

(No Model.)

J. D. McANALLY.  
HAME TUG.

No. 421,105.

Patented Feb. 11, 1890.

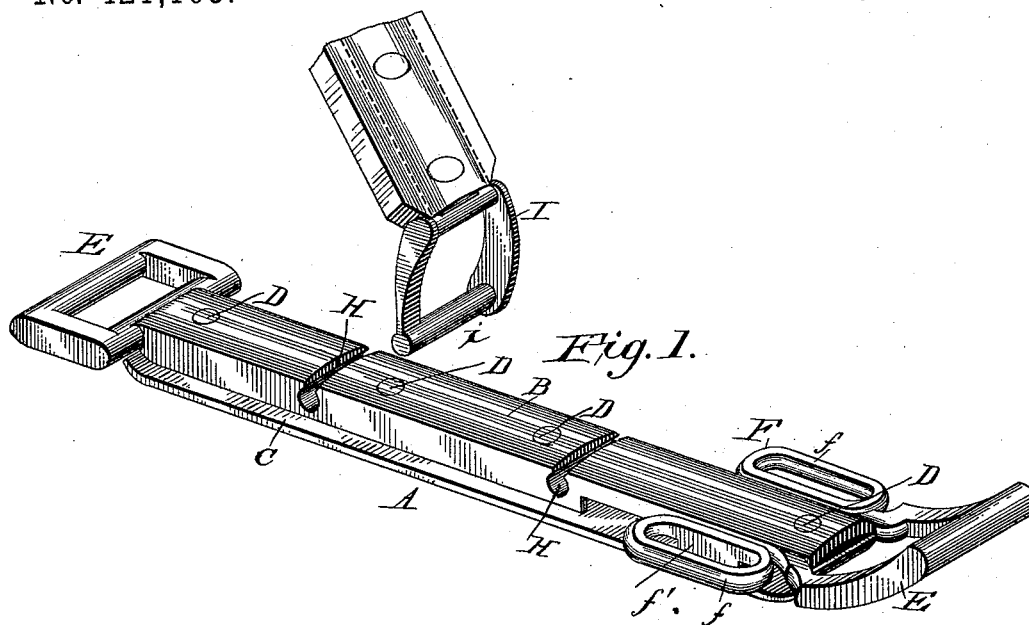
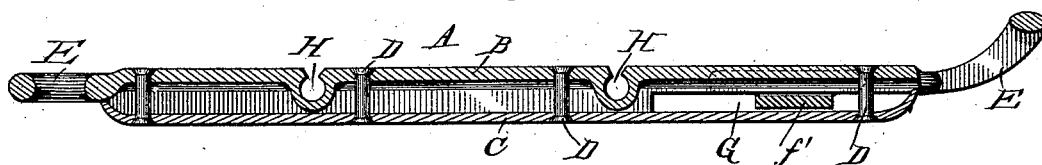


Fig. 2.



Witnesses:

Mr. Wallace  
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# UNITED STATES PATENT OFFICE.

JAMES D. MCANALLY, OF WATERLOO, INDIANA.

## HAME-TUG.

SPECIFICATION forming part of Letters Patent No. 421,105, dated February 11, 1890.

Application filed June 10, 1889. Serial No. 313,796. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES D. MCANALLY, of Waterloo, in the county of De Kalb and State of Indiana, have invented a new and useful Improvement in Hame-Tugs, of which the following is a specification.

The invention is an improvement in hame-tugs, seeking to provide a simple novel construction by which to obviate the use of trace-buckles and the consequent weakening of the parts to which they are applied; further, to provide a ready and convenient means of regulating the length of the tug and the self-adjustment of the hame-tug to the requirements of the team, the whole combining simplicity of construction and security of attachment and presenting a good appearance when in use.

The invention consists in novel constructions and combinations of parts, as will be hereinafter described and claimed.

In the drawings, Figure 1 is a perspective view, and Fig. 2 a longitudinal section, of my improvement.

In the construction as shown the hame-tug is formed with a body part A, having an outer section B and an inner section or guard-plate C, such plates or sections being rigidly connected, preferably through the aid of rivets D, as shown.

Loops E E are provided at the opposite ends of the body A, while between its ends I support the double loop F, formed with the loops proper *f* and the connecting portion *f'*, the latter being supported to slide longitudinally in the body A, so the double loop can adjust automatically back and forth, as may be desired. To this end I fit the portion *f'* in a slot G in the body A, making such slot preferably by cutting out a portion of the inner face of section B and covering such cut-out portion with the inner section or guard-plate C, as shown.

In the outer section B, I form vertical grooves or channels H, undercut, and pref-

erably rounded, as shown, and fitted to receive the rib *i* on the loop or portion I, attached to the trace. This rib *i*, as will be seen, is insertible endwise in the grooves or channels H, and will be held by the walls of such channels securely to the body A. It will also be seen that it may be conveniently adjusted from one to the other of grooves H to vary the length of the trace.

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

1. A hame-tug, substantially as described, comprising the inner plate, the outer plate secured rigidly to the inner plate and provided in its outer face with a number of undercut cross grooves or channels to receive the rib on the trace attachment, the tug having a way for the sliding loop, and the sliding double loop, all substantially as and for the purposes set forth.

2. An improved hame-tug formed with a body portion having a longitudinal slot and the double loop formed with the two loops proper, and the connecting portion extended between the same and held to slide in the slot of the body-piece, substantially as set forth.

3. The improved hame-tug herein described, consisting of the body having outer plate B, provided with undercut cross grooves or channels adapted to receive the rib on the trace attachment and having in its under side the cut-out portion, the inner plate secured rigidly to the outer plate and fitting over its cut-out portion, forming a longitudinal slot or way, and the double loop having a connecting portion arranged to slide in said slot or way, all substantially as and for the purpose set forth.

JAMES D. MCANALLY.

Witnesses:

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