(No Model.)

W. L. BLISS.

HOOF CUTTING TOOL.

No. 589,809. Patented Sept. 14, 1897.

Fig. 1.

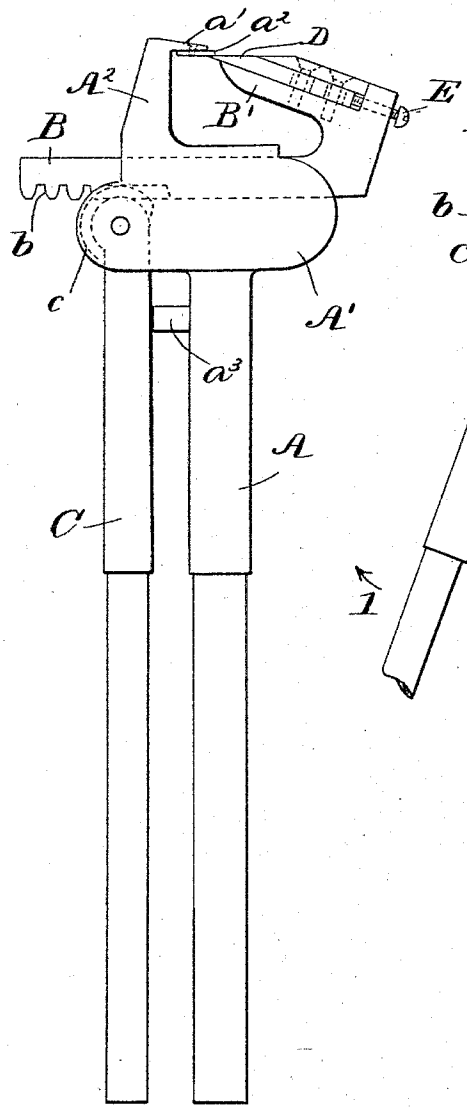
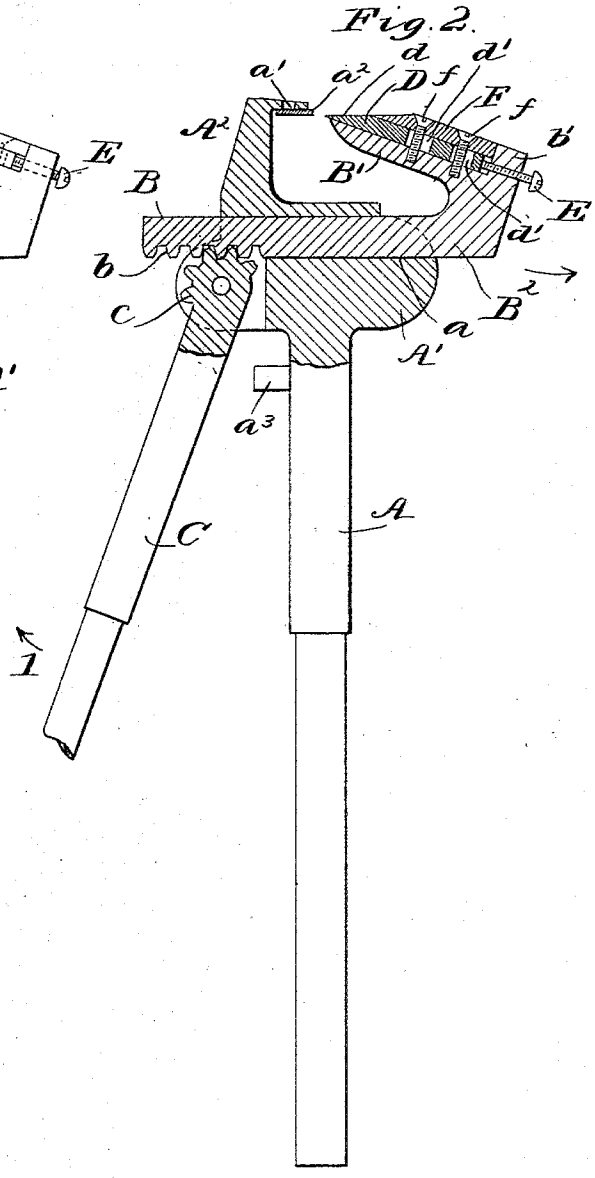


Fig. 2.



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HOOF-CUTTING TOOL.

SPECIFICATION forming part of Letters Patent No. 589,809, dated September 14, 1897.

Application filed February 2, 1897. Serial No. 621,691. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM LINUS BLISS, a citizen of the United States, and a resident of South Egremont, county of Berkshire, and State of Massachusetts, have invented certain new and useful Improvements in Cutting-Tools, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof, in which similar letters of reference indicate corresponding parts.

This invention relates to an improved cutting-tool adapted for trimming horses' hoofs, the object thereof being to supply an article of this character which is so constructed as to utilize a maximum of leverage, whereby sufficient power is supplied to cut the hardest of hoofs, further objects being to prevent injury to the frogs of the feet and to provide means for cutting a straight and even surface.

The device comprises few and simple parts, and the knives forming part thereof are capable of adjustment or removal for purposes of sharpening or renewing them.

The invention will be hereinafter fully described, and specifically set forth in the annexed claim.

In the accompanying drawings, forming a part of this specification, Figure 1 is a side elevation of my improved device, showing the same closed; and Fig. 2 is a similar view, partly in section, showing the device partly open.

In the practice of my invention I supply an arm A, which has a head A′ formed integral thereon and a jaw A^2 extended therefrom.

The head A′ has a passage-way *a* leading longitudinally therethrough for receiving a sliding jaw B, which said jaw has a rack *b* formed upon the lower surface thereof. Engaging with this said rack is a pinion *c*, which forms part of a swinging lever C, adapted for moving the jaw B.

The jaw A^2 has a projection *a′* extended laterally therefrom and having a hardened-steel plate a^2 riveted thereon for engagement with the cutting edge of the knife D, which knife is mounted upon an extension B′ of the jaw B, which said extension is projected at an angle, whereby the beveled edge *d* of the knife is arranged upon a horizontal line parallel with the plate a^2 and also parallel with the lateral extension or rack-arm of the jaw B.

A flange *b′* is extended upwardly from the outer end of the jaw B for engagement with a screw E for adjusting the knife, and a plate F bears upon the outer surface of the said knife to maintain the same in rigid connection with the rearward extension B′ of the jaw, the same being securely held by means of screws *f*, which are threaded into the extension B′ and through slots *d′* of the knife D, whereby said knife can be readily adjusted.

To prevent the sharpened edge of the knife from contacting with the inner surface of the extension A^2 during the operation of cutting, the stud a^3 is projected from the upper portion of the arm A to contact with the lever C when the tool is in a closed position, as illustrated in Fig. 1 of the drawings.

In the operation of the device the horse's hoof is held up in the customary manner and the projection *a′* is brought into engagement with the outer edge thereof. The lever C is then swung in the direction of the arrow 1 until the jaw B is extended in the direction of the arrow 2 to its farthest extent. Then the movement of the lever C in the opposite direction will cause the jaw to close and at the same time trim away the superfluous portion of the hoof, and it will be noted that owing to the downwardly-extended angle of the projection B′ the jaw will not contact with or injure the frog of the foot during the process of operating the device.

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

In a cutting-tool of the character described, a stationary arm having a head formed thereon, a sliding jaw having a rack thereon passing through said head, a swinging lever having a pinion and pivoted on the head for operating the sliding jaw, a vertical jaw extended from the head and having a lateral projection thereon with a plate riveted thereto, an extension on said sliding jaw projected at an angle, a knife mounted thereon having its beveled edge upon a horizontal line parallel with the plate of the projection on the fixed jaw and also parallel with the rack-arm

of the sliding jaw, the lower side of said extension inclining downward from the outer end, whereby the hoof may be cut without contact of the frog by the extension carrying the knife, and means for adjusting the knife in the extension, substantially as shown and described.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 29th day of January, 1897.

WILLIAM LINUS BLISS.

Witnesses:
C. E. CULVER,
CHAS. H. BOOTH.