

(No Model.)

E. M. CROSSAN & M. L. DEVERS.
HAME STAPLE AND TRACE TUG CLIP.

No. 421,558.

Patented Feb. 18, 1890.

Fig-1-

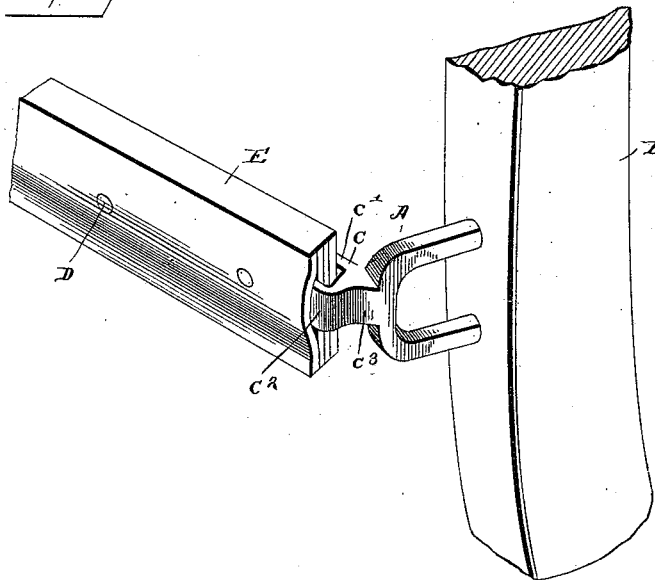


Fig-2-

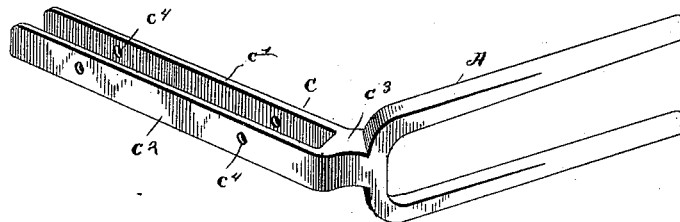
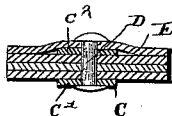


Fig-3-



Witnesses

Geo. C. French.

St. J. Riley

By their Attorneys,

Inventors

Ed. M. Crossan
Merritt L. Devers.

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

EDWIN M. CROSSAN AND MERRIT L. DEVERS, OF BETHANY, MISSOURI.

HAME-STAPLE AND TRACE-TUG CLIP.

SPECIFICATION forming part of Letters Patent No. 421,558, dated February 18, 1890.

Application filed October 18, 1889. Serial No. 327,475. (No model.)

To all whom it may concern:

Be it known that we, EDWIN M. CROSSAN and MERRIT L. DEVERS, citizens of the United States, residing at Bethany, in the county of Harrison and State of Missouri, have invented a new and useful Hame-Staple and Trace-Tug Clip, of which the following is a specification.

The invention relates to improvements in hame-staples and trace-tug clips.

10 The object of the present invention is to simplify, cheapen, and improve the construction of hame-staples and trace-tug clips and increase their durability.

15 The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended.

20 In the drawings, Figure 1 is a perspective view of a hame-staple and trace-tug clip constructed in accordance with this invention, showing it applied to a hame. Fig. 2 is a similar view of the hame-staple and trace-tug clip itself. Fig. 3 is a transverse sectional
25 view.

Referring to the accompanying drawings, A designates a hame-staple, which is secured to a hame B in the ordinary manner, and has formed integral with it a trace-tug clip C.
30 The trace-tug clip is composed of two metal plates or straps c' c^2 , arranged parallel with each other and connected by a neck c^3 to the hame-staple, with which it is formed integral. These plates or straps c' and c^2 , which are
35 formed integral with the staple A, are provided with perforations c^4 , which register with each other and are adapted to receive rivets or the like, which secure the straps or plates to the trace-tug E. The trace-tug is preferably secured in place by passing one of the
40 plates or straps between its layers, the other

plate or strap resting upon the outside of the tug and forming a base for swaging the ends of the rivets D. The parallel plates c' and c^2 are arranged at the desired angle to the staple and enable heavy loads to be drawn without strain. 45

From the foregoing it will readily be seen that hame-staples and trace-tug clips constructed in accordance with this invention are 50 simple and economic in construction, are adapted to be readily attached to a hame, and are capable of withstanding all the strains incident to their use; and we desire it to be understood that we do not limit ourselves to the 55 precise details of construction herein shown and described, as we may, without departing from the spirit of the invention, make various minor changes therein, such as applying the device to either wooden or iron hames, 60 using either one or two plates to form the trace-tug clip, and employing only one leg of the staple where great strength is unnecessary.

What we claim is— 65

1. A hame-staple and trace-tug clip formed integral with each other and consisting of the staple A and the parallel plates C, substantially as described.

2. A hame-staple having formed integral 70 therewith plates parallel with each other and arranged at an angle to the staple and provided with perforations, substantially as and for the purpose described.

In testimony that we claim the foregoing as 75 our own we have hereto affixed our signatures in presence of two witnesses.

ED. M. CROSSAN.
MERRIT L. DEVERS.

Witnesses:

MARTIN A. FORD,
G. W. SPENCER.