

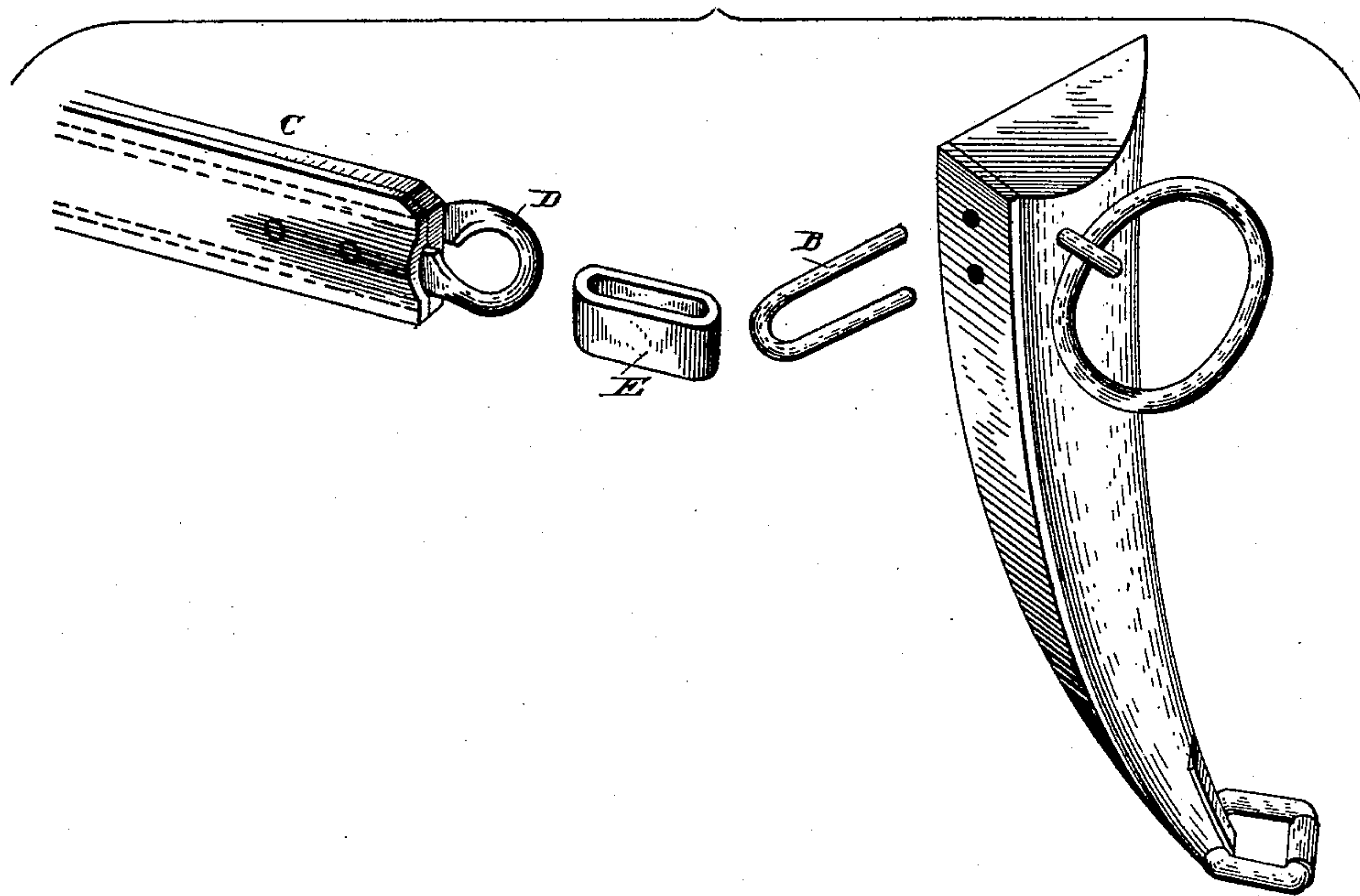
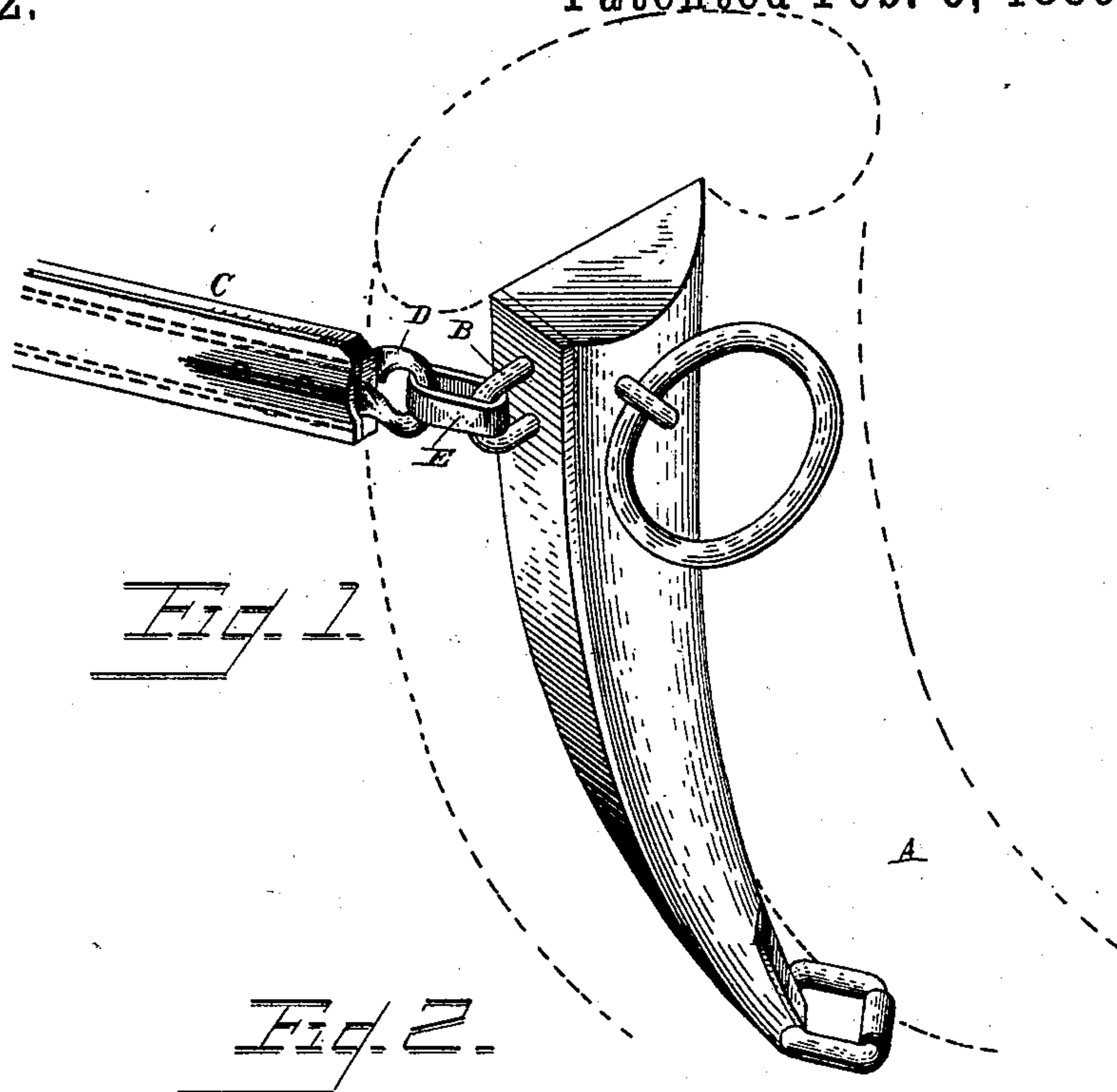
(No Model.)

J. GRAY.

HAME AND TUG COUPLING.

No. 397,182.

Patented Feb. 5, 1889.



WITNESSES

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HAME AND TUG COUPLING.

SPECIFICATION forming part of Letters Patent No. 397,182, dated February 5, 1889.

Application filed August 22, 1888. Serial No. 283,411. (No model.)

To all whom it may concern:

Be it known that I, JOHN GRAY, of Jefferson, in the county of Greene and State of Iowa, have invented certain new and useful
5 Improvements in Harness; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use the same.

10 My invention relates to harness, and more particularly to devices for connecting the hame with the trace of a harness.

The object of my invention is to provide a device as above described that will be simple
15 in its construction, inexpensive, and durable.

A further object of my invention is to provide a device of this character that will reduce the wear between the parts, thus making it more durable, and also one that will adjust
20 itself to all sizes of collars.

The invention consists in the combination, with a hame and hame-tug, of a draft-link connecting said hame and hame-tug.

25 The invention further consists in the combination, with a hame and hame-staple, of a draft-link connecting said hame-staple with the hame-tug.

30 The invention still further consists in the details of construction and combinations of parts hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a perspective view embodying my invention, and Fig. 2 is a view of the parts detached.

35 A represents a section of a collar. The collar may be of any ordinary size, as one of the objects of my invention is to provide a device whereby the draft parts of the harness are self-adjusting to any size of collar.

40 B represents a hame-staple, arranged upon the hame in the usual manner.

C is a hame-tug provided on its forward end with a hame-clip, D.

45 E represents an elongated draft-link, which connects the hame-staple B with the hame-clip D, secured to the hame-tug C.

It will be seen from the foregoing description that one of the great objections to the hame clip and staple is overcome by the use of the draft-link E. It is a well-known fact

that the repairing of hame clips and staples 50 is the most common item in establishments where this work is carried on, and also it is known that under the existing mode several sets of hame clips and staples are needed to last as long as one set of harness. I remedy 55 this defect by the use of the draft-link E, which forms a double joint between the hame clip and staple, and consequently causes less friction and the parts are not worn so fast. 60

Another advantage of my invention is the adjustability of the parts, thus enabling them to be attached to any description of collar, and also the draft will be in a straight line and thus avoid the breaking of the hame- 65 tug at its connection with the clip, which is a very common occurrence.

A further feature of my invention lies in the construction and arrangement of the hame-clip D. Ordinarily a hame-clip is secured at its ends to the sides of the hame-tug 70 and projects forwardly in a straight line, and will consequently be longitudinally at right angles to the hame-staple, so that they may be connected together; but to so adapt my 75 device that the hame-tug will be in the same position I have twisted the eye of the hame-clip D around at right angles. It will thus be seen that as the hame staple and clip are in the same vertical line, and the hame-link 80 at right angles to both, an easy and durable joint will be made.

85 Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

The combination, with the hame-staple and with the tug-clip twisted at right angles, as set forth, of an elongated draft-link interposed between the staple and clip to insure a direct draft, and a flexible double-jointed connection. 90

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

JOHN GRAY.

Witnesses:

OWEN LOVEJOY,
E. S. CROCKER.