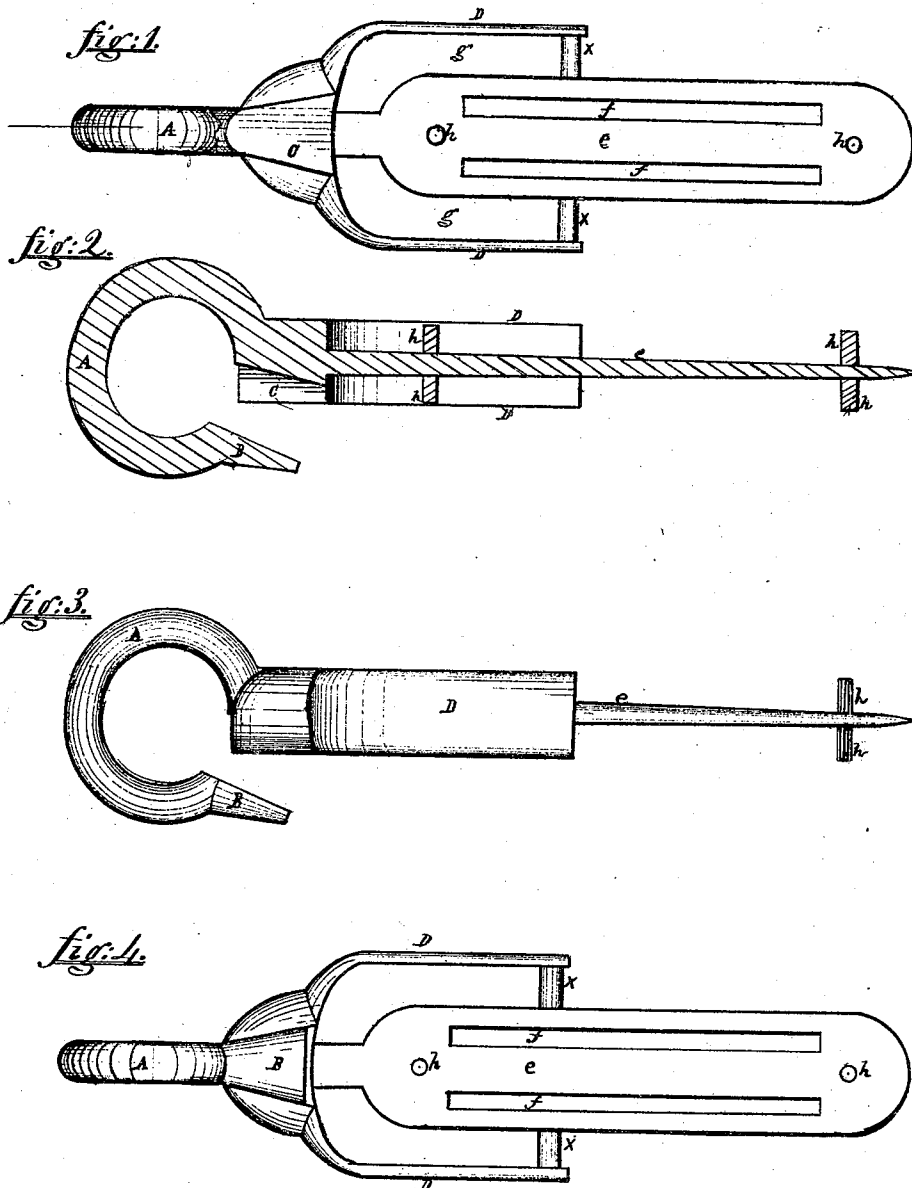


W. H. Morgan,

Hook.

No. 107,086.

Patented Sept. 6. 1870.



Witnesses:
A. C. Johnston
J. J. Johnston, Jr.

Inventor:
William H. Morgan
By his attorney J. J. Johnston

United States Patent Office.

WILLIAM H. MORGAN, OF ALLIANCE, OHIO, ASSIGNOR TO HIMSELF AND
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Letters Patent No. 107,086, dated September 6, 1870.

IMPROVED TRACE-HOOK AND CLIP 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. MORGAN, of Alliance, in the county of Stark and State of Ohio, have invented a new and useful Improvement in Hame-Clip; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to letters of reference marked thereon.

The nature of my invention consists in a new article of manufacture, viz., a hame-clip, constructed as hereinafter described.

To enable others skilled in the art to make and use my new article of manufacture, I will proceed to describe more fully its construction.

In the accompanying drawing, which forms part of my specification—

Figure 1 is a side view of my new article of manufacture, representing the dovetail portion of the clip or hook, broken away for the purpose of showing the dovetail recess for the dovetail of the clip or hook.

Figure 2 is a longitudinal section of the hame-clip and trace-hook, when cut through at line *y* of figs. 1 and 4.

Figure 3 is an edge view of the hame-clip prior to closing the dovetail portion of the clip or hook into its dovetail recess.

Figure 4 is a side view of the hame-clip, with the dovetail portion of the clip or hook forced into its recess.

In the accompanying drawing—

A represents the clip or hook, and

B, the dovetail portion of it.

C represents the recess for the dovetail B.

D represents a shield or guard, which is used for protecting the end and a portion of the edge of the harness-trace.

z are braces for the shield or guard D.

The tongue *e* of the hame-clip is provided with projections *h*, which answer the purpose of rivets.

f and *g* are openings which are used for the purpose of allowing the hame-clip to be sewed in between the two strips of leather which forms the hame or harness-trace.

The projections or rivets *h* are also used for securing the hame-clip in and to the hame or harness-trace, by the riveting process, which is well understood by harness-makers.

The hereinbefore described hame-clip is cast of "malleable iron," (cast-iron annealed,) and it may be enameled, tinned, or plated, for the purpose of giving it a fine finish.

When the hame-clip is used for a trace-hook, it is in the form shown in figs. 2 and 3; but when it is used as a hame clip, the hook is hooked in the ring or link on the hames, and the dovetail B is forced with a hammer or by other means into the recess C. It may also be used in this last-named condition as a trace-link for connecting the harness trace to the "whiffletree" of a vehicle.

The advantage of my improvement consists in guarding or shielding the ends and a portion of the edges of the hame or harness-trace, and in so constructing the hame-clip that it can, with ease and facility, be both secured and riveted to the trace, and also in adding strength and durability to the trace.

Having thus described the nature, construction, and advantages of my new article of manufacture,

What I claim as of my invention is—

The hame-clip, consisting of hook A, provided with a dovetail, B, recess C, shield D, tongue *e*, openings *f* and *g*, the whole being constructed and arranged as herein described, and for the purpose set forth.

W. H. MORGAN.

Witnesses:

JAMES J. JOHNSTON,
A. C. JOHNSTON.