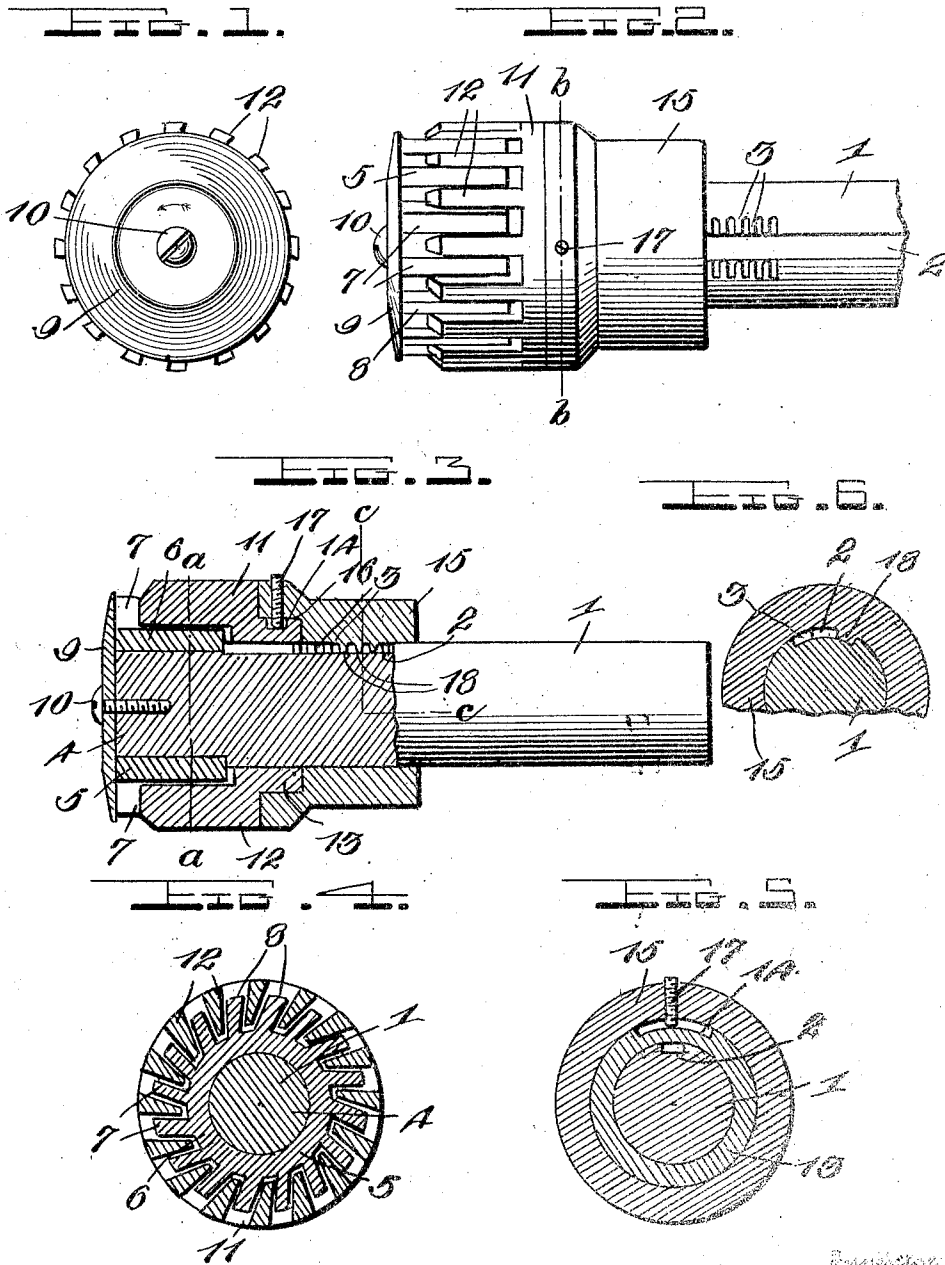


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 SOLE EDGE TRIMMING AND FINISHING TOOL.
 APPLICATION FILED OCT. 28, 1911.

1,025,390.

Patented May 7, 1912.



Witnesses

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ANTONIO D. FRASCOLA, OF EL RENO, OKLAHOMA.

SOLE-EDGE TRIMMING AND FINISHING TOOL.

1,025,390.

Specification of Letters Patent.

Patented May 7, 1912.

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To all whom it may concern:

Be it known that I, ANTONIO D. FRASCOLA, a citizen of the United States, residing at El Reno, in the county of Canadian and State of Oklahoma, have invented certain new and useful Improvements in Sole-Edge Trimming and Finishing Tools, of which the following is a specification, reference being had to the accompanying drawings.

10 This invention is an improved sole edge trimming and finishing tool of the class in which there is a revolving cutter, the knives of which are arranged to extend from a rand guide in such manner as to cut the lower
15 edge of the sole, and a burnishing sleeve having burnishing fingers extending between the knives of the revolving cutter or trimmer, the object of the invention being to provide an improved tool of this character
20 in which the burnishing sleeve is mounted on the shaft for movement toward and from the rand guide so as to adapt the tool to be used on shoe soles of varying thicknesses, and to provide the burnishing sleeve with
25 improved means for locking the same to the arbor at any desired adjustment.

The invention consists in the construction, combination and arrangement of devices hereinafter described and claimed.

30 In the accompanying drawing: Figure 1 is a front, end elevation of my improved tool; Fig. 2 is a side elevation of the same; Fig. 3 is a vertical, longitudinal, sectional view of the same; Fig. 4 is a vertical, transverse, sectional view of the same taken on the plane indicated by the line *a-a* of Fig. 3; Fig. 5 is a similar view taken on the plane indicated by the line *b-b* of Fig. 2; and
35 Fig. 6 is a detail sectional view taken on the plane indicated by the line *c-c* of Fig. 3.

40 The shaft on which the edge trimming tool is mounted is indicated at 1. This shaft is, in practice, mounted in suitable bearings and revolved by suitable means and usually
45 constitutes a portion of a trimming and burnishing machine. In accordance with my invention the shaft is provided in one side with a longitudinal channel 2, on opposite sides of which are series of rack teeth 3. On
50 the reduced end 4 of the shaft is mounted the revolving sole trimming cutter 5, which is revolved by the shaft and comprises the usual hub 6 and the usual cutter teeth 7 which are provided with cutting edges 8.
55 The trimmer or cutter 5 is held in place by the rand guide 9 which is of the usual con-

struction and is secured on the outer end of the shaft by a screw 10. This rand guide enters the crease between the sole and the upper to guide the cutter or trimmer.

60 The edge burnishing sleeve 11 is mounted on the shaft 1 for longitudinal movement and is provided with the buffer teeth 12 which enter the spaces between the teeth of the cutter or trimmer. This sleeve is provided on one end with an annular flange 13, and the said flange is provided, in its outer side, with a short slot 14, the axis of which is at right angles to that of the shaft.

70 In accordance with my invention I also provide a locking and adjusting collar 15, which is fitted and is longitudinally movable and also partly revoluble on the shaft 1. This locking and adjusting collar is provided at one end with an annular recess 16 for the reception of the flange 13 of the burnishing sleeve, and the said locking and adjusting collar is connected to the burnishing sleeve by a set screw 17, the inner end of which engages the slot 14. Hence, the
80 locking and adjusting collar is connected to the burnishing sleeve for longitudinal movement therewith and is also adapted to be turned to some extent independently of the burnishing sleeve. The locking and adjusting collar is provided, at one side of its bore, with locking and adjusting teeth 18, which are of such width that they may travel in the channel 2 so as to enable the
90 locking and adjusting collar to be moved longitudinally of the shaft in order to adjust the burnishing sleeve toward and from the rand guide or shield so as to vary the effective cutting length of the teeth of the trimmer or cutter, as may be required, according to the thickness of the sole on which
95 the tool is to operate, and when the burnishing sleeve has been thus adjusted the collar is then turned laterally so as to cause the teeth 18 to engage certain of the teeth 3 of the shaft on one side or the other of the channel according to the direction in which
100 the shaft and the tool is revolved. That is to say, if the tool is so constructed that it revolves to the left when in operation, as indicated by the arrow in Fig. 1 of the drawings, the locking and adjusting collar must be turned to the right, and it will be understood that the revoluble motion of the
105 tool will keep the locking and adjusting collar locked in place.

110 It will be understood from the foregoing

that in order to adjust the burnisher toward or from the rand guide it is only necessary to first turn the said collar a slight distance so as to disengage its locking teeth from those of the shaft, then move said collar longitudinally the required distance and then turn the same so as to reengage its locking teeth with certain of the locking teeth of the shaft. Such adjustment can be effected almost instantaneously and does not require the loosening or tightening of any adjusting screws or other similar devices.

Having thus described my invention I claim:

1. The combination with the shaft, rand guide and sole trimmer of a sole edge trimming and finishing tool, an edge burnishing sleeve mounted for longitudinal movement on the shaft toward and from the rand guide and having buffer teeth in the spaces between the teeth of the trimmer, a locking and adjusting collar mounted for longitudinal movement on the shaft, the burnishing sleeve being formed with a transversely extending slot, and a set screw extending through the collar and received in said slot, whereby the collar is connected to the burnisher for longitudinal movement therewith and also having partial rotation independently thereof, the shaft being provided with a longitudinal channel and with lock-

ing teeth opening into the channel and the collar being provided with a locking tooth adapted for longitudinal movement in said channel and to be engaged with the locking teeth of the shaft, for the purpose specified.

2. In combination with the shaft, rand guide and sole trimmer of a sole edge trimming and finishing tool, an edge burnishing sleeve mounted for longitudinal movement on the shaft toward and from the rand guide and having buffer teeth in the spaces between the teeth of the trimmer, and a locking and adjusting collar mounted for longitudinal movement on the shaft and connected to the burnisher for longitudinal movement therewith and also for partial rotation independently thereof, the said shaft being provided with a longitudinal channel and with locking teeth opening into the channel and the said collar being provided with locking teeth adapted for longitudinal movement in said channel and to be also engaged with locking teeth of the shaft when said collar is partly revolved in one direction.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

ANTONIO D. FRASCOLA.

Witnesses:

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