(No Model.)

# J. N. FARLOW.

## STRAP EDGING MACHINE.

No. 384,029. Patented June 5, 1888.

Fig. 1.

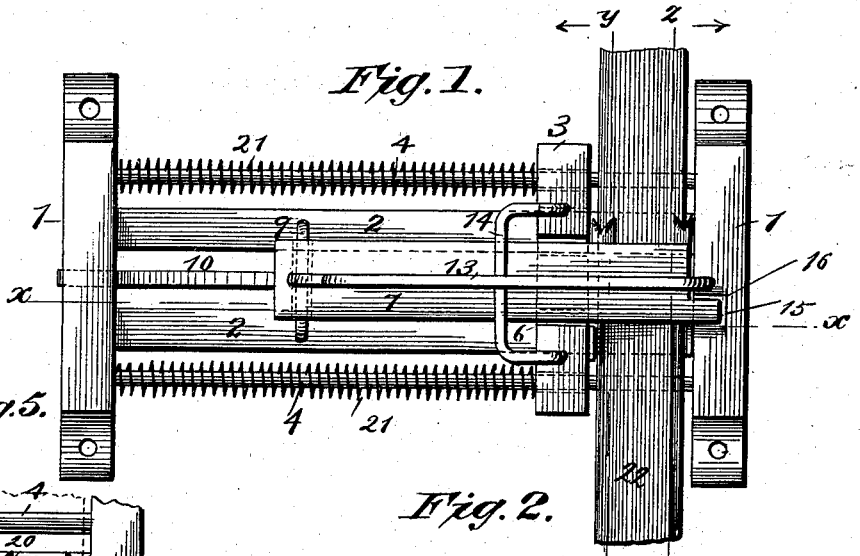



Fig. 5.

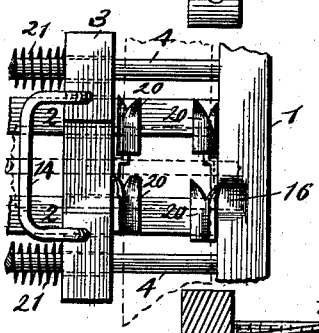



Fig. 2.




Fig. 3.

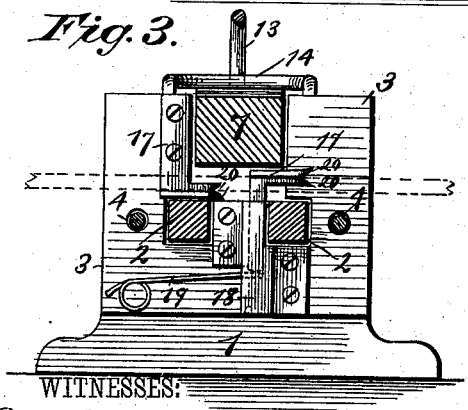



Fig. 4.

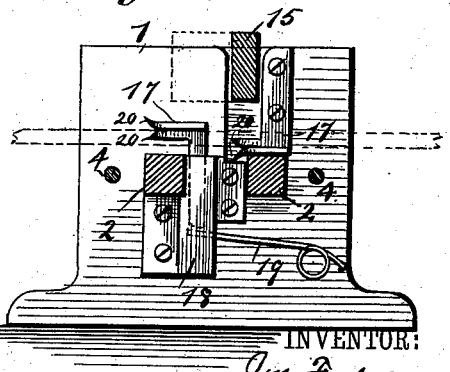
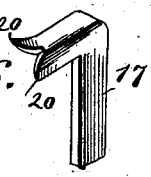



Fig. 6.

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# UNITED STATES PATENT OFFICE.

JAMES NELSON FARLOW, OF LANDER, WYOMING TERRITORY.

## STRAP-EDGING MACHINE.

SPECIFICATION forming part of Letters Patent No. 384,029, dated June 5, 1888.

Application filed February 11, 1888. Serial No. 263,720. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES NELSON FARLOW, of Lander, in the county of Fremont and Territory of Wyoming, have invented a new and Improved Strap-Edging Machine, of which the following is a full, clear, and exact description.

This invention has reference to a machine for beveling the edges of leather straps; and it consists in a machine for such a purpose constructed and arranged as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a plan view of the machine. Fig. 2 is a side view, partly in section, of the machine. Fig. 3 is a transverse section on line *z z* in Fig. 1. Fig. 4 is a similar section on the line *y y* of Fig. 1 with parts removed. Fig. 5 is a plan view of the front end of the machine with a portion removed, showing the cutting-knives in position for use; and Fig. 6 is a detail view of one of the cutting-knives.

In the construction of this machine I employ a frame-work having cross-pieces 1 1, adapted to be secured to a bench or other foundation, and connected by means of longitudinal bars 2 2, on which is mounted a cross-piece, 3, adapted to slide on rods 4 4, and having an operating-handle, 14, by means of which it may be pulled back on the rods 4. The upper part of the sliding cross piece 3 is provided with a recess, 6, in which rests a tilting presser-bar, 7, loosely pivoted at its rear end by means of a slot, 8, connecting a U-shaped standard, 9. The rear end of the tilting presser-bar 7 is normally held in elevated position by means of a spring-arm, 10, secured at one end to the rear cross-piece 1, and having an upwardly-projecting portion, 11, at the other end resting loosely in a groove, 12, in the lower part of the tilting presser-bar 7, in which it is permitted to have a longitudinal movement. The presser-bar 7 is provided with a suitable operating-handle, 13, and is limited in its upward movement by the cross-piece of the U-shaped stop or handle 14. The forward end of the tilting presser-bar 7 is formed with a projection, 15, which is adapted to have a vertical movement in a recess, 16, in the forward cross-piece 1.

On the front of the sliding cross-piece 3, adjacent to one of the longitudinal bars 2 and opposite thereto on the forward cross-piece 1, similarly adjacent to the longitudinal bar 2, are located vertically-movable cutters 17, loosely mounted in a casing, 18, and held in raised position by a spring, 19. Similar cutters, 17, in reverse position, are fastened to the forward cross-piece 1 and the sliding cross-piece 3, opposite to each other and adjacent to the other longitudinal bar 2.

It will be seen by the foregoing description that four cutters, 17, are provided, located in pairs opposite each other, the cutters on the sliding cross-piece 3 being adapted to be brought toward the fixed cutters on the end piece 1. The cutters 17 are peculiarly formed with flaring edges 20, so as to present double cutting-edges.

The sliding cross-piece 3 is held toward the front of the machine by means of coiled springs 21, mounted on the rods 4 and located between the rear cross-piece 1 and the sliding cross-piece 3. In operation the sliding cross-piece 3 is pushed back against the tension of the springs 21 and raises the tilting presser-bar 7 until a sufficient space is formed between the opposing knives 17 for the admission of a strap, 22. The sliding cross-piece 3 is then permitted to come forward, and, by reason of the reaction of the springs 21, presses the cross-piece 3 firmly against the strap 22. The tilting presser-bar 7 is then forced down against the movable knives 17, the springs 19 yielding to the pressure until the flaring cutting-edges 20 are brought against the upper corners of the strap 22. The same pressure also forces the lower corners of the strap 22 against the flaring cutting-edges 20 of the fixed cutters 17. The strap 22 is then drawn across the machine between the flaring cutting-edges 20, thereby beveling said edges. This operation may be repeated until any number of leather straps have their edges trimmed, as set forth. It will readily be seen that the cutters may be removed at any time for sharpening.

While I have described a specific construction of the parts of this machine, I do not intend to limit myself thereto, as they may be

varied in form without departing from the spirit of my invention.

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

1. In a strap-edging machine, the combination, with a frame having fixed and relatively-movable cutters and a sliding clamp having fixed and relatively-movable cutters, of a tilting presser bar or lever adapted to bear upon the movable cutters and force them into operative position, substantially as described.

2. The combination, with the frame having a fixed cutter and a vertically-yielding cutter, of a clamp movable toward and from these two cutters and provided on its inner face with a fixed cutter and a vertically-movable cutter, and a presser-bar movable vertically across the strap-receiving space between the said knives and in line with the vertically-yielding knives, to depress them into engagement with the strap-edges, substantially as set forth.

3. A strap-edging machine consisting of a frame having a fixed cross-piece with a fixed cutter and vertically-movable spring-actuated cutter, and a spring-actuated sliding cross-piece with a fixed cutter and a vertically-movable spring-actuated cutter, the sliding cross-piece serving to hold a strap between the edges of the cutters, and a spring-actuated tilting presser lever or bar which is adapted to press down the movable cutters against the strap, substantially as described.

4. In a strap-edging machine, cross-pieces 1, connected by bars 4 and rods 2, the sliding cross-piece 3, mounted on bars 4 and rods 2 and provided with reacting springs 21, the tilting spring-actuated presser-lever 7, with handle 13, and having slots 8, engaging a standard and resting in recess 6 beneath handle 14 of cross-piece 3, and the fixed cutters 17 and movable cutters 17, mounted in casings 18 and resting on springs 19, said cutters being located on the cross-piece 1 and sliding cross-piece 3, substantially as described.

5. In a strap-edging machine, the combination, with clamp 3, mounted on bars 2 and having cutters 17, one of which rests in casing 18 upon spring 19, of cross-piece 1, having fixed cutter 17 and movable cutter 17 in casing 18, resting on spring 19, and the presser-lever 7, with handle 13, and resting in recess 6 of cross-piece 3 beneath handle 14, substantially as described.

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