(No Model.)

T. CAULFIELD.

HAME TUG.

No. 465,040. Patented Dec. 15, 1891.

Fig. 1

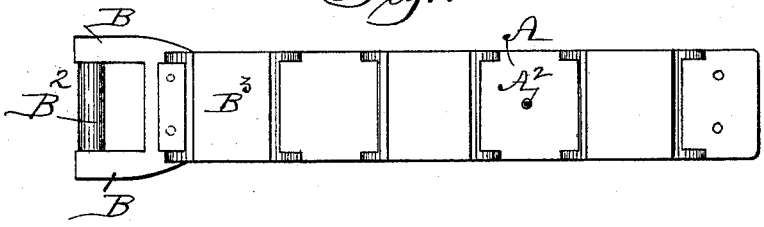


Fig. 2

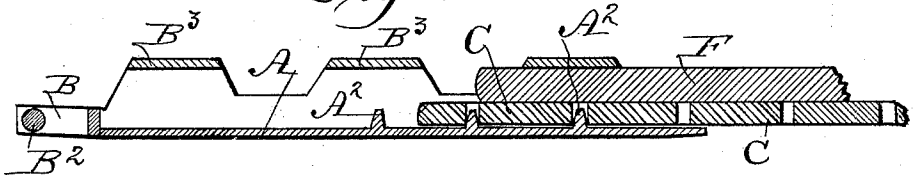
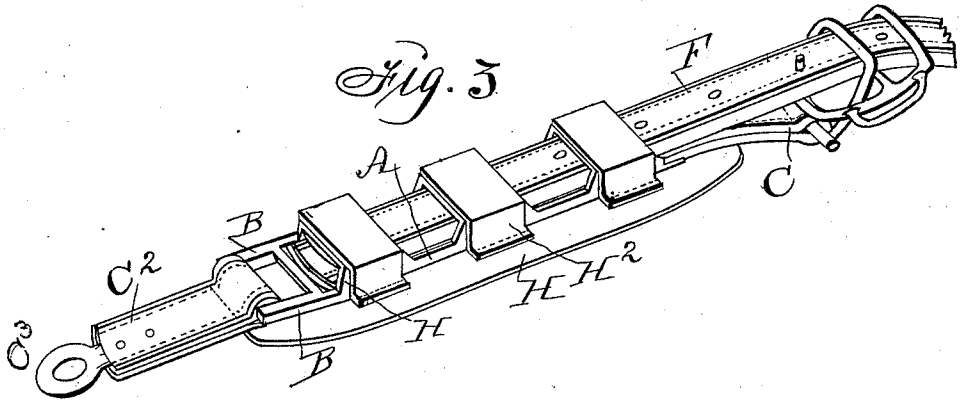


Fig. 3



Witnesses:
J. Ralph Orwig.
R. H. Orwig.

Inventor: Thomas Caulfield,
By Thomas G. Orwig, Atty.

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

UNITED STATES PATENT OFFICE.

THOMAS CAULFIELD, OF BAXTER, IOWA.

HAME-TUG.

SPECIFICATION forming part of Letters Patent No. 465,040, dated December 15, 1891.

Application filed April 27, 1891. Serial No. 390,722. (No model.)

To all whom it may concern:

Be it known that I, THOMAS CAULFIELD, a citizen of the United States of America, and a resident of Baxter, in the county of Jasper and State of Iowa, have invented a new and useful Extensible Hame-Tug, of which the following is a specification.

My object is to provide a jointed hame-tug that can be lengthened and shortened and also adapted for adjustably and detachably connecting a trace therewith, and to provide two ways of lengthening a combined hame-tug and trace and fitting a harness to a horse; and my invention consists in the construction and combination of a rigid metal hame-tug section having tongues and loops, a hinged tug-section adapted to be connected with a hame, and a flexible leather section adapted to be detachably and adjustably connected with the metal frame and provided with a buckle at its end adapted for detachably and adjustably connecting a trace therewith, as hereinafter set forth, pointed out in the claim, and illustrated in the accompanying drawings, in which—

Figure 1 is a plan view of the metal frame. Fig. 2 is a vertical longitudinal sectional view showing the strap and trace in their most extended position, and Fig. 3 is a perspective view showing the different parts combined as required for practical use and the strap and trace adjusted to their shortest length.

A is the frame of the device, preferably cast complete in one piece. It has on its inside and bottom integral tongues or pins A^2 at regular intervals, adapted to enter corresponding perforations in a leather tug-section adapted to be admitted in the frame A and to be adjusted on the pins A^2. At the forward end of the frame A and formed integral therewith are parallel forward projections or arms B, having an intersecting cross-bar B^2 fixed thereto, to which a strap can be attached. At its top are loops B^3 and openings between them adapted to admit a person's fingers and to facilitate the adjustment of the tug-section and trace therein.

C represents a leather hame-tug section adapted to be detachably and adjustably connected with the metal section A.

C^2 is a section hinged to the cross-bar B^2 of the frame A. A metal hook or loop C^3, of common form and adapted to be attached to the hames of a harness, is fixed to its front end by means of rivets. The leather section C is adapted to enter the frame A and to be adjustably connected thereto by means of perforations 1 2 3 at regular intervals along its center, that will admit the tongues A^2. To the other end of the section C is attached the loop of a two-part buckle of common form, as required, to adjustably connect it with the trace of a harness.

F is a harness-trace adapted in size to enter the frame A, to extend under the loops, and to overlap the section C, as required, to hold the section C securely within the metal section A. The trace is adjustably connected with the rear end of the section C by means of a two-part buckle of common form.

H is a leather guard adapted to protect a draft-animal from the chafing or rubbing of the metal frame A. It is connected thereto by rivets passing through the bottom of the frame and by leather straps H^2, which cover the loops of the frame A.

I claim as my invention—

The combination of the frame A, having tongues A^2, a cross-bar B^2, and loops B^3, arched over the tongues, a leather-section C, having a buckle at its rear end and perforations along its center to admit the tongues A^2, a tug-section C^2, adapted to be connected with a hame and hinged to the cross-bar B, substantially as shown and described, for the purposes stated.

THOMAS CAULFIELD.

Witnesses:
W. C. WEEKS,
J. F. KLISE.