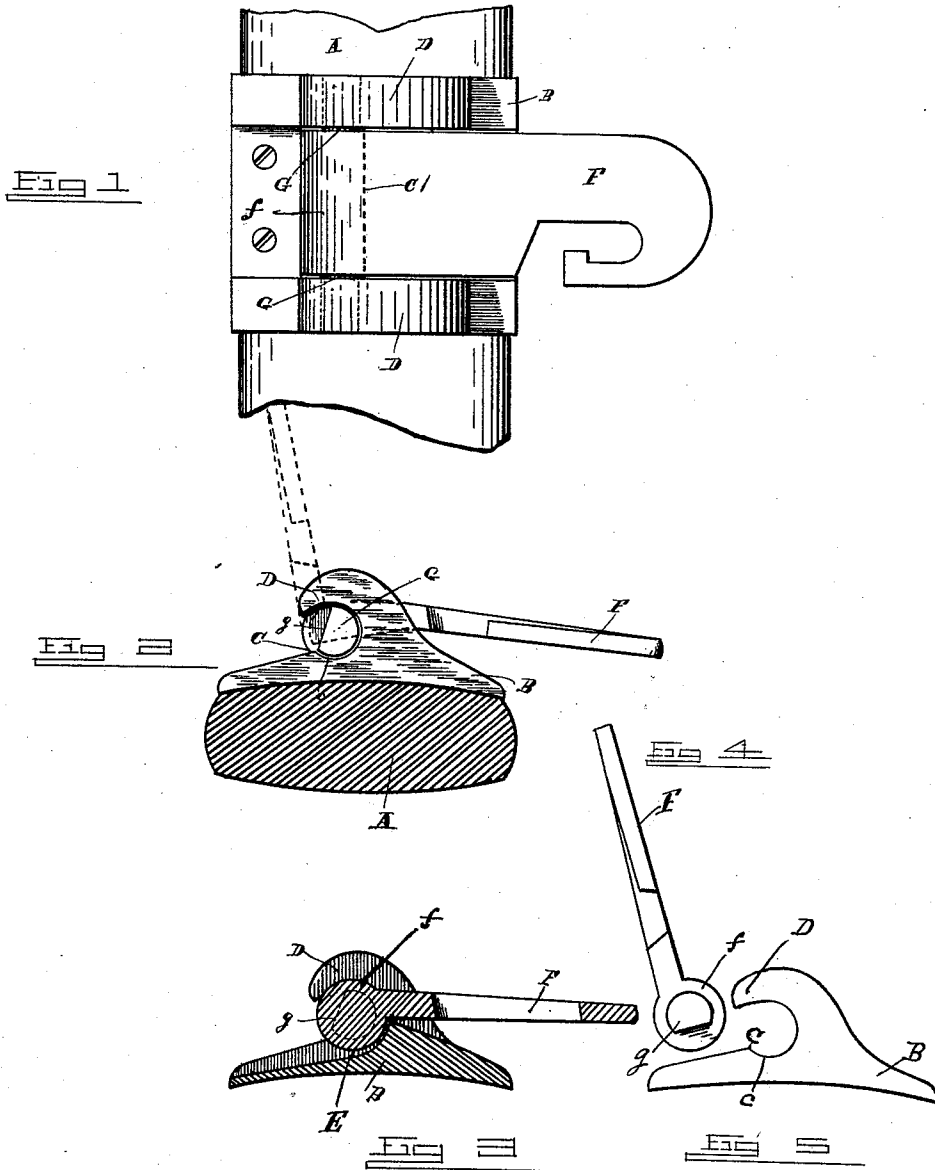


(No Model.)

D. J. MARTIN.
HAME ATTACHMENT.

No. 410,909.

Patented Sept. 10, 1889.



Witnesses

C. W. Merrill,
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Inventor

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UNITED STATES PATENT OFFICE.

DAVID J. MARTIN, OF COVINGTON, OHIO.

HAME ATTACHMENT.

SPECIFICATION forming part of Letters Patent No. 410,909, dated September 10, 1889.

Application filed March 9, 1889. Serial No. 302,618. (No model.)

To all whom it may concern:

Be it known that I, DAVID J. MARTIN, of Covington, in the county of Miami and State of Ohio, have invented certain new and useful
5 Improvements in Hame Attachments; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form part of this specification, in
10 which—

Figure 1 is a side view of my improved hame-hook-attaching device secured to a hame. Fig. 2 is a top view of the same detached, showing the hook in disengaging position by the aid of dotted lines. Fig. 3 is a
15 horizontal transverse sectional view of the same. Figs. 4 and 5 are side views of the hook and plate separated.

20 This invention is an improvement in harness; and its object is to provide an improved device for detachably connecting the tug-hook to the hame; and it consists in the hereinafter-described novel construction and arrangement of parts, and is concisely specified
25 in the claims.

Referring by letter to the drawings, A designates a hame of ordinary construction. B is a metal plate secured to said hame in
30 proper position by the aid of screws or rivets, and C is a vertical shoulder or recess in the outer face of said plate.

D D are forwardly-extending curved lugs extending laterally from the plate at top and
35 bottom sides thereof and over the ends of shoulder C, as shown. The recesses between the lugs and the body of the plate are rounded and enlarged, as shown at *c*, the diameter of these recesses being greater than the distance
40 between the ends of the lugs and face of the plate. The portion of the plate in front of shoulder C and between lugs D D is depressed or recessed, as at E.

F designates a hook of any suitable construction, but having oppositely-projecting
45 short studs G G at its front end, which may be formed with or secured to the hook as is convenient. The studs G are of a diameter equal to the diameter of recesses *c*, but are
50 flattened on one side, as at *g*. The shank of the hook is of a width to lie easily between lugs D D.

In operation the plate B is secured to the hame with the lugs D projecting forward, as shown. The tug-hook F is engaged with the
55 plate by holding it in the position indicated in dotted lines, Fig. 2, and drawing it backward causes studs G G to engage lugs D D, and the reduced faces of the studs permit them to slip between the studs and plate
60 into recesses *c*. Then by turning the hook backward to working position, as indicated in full lines, the studs G are turned so that they cannot escape from the lugs. The tug-hook is supported upon the lower lug D, and
65 is kept from vertical play between the lugs, while the enlarged cylindrical portion *f* of the shank of the hook rests against shoulder C and can relieve the lugs of part of the draft-strain.
70

The depressed portion E of the plate permits the ready engagement of the hook and plate by allowing the passage of portion *f* of the hook-shank in engaging or disengaging the hook and plate.
75

I thus provide a simple easily-operated hook attaching or detaching device, and the hook cannot become detached from the plate, except in the one position, and then its shank
80 must be moved horizontally, vertical disengagement of the hook and plate being impossible in any position thereof.

Having thus described my invention, what I claim as new is—

1. The combination of the hame, the plate B, attached thereto, having curved lugs D D,
85 formed with enlarged recesses *c c*, with the hame-hook F, having studs G G flattened at one side and removably engaging lugs D, substantially as and for the purpose specified.
90

2. The combination of the hame and the plate B, secured thereto, having curved lugs D D, shoulder C, and depression E, with the hook F, having enlargement *f*, and flattened cylindrical studs G G, all substantially as
95 specified.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

DAVID J. MARTIN.

Witnesses:

S. C. SISSON,
JAMES MCCLARY.