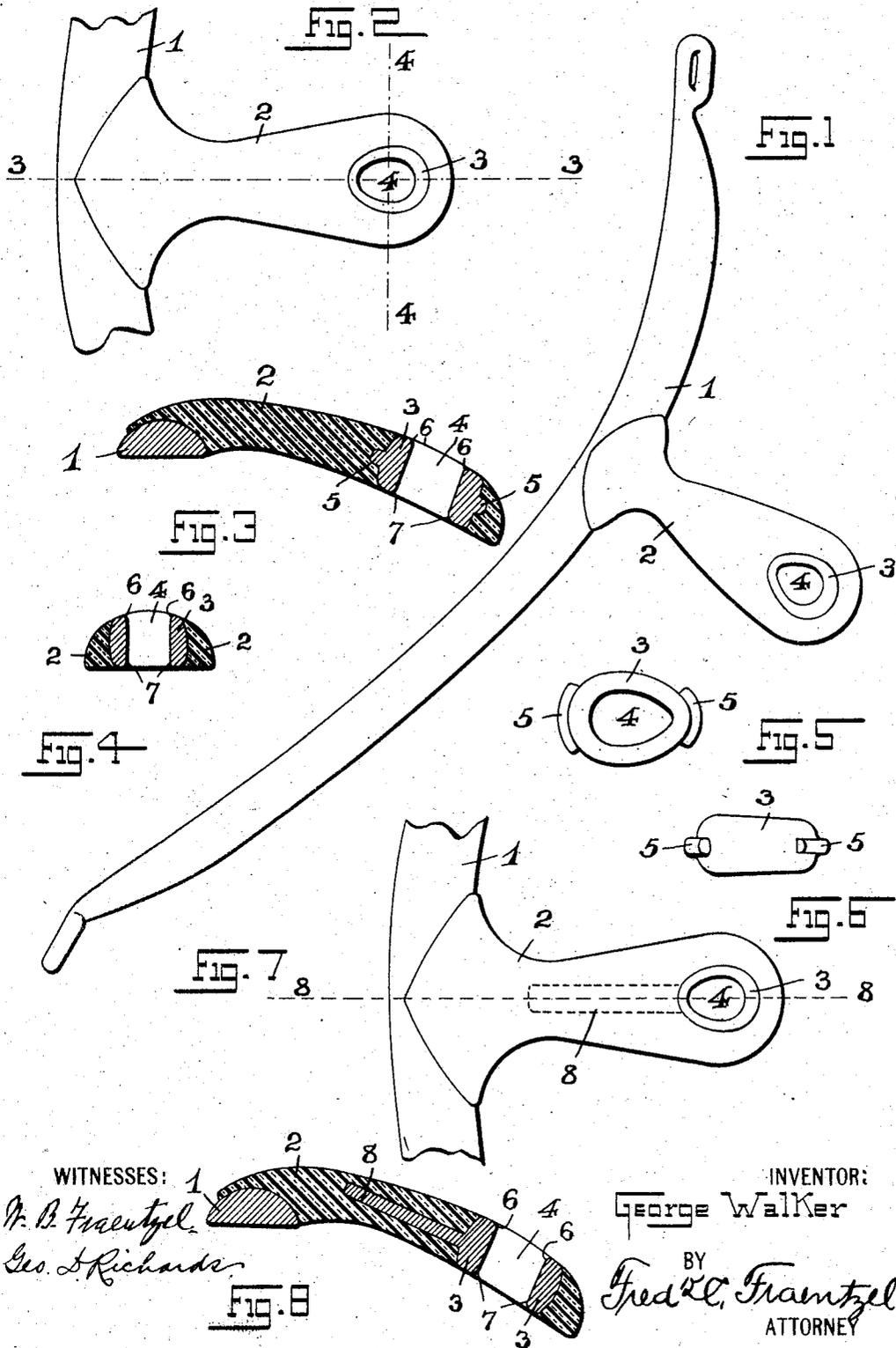


G. WALKER.
DRAFT EYE.

APPLICATION FILED APR. 11, 1902.



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UNITED STATES PATENT OFFICE.

GEORGE WALKER, OF NEWARK, NEW JERSEY, ASSIGNOR TO RUBBER AND CELLULOID HARNESS TRIMMING CO., A CORPORATION OF NEW JERSEY.

DRAFT-EYE.

SPECIFICATION forming part of Letters Patent No. 778,288, dated December 27, 1904.

Application filed April 11, 1902. Serial No. 102,362.

To all whom it may concern:

Be it known that I, GEORGE WALKER, 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; 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 figures of reference marked thereon, which form a part of this specification.

The present invention has reference to improvements in draft-eyes for iron hame-bodies; and the invention relates more particularly to improvements in that class of draft-eyes which are cast or otherwise made of composition metal and in which, owing to the soft nature of the metal, the eye proper is soon worn down by its frictional engagement with the holding attachment of the hame-tug.

My invention has for its principal objects to provide a simple contrivance which is to be used with a draft-eye made of a composition or other similar soft metal; to provide a draft-eye the body portion of which shall be of a metal of one degree of consistency, having a reinforcing member of a metal of another degree of consistency and which shall be just as strong and shall have the same properties as a draft-eye made of malleable or drop-forged iron, and also avoiding the necessity of plating such iron or steel draft-eye when it is desired to have a highly ornamental draft-eye.

With these several objects in view I propose to provide the receiving eye or opening in the body of a draft-eye, which is made of a composition or other soft metal, with a reinforcing means, preferably in the form of an auxiliary ring or eye, of a hard metal, such as steel or cast or malleable iron, about which the main body portion of the draft-eye proper is formed or cast substantially in the manner and for the purpose to be hereinafter more fully set forth.

My present invention therefore consists in the novel draft-eye for hames hereinafter set forth; and, furthermore, this invention con-

sists in the various novel arrangements and combinations of parts, all of which will be fully described in the following specification and then finally pointed out in the clauses of the claim, which form a part of and are appended to the said specification.

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

Figure 1 is a perspective view of a hame-body and a draft-eye, the said draft-eye being made according to the principles of the present invention. Fig. 2 is a face view of the said draft-eye and a portion of the hame-body to which it is secured, the said parts being represented on an enlarged scale. Fig. 3 is a longitudinal vertical section of the said parts, taken on line 3 3 in said Fig. 2; and Fig. 4 is a vertical cross-section of the same parts, the said section being taken on line 4 4 in said Fig. 2. Fig. 5 is a face view, and Fig. 6 a side view, of the reinforcing ring or eye employed with the draft-eye represented in said Figs. 1 to 4, inclusive. Fig. 7 is a face view of a portion of a hame-body and a draft-eye provided with a modified form of reinforcing ring or eye, but still embodying the principles of this invention; and Fig. 8 is a longitudinal vertical section of the said parts, taken on line 8 8 in said Fig. 7 of the drawings.

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

In the said drawings the reference character 1 designates any suitable hame-body or hame-iron, and 2 indicates the draft-eye proper, which is made according to the principles of the present invention and which is connected with the said hame-body or hame-iron 1 in the proper position and in any suitable and well-known manner.

As has been stated, my invention is applicable to draft-eyes which are made from composition or other soft metal and then provided with a highly ornamental finish.

In carrying out my present invention I take a ring or eye 3, which is provided with an opening or hole 4, of any suitable configuration, but preferably of the configuration illustrated in Figs. 1, 2, and 5, the said ring or eye

3 being also preferably made with one or more laterally-extending lips or projections 5, and then I form the draft-eye proper by casting or otherwise producing the main body of the said draft-eye around the said ring or eye 3, so that the two members or parts are securely united by thoroughly embedding the said ring or eye 3 in the said draft-eye proper, substantially as illustrated. When thus united, the upper and lower rounded marginal edges 6 and 7 of the opening or hole 4 in said ring or eye 3 are left perfectly flush with the upper and lower surfaces of the draft-eye proper, as clearly illustrated, and a strong and serviceable draft-eye having a reinforced receiving-eye for connection therewith of the hame-tug attachment or fastening is the result. When made in this manner, all danger of wearing out the receiving-eye of the draft-eye proper when made from composition or other soft metal is clearly avoided, and a draft-eye of this character can be put to its many uses in connection with a harness without breaking or becoming unsightly when the eye is worn down by frictional contact or engagement with the usual hard-metal fastening device of the hame-tug. In order that the draft-eye proper may be additionally strengthened along its main body, I may provide the said ring or eye 3 in place of one of said short lips or projections 5 with a long projection or arm 8, as illustrated in Figs. 7 and 8, which long projection or arm 8 is embedded within and extends in a rearward direction in the main body portion of the draft-eye proper, as represented more particularly in Fig. 8 of the drawings, the said draft-eye proper being suitably formed about the said ring or eye 3 and the said long projection or arm 8 in the manner hereinabove mentioned.

I am aware that some changes may be made in the various arrangements and combinations of the parts without departing from the scope of my present invention. Hence I do not limit my invention to the exact arrangements and combinations of the parts as described in

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

Having thus described my invention, what I claim is—

1. As a new article of manufacture, a draft-eye consisting of a metal body of one degree of consistency, the said body being provided with an enlarged receiving-eye, and a reinforcing-ring arranged in said eye, said ring being of a metal of another degree of consistency, the upper and lower surfaces of said ring being flush with the upper and lower surfaces of the draft-eye body, and a projection extending from said ring, said projection extending into and being entirely embedded in the metal of the draft-eye body by having the metal of said body cast about said projection to prevent displacement of said ring from the eye in said body, substantially as and for the purposes set forth.

2. As a new article of manufacture, a draft-eye consisting of a metal body of one degree of consistency, the said body being provided with an enlarged receiving-eye, and a reinforcing-ring arranged in said eye, said ring being of a metal of another degree of consistency, the upper and lower surfaces of said ring being flush with the upper and lower surfaces of the draft-eye body, and projections 5 extending in opposite directions from the opposite sides of said ring, said projections being entirely embedded in the metal of the draft-eye body by having the metal of said body cast about said projections to prevent displacement of said ring from the eye in said body, substantially as and for the purposes set forth.

In testimony that I claim the invention set forth above I have hereunto set my hand this 10th day of April, 1902.

GEORGE WALKER.

Witnesses:

FREDK. C. FRAENTZEL,
EDWARD G. ROBERTSON.

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