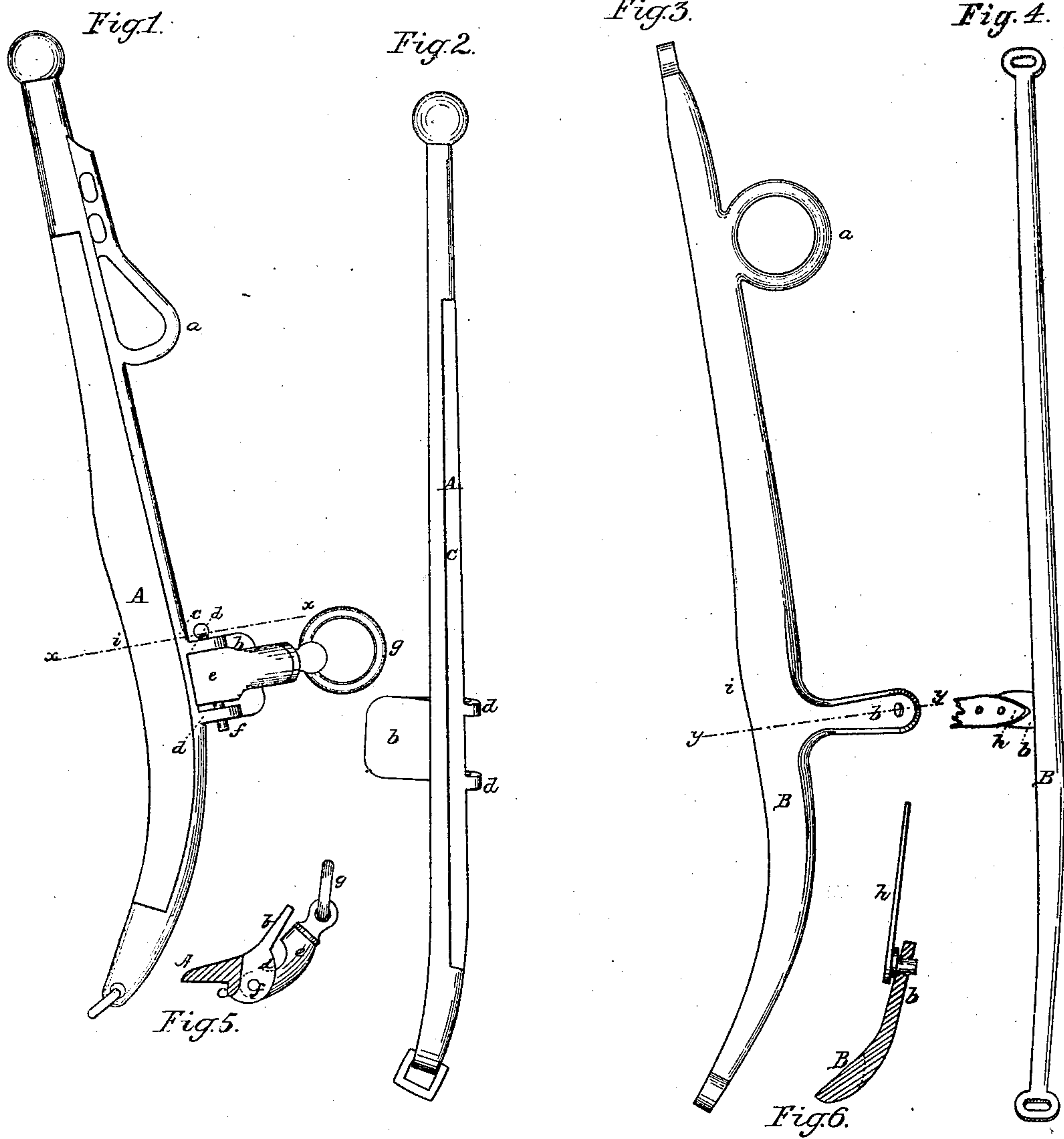


W. H. Bustin.
Harness Hames.

N^o 89,288.

Patented Apr. 27, 1869.



Witnesses:
Henry B. Dwyer
H. W. Dwyer

Inventor:
Wm. H. Bustin
By A. Cranford attorney



WILLIAM H. BUSTIN, OF WATERTOWN, MASSACHUSETTS.

Letters Patent No. 89,288, dated April 27, 1869.

IMPROVEMENT IN HAMES FOR HARNESS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern :

Be it known that I, WILLIAM H. BUSTIN, of Watertown, in the county of Middlesex, and State of Massachusetts, have invented a new and useful Improvement in the Construction of Hames 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 annexed drawings, making a part of this specification, in which—

Figure 1 is a front or face view of one part of a pair of draught hames;

Figure 2 is an edge or side view of same;

Figure 3 is a front view of one part of a pair of carriage hames;

Figure 4 is an edge view of same; and

Figures 5 and 6 are transverse sections of the hames *x x y y*, figs. 1 and 3, showing the plane of section.

Similar letters of reference indicate corresponding parts in the several figures.

My invention consists in constructing hames wholly of metal, or part metal and part wood, with a projecting plate, having eyes for attaching the clip or tug, by means of a bolt.

To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

The hames are constructed of iron, or part iron and part wood, and have the usual loops *a*, at their upper parts, and also projections *b*, at their lower parts, to which the traces are attached.

A, figs. 1 and 2, represents one part or half of a pair of draught-hames. These hames have a flanch, *c*, upon them on their outer edges, said flanches projecting at a right angle from the bodies of the hames.

The hames A have eyes, *d d*, attached to them at the junctions of the projections *b* with the flanches *c*, and the hames and links *e* are secured between these eyes by a pin, *f*, the outer ends of the links having rings *g* attached to them, the traces being secured to these rings, or if tug-straps are used, they may be attached directly to pin, or bolt *f*.

The projections *b* prevent the collar from being worn, as the links of a trace-chain or a tug-strap cannot come in contact with it, thus protecting the collar from wear by the traces or tug, and serving a valuable purpose.

Figs. 3, 4, and 5, show the ordinary way of attaching traces or tugs to a hames, without my protecting-plate *b*, which may be cast with the hames, or it may be attached otherwise, in any secure manner.

Having thus described my invention,

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

The hames A, constructed with flange *c* and projecting-plate *b*, and eyes *d*, in the manner and for the purpose specified.

W. H. BUSTIN.

Witnesses:

W. H. BUSTIN, Jr.,
JAMES T. BUSTIN.