

(No Model.)

O. O. ROBERTS.
HAME AND TRACE ATTACHMENT.

No. 260,896.

Patented July 11, 1882.

Fig. 1.

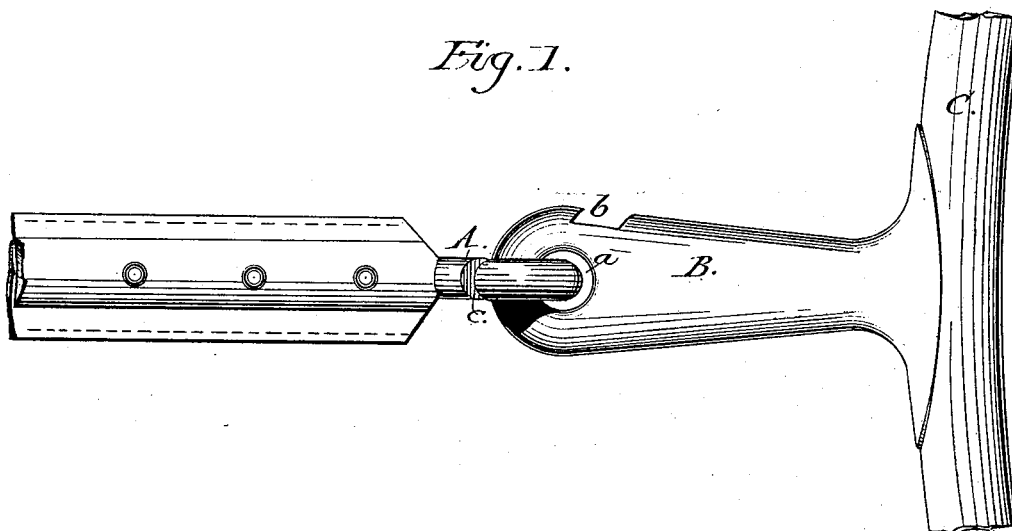


Fig. 2.

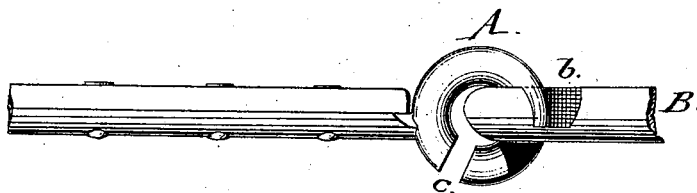
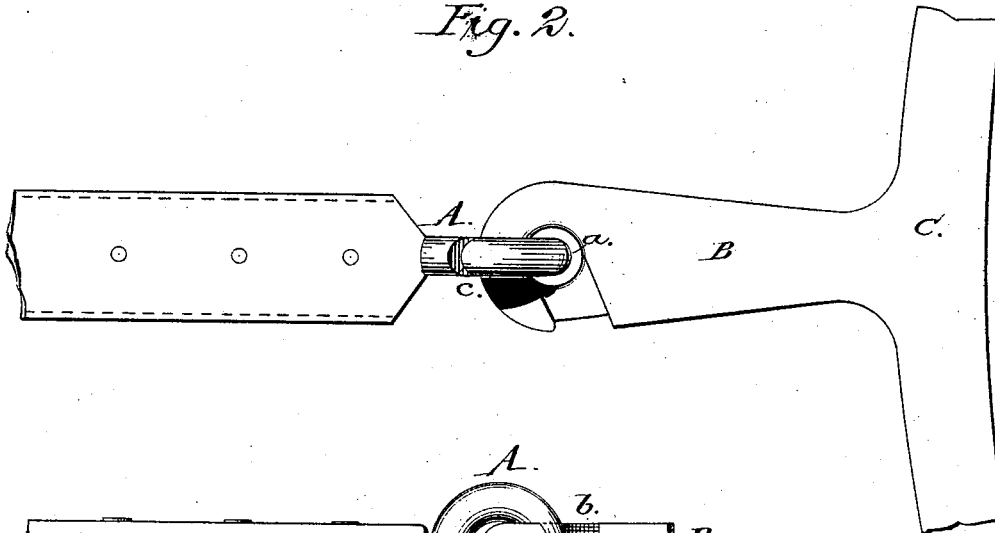


Fig. 3

Witnesses:
A. N. Ege
J. N. Hall

Inventor:
Osmore O. Roberts:
per *Edw. M. Drown & Co.*
Atty's.

UNITED STATES PATENT OFFICE.

OSMORE O. ROBERTS, OF NORTHAMPTON, MASSACHUSETTS.

HAME AND TRACE ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 260,896, dated July 11, 1882.

Application filed March 9, 1882. (No model.)

To all whom it may concern:

Be it known that I, OSMORE O. ROBERTS, a citizen of the United States, residing at Northampton, in the county of Hampshire and State of Massachusetts, have invented certain new and useful Improvements in Attaching Tugs or Traces to Hames in Light Harness; 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, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to an improvement in attaching hame-tugs to hames in harness.

It consists in forming the clip with an undivided shank provided with an open loop to receive the eye of a hame-hook, and in slotting the latter on the under side obliquely to reduce the thickness of the metal sufficiently to allow said loop to be linked to said hook or readily detached therefrom after the tug is secured, as will be hereinafter set forth.

In my drawings, Figure 1 is an outside view of the tug, loop, and hook and a portion of a hame. Fig. 2 is an inside view, or elevation, of the same. Fig. 3 is a top view of the same. Similar reference-letters indicate like parts in all of the figures.

Referring to the drawings, A is the loop or ring, formed open radially and provided with a long shank, to which is permanently secured the breast end of a hame-tug by means of stitching, rivets, or any ordinary method.

B is the hame-hook, provided with an eye, *a*, secured permanently to one of the hames C by brazing or welding.

Inside of said hook is cut or formed a slot, *b*, of a width about equal to the diameter of the metal forming the loop A of the clip, to reduce the metal of the said hook at that point to a thickness about equal to the cut or opening *c* of the ring or loop A.

The ordinary method of forming the combined loop and shank of a tug-clip is by making it of a single continuous piece of material, so that when completed it has a bifurcated appearance, which bifurcations, after the loop has been placed in the eye of the hook at-

tached to the hame, are placed over the end of the tug and secured to the same by rivets or other suitable means.

By this arrangement and method there is found to be an inconvenience in the handling of the united parts, as while fastening the tug to the shank of the clip, the hame being already attached to the hook, said hame falls in the way of the operator and retards the progress of his work.

In my device I form the shank of the clip of a single piece, undivided, with an open loop on its end, which, being adapted to coincide with the oblique slot in the hook of the hame, enables me to economize the construction of my device, and at the same time render the tug-clip and hame-hook easy of attachment with each other in the process of manufacture.

By my improvement the hame may be independent of the loop until after the latter and the tug have been completely united.

In uniting the tug-clip to the hame-hook by my improved arrangement I place the loop A against the hook B, with the opening of the former against the reduced metal of the latter, and press one toward the other until the said loop finds its way into the eye of the said hook. I now revolve the clip and hook, either or both, until the slot in the hook B comes diagonally opposite the opening in the loop A to make the one perfectly secure in the other.

It is obvious and apparent that by no possibility can the loop A be detached from the hame-hook while the hames are in place upon the collar of the horse, as it would be quite impossible to place the said loop A in the position it occupied with reference to the hook B immediately before it was revolved, as previously described.

I am aware that in chains and other analogous articles, and in tug and single-tree attachments, the material in one piece has been reduced to facilitate the union of a second piece having an opening to correspond with the reduced portion, and to such therefore, broadly, I make no claim.

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

The combination, with a harness-tug and a clip formed with an undivided shank and an

open loop, A, of a hame, C, having an extension, B, provided with an eye and a slot, *b*, the latter formed obliquely on the inside of said extension to reduce the same, so that the
5 opening *c* of said loop A may pass over said reduced portion in the act of uniting or separating the tug and hame after each of said parts are completed independently, substantially as and for the purpose set forth.

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

OSMORE O. ROBERTS.

Witnesses:

F. C. HOLCOMBE,
N. G. HAYES.