

W. B. HAYDEN.
 MODE OF ATTACHING HOLDBACK RINGS TO HAMES.
 No. 105,679. Patented July 26, 1870.

Fig. 2

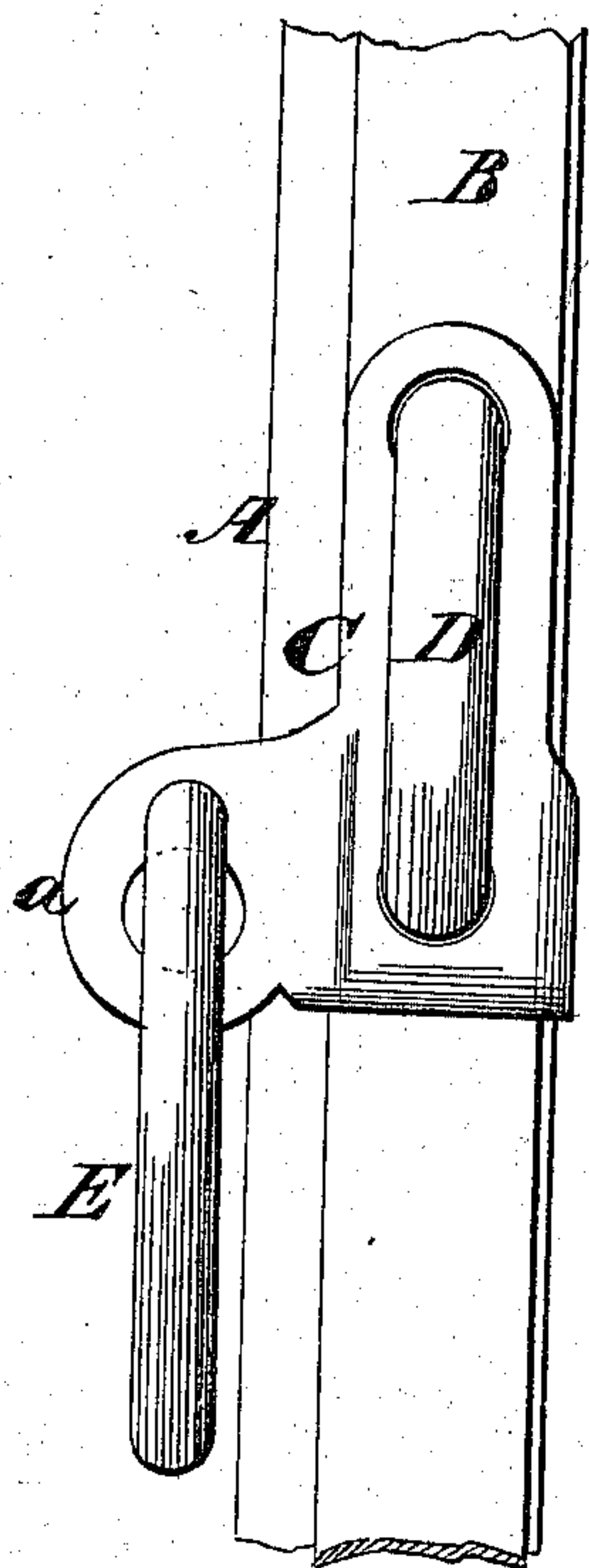


Fig. 1

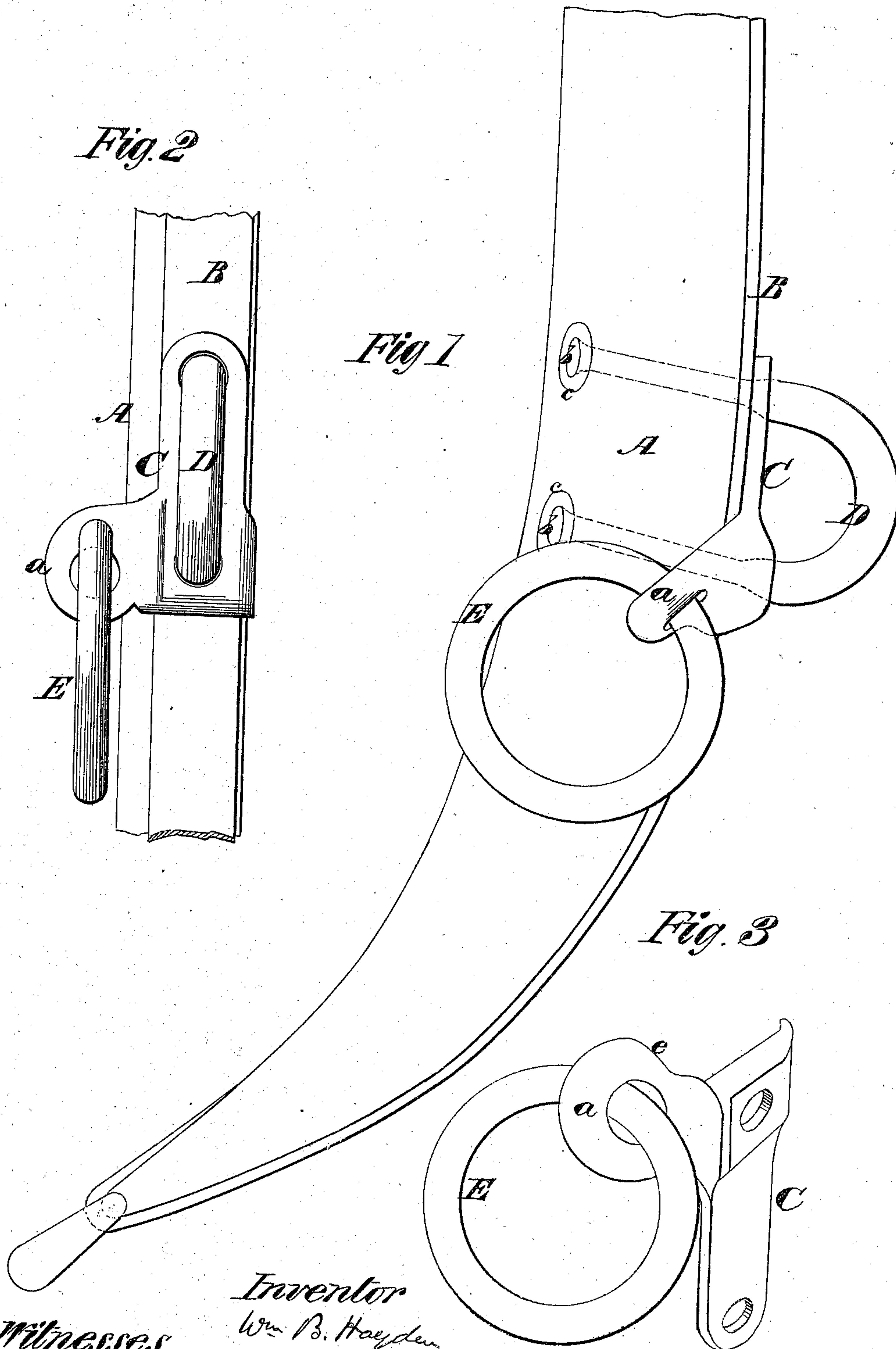
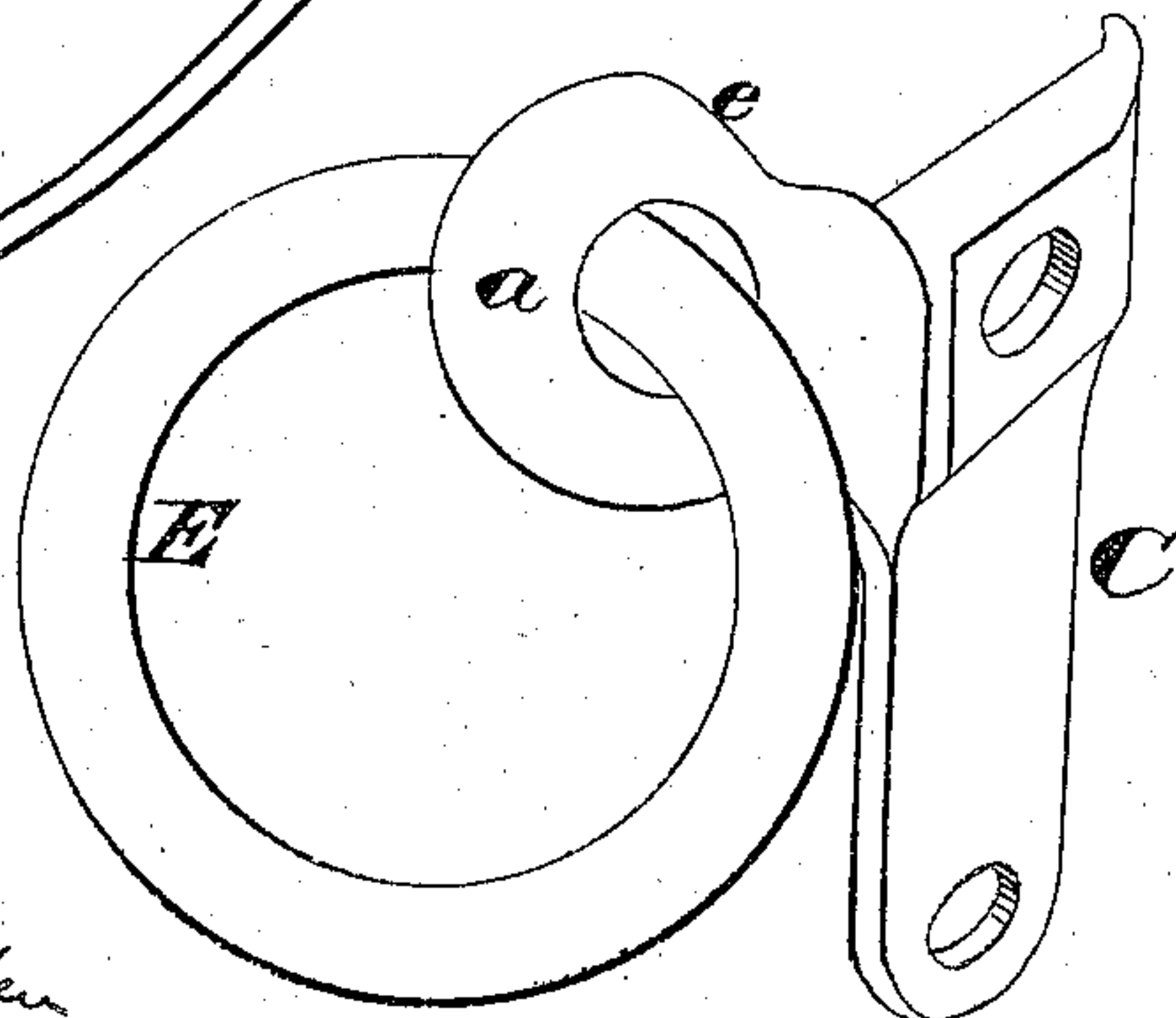


Fig. 3



Inventor

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Witnesses

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United States Patent Office.

WILLIAM B. HAYDEN, OF COLUMBUS, OHIO.

Letters Patent No. 105,679, dated July 26, 1870.

IMPROVED MODE OF ATTACHING HOLD-BACK RINGS TO HAMES.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WILLIAM B. HAYDEN, of Columbus, in the county of Franklin and State of Ohio have invented an Improved Mode of Attaching Hold-back Rings to Hames; and I do hereby declare the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing making part of this specification, in which—

Figure 1 is a view of a portion of a hame, having my invention applied to it.

Figure 2 is an edge view of the same.

Figure 3 is a perspective view of the hold-back ring and its attaching-plate.

Similar letters of reference indicate corresponding parts in the three figures.

The practice hitherto generally adopted of attaching hold-back rings to harness is to pass the stem of the eye, to which the ring is applied, through the hame from the front to the rear side, and rivet it in place. The prongs of the clip-staple are passed laterally through the hame, on opposite sides of the stem of the eye which holds the ring. The objection to this plan is, that the hame is very much weakened and frequently breaks at the point where the stem of the eye is passed through it; also, the attachment, unless it is made with the greatest care, will give way under severe strain.

The nature of my invention and improvement consists in applying the hold-back ring to a metal piece, which is secured to the edge of the hame by means of bolts, or, preferably, by means of the prongs of the clip-staple, as will be hereinafter explained.

To enable others skilled in the art to understand my invention, I will explain its construction and operation.

In the accompanying drawing—

A represents a portion of a hame, and

B, the metal strengthening-strap, which is applied to the outer edge of the hame in the usual well-known manner.

C is a plate which is constructed with a narrow flat portion, adapted to lie against the strap B, and which is also constructed with a perforated lug or eye, *a*, adapted to receive through it the hold-back ring E.

The flat portion of the plate C is perforated, to receive through it the prongs of the clip-staple D, which prongs are also passed through the strap B, and transversely through the hame, and are secured by rivets *b* and washers *c*, as shown in fig. 1. In this manner the plate C is firmly secured to the hame at the same time and by the same means employed to secure the clip-staple to the hame. The enlarged end of the plate C may be grooved, so as to partly embrace the edges of the strap B, and thereby afford a very firm hold against displacement.

The lug or eye *a* is formed on one side of the enlarged end of plate C, and that side of it which impinges against the rounded surface of the hame is shaped to conform to this surface. The lug or eye *a* is oblique to the length of the flat portion of the plate C, in order that it will hold the ring E in proper position for receiving and carrying the hold-back strap or chain.

By my improved mode of securing hold-back rings to hames, I avoid the making of holes through the hames for this purpose, which holes weaken the hames at those points where they should be strongest.

Having described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. The construction of the hold-back ring plate C, substantially as described.

2. The method of securing the plate, to which the hold-back ring is applied, to the hame, by the clip-staple, substantially as described.

WM. B. HAYDEN.

Witnesses:

JOHN H. MARTIN,
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