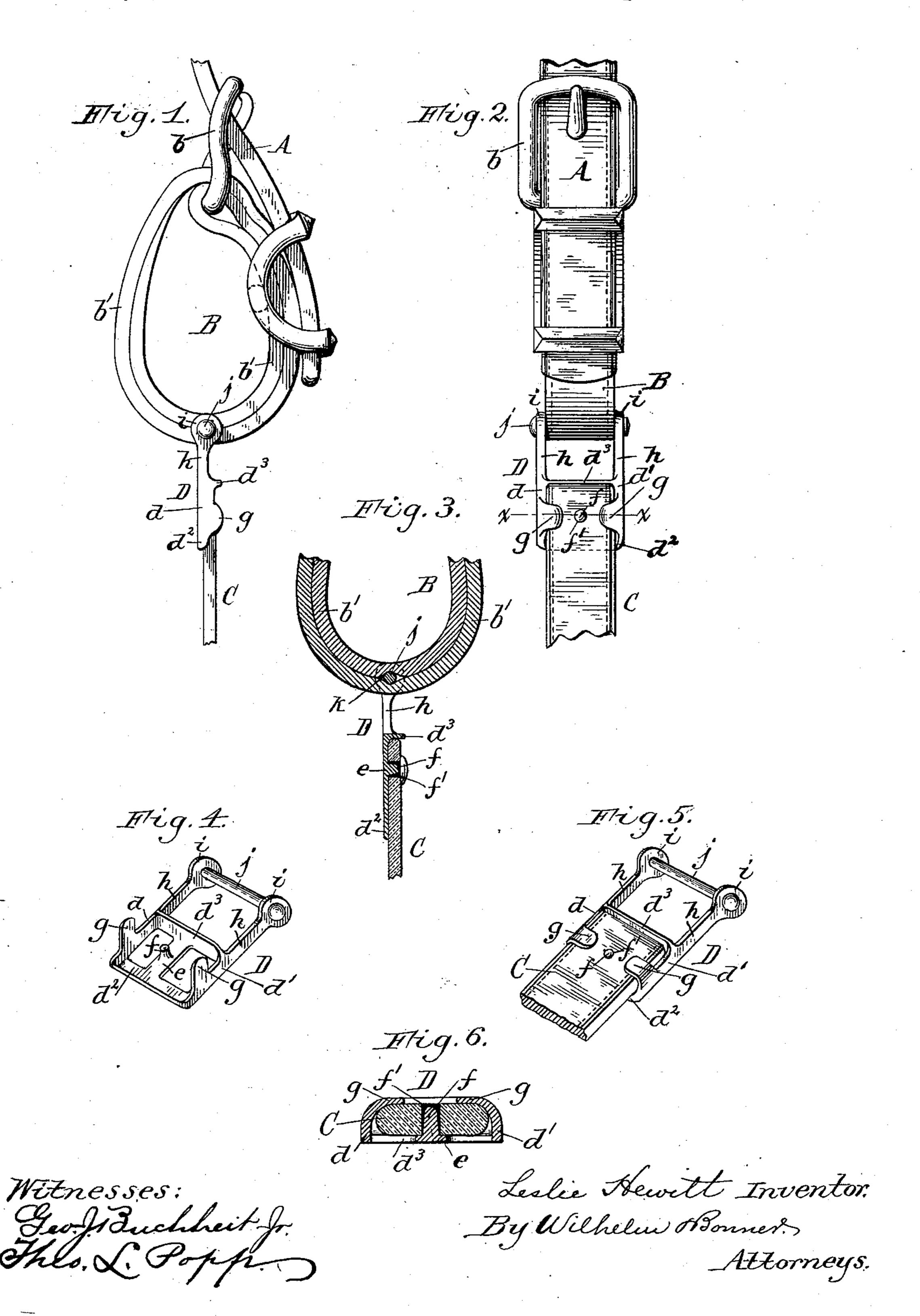
L. HEWITT.

HARNESS ATTACHMENT.

No. 389,471.

Patented Sept. 11, 1888.



United States Patent Office.

LESLIE HEWITT, OF BUFFALO, NEW YORK, ASSIGNOR OF ONE-HALF TO PRATT & LETCHWORTH, OF SAME PLACE.

HARNESS ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 389,471, dated September 11, 1888.

Application filed May 14, 1888. Serial No. 273,776. (No model.)

To all whom it may concern:

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Be it known that I, Leslie Hewitt, of Buffalo, in the county of Erie and State of New York, have invented new and useful Improvements in Harness-Couplings, of which the following is a specification.

This invention relates to a harness-coupling which is more particularly designed for connecting the ends of the belly-band to the thill10 loops, which are supported by the side straps attached to the saddle.

The object of my invention is to produce a simple and inexpensive coupling which can be attached to the belly-band and thill-loop without sewing; and the invention consists of the improvements which will be hereinafter fully set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation of a thill-loop provided with my improved coupling. Fig. 2 is a front view thereof. Fig. 3 is a longitudinal section of a coupling and a portion of the thill-loop and belly-band billet. Fig. 4 is a perspective view of the coupling detached. Fig. 5 is a similar view with the belly-band billet attached to the coupling. Fig. 6 is a cross-section of the coupling in line x x, Fig. 2, on an enlarged scale.

Like letters of reference refer to like parts in the several figures.

A represents the strap attached to the saddle, and B is the thill-loop, which is attached to the lower portion of the strap A by a buckle, b, or in any other suitable manner. The thillloop B is constructed of two or more layers of leather, b', in the usual manner.

C represents the belly-band billet, and D is the coupling whereby the billet C is attached to the thill-loop B. The coupling D consists of a rectangular frame composed of side bars, 40 dd', and connecting-bars d^2d^3 .

e represents a cross-bar connecting the bars $d^2 d^3$ and arranged midway between the side bars, d d'.

f is a projecting stud or tongue formed on or secured to the front side of the cross-bar e and adapted to enter a hole, f', formed near the end of the billet C. The side bars, d d', and bar d³ are raised above the end bar, d², and the intermediate cross-bar, e, so as to form to a rectangular depressed seat, in which the end

of the billet is confined, as represented in Figs. 4 and 5.

g g represent inwardly-projecting lips or ears formed on the side bars, d d, about in line with the tongue f and overlapping the lateral 55 or longitudinal edges of the billet, so as to confine the latter in its seat and prevent the same from becoming disengaged from the tongue f.

The lips or ears g g are cast upon the side 60 bars, d d', in an upright position, or nearly so, as shown in Fig. 4. The belly-band billet is attached to the coupling by engaging its opening over the tongue f and then bending or clinching the lips g g inwardly against the 65 outer face of the billet, as clearly shown in Figs. 2, 5, and 6.

The opening f' in the billet C is so arranged that the end of the billet will abut against the intermediate bar, d^3 , when the billet is at 70 tached to the coupling.

h h represent two parallel arms or extensions formed with the side bars, d d', and forming continuations of the latter. The extensions h h are provided at their upper ends with per- 75 forated ears or enlargements ii, through which passes a transverse pin or rivet, j, which latter is inserted into the space or opening k between the layers of leather constituting the thill-loop. In attaching the coupling to the 80 thill-loop the rivet j is removed from the coupling, and the arms or extensions hh are placed on opposite sides of the lower portion of the thill-loop with their perforations in line with the opening between the layers of the loop. 85 The rivet j is then passed through the perforated ears of the arms hh, and the opening between the layers of the loop and the rivet is headed, so as to hold the same in place in the coupling. In this manner the coupling is 90 readily attached to the thill-loop and bellyband without sewing. This construction permits the thill-loop to be made complete before attaching the coupling thereto, and thus avoids the inconvenience experienced by em- 95 ploying an ordinary coupling-loop formed in one piece, and which must be attached to the thill-loop before the leather layers of the latter are sewed together.

It is obvious that the cross-bar e, which car- 100

ries the tongue f, may be constructed in the form of a base plate, which closes the entire bottom of the rectangular frame of the coupling.

5 I claim as my invention—

1. A harness-coupling consisting of a rect-angular frame composed of end bars and side bars having inwardly projecting lips g, a base-plate or cross-bar, e, a stud or tongue, f, to arranged on said base plate or cross-bar, and arms hh, connected by a pin or cross bar, substantially as set forth.

2. A harness-coupling consisting of a rectangular frame having raised side bars, d d', 15 provided with inwardly-projecting lips g, a 1888. depressed end bar, d^2 , and a raised intermediate bar, d^3 , a depressed cross-bar, e, a project- $\textbf{ing stud or tongue}, f, \textbf{formed one said cross-} \texttt{inder} \texttt{i$ and the control passing through said perforated enlargements, the Chester D. Howe.

3. The combination, with a thill-loop and belly-band billet, of a coupling composed of a rectangular frame having end bars and side 25 bars provided with inwardly-projecting lips g, overlapping the edges of the billet, a base plate or bar, e, having a projecting tongue, f, entering an opening formed in the billet. arms or extensions h, formed in said side bars 30 and provided with perforations, and a transverse pin or rivet passing through said perforations and arranged between the layers of leather forming the thill-loop, substantially as set forth.

Witness my hand this 30th day of April,