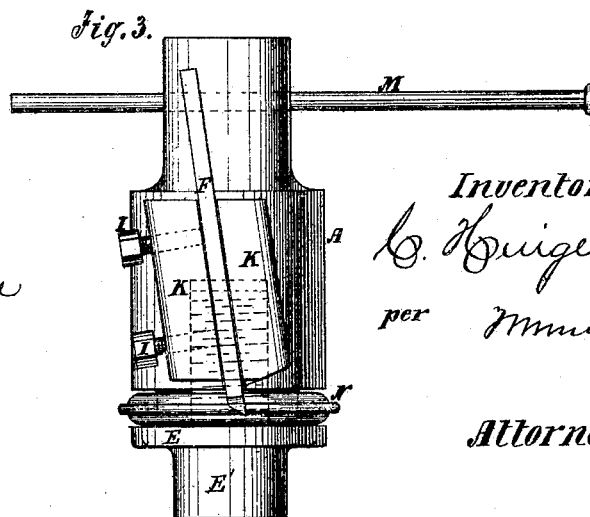


*Patented Oct. 11. 1870.*



*Attorneys.*

# United States Patent Office.

CONSTANTINE HINGHER, OF NEW BRUNSWICK, NEW JERSEY.

Letters Patent No. 108,139, dated October 11, 1870.

## IMPROVEMENT IN APPARATUS FOR FINISHING TERRETS.

The Schedule referred to in these Letters Patent and making part of the same

*To all whom it may concern :*

Be it known that I, CONSTANTINE HINGHER, of New Brunswick, in the county of Middlesex and State of New Jersey, have invented a new and improved Apparatus for Finishing Terrets; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

This invention relates to improvements in apparatus for finishing terrets, rings, and other similar articles used in making harness, which have been covered with vulcanized India rubber, and which cannot be turned by a lathe having a continuous rotary motion, owing to projections on the rings.

The invention consists in a stock receiving the ring of the terret on a boss, so that one can be held while the other is turned, said stock carrying a dressing-tool and a feed-screw, also an operating lever for holding and turning it, all as hereinafter described.

Figure 1 is view of my improved tool partly in section and partly in elevation; it also shows a section of a terret in the position for being dressed;

Figure 2 is a bottom view of fig. 1; and

Figure 3 is an elevation, showing a slight modification in the construction of the same.

Similar letters of reference indicate corresponding parts.

Owing to the difficulty of turning and dressing these articles in a lathe having continuous motion, on account of the projecting shanks, the operation has hitherto been done by a hand-polishing or finishing-tool, which is slow and tedious, and which it is the object of this invention to obviate.

A is a cylindrical stock, of wood, metal, or other suitable substances, of suitable length, and somewhat larger than the ring of the terret to be dressed. It is provided at one end with a boss, B, of the proper size to enter the ring snugly, and receive it against a shoulder, c, and below this boss is a feed-screw, D, which may either project from it and have a screw-thread for the reception of a feeding-nut, D', or it may be tapped, and have the feed-screw provided with a head or collar, E, screw into it, as shown in fig. 3, in which case the stock will serve as the nut.

The cylinder is provided, at one side, with an oblique slot or groove, for holding a tool, F, for working upon the upper side of the terret, which tool is con-

finied in the slot, either by the screw G in the stud H, projecting radially from the cylinder, or it may be by screws I passing through a rib, K, projecting from the side of the cylinder, between which and another rib, the slot for the terret is formed.

L is a washer introduced between the nut D' and the terret.

M is a lever, passing through a hole in the stock near the top for holding and turning it.

The operation is as follows:

The nut D' or the head F' of the screw, represented in fig. 3, as the case may be, is screwed up in a vice or any other suitable means of holding it. The rim N of the terret is placed on the boss B of the stock, which is then screwed into the nut D', or on the screw, until the ring is forced up nearly to the shoulder c, either by the washer E, or the collar of the nut, when it is pressed against the edge of the tool F, which is shaped to correspond with the finished form of one side of the ring. In adjusting the terret, care is taken that the shank O of the terret shall be as close against the heel of the cutter as may be; then, the stock being held against turning by the lever, the terret is turned by the hand, or other means, applied to the shank O, until it is brought around against the edge of the cutter; this causes a scraping or turning off a thin cut; the terret is then turned back to the original position, and the tool is fed for a new cut by moving the lever M in the direction to screw the stock down into the nut D', or upon the screw, after which another cut is taken, as before, and so on until completed. The terret is then taken off, turned the other side up, and the operation proceeded with as before.

It is obvious that the stock and feeding-screw may be variously arranged, and that instead of holding the nut or feeding-screw in the vise or other holder, the same purpose may be accomplished by holding the stock.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The grooved, bossed, and shouldered stock A B C, feed-screw D, nut and collar D' E, and tool F, combined and applied as and for the purpose described.

CONSTANTINE HINGHER.

Witnesses:

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