(No Model.)

W. H. SIMMONS.

HAME.

No. 482,656. Patented Sept. 13, 1892.

Fig. 1.

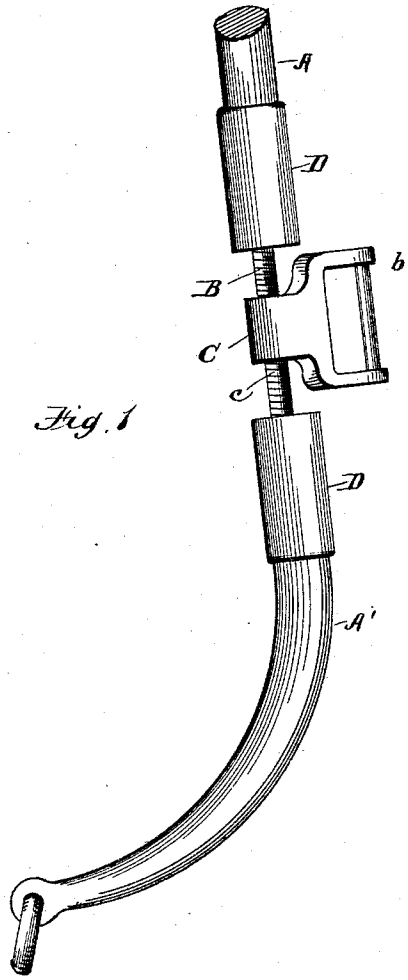


Fig. 2.

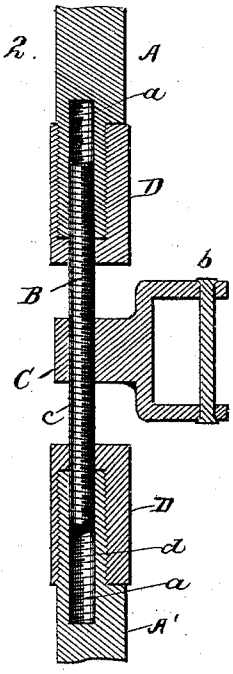


Fig. 3.

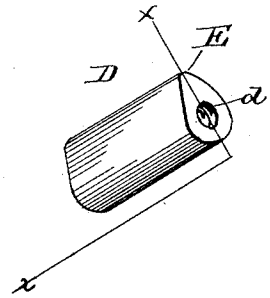
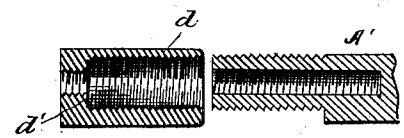


Fig. 4.



Witnesses

W. H. H. Knight.

William O. Belt.

Inventor

William H. Simmons,

By his Attorneys

Edson Bros.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

WILLIAM H. SIMMONS, OF BUFFALO, NEW YORK.

HAME.

SPECIFICATION forming part of Letters Patent No. 482,656, dated September 13, 1892.

Application filed December 17, 1891. Serial No. 415,403. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM H. SIMMONS, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Hames; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention is primarily designed as an improvement on the hame for which Letters Patent No. 461,852 were issued to me on October 27, 1891.

The object of this invention is to provide a simple and inexpensive hame which can be readily adjusted to fit collars of different sizes, and a further object is to provide an independent vertical adjustment for the draft-iron.

With these ends in view my invention contemplates constructing the hame in two parts, having threaded openings in the opposing ends and a connecting-rod carrying the draft-iron adjustably secured in the openings in the hames.

The invention consists, further, of certain details of construction and arrangement of parts, as will be hereinafter fully pointed out and claimed.

I have illustrated my invention in the accompanying drawings, in which—

Figure I is a front view of the hame. Fig. II is a similar view partly in section. Fig. III is a detail view of one of the collars around the end of each part of the hame, and Fig. IV is a sectional view of one of said collars.

Referring to the drawings, in which like letters of reference denote corresponding parts in all the figures, A A′ designate the upper and lower members or parts of the hame, respectively, the upper part A having the terret and other attachments, as desired. The meeting or opposing ends of the two members are provided with threaded openings *a*, which extend a suitable distance into the members, and a threaded rod B has its ends screwed into the threaded openings of the two members, thus connecting the parts of the hame adjustably together. The draft-iron *b* is carried by a sleeve C, which has a threaded opening and is screwed on the rod B, so that the draft-eye can be adjusted on the threaded portion *c* of the connecting-rod B, and said eye may thus be adjusted vertically on said threaded portion independently of the adjustment of the rod B in the sections or members A A′ to change or vary the relative distance between the ends of the sections, and thus change the length of the hame. The rod B thus connects the two members of the hame, and by screwing or unscrewing the ends of said rod into the openings *a* in the members the length of the hame can be readily changed to adapt the hame to fit collars of different sizes, and when it is desired to alter the position of the draft-iron to change the draft the adjustment of the draft-iron can be easily and quickly accomplished by adjusting the sleeve C on the threaded portion *c* of the rod B. The openings *a* in the parts of the hame are not of such size and length as to weaken the hame; but, if preferred, the ends of the parts having said openings may be made larger in cross-section than at their other ends. To further strengthen the ends of members having these openings *a*, I prefer to employ the collars D, constructed as shown in Figs. III and IV and adjustably secured on the opposing ends of the members A A′. Each collar D has an opening *d* of different diameters in the upper and lower parts of the collar, the opening extending clear through said collar D. At one end of the collar the opening *d* is of such diameter that it can be readily screwed on the end of either of the members A A′, while the remaining portion of the collar D aligns substantially with the sides of the opening *a* in the part to which the collar D is applied. A shoulder *d′* is thus formed at or about the center of the collar, against which shoulder the end of the part of the hame impinges, and a continuous opening of the same diameter is thus provided, which extends through the collar and part of the hame, the sides of the openings each aligning. The rod B is then screwed into the openings in the collar and part of the hame, the openings in the collar being threaded to fit on the hame and to receive the rod B. On one side of each collar is a beveled extension E, which is arranged to pass into or between the rim and body of the horse-collar to assist in holding the hame in place on the collar. By this

construction and arrangement of parts it is obvious that the hame can be quickly adjusted to fit collars of different sizes, and the draft can also be regulated by simply adjusting the draft-iron on the hame, as hereinbefore described.

I am aware that changes in the form and proportion of parts and details of construction may be made without departing from the spirit or sacrificing the advantages of my invention, and I therefore reserve the right to make such changes as fairly fall within the scope of the same.

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

1. A hame constructed of two members or sections having the threaded sockets in their contiguous ends, the connecting-rod having its threaded ends screwed into said sockets and adapted to be adjusted vertically therein, and the screw-threaded draft-iron carried by the threaded bar and adjustable thereon independently of the adjustment of the members to each other, substantially as described.

2. A hame constructed in two parts having the sockets in their contiguous ends, the collars fitted on said ends and each having an opening therein, part of which opening in the collar aligns with the socket in the hame, and the connecting-rod adjustably fitted in the openings in the collars and hame, substantially as described.

3. A hame constructed in two parts, each having the sockets in one end, the collars fitted on the contiguous ends, and each collar having an opening therein, the opening in the collar at the outer end thereof being in alignment with the socket in the hame, the beveled extension on one side of each collar arranged to pass between the rim and body of the collar, the threaded connecting-rod, and the draft-iron, substantially as described.

4. A hame constructed of two parts having the sockets in their contiguous ends, the connecting-rod adjustably fitted in said socket, the draft-iron carried by said rod between the sections of the hame, and the collars fitted on said contiguous ends of the hame and each having a beveled extension on one side thereof, adapted to be fitted between the rim and body of the horse-collar, substantially as described.

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

WILLIAM H. SIMMONS.

Witnesses:
FRANK F. WILLIAMS,
ANDREW ROCK.