

(No Model.)

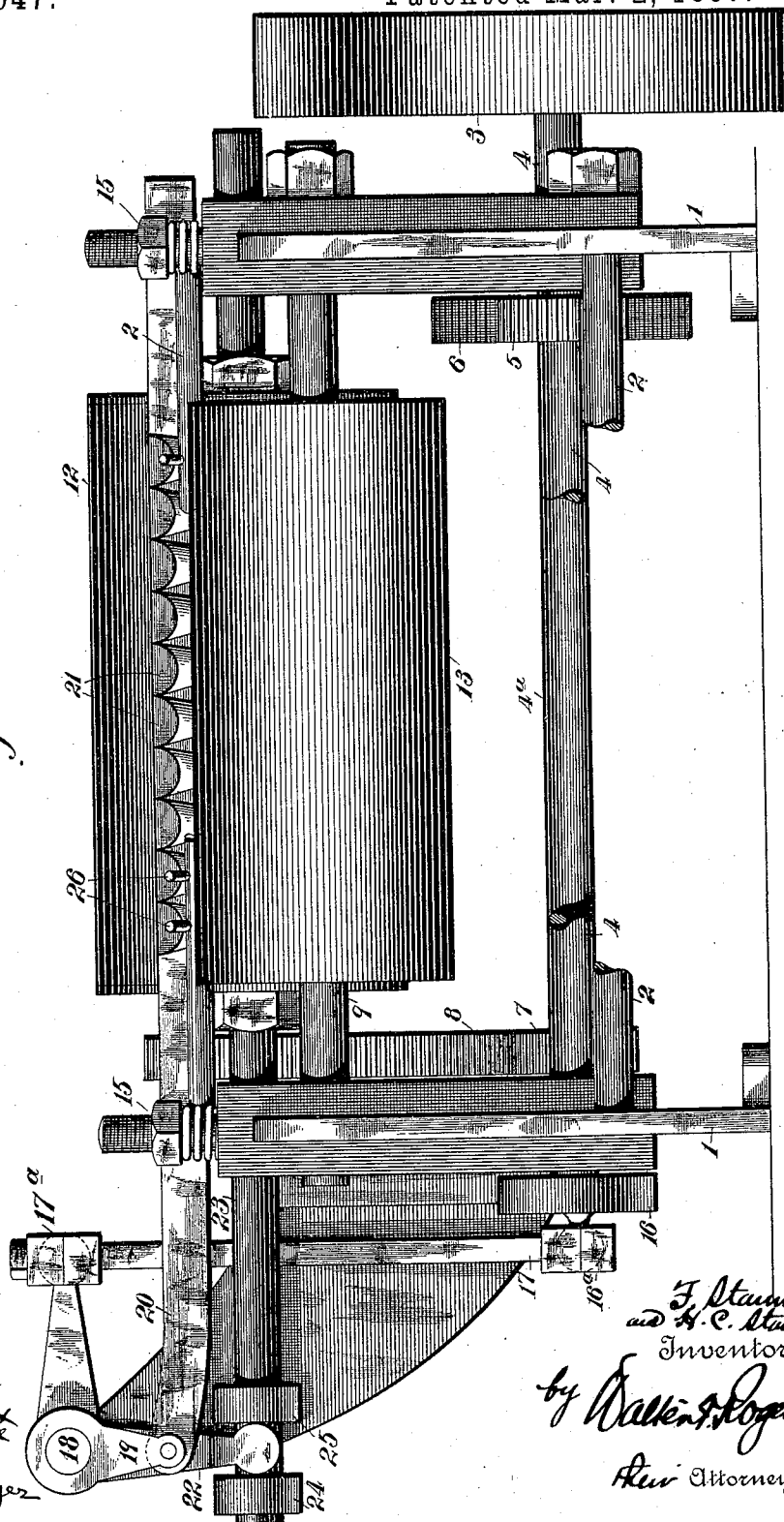
2 Sheets—Sheet 1.

F. & H. C. STAMM.
LASH ROUNDING MACHINE.

No. 578,047.

Patented Mar. 2, 1897.

Fig. 1.



Witnesses
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(No Model.)

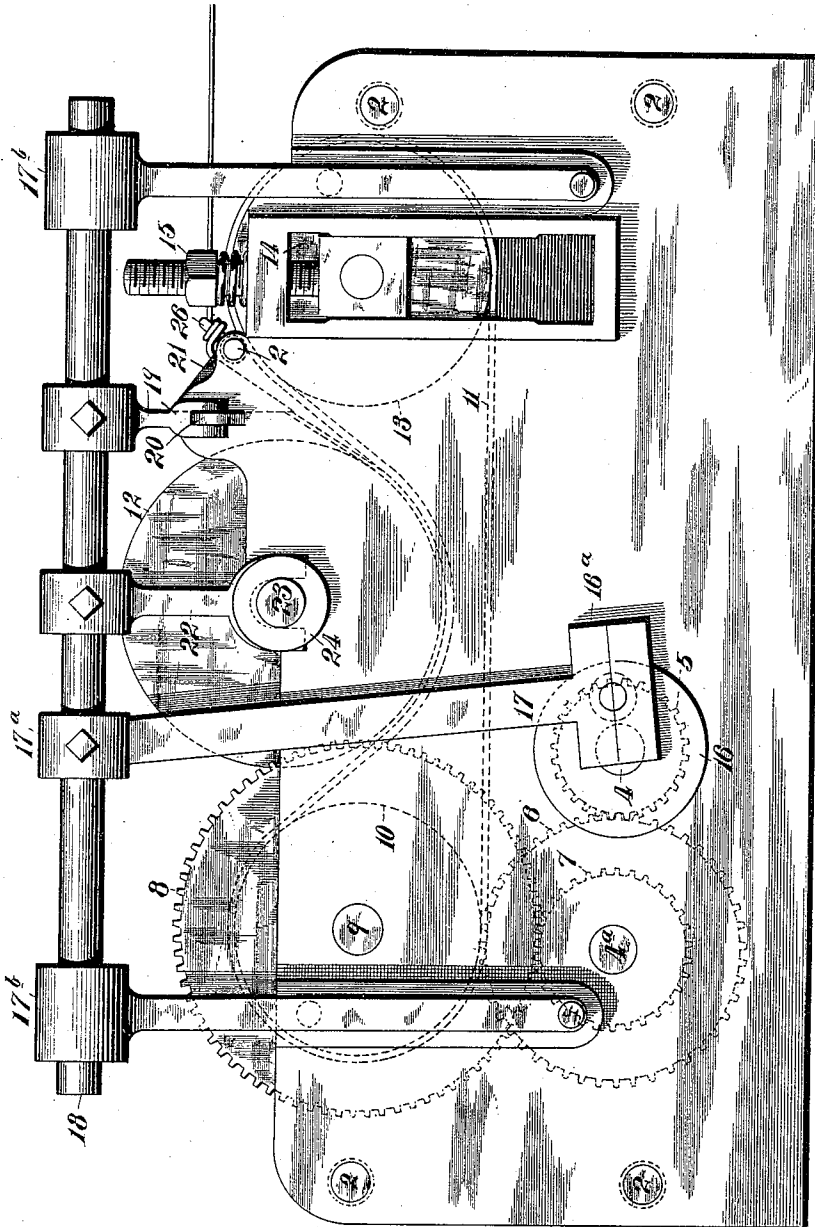
2 Sheets—Sheet 2.

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Fig. 2.



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UNITED STATES PATENT OFFICE.

FREDERICK STAMM, OF LANCASTER, AND HENRY C. STAMM, OF
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LASH-ROUNDING MACHINE.

SPECIFICATION forming part of Letters Patent No. 578,047, dated March 2, 1897.

Application filed September 22, 1896. Serial No. 606,685. (No model.)

To all whom it may concern:

Be it known that we, FREDERICK STAMM, residing at Lancaster, in the county of Lancaster, and HENRY C. STAMM, residing at Mechanicsburg, in the county of Cumberland, State of Pennsylvania, citizens of the United States, have invented certain new and useful Improvements in Lash-Rounding Machines; and we do hereby 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.

Our invention relates to machines for rounding leather lashes for fly-nets, whips, and round belting, and for treating other fabrics requiring a rounding finish; and its object is to expeditiously round the article being operated upon and at the same time impart the full degree of finish hitherto obtained by the slow hand process.

In the drawings, Figure 1 is an end elevation, and Fig. 2 a side elevation, of our improved rounding-machine, similar reference-numbers being used to designate corresponding parts in the two views.

The machine has a frame 1, tied by rods 2. Power is applied through a pulley 3 and a driving-shaft 4. On the pulley end of this driving-shaft is a pinion 5, engaging a gear-wheel 6, which, through the shaft 4^a, rotates a pinion 7, which drives a gear-wheel 8, serving through a shaft 9 to rotate a roller or cylinder 10. On the opposite side of the machine is a corresponding roller or cylinder 13, and between these two is a cylinder 12, which we find it expedient to make of somewhat larger size than the other rollers.

An endless belt travels around the rollers 10 and 13 and upon the lower periphery of the roller 12, imparting a rotary movement to the rollers, the rollers rotating in unison, though obviously the effect is varied on the roller 12.

The roller 13 is shown as adjustably journaled at 14 and as being governed by a tension device 15, these adjuncts being of course applicable to the several rollers, as desired.

On the end of the driving-shaft 4 opposite the pulley end is a disk carrying a crank or eccentric 16^a, which, through a rod 17, oper-

ates a rocker-arm 18 through a lever 17^a, carried in the shafts or supports 17^b. Secured to the rocker-arm, preferably by some such adjusting means as a set-screw, is a short lever 19, which serves to reciprocate a bar 20, carrying a series of pockets 21. There is also secured in a similar manner to the rocker-arm a lever 22, approximately twice the length of the lever 19. The end of the lever 22 lies between two set-collars 24 and 25 on the shaft 23 of the cylinder 12, and it is the function of these elements to reciprocate the cylinder 12 to approximately twice the extent of the reciprocation of the pockets 21.

One of the rods 2, preferably the one lying between the rollers 12 and 13, bears a series of pins 26, preferably one opposite each pocket, which are to be used as snubbing-posts for the lashes to permit the action of the rollers to stretch the lashes.

The pockets 21 may be of convenient form, though we prefer the hopper form shown in Fig. 2.

In operation one end of a lash is wrapped about a snubbing-post or pin 26, and the other end is fed into a corresponding pocket. The lash is carried between the rollers and the endless belt, being discharged at the opposite side of the machine from the endless belt as it passes over roller 10. The effect of the reciprocation of the pockets and the much greater reciprocation of the roller 12 is to twist and round the lash which is carried along between the endless belt and the roller 12, while at the same time the lash is stretched by being drawn around its pin 26. We have thus in a simple organism which is not easily injured a device for rapidly and effectively rounding any article to be so treated.

Having fully described our invention, what we desire to claim as our invention is—

1. In a machine for rounding lashes and similar articles, the combination of a belt, a roller pressing against the belt, and means for rotating and reciprocating the roller, substantially as described.

2. In a machine for rounding lashes and for similar work, the combination of rollers carrying a belt, an intermediate roller pressing upon the belt, and means for imparting power to one of the belt-carrying rollers, and means

for reciprocating the intermediate roller, substantially as described.

3. In a machine for rounding lashes and for similar work, the combination of a traveling
5 belt, a roller pressing upon the belt, a series of pockets to receive and guide the articles to be treated, and means for reciprocating the roller and the pockets, substantially as described.
- 10 4. In a machine for rounding lashes, and for similar work the combination of a traveling belt, a roller lying upon the belt, a series of pockets to receive and feed the articles to be treated, means for reciprocating the pockets,
15 and means for reciprocating the roller through a wider range than that given the pockets, substantially as described.

5. In a machine for rounding lashes and for similar work the combination of a traveling belt, a roller pressing upon the belt, a series
20 of pockets to receive and guide the articles to be treated, means for reciprocating the roller and the pockets and a series of pins or snubbing-posts adapted to retard the progress of the lashes and stretch them, substantially as
25 described.

In testimony whereof we affix our signatures in presence of two witnesses.

FREDERICK STAMM.
HENRY C. STAMM.

Witnesses:

JACOB HALBACH,
J. F. JOHNSON.