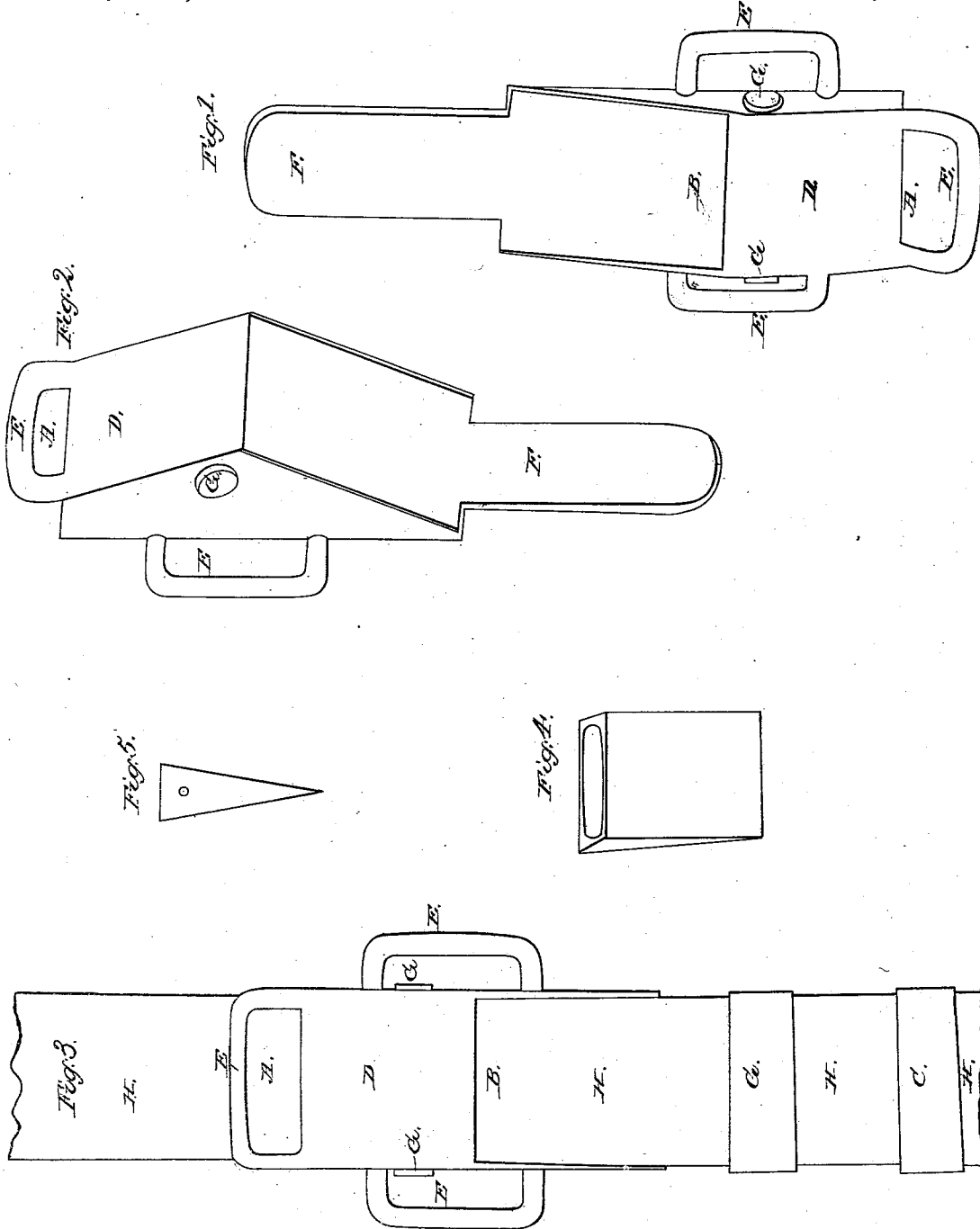


L. & J. H. Beebe,

Harness Buckle,

No. 3,001,

Patented Mar. 10, 1843.



UNITED STATES PATENT OFFICE.

LYMAN BEEBE AND JAS. H. BEEBE, OF PENFIELD, NEW YORK.

METHOD OF COUPLING STRAPS AS A SUBSTITUTE FOR A BUCKLE.

Specification of Letters Patent No. 3,001, dated March 10, 1843.

To all whom it may concern:

Be it known that we, LYMAN BEEBE and JAMES H. BEEBE, of Penfield, in the county of Monroe and State of New York, have invented a new and Improved Mode of Coupling Straps by Means of a Coupling-Box or Wedge-Buckle, and do hereby declare that the following is a full and exact description.

The nature of our invention consists in coupling straps of any width or thickness by means of a tapering or sloping box and wedge suited to the taper or slope of the box and of the length width and depth required for the strap to be coupled.

The advantages of our invention consist in coupling straps of any width or thickness so as to have the weight or power applied to the strap operate uniformly upon the entire width of the strap at the place of coupling and without perforating the strap for the entrance of the buckle tongue now in use or any other mode of coupling known or in use before our invention; and also that a strap coupled by our invention will remain sound and entire at the place of coupling as long or longer while in use as any other portion of the strap and may be more easily and readily moved in the coupling box or wedge buckle so as to lengthen or shorten the strap than when coupled by the buckles now in use or any other mode now in use or known or in use prior to our invention.

To enable those skilled in the art to make and use our invention we will proceed to describe its construction and operation.

We construct our coupling box or wedge buckle by making a tapering or sloping box open at each end of any malleable metal wrought or cast of any size or dimensions as to length width or thickness required, the under side of the box either straight or curved so as to conform to the circle of any drum shaft or wheel upon which the strap coupled may run. The opening in the lower or small end of the box is to be of sufficient depth to receive the strap. A wedge of similar metal wrought or cast of suitable dimensions and slope for the box and the underside straight or curved so as to conform to the under side of the box to be placed within the box. A rivet passes through the wedge horizontally the ends of which pass into slots or oval holes made in each side of the box of sufficient length to allow the

wedge to be moved back and forward or up and down according to the position of the box sufficient to loosen or fasten the straps which passes into and through the box on each side of the wedge if double or on one side if single. On each end of the rivets is a button of sufficient size to cover the slots or oval holes in each side of the box into which the rivet passes. The underside of the box is extended so as to make a flange to which the hame tug may be fastened by rivets when used for harness, or a loop may be used at the upper end of the underside of the box to which hame tug may be fastened.

What we claim as our invention and desire to secure by Letters Patent is—

The application of the wedge placed within a tapering or sloping box, for the purpose of coupling or connecting straps to be used in harness, belts for machinery or any other purpose.

Figure No. 1, in the drawing represents a front view of the box. Letter A, represents the small or lower end, letter B, the forward or upper end, letter G, the buttons on the ends of the rivets passing through the wedge within the box, letter D, the front or upper side of the box, letter E, the loops to receive the side straps belly band and back strap, letter F, the flange to which the hame tug is connected by rivets.

Fig. No. 2, in the drawings represents a quartering view of the box; and the letters A, B, G, D, E, and F, represent the same parts of the box as the like letters in Fig. No. 1.

Fig. No. 3, in the drawings represents a front view of the box and the hame tug and trace connected or coupled by means of the wedge and the box. Letter H, represents the trace, letter C, the loops of the hame tug, and the letters D, G, E, A and B, the same parts of the box as the like letters in Fig. No. 1.

Fig. No. 4, in the drawings represents a front view of the wedge to be placed within the box.

Fig. No. 5, in the drawings represents a side view of the wedge.

LYMAN BEEBE.
JAMES H. BEEBE.

Witnesses:

DANIEL E. LEWIS,
THEO. J. VAN NESS.