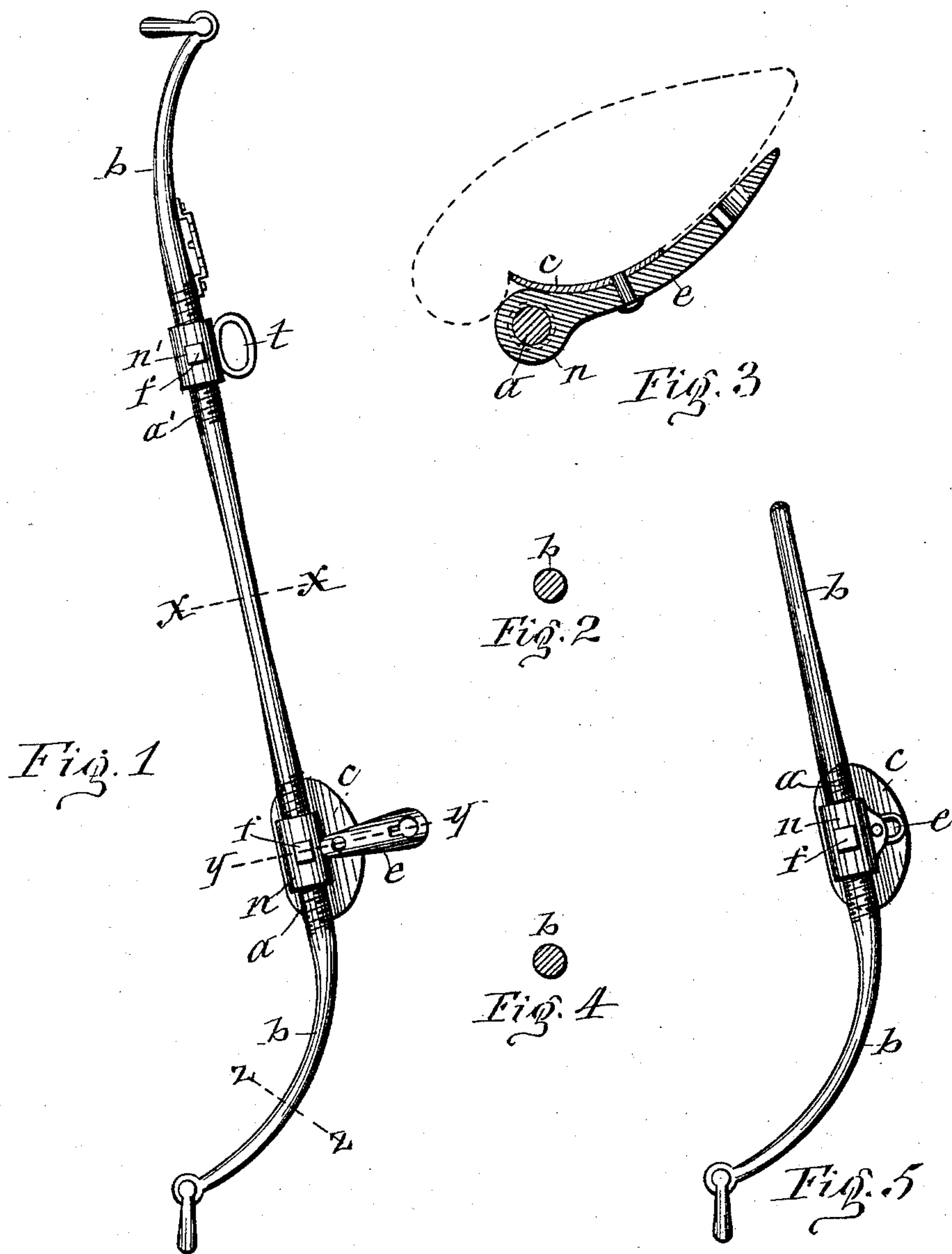


(No Model.)

W. H. SIMMONS.  
HAME.

No. 461,852.

Patented Oct. 27, 1891.



WITNESSES:

C. L. Bendixon  
H. M. Seamans

INVENTOR:

William H. Simmons  
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his ATTORNEYS.

# UNITED STATES PATENT OFFICE.

WILLIAM H. SIMMONS, OF SYRACUSE, NEW YORK.

## HAME.

SPECIFICATION forming part of Letters Patent No. 461,852, dated October 27, 1891.

Application filed January 31, 1891. Serial No. 379,856. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM H. SIMMONS, of Syracuse, in the county of Onondaga, in the State of New York, have invented new and useful Improvements in Hames, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

The object of this invention is, first, to provide a hame which shall be reduced to a minimum in size, and thus neat and light in appearance and simple and inexpensive to manufacture; secondly, to provide a hame which shall have the draft-iron adjustable longitudinally thereon, and thus adapted to be moved up or down on the hame according to the size of the collar and to bring the strain of the draft on the proper portion of the horse's shoulder, and, thirdly, to adjust with the draft-iron the plate which protects the collar from wear and abrasion from the draft-iron; and to that end the invention consists in the improved construction and combination of parts hereinafter described, and specifically set forth in the claims.

In the annexed drawings, Figure 1 is a front view of a hame embodying my invention. Figs. 2, 3, and 4 are enlarged transverse sections respectively on lines  $x x$ ,  $y y$ , and  $z z$ , Fig. 1, and Fig. 5 is a front view of a modification of my invention.

Similar letters of reference indicate corresponding parts.

I form my improved hame in one piece of a slender round rod of iron or steel, curved longitudinally to conform to the contour of the rim of the collar and re-enforced at  $a$ , and if desired also at  $a'$  by circumferential cylindrical enlargements of the rod for the attachment of the draft-iron  $e$  and turret  $t$ . Said draft-iron I swivel on the hame by mounting loosely on the latter the sleeve  $n$ , and attaching or forming integral with said sleeve the draft-iron, which may be of any suitable and well-known form. The re-enforced hame-section  $a$  is of sufficient length to allow the sleeve  $n$  to be shifted longitudinally thereon, and thus bring the draft-iron in its requisite position on the hame. A set-screw  $f$  passes through the sleeve and engages the hame so

as to retain the sleeve in its adjusted position. To more effectually guard against the accidental longitudinal slipping of the draft-iron on the hame, I screw-thread the hame-section  $a$  and interior of the sleeve  $n$  and raise or lower the draft-iron on the hame by turning the former on the latter. The turret  $t$  I also prefer to swivel and adjustably connect to the hame by screw-threading the hame-section  $a'$  and mounting thereon a correspondingly screw-threaded sleeve  $n'$ , to which the turret  $t$  is attached in any suitable manner. Said sleeve may be secured in its adjusted position by a set-screw  $f$  in the same manner as the sleeve  $n$ . The end portions  $b b$  are reduced circumferentially to allow the sleeves to be slipped over them.

$c$  represents the plate which protects the collar from wear and abrasion by the draft-iron, and also serves to prevent the hame from slipping from the front of the collar, as indicated by dotted lines in Fig. 3 of the drawings. In order to cause the plate  $c$  to be adjusted simultaneously with the draft-iron I attach the former to the latter, as shown.

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

1. The combination of a hame formed in one piece of a round metal rod and with a cylindrical screw-threaded main portion  $a$ , larger in diameter than the adjacent end portions of the hame, the sleeve  $n$  on said screw-threaded portion and a draft-iron attached to said sleeve, as set forth.

2. The combination of a hame formed in one piece of a round metal rod, with the enlarged cylindrical portions  $a a'$  and circumferentially reduced end portions  $b b$ , sleeves  $n n'$ , respectively, on the main portions  $a a'$ , and the draft-iron and turret attached, respectively, to the sleeves  $n n'$ , substantially as described and shown.

In testimony whereof I have hereunto signed my name this 26th day of January, 1891.

WILLIAM H. SIMMONS. [L. S.]

Witnesses:

MARK W. DEWEY,  
C. L. BENDIXON.