

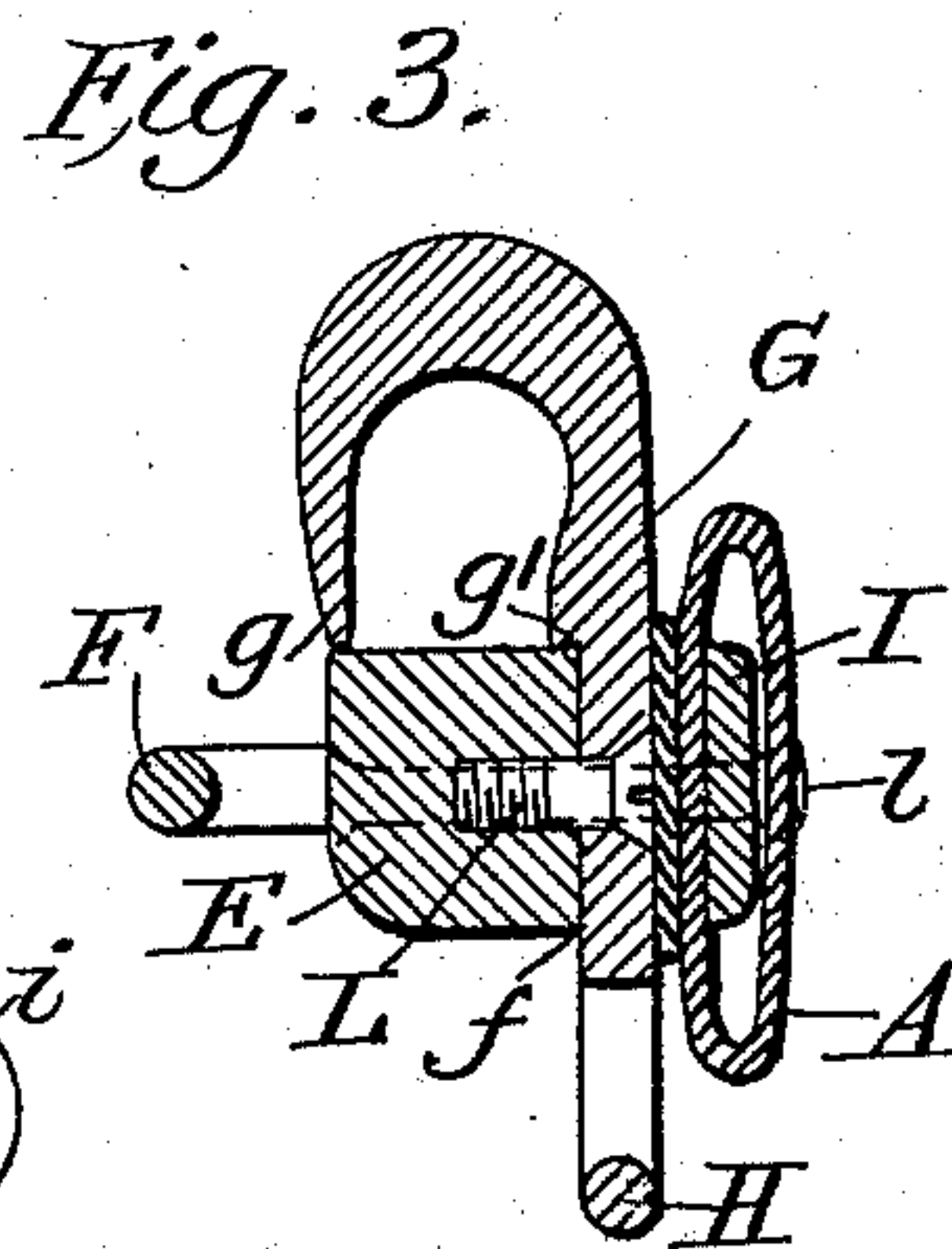
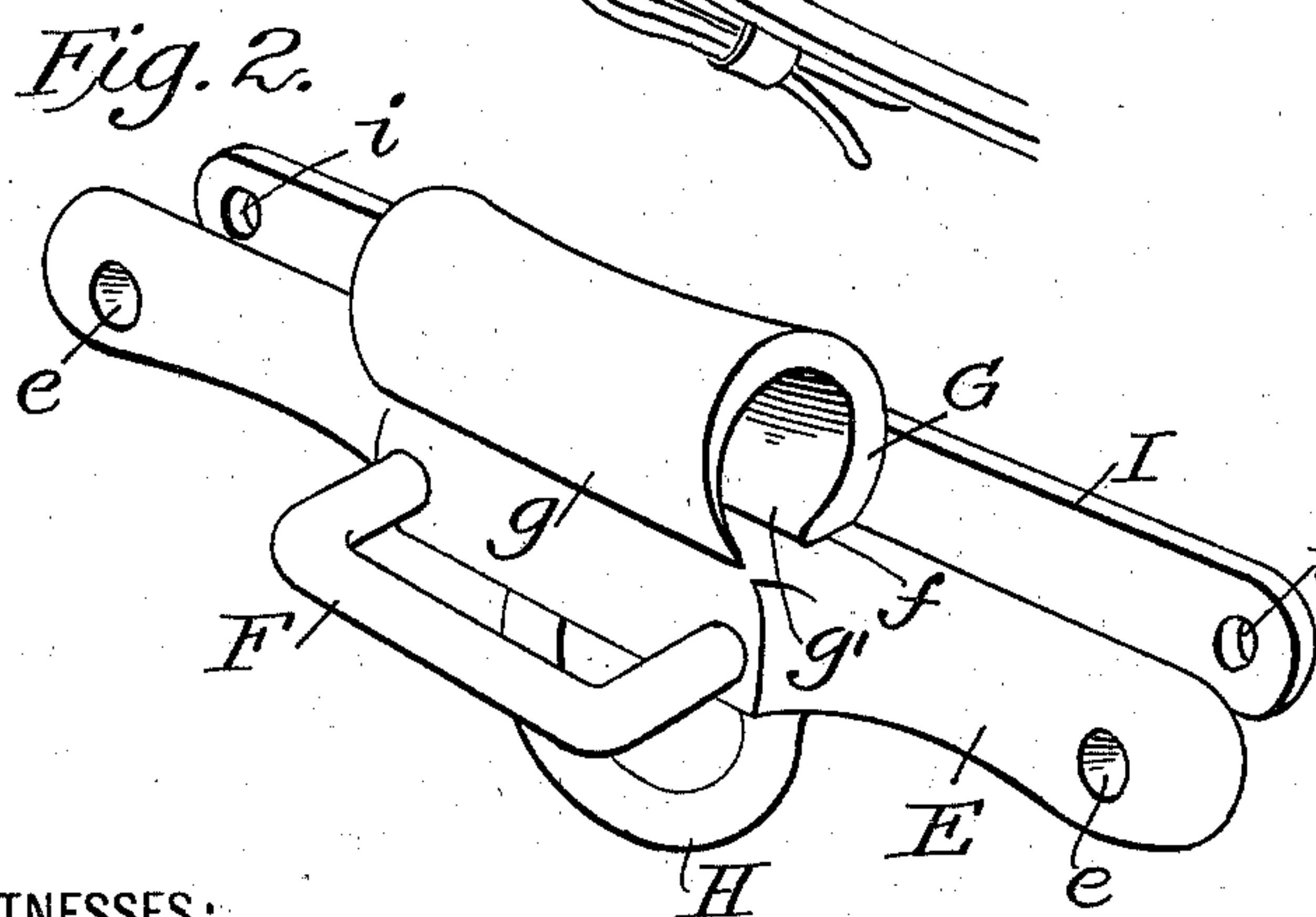
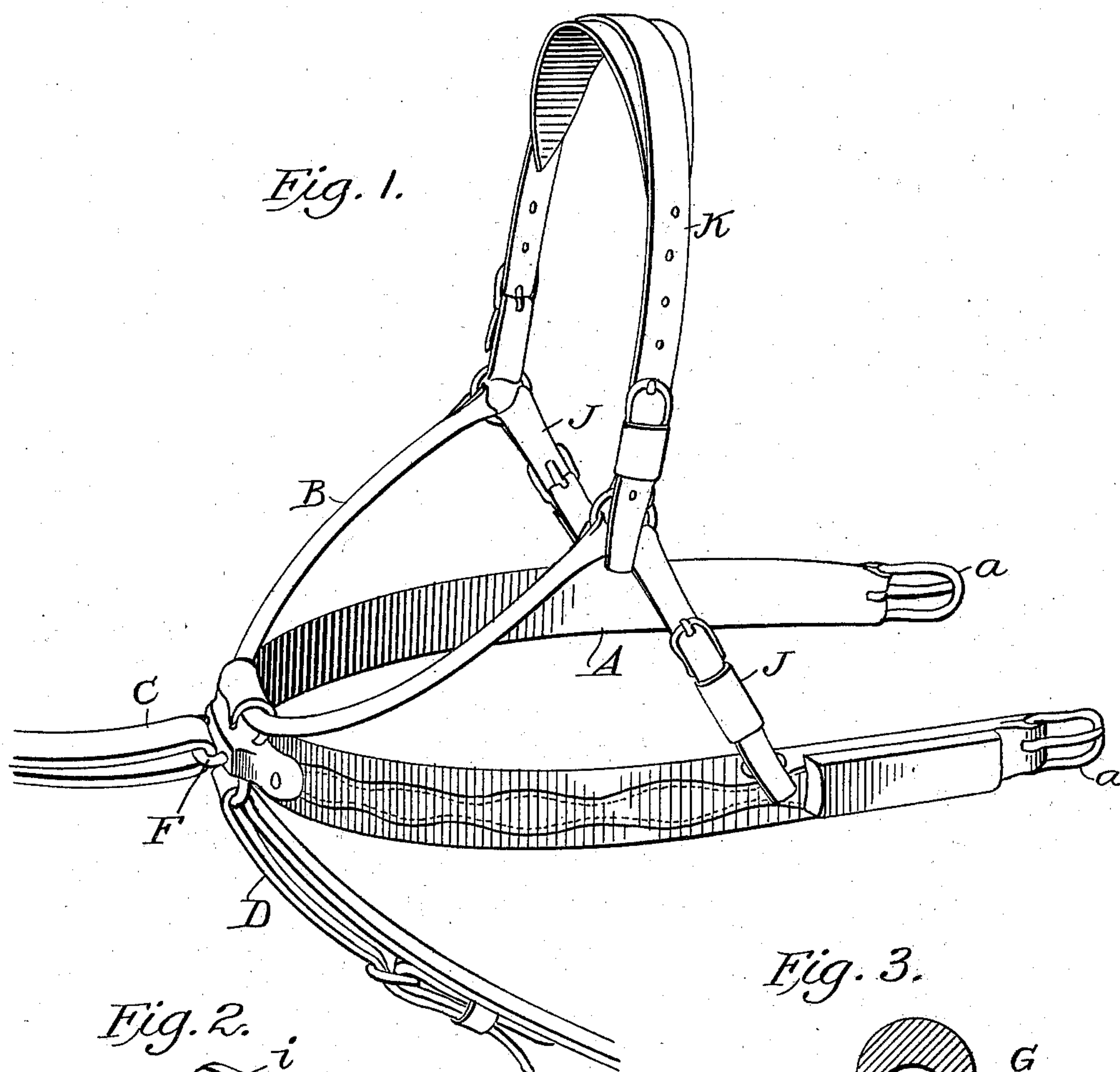
No. 748,152.

PATENTED DEC. 29, 1903.

S. O. BARDEN.
BREAST HARNESS.

APPLICATION FILED MAR. 18, 1902.

NO MODEL.



WITNESSES:

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SAMUEL O. BARDEN, OF WASHINGTON, IOWA.

BREAST-HARNESS.

SPECIFICATION forming part of Letters Patent No. 748,152, dated December 29, 1903.

Application filed March 18, 1902. Serial No. 98,834. (No model.)

To all whom it may concern:

Be it known that I, SAMUEL O. BARDEN, a citizen of the United States of America, and a resident of Washington, in the county of Washington, State of Iowa, have invented certain new and useful Improvements in Breast-Harness, of which the following is a specification.

This invention relates to a new and improved harness for horses, and more particularly to a breast-iron employed in connection with a double or other breast-harness, the principal object of the invention being to obviate the necessity of using the parts commonly called "breast-collar" irons.

The invention consists, essentially, in a breast-harness made up as described, and also in a breast-iron composed of specified pieces for the proper connection and arrangement of the parts of the harness therewith, and also in numerous details and peculiarities of the construction and combination, substantially as will be described and claimed.

In the accompanying drawings, illustrating my invention, Figure 1 is a perspective view of my improved breast-iron shown in the position that it actually occupies in practice relatively to the parts of the harness with which it is used. Fig. 2 is an enlarged detail perspective view of the breast-iron. Fig. 3 is a transverse section.

Similar letters of reference designate like parts throughout the different figures.

A denotes the breast-collar of a double harness having at the rear ends the buckles *a a*; B, the breast-yoke; K, the neck-strap which passes over the neck of the animal and serves to support the breast-collar; J J, the adjustable lead-up straps connected to the collar A, yoke B, and neck-strap K, as shown in the drawings, for the purpose of holding the breast-collar, the neck-strap, and the breast-yoke in proper position.

C denotes the neck-yoke strap, which leads forward from the breast-collar A and is attached to the front end of the vehicle tongue or pole, and D designates the pole-strap, which leads downwardly from the front end of the breast-collar A in front of the animal, so as to be properly attached to the girth. Thus it will be seen that on the front portion of the breast-collar A it becomes necessary to

provide means for attaching the pole-strap D, neck-yoke strap C, and breast-yoke B, and such means is afforded by the breast-iron, which constitutes the principal feature of this invention.

Proceeding now to describe the breast-iron in detail, it consists of a metallic plate E, having near each end perforations or holes *e e*, through which rivets, screws, or other fastening devices may be made to pass. Plate E is provided near the middle with a horizontal loop F, through which passes the neck-yoke strap C. The rear side of plate E, opposite to the point where the loop F is situated, is grooved or recessed at *f*, and in said recess is located a vertical plate G, having at its lower end a loop H, which is below the plate E, and at its upper end a sleeve G is formed by bending the upper end of the plate over and downwardly to provide a sleeve-like loop, the edge *g* of the turned-over part resting upon the top of the plate E, and the plate G being also provided with a flange or rabbet *g'*, which likewise rests on the top of the plate E. Plate G is secured to plate E by means of rivets or screws L. The loop H is designed to receive the pole-strap D, and the sleeve G is intended to have passed through it and thus connected with it the breast-yoke B.

The breast-iron I am now describing consists of three parts—the plate E, the vertical plate G, and the metallic strip I, which latter is used for the purpose of rigidly connecting the other parts to the breast-collar A, the connection being made in the following manner: The breast-collar A is a hollow or folded article of leather, and between the parts thereof, at the front, is placed this metallic piece I, while on the outside of collar A, opposite to strip I, is located the plate E and also the plate G. Rivets *l* are passed through the rivet-holes *i i* of plate I, as also through the material of collar A and also through the rivet-holes *e e* of plate E, and in this way plate E, plate G, strip I, and collar A are all firmly bound together, and the part which I have technically termed the "breast-iron" is effectively riveted or secured to the breast-collar on the front thereof.

Many changes in the precise construction and embodiment of this invention, as set

forth herein, may be made without departing from this invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a breast-collar and in combination, a breast-strap, an upper neck-strap, a lower neck-strap connected thereto, brace-straps connecting the ends of said collar-straps to said breast-strap, a yoke-strap, a martingale-strap, and means for connecting said yoke-strap, martingale-strap and lower neck-strap to the breast-strap, comprising a lug secured to the breast-strap having a longitudinal guide-opening for the neck-strap, a laterally-projecting loop to receive the yoke-strap, and a depending loop to receive the martingale-strap, substantially as described.

2. In a breast-collar and in combination, a breast-strap, an upper neck-strap, a lower neck-strap connected thereto, brace-straps connecting the ends of said collar-straps to said breast-strap, a yoke-strap, a martingale-strap, and means for connecting said yoke-strap, martingale-strap and lower neck-strap to the breast-strap, comprising a lug having a back section carrying guides for the lower neck-strap and the martingale-strap, and a front separable section carrying a guide for the yoke-strap, substantially as described.

Signed at Washington, Iowa, this 13th day of March, 1902.

SAMUEL O. BARDEN.

Witnesses:

A. S. FOLGER,
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