop being cut at the instant of the change in the direction of its movement. The end of the 25 case into which the razor is introduced is partially open to permit the blade to be freely entered in the holder.

A bail 17 is attached to the opposite sides of the case at the top and affords means for holding the stropping device when in operation. 30

Having thus fully set forth my invention, what I claim as new and desire to secure by Letters Patent, is:—

In a stropping device, the combination 35 with a suitable case, a roller journaled therein, a razor strop looped over the roller to cause its opposed portions to lie in parallel relation, a razor blade holder journaled in the case between the opposite sides of said strop, 40 said blade holder consisting of a slotted spring tube whose sides are adapted to engage the blade, and a spring secured at one end to the blade holder and extending longitudinally thereof, said spring at the opposite 45 end being secured to the case to return the blade holder to a neutral position after a movement thereof in either direction.

In testimony whereof, I sign this specification in the presence of two witnesses.

JENS LORENZEN.

Witnesses:

J. P. BELL,
ALBAN MEHLING.