

T. A. FOX.
DRAFT EYE FOR HAMES.
APPLICATION FILED JAN. 5, 1912.

1,025,970.

Patented May 14, 1912.

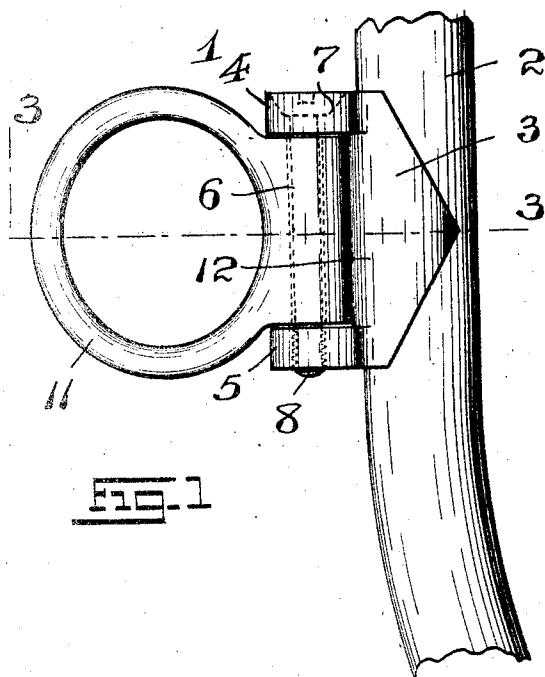


FIG. 1

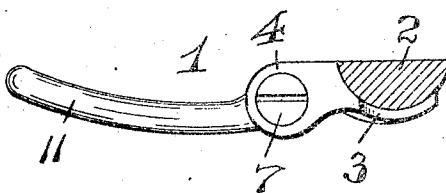


FIG. 2

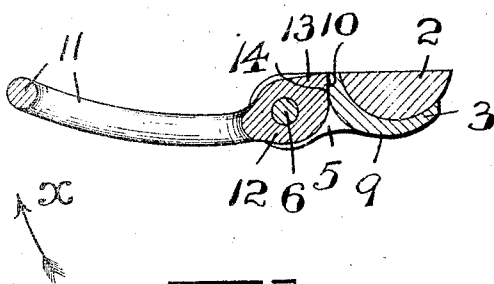


FIG. 3

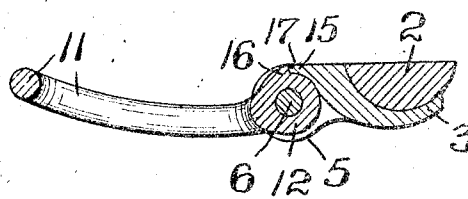


FIG. 4

WITNESSES:

Harry C. Pfeiffer
Fred W. Braentzel

INVENTOR:

Thomas A. Fox
BY
Braentzel and Richards,
ATTORNEYS

UNITED STATES PATENT OFFICE.

THOMAS A. FOX, OF NEWARK, NEW JERSEY, ASSIGNOR TO THE STEFFENS-AMBERG CO.,
A CORPORATION OF NEW JERSEY.

DRAFT-EYE FOR HAMES.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, THOMAS A. FOX, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Draft-Eyes for Hames; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to characters of reference marked thereon, which form a part of this specification.

This invention relates, generally, to improvements in draft-eyes for the hames of harness; and, the present invention has reference, more particularly, to a novel form of jug-draft-eye for hames, comprising two main elements, one of which is in the form of a bearing-member, suitably mounted upon the hame-iron, and the other element being in the form of an eye or loop, pivotally connected with the said bearing-member.

The present invention has for its principal object to provide a draft-eye for a hames of the character hereinabove mentioned, with a view of providing a means of pivotal connection between the said bearing-member and the eye or loop of the device, that the degree of the pivotal movement of the eye or loop toward the harness-collar, when the hames and the draft-eye are in position upon the collar, is limited and arrested, so that the draft-eye will not be brought into contact with the face of the collar and that any objectionable chafing is clearly overcome.

The invention has for its further object to provide a draft-eye for the hames of harness of the general character hereinafter set forth, and in which the means of pivotal connection between the bearing-member and the eye or loop of the device is located closely to the draft-iron, the parts being provided with means for limiting the pivotal movement of the eye or loop in the direction toward the collar, so that thereby a pivoted draft-eye of a neat form may be used and which is much shorter than the forms of pivoted draft-eyes now in use.

Other objects of this invention not at this time more particularly enumerated will be clearly understood from the following detailed description of the present invention.

With the various objects of the present in-

vention in view, the said invention consists, primarily, in the novel draft-eye for hames hereinafter set forth; and, the invention consists, furthermore, in such novel arrangements and combinations of the several parts thereof, all of which will be more fully described in the following specification, and then finally embodied in the clauses of the claims which are appended to and which form an essential part of this specification.

The invention is clearly illustrated in the accompanying drawings, in which:

Figure 1 is a front face view of a portion of a hame-iron and a jug-draft-eye connected therewith, the said draft-eye being made according to and showing one embodiment of the principles of the present invention; Fig. 2 is a top-edge view of the draft-eye and a horizontal sectional representation of the hame-iron with which the draft-eye is used; and Fig. 3 is a horizontal section of the parts represented in said Fig. 1, said section being taken on line 3—3 in said Fig. 1. Fig. 4 is a horizontal sectional representation of a hame-iron and draft-eye, similar to that represented in said Fig. 3, showing a draft-eye of a slightly modified form of construction, but still embodying the principles of the present invention.

Similar characters of reference are employed in all of the above described views, to indicate corresponding parts.

Referring now to the said drawings, the reference-character 1 indicates a jug-draft-eye illustrating one embodiment of the principles of the present invention, the said draft-eye comprising a bearing-member with which is pivotally connected, in the manner to be presently more fully described, an eye or loop-shaped member. The said bearing-member consists, essentially, of a suitably shaped body-portion 3 which is mounted upon and is suitably secured to the hame-iron 2, in the usual manner. Extending from the said body-portion 3 are a pair of perforated ears or lugs, as 4 and 5, the perforation of the upper ear or lug 4 being of such conformation, so as to receive therein the slotted head 7 of a pivot-pin or screw-bolt 6, and the perforation in the lower ear or lug 5 being made screw-threaded for the reception of the screw-threaded end-portion 8 of the said bolt 6.

As shown in Fig. 3 of the drawings, the main part of the outer surface of the body-

portion 3 is made convex, as at 9, but a part of the said surface located between the said ears or lugs 4 and 5 is made flat, as at 10. The eye or loop-shaped member herein-before mentioned consists of a suitably formed ring-shaped body 11 which is formed with a suitably shaped tubular member or element 12. The surface-conformation of this tubular member or element 12 is preferably that represented in said Fig. 3 of the drawings, being made with the eccentrically disposed and angularly-shaped enlargement 13, one portion of which is flat, as at 14, and is adapted to be brought into arresting engagement with the flat surface-portion 10 herein-above mentioned, when the eye or loop-shaped member is adapted to be rotated upon the shank of the screw-bolt 6, arranged within said tubular member or element 12, in a direction indicated by the arrow x in said Fig. 3, toward the body of the horse-collar, so as to limit such rotary movement of the said parts, and thereby prevent chafing of the covering of the horse-collar, or of the body of the horse itself, as will be clearly evident.

Referring now to Fig. 4 of the drawings, in which is shown a slight modification of the device represented in said Figs. 1, 2 and 3 of the drawings, it will be seen that the portion of the main body of the bearing-member which is located between the perforated ears or lugs 4 and 5 is made with an extension or projection, as 15, and that the tubular member or element 12 of the ring-shaped body 11 is made with a projection, as 16, forming an off-set 17 which is adapted to be brought into arresting engagement with the said extension or projection 15, so as to limit the rotary movement of the said ring-shaped body 11 toward the harness-collar, and to prevent chafing, as will be clearly understood.

I am aware that some changes may be made in the general arrangements and combinations of the several parts comprising the herein described draft-eye for the hames of a harness-collar, as well as in the details of the construction of the same, without departing from the scope of the present invention as set forth in the foregoing specification, and as defined in the clauses of the claims which are appended to the said specification. Hence, I do not limit my present

invention to the exact arrangements and combinations of the said parts as described in the said specification, nor do I confine myself to the exact details of the construction of the said parts, as illustrated in the accompanying drawings.

I claim:--

1. A draft-eye for the hames of a harness-collar, comprising a bearing-member consisting of a main body-portion and a pair of perforated lugs or ears extending therefrom, the body-portion of said bearing-member having its outer surface made convex and formed with a flat part between said lugs or ears, an eye or loop-shaped body, a tubular member extending from said eye or loop-shaped body, a pivot-pin mounted in said perforated lugs or ears and the tubular member of said eye or loop-shaped body, and means connected with said tubular member of said eye or loop-shaped body, adapted to be brought into arresting engagement with the flat part of the body-portion of said bearing-member to limit the rotary movement of said eye or loop-shaped member.

2. A draft-eye for the hames of a harness-collar, comprising a bearing-member consisting of a main body-portion and a pair of perforated lugs or ears extending therefrom, the body-portion of said bearing-member having its outer surface made convex and formed with a flat part between said lugs or ears, an eye or loop-shaped body, a tubular member extending from said eye or loop-shaped body, a pivot-pin mounted in said perforated lugs or ears and the tubular member of said eye or loop-shaped body, and the tubular member of said eye or loop-shaped body being provided with an eccentrically disposed and angularly-shaped enlargement adapted to be brought into arresting engagement with the flat part of the body-portion of said bearing-member to limit the rotary movement of said eye or loop-shaped member.

In testimony, that I claim the invention set forth above I have hereunto set my hand this 4th day of January, 1912.

THOMAS A. FOX

Witnesses:

FREDK. C. FRAENTZEL,
FREDK. H. W. FRAENTZEL.