

(No Model.)

E. F. MAXWELL.
RAND TRIMMER.

No. 567,246.

Patented Sept. 8, 1896.

Fig. 1.

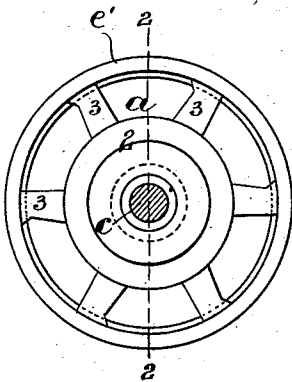


FIG2.

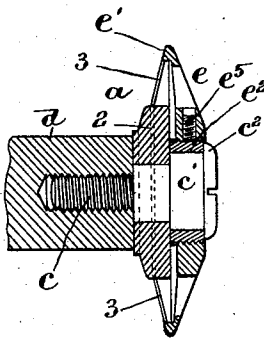
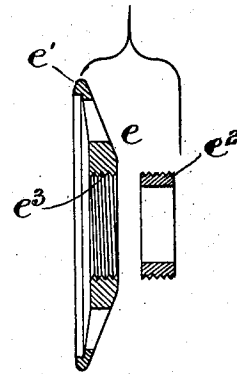


FIG. 3.



WITNESSES.

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EDWIN F. MAXWELL, OF WEST BRIDGEWATER, MASSACHUSETTS.

RAND-TRIMMER.

SPECIFICATION forming part of Letters Patent No. 567,246, dated September 8, 1896.

Application filed March 21, 1896. Serial No. 584,210. (No model.)

To all whom it may concern:

Be it known that I, EDWIN F. MAXWELL, of West Bridgewater, in the county of Plymouth and State of Massachusetts, have invented certain new and useful Improvements in Rand-Trimmers, of which the following is a specification.

This invention relates to a rotary rand-trimming cutter of the character shown in Letters Patent No. 549,676, dated November 12, 1895, and particularly to the loose circular guard shown in said patent, the object of the invention being to enable the guard to cover the outer ends of the knives and limit their action on the welt, and to be accurately adjusted with relation to the cutting-edges of the knives.

The invention consists in the improvements which I will now proceed to describe and claim.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a side view of my improved cutter. Fig. 2 represents a section on the line 2 2 of Fig. 1. Fig. 3 represents in different views a section of the guard.

The same letters of reference indicate the same parts in all of the figures.

In the drawings, *a* represents the cutter, which is composed of a hub 2 and blades 3 radiating therefrom, the said blades being formed substantially as shown in the above-mentioned patent, excepting that their outer ends, instead of being beveled, are preferably blunt.

The hub 2 has a central orifice to receive the attaching-screw *c*, whereby it is attached to one end of a shaft *d*. The screw *c* has an enlarged portion *c'*, of greater diameter than the orifice in the hub, said portion forming a shoulder which bears on one side of the hub and clamps it against the end of the shaft *d*. The screw also has a head *c''* at the outer end of the enlarged portion *c'*.

e represents the guard which is formed to cover one side of the cutter, and has a mar-

ginal lip *e'*, formed to project over the outer ends of the blades, as shown in Fig. 2, said lip limiting the entrance of the outer ends of the blades into the rand. The guard is also provided with an adjustable bushing *e''*, which is formed to inclose the enlargement *c'* of the attaching-screw, and is confined between the head *c''* of said screw and the hub of the cutter, as shown in Fig. 2. The body of the guard has a threaded orifice *e'''*, which engages the threaded periphery of the bushing, said orifice being of greater diameter than the screw-head *c''*, so that the guard may project outwardly over said head at its central portion, if desired.

It will be seen that the bushing enables the guard to be laterally adjusted to vary the projection of the lip *e'* over the outer ends of the cutters, the bushing being confined between the hub and the screw-head, so that it has no appreciable endwise movement, although said bushing is sufficiently loose to permit the guard to be held stationary by contact with the boot or shoe.

To maintain any desired adjustment of the guard, I provide it with a set-screw *e''''*, adapted to engage the periphery of the bushing.

I claim—

A rotary trimming-tool comprising a cutter having a hub and radiating blades, a guard having an annular marginal lip formed to cover the outer ends of said blades, and an adjustable bushing arranged to bear against the hub of the cutter to determine the position of said lip relatively to the blades, and means for connecting the cutter and guard to a shaft.

In testimony whereof I have signed my name to this specification, in the presence of two subscribing witnesses, this 12th day of March, A. D. 1895.

EDWIN F. MAXWELL.

Witnesses:

J. E. HOWARD,
D. H. EWELL.