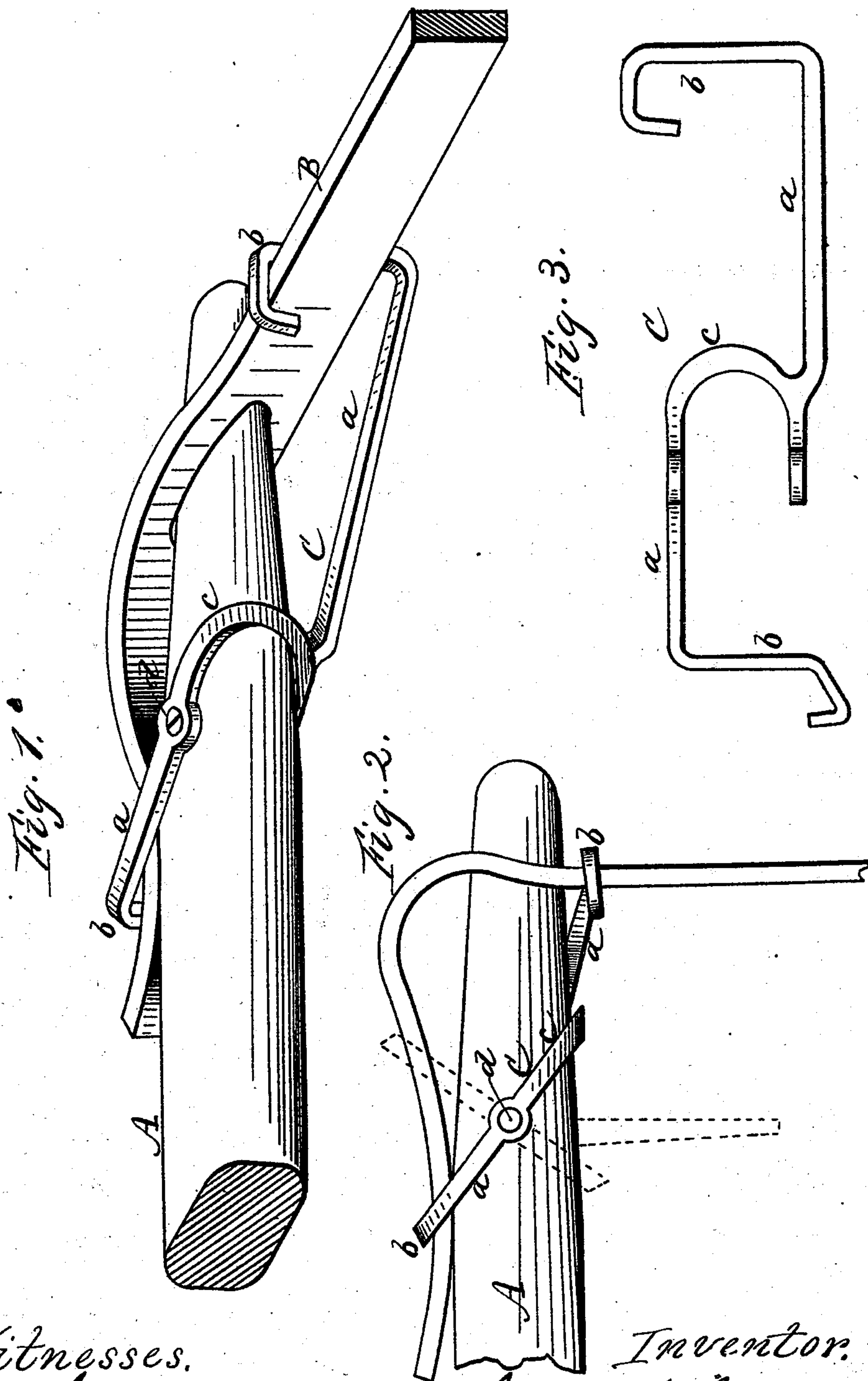


(No Model.)

G. C. EDMUNDS.
WHIFFLETREE HOOK.

No. 501,002.

Patented July 4, 1893.



Witnesses.
F. B. Hutchinson
R. H. Cortish

Inventor.
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Atty

UNITED STATES PATENT OFFICE.

GEORGE C. EDMUNDS, OF ROCHESTER, ASSIGNOR OF ONE-HALF TO FRANK
G. RAMSDALL, OF MACEDON CENTRE, NEW YORK.

WHIFFLETREE-HOOK.

SPECIFICATION forming part of Letters Patent No. 501,002, dated July 4, 1893.

Application filed October 19, 1892. Serial No. 449,351. (No model.)

To all whom it may concern:

Be it known that I, GEORGE C. EDMUNDS, of Rochester, in the county of Monroe and State of New York, have invented a certain new and
5 useful Improvement in Tug-Holders for Harness; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the drawings accompanying this specification.

10 My improvement relates to that class of tug holders in which a lever is used on the end of the whiffletree to prevent the tug from slipping off from the same.

It relates more particularly to that class
15 where the lever is double-armed, one arm holding the tug in place as above stated, and the other receiving and holding the loose end or bight of the tug where the latter projects back from the point of fastening. Devices of
20 this kind are known, consisting of a double-arm with closed loops at the ends through which the tug has to be entered endwise, but are inconvenient in use and objectionable for the reason above stated.

25 My invention consists of a lever made in a single length with open reverse hooks at the opposite ends in which the tug can be inserted sidewise by twisting the same, and provided with a central loop which embraces the whiffletree, forming the pivoted bearing to the
30 same, also a gage which limits the movements in opening and closing.

In the drawings Figure 1 is a perspective view of one end of a whiffletree showing my
35 improvement attached. Fig. 2 is a plan view exhibiting in full and dotted lines the position of the lever when fully opened and closed. Fig. 3 is a side view of the lever.

A indicates the whiffletree and B the tug.
40 The tug is slipped over the end of the whiffletree in the usual manner.

C is the lever for holding the tug in place. It consists of two single arms *a a* with open reverse hooks *b b* at the ends, and a central
45 open loop *c* which embraces the whiffletree, and is pivoted thereto by screws *d d*, so that the lever can turn. The two arms *a a* are in planes at such distance from each other that

one rides below and the other above the whiffletree, and the hooks also point in opposite
50 directions, that at the outer end extending upward and that at the inner end extending downward as shown.

To attach the tug in place it is twisted a half turn to be entered bodily in the outer
55 hook, is then inserted over the end of the whiffletree, and the projecting bight or end is then half twisted in a similar way to insert it in the inner hook. The strain on the tug causes the lever to turn and bind the trace in
60 place at both points of attachment.

The loop *c* not only serves as a bearing by which the lever is pivoted to the whiffletree, but also as a gage to limit the swing of the lever. It stands in an inclined position, ap-
65 proximately in line with the lever itself. In the closing movement to fasten the tug in place the loop strikes the face of the whiffletree and prevents the hook from closing clear up, while in the opening movement the loop
70 strikes in the opposite position and holds the lever half way open. These two positions are indicated by the full and dotted lines in Fig. 2.

Having described my invention I do not claim broadly a clamp for holding the trace
75 and its loose end or bight; nor do I claim in this application a lever provided with an angular gage for limiting its movement, such as shown in my pending application filed February 12, 1892, Serial No. 421,266.
80

What I claim as new, and desire to secure by Letters Patent, is—

The trace holder comprising the lever C consisting of the arms *a a* standing in different planes, the open reverse hooks *b b* at the
85 ends of said arms, and the central oblique loop *c* forming the pivot bearing and a gage to limit the swing of the lever in opposite directions, as herein shown and described.

In witness whereof I have hereunto signed
90 my name in the presence of two subscribing witnesses.

G. C. EDMUNDS.

Witnesses:

R. F. OSGOOD,

CHAS. A. WIDENER.