

A. L. SADDLEMIRE.  
HAME TUG.  
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960,114.

Patented May 31, 1910.

Fig. 1

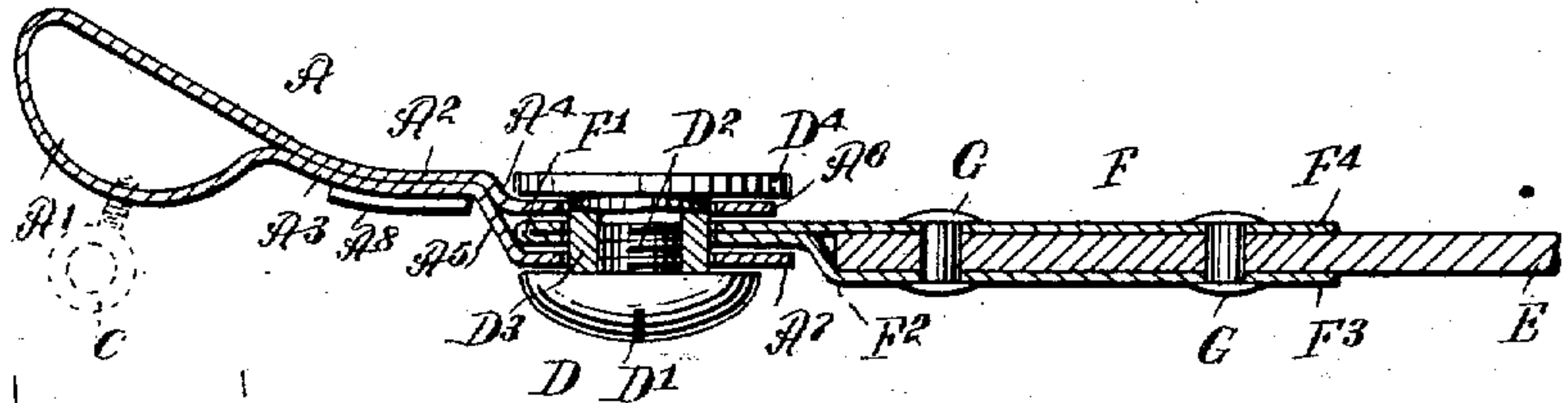
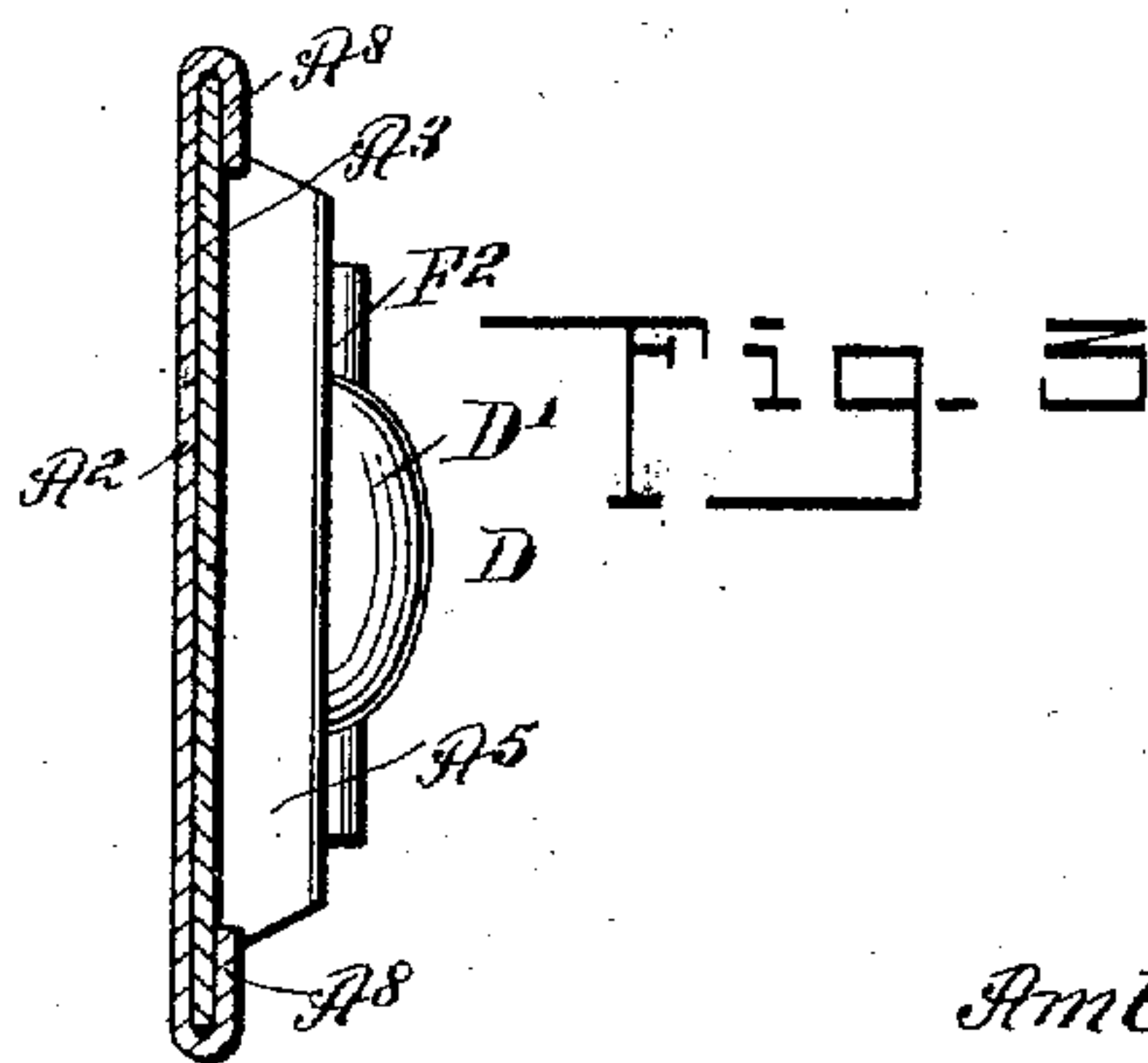
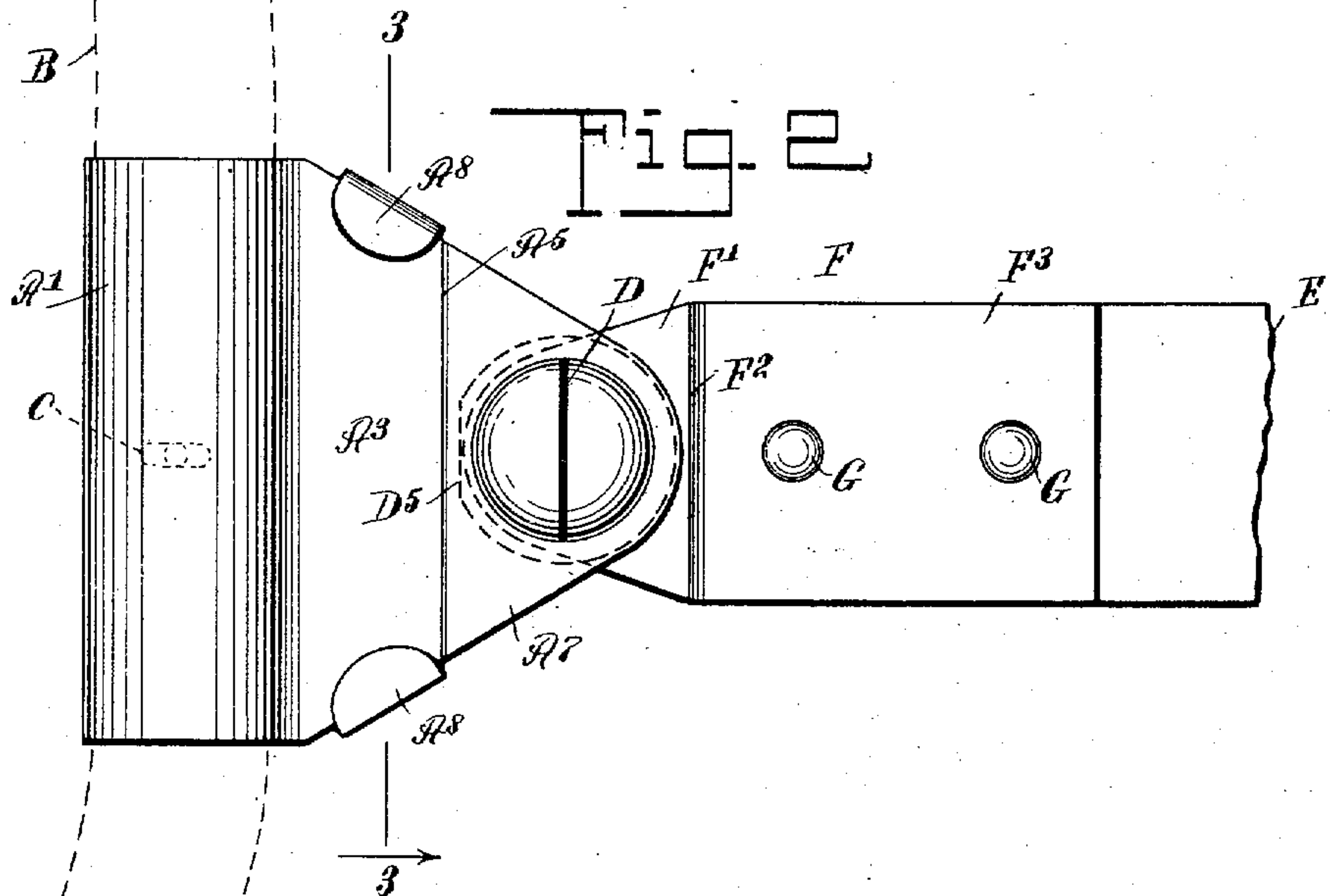


Fig. 2



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# UNITED STATES PATENT OFFICE.

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HAME-TUG.

960,114.

Specification of Letters Patent.

Patented May 31, 1910.

Application filed August 12, 1909. Serial No. 512,545.

*To all whom it may concern:*

Be it known that I, AMBROSE L. SADDLEMIRE, a citizen of the United States, and a resident of Knox, in the county of Albany and State of New York, have invented a new and Improved Hame-Tug, of which the following is a full, clear, and exact description.

The invention relates to harnesses, and its object is to provide a new and improved hame tug arranged to insure a straight pull on the hame sticks and without danger of cutting or otherwise injuring the collar.

For the purpose mentioned a metallic clip engages the hame stick and is provided with a transversely extending pivot on which is mounted to swing a metallic end piece of the trace.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a sectional plan view of the hame tug; Fig. 2 is a side elevation of the same; and Fig. 3 is a transverse section of the same, on the line 3—3 of Fig. 2.

The metallic clip A of the hame tug is preferably made from a single piece of sheet metal bent to form an eye A', doubled up members A<sup>2</sup>, A<sup>3</sup>, offsets A<sup>4</sup>, A<sup>5</sup>, spaced flanges A<sup>6</sup>, A<sup>7</sup>, and lugs A<sup>8</sup> extending integrally from the doubled up member A<sup>2</sup> and bent over onto the front of the other member A<sup>3</sup> to securely fasten the members A<sup>2</sup> and A<sup>3</sup> together. The eye A' of the metallic clip A engages the hame stick B and is secured thereon by an eye-bolt C to which the pole chain is attached.

By the arrangement described the metallic clip A can be moved up or down on the hame stick B to the proper position to be then fastened in place by the eye-bolt C.

The flanges A<sup>6</sup>, A<sup>7</sup> are apertured for the passage of a pivot D, preferably made in two parts, of which the front part consists of a head D<sup>1</sup> and an externally threaded shank D<sup>2</sup>, and the rear part consists of an internally threaded shank D<sup>3</sup> and a head D<sup>4</sup>, the shank D<sup>2</sup> screwing in the shank D<sup>3</sup> and the latter fitting the apertures in the spaced flanges A<sup>6</sup>, A<sup>7</sup>. The head D<sup>4</sup> of the rear pivot member is flush with the doubled up member A<sup>2</sup> and this head D<sup>4</sup> is provided with a straight portion D<sup>5</sup> abutting against

the offset A<sup>4</sup> to hold the pivot D against turning.

The trace E of leather or other suitable material is provided with a metallic end piece F preferably made of sheet metal and fastened to the trace by rivets G or other fastening means. The piece of sheet metal for forming the end piece F is doubled up to form the doubled up terminal F' having an aperture for the passage of the shank D<sup>3</sup> of the pivot D, the said doubled up portion F' extending between the flanges A<sup>6</sup> and A<sup>7</sup> of the clip A, as plainly indicated in Fig. 1. The front part of the doubled up portion F' of the end piece F terminates in an offset F<sup>2</sup> from which extends the terminal F<sup>3</sup> fitting onto the front face of the trace E, the rear face of which is engaged by the terminal F<sup>4</sup> of the rear member of the doubled up portion F'. The terminals F<sup>3</sup> and F<sup>4</sup> are fastened in place on the trace E by the rivets G, or other fastening means, so that the end piece F is securely held in place on the trace E.

By the arrangement described the trace E has a pivotal connection with the clip A to allow an up and down swinging motion of the connected parts, thus insuring at all times a straight pull on the hame stick B.

By reference to Fig. 1, it will be noticed that the inner face of the clip A is curved to properly fit the animal's collar and the head D<sup>4</sup> is flush with the said inner face of the clip to prevent cutting into the collar, especially as the pivot D is held against turning.

The hame tug shown and described is very simple and durable in construction and the parts can be readily connected with each other and the clip A can be adjusted up or down on the hame stick B to suit existing conditions.

It will be observed that the improved tug consists of a sheet of metal doubled upon itself to form an eye for encircling the hame, the ends of the sheet being offset outwardly from the inner face of the clip and spaced apart from each other, with the trace end inserted between the said spaced ends, and a pivot consisting of inter-engaged sections, each section consisting of a stem and a head, the stem of the inner section being externally threaded, the stem of the outer section being internally threaded and engaging the first named stem, the



head of the inner section being flat and flush with the inner face of the clip.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. A hame tug comprising a clip made of a single piece of sheet metal bent to form doubled up members and an eye for engagement with the hame stick, one of the doubled up members having lugs bent onto the other member to fasten the members together, the ends of the doubled up members having outward offsets terminating in spaced flanges, a pivot extending transversely through the said flanges, an end piece on the trace and formed of a single piece of sheet metal bent to form spaced ends, and a doubled up portion extending between the said flanges and engaging the said pivot, the said spaced ends receiving the trace terminal between them, and rivets for connecting the trace ends and the spaced ends.

2. A hame tug comprising a clip doubled upon itself to form an eye for encircling the hame, the ends of the clip being offset outwardly from the inner face of the clip and spaced apart from each other and transversely perforated, the end piece for the trace extending between the spaced ends and being transversely perforated, said perforation registering with the perforations of the clip, and a pivot passing through the registering perforations, said pivot comprising a plurality of sections, each consisting of a

head and a stem, the stem of the inner section being externally threaded and the stem of the outer section being internally threaded for engaging the first named stem, the inner section having a flat head whose face is flush with the inner face of the clip.

3. A hame tug comprising a clip doubled upon itself to form an eye for encircling the hame, the ends of the clip being offset outwardly from the plane of the clip and spaced apart from each other, an end piece for the trace arranged between the spaced ends of the clip, and a pivot traversing the said spaced ends and the trace end, said pivot comprising interengaging sections, the inner section having a flat head whose face is flush with the inner face of the clip.

4. A hame tug comprising a clip doubled upon itself to form an eye for encircling the hame, the ends of the clip being offset outwardly from the plane of the clip and spaced apart from each other, an end piece for the trace arranged between the spaced ends of the clip, and a pivot traversing the said spaced ends and the trace end, said pivot having a flat head at the inner end whose face is flush with the inner face of the clip.

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

AMBROSE L. SADDLEMIRE.

Witnesses:

WILLIAM H. TOMPKINS,  
ELLERY W. DEITZ.