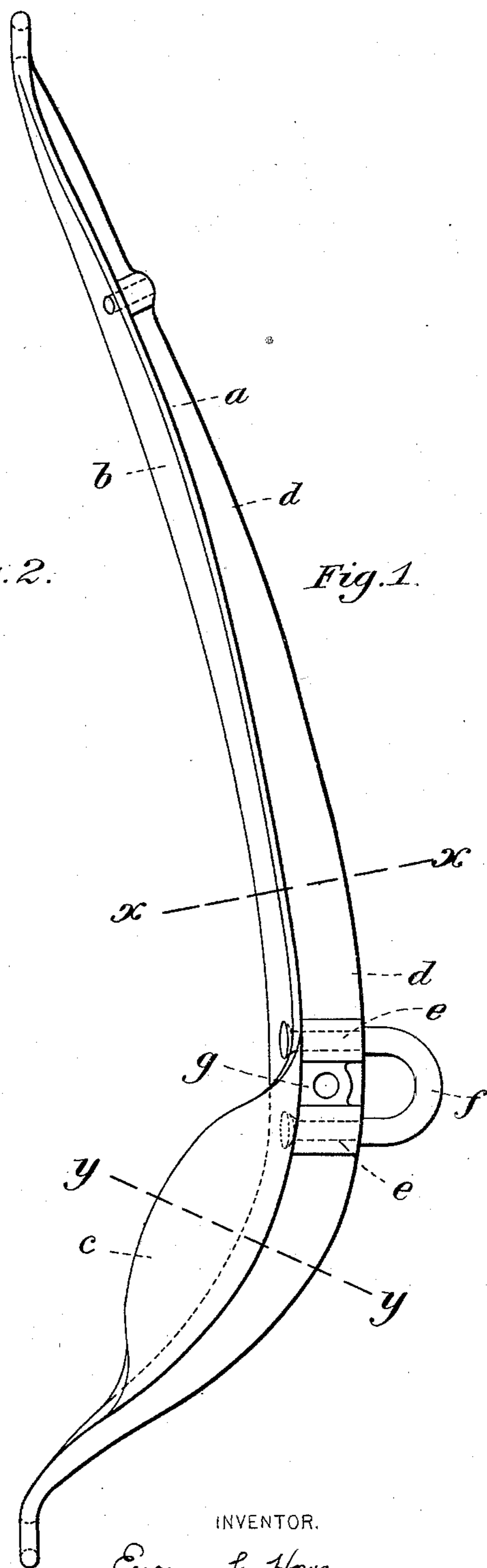
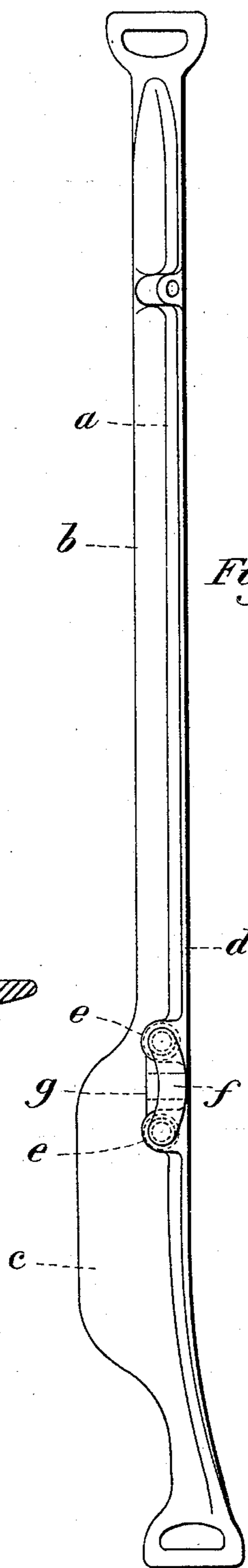
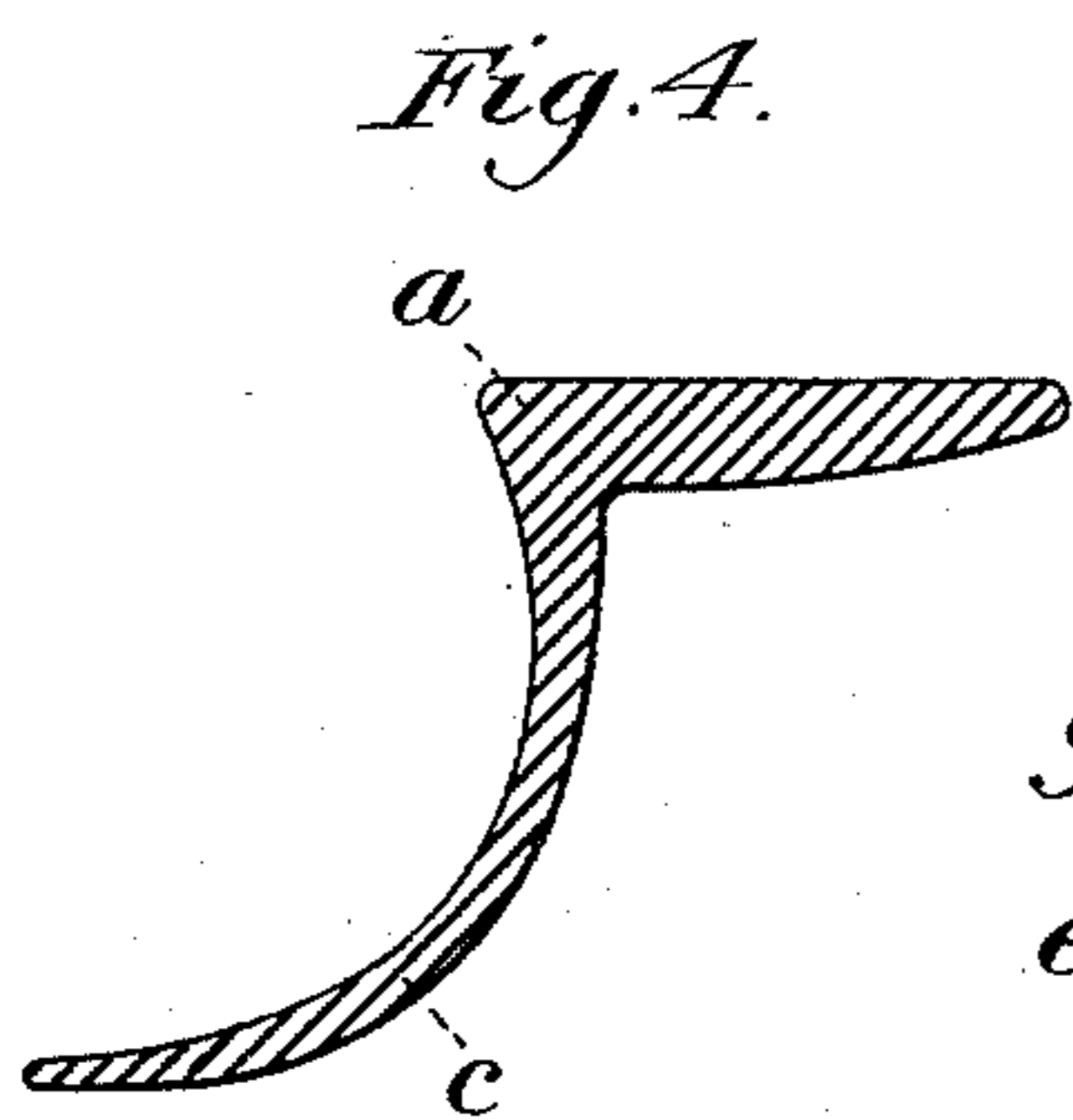
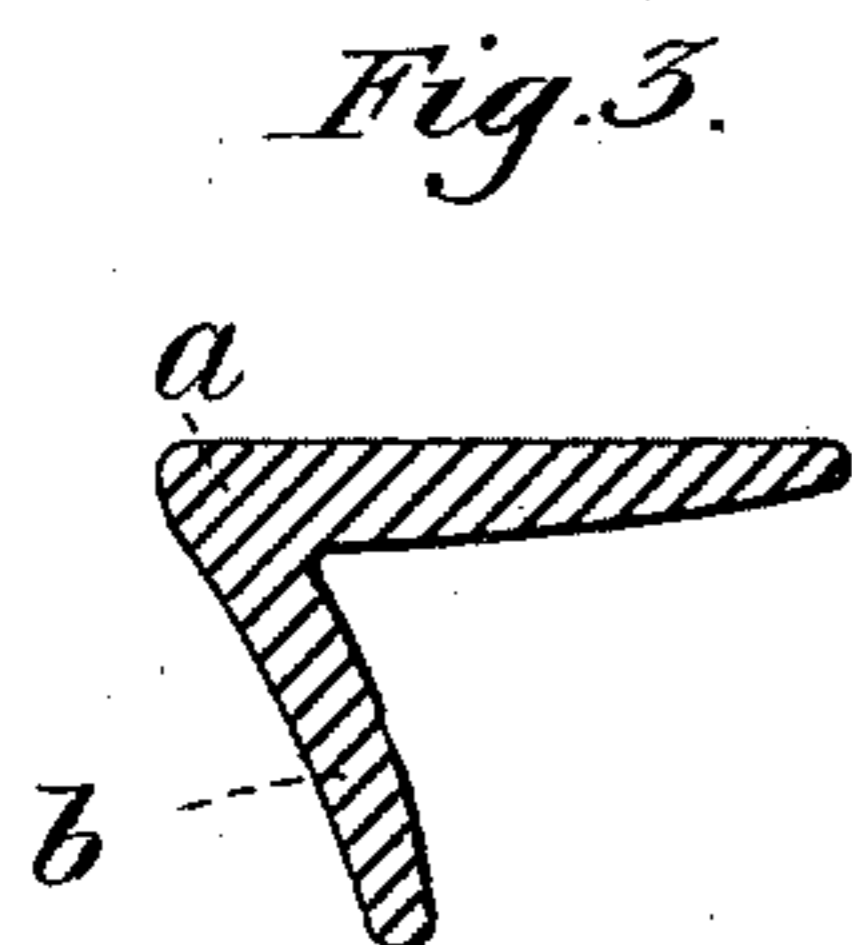


(No Model.)

E. L. HOWE.
HAME.

No. 475,863.

Patented May 31, 1892.



WITNESSES

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UNITED STATES PATENT OFFICE.

EUGENE L. HOWE, OF CLEVELAND, OHIO.

HAME.

SPECIFICATION forming part of Letters Patent No. 475,863, dated May 31, 1892.

Application filed October 5, 1891. Serial No. 407,731. (No model.)

To all whom it may concern:

Be it known that I, EUGENE L. HOWE, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented a new and useful
5 Improvement in Hames, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification, in which—

10 Figure 1 is a front elevation of one of the hames. Fig. 2 is a side elevation of the same, showing the draft-eye sockets. Fig. 3 is a cross-section on the line *xx* of Fig. 1, and Fig. 4 is a cross-section on the line *yy* of Fig. 1.

15 Like letters of reference indicate like parts in each.

The object of my invention is to produce a hame that shall embody the greatest strength, lightness, and symmetry, that shall fit evenly
20 and smoothly on the collar, and that shall protect the collar from wear and abrasion; and to this end I form the hame in substantially a V shape in cross-section and of greatest width at or about the point where the draft-
25 eye and breast-ring are situate and tapering thence toward the ends or fastening-eyes at the ends of the hame. It is well known that the greatest wear and injury to collars is occasioned by chafing of the breast or hold-back
30 chains or straps, and to prevent this wear and chafing I extend the forward flange of the hame at a point at or a little below the point of attachment of the breast-ring, so as to form a shield which curves so as to conform to the
35 contour of the collar; and it not only affords a perfect protection to the collar from abrasion by the breast or hold-back chain, the shield lying between the collar and the chain, but it also holds the hame perfectly secure on
40 the collar, so that it will not be drawn out of position, and the danger of displacement of the hame from the collar by backing is greatly reduced. In addition to this, the shield, being
45 integral with the body of the hame, strengthens the same most materially at the point where strength is required without a material increase in weight, as the remaining portions of the hame may be made lighter than in the ordinary hame and without di-
50 minishing the symmetry of the hame in the slightest degree.

I will now describe my invention so that

others skilled in the art may manufacture and use the same.

In the drawings, *a* represents the body of 55 the hame, which is substantially V-shaped in cross-section, as is shown in Fig. 3, the forward flange *b* being slightly concave, so as to fit properly against the collar. Ordinarily in V-shaped hames this flange is comparatively 60 wide, so as to have sufficient hold upon the collar, and thereby the weight of the hame is increased and its symmetry is impaired. I am, however, enabled to form this flange comparatively narrow, as full and sufficient sup- 65 port on the collar is afforded by the shield *c*. This shield *c* is an enlargement of the flange *b* at and below the point of attachment of the breast-ring, and it is concave on its inner face, so as to conform to the roll of the collar, and 70 is of sufficient width to cover the top of the roll, so as to prevent the hold-back straps or chains passing forwardly from the hame from coming in contact with the same.

Formed integral with the body of the hame 75 and on the rear flange *d* is the double boss *e*, in which are formed the sockets for the reception of the draft-staple *f*, and between these bosses is a boss *g*, having a socket for the reception of the bolt of the breast-ring. 80 These three bosses are in reality integral with each other and with the body of the hame, yet owing to the situation of the breast-ring boss between the bosses *e e* they are described separately. This arrangement is of great advan- 85 tage, as the greatest strength, together with lightness and symmetry and avoidance of projecting parts subject to accidental injury, is obtained. At the ends of the hame are the fastening-eyes. 90

It should be understood that the size of the shield *c* and its design and location may be more or less varied according to the character of the hame, and, also, that I do not desire to limit myself to hames V-shaped in cross-sec- 95 tion or to hames having the particular draft-staple and breast-ring connection herein shown and described.

Having thus described my invention, what I claim, and desire to secure by Letters Pat- 100 ent, is—

1. A hame having a shield projecting from its front face and arranged to cover the front portion of the collar at the point where the

breast strap or chain crosses, and means projecting from the rear face for the attachment of the tug, substantially as and for the purposes described.

- 5 2. A hame substantially V-shaped in cross-section, having a breast-chain shield formed by an enlargement of the front flange for protection from the holdback, and means projecting from the rear flange for attachment

of the tug, substantially as and for the purpose specified.

In testimony whereof I have hereunto set my hand this 26th day of September, A. D. 1891.

EUGENE L. HOWE.

Witnesses:

MARTIN O. LENSENY,
EMIL W. JAITE.