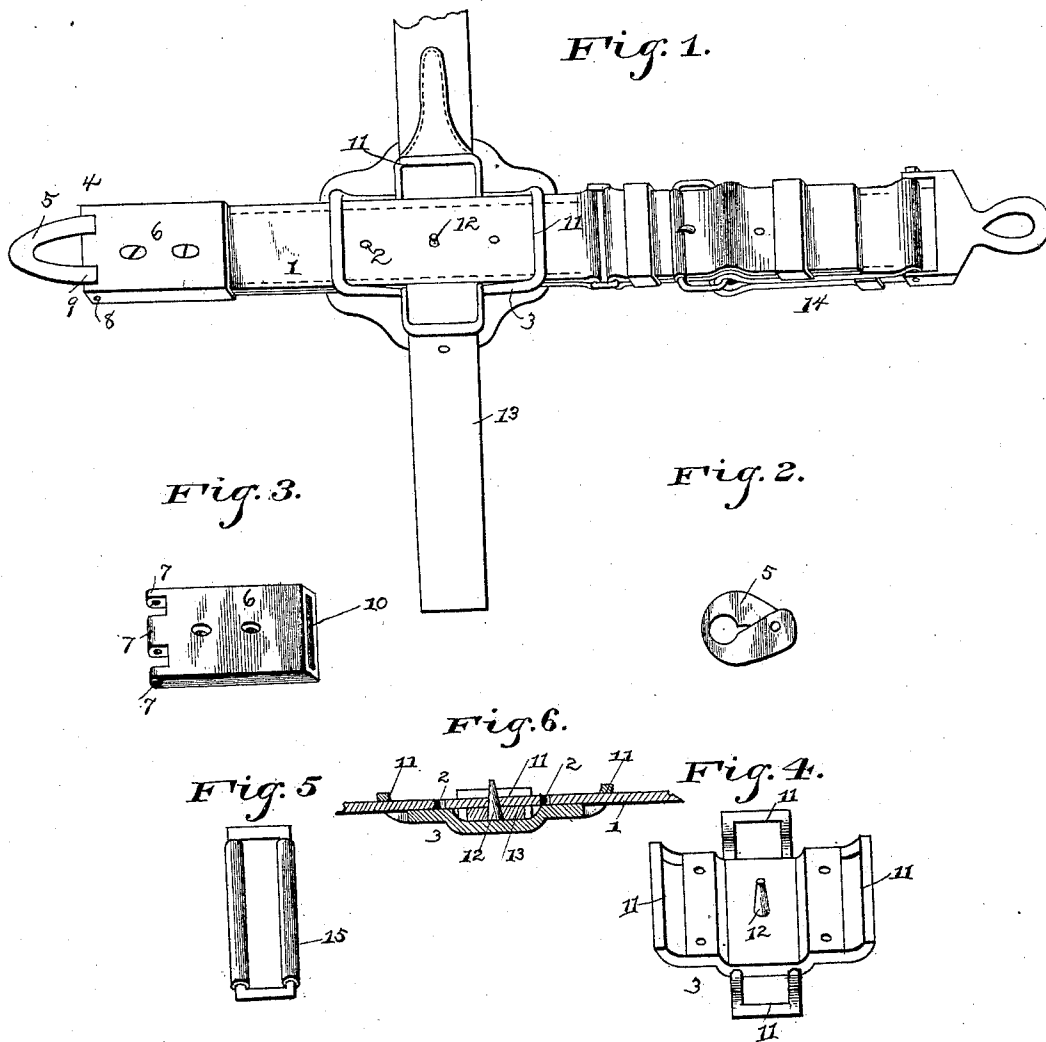


(No Model.)

J. W. ROBERTS.
HAME TUG.

No. 469,425.

Patented Feb. 23, 1892.



Witnesses

B. S. Ober.
J. H. Riley

Inventor
Joseph W. Roberts,

By his Attorneys,

C. A. Snow & Co.

UNITED STATES PATENT OFFICE.

JOSEPH W. ROBERTS, OF BASSETTVILLE, KANSAS.

HAME-TUG.

SPECIFICATION forming part of Letters Patent No. 469,425, dated February 23, 1892.

Application filed June 30, 1890. Serial No. 357,273. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH W. ROBERTS, a citizen of the United States, residing in Bas-
ssettville township, in the county of Decatur
5 and State of Kansas, have invented a new and useful Harness, of which the following is a specification.

The invention relates to improvements in trace-clips.

10 The object of the present invention is to simplify and improve the means for securing a trace to a hame and to provide a strong connection which will yield to the motion of an animal.

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 claim hereto appended.

20 In the drawings, Figure 1 is an elevation of a trace provided with a clip constructed in accordance with this invention. Figs. 2, 3, 4, and 5 are detail views. Fig. 6 is a detail sectional view.

25 Referring to the accompanying drawings, 1 designates a trace provided with a series of perforations 2 and is adjustably secured to a buckle 3 and is designed to be connected by a clip 4 with a hame. The clip 4 consists
30 of a hinged eye 5 and a socket 6, to which the eye is hinged and which is rectangular and is provided with perforated lugs 7, adapted for the reception of a pintle 8, and receiving
35 between them the perforated ends 9 of the eye 5. The eye 5 is twisted and its ends 9 are enlarged and are arranged opposite each other. The socket has an opening 10 to receive the forward end of the trace 1, which

is secured therein by screws. The buckle 3 is provided with four loops 11 and a central
40 tongue 12, and the loops are arranged in the form of a square and provide two ways, one for the trace and the other for a billet-strap 13. The trace and the strap cross each other, and they are adapted to be adjusted. The
45 buckle 3 has a sunken or depressed portion to receive the strap 13, so that the latter may be adjusted without wearing the trace.

The trace is provided with a section 14, having a buckle to increase and diminish the
50 length of the trace, and provided at one end with a cockeye and at the other end with a loop 15, which flexibly connects the sections of the trace.

What I claim is—

55 In a hame-tug, the combination of a trace-clip comprising a rectangular socket having a longitudinal opening to receive a trace and provided with perforated lugs arranged at one end and disposed at each side and at an
60 intermediate point and adapted to receive a pintle, the eye having its end twisted and arranged on the recesses formed by said lugs and enlarged and perforated and hinged to
65 said lugs, and a buckle provided with four loops 11 and having two ways arranged at right angles to each other, one of said ways being sunken or depressed and the other way being formed by elevated portions, whereby
70 one strap is held out of frictional contact with the other and is prevented wearing the same, substantially as described.

J. W. ROBERTS.

Witnesses:

GEO. F. HODGE,
W. E. MILLER.