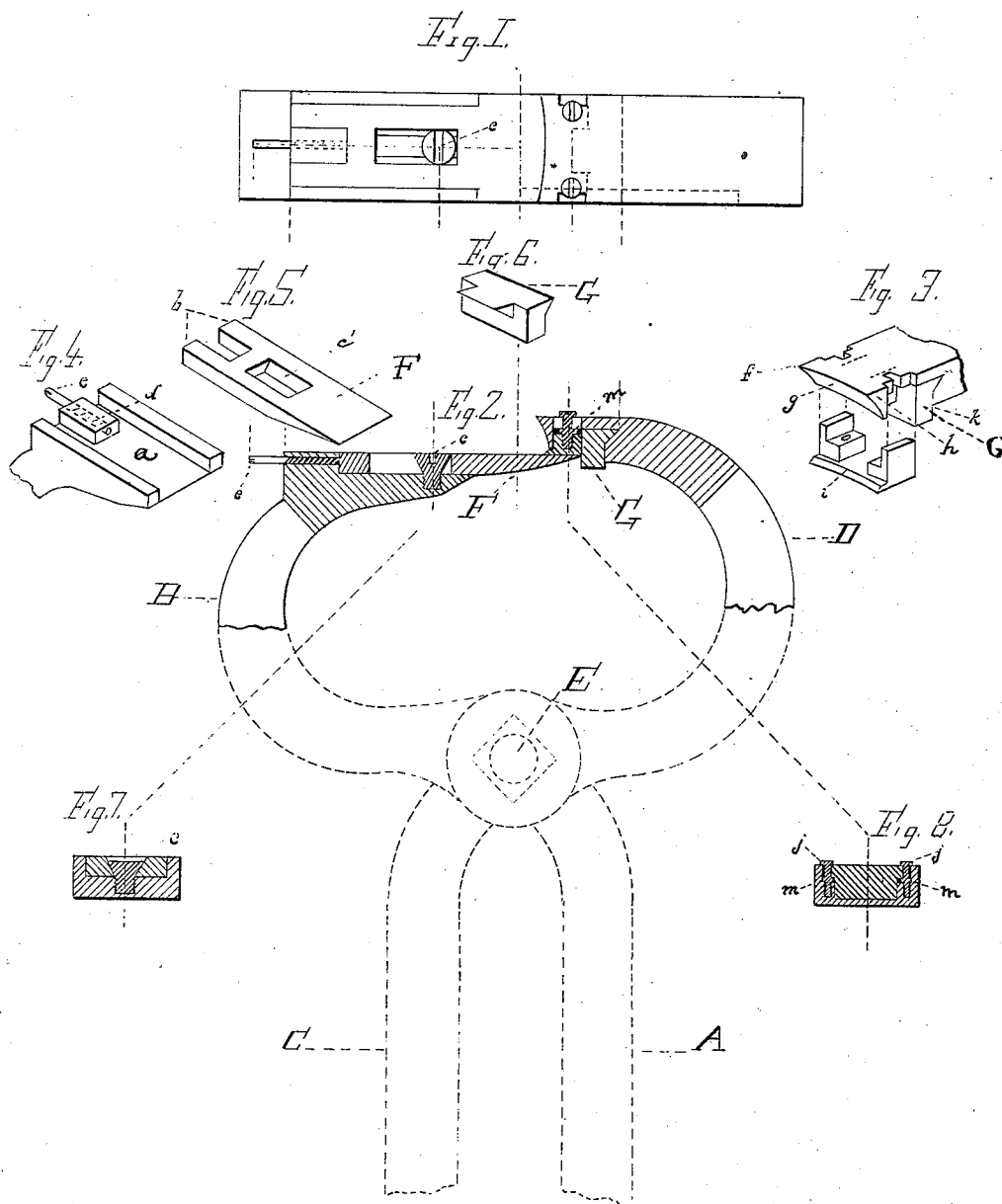


(No Model.)

D. T. BARBER.
HOOF TRIMMING TOOL.

No. 350,340.

Patented Oct. 5, 1886.



WITNESSES:

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DELOSS T. BARBER, OF GUSTAVUS, OHIO.

HOOF-TRIMMING TOOL.

SPECIFICATION forming part of Letters Patent No. 350,340, dated October 5, 1886.

Application filed February 16, 1886. Serial No. 192,064. (No model.)

To all whom it may concern:

Be it known that I, DELOSS T. BARBER, a citizen of the United States, residing at Gustavus, county of Trumbull, and State of Ohio, have invented certain new and useful Improvements in Hoof-Trimming Tools; and I do hereby declare the following to be a description of the same, and of the manner of constructing and using the invention, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it appertains to construct and use the same, reference being had to the accompanying drawings, forming a part of the specification, the principle of the invention being herein explained and the best mode in which I have contemplated applying that principle, so as to distinguish it from other inventions.

My invention has for its object to provide an improved tool for the convenient and accurate paring or trimming of the hoofs of horses in the process of shoeing. The main features are the peculiar construction and relative adjustment to each other of the opposite jaws of said tool, admissibly called "nippers," and the trimming or cutting means with which said jaws are provided, as are more fully and plainly shown in the description that follows.

In the drawings, Figure 1 is a front end view of the tool. Fig. 2 is a side elevation of tool, with certain parts in section. Fig. 3 is a detail perspective view of one end of jaw D and its shear-blade detached therefrom. Fig. 4 is a detail perspective of end of jaw B, and having its knife detached therefrom. Fig. 5 is a detail perspective of a knife which fits in jaw B. Fig. 6 is a detail perspective view of anvil-block which fits in jaw D. Fig. 7 is a detail cross-section of jaw D, taken on dotted line, as indicated. Fig. 8 is a detail cross-section of jaw D, taken on dotted line, as indicated.

A represents one of the arms of the tool, terminating in the jaw B. C is the other arm of the tool, terminating in the jaw D. E is the pivot by which said arms are connected together. Said jaws bend toward each other in very nearly the same horizontal plane.

Jaw B is provided with the knife F, which projects suitably forward of the inner end of said jaw. Said jaw has on its outer terminal surface the recess a, within which shank b of

kniveslides. Set-screw c, passing through longitudinal slot c' of shank b, holds said knife at any adjusted position in said recess. At a centrally rear point of recess a is formed the longitudinal lug d, through which works screw e, adapted to have bearing against the shank of knife F, whose object is to push said knife forward in said recess, as may be necessary for the taking up of wear on the cutting-edge of said knife.

The terminal bent portion f of jaw D lies in a horizontal plane somewhat outwardly beyond the horizontal plane of knife F, and of the corresponding plane of jaw B, in which the shank of said knife is inserted, so that said knife may work substantially under the inner horizontal surface of said jaw D. Said terminal bent portion f of jaw D may be outwardly somewhat convex, the better to fit the natural curvature of the hoof of the horse, and the extreme end g of said jaw D is concave, and also beveled inwardly, forming shear-block h. Directly under said block is located shear-blade i, having its front edge concave, corresponding substantially with the concavity of block h. Said blade i is removable, and also adjustable toward and from said block h by means of screws j, having collars m, one screw on each side of jaw D, or by any other equivalent means. Said screws j are so connected with blade i that by screwing them one way said blade is started somewhat away from block h, and by screwing them in the opposite direction said blade is drawn closer to said block.

Immediately in rear of shear-blade i is formed, on the under face of terminal portion f of jaw D, the dovetail cross-slot k, into which is fitted the anvil-block G, which forms the terminus of the cutting stroke of knife F. Said anvil-block has its inner lateral edges beveled to fit in said slot k, and when worn is easily removable from said slot for the purpose of its being turned or replaced or otherwise.

Knife F is substantially straight across its cutting-edge, while the reciprocating face of block h and front edge of blade i are concave, which several forms of said parts in co-operation cause the outer corners of knife F to strike the hoof first, and thence to cut onward to the center of knife; also, by means of the co-operation of knife F and shear-blade i in

slightly- different planes horizontal to each other there is virtually effected a double cut.

What, therefore, I claim is—

1. In a hoof-cutting tool, the combination,
5 with jaw B, provided with knife F, having a straight cutting-edge, of jaw D, provided with shear-blade *i*, having a concave cutting edge, substantially as set forth.

2. In a hoof-trimming tool, the combination,
10 with straight-cutting-edged knife F, located on jaw B, of concave and beveled shear-block *h* and concaved-edgeshear-blade *i*, located on jaw D, the concave dimensions of said blade and said block substantially tallying with each
15 other, substantially as set forth.

3. The combination, with jaw D, of blade *i*

and screws *j*, which maintain said blade at different positions in a plane at right angles to the cutting-plane of said blade, substantially as set forth.

4. The combination, with jaw D, provided
20 with beveled shear-block *h* at its extremity, of blade *i*, located rearward of said shear-block, and anvil-block G, located in rear of said blade, substantially as set forth.

In testimony that I claim the foregoing to
25 be my invention I have hereunto set my hand this 28th day of January, A. D. 1886.

DELOSS T. BARBER.

Witnesses:

THOS. B. HALL,

J. G. HALL, Jr.