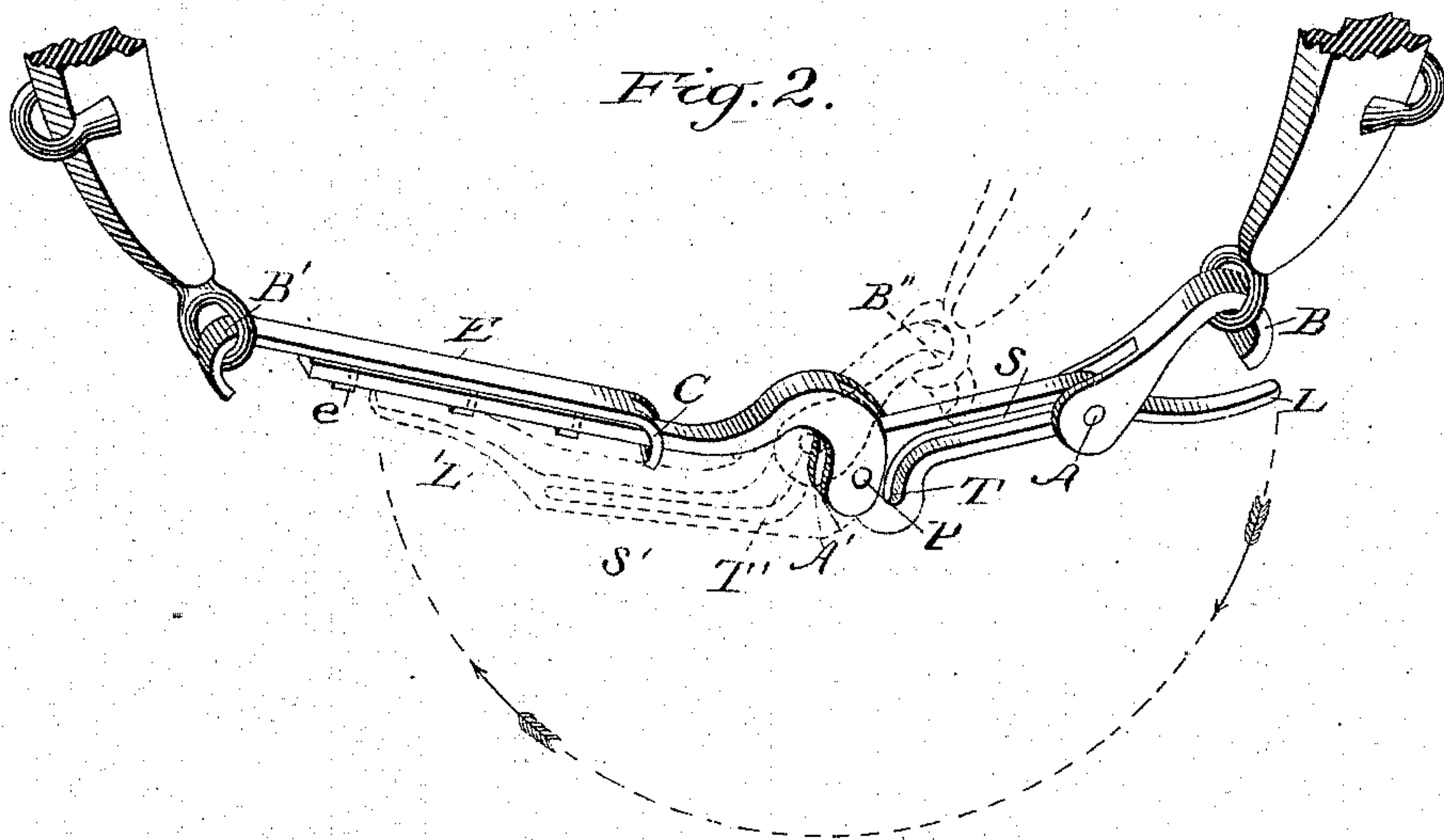
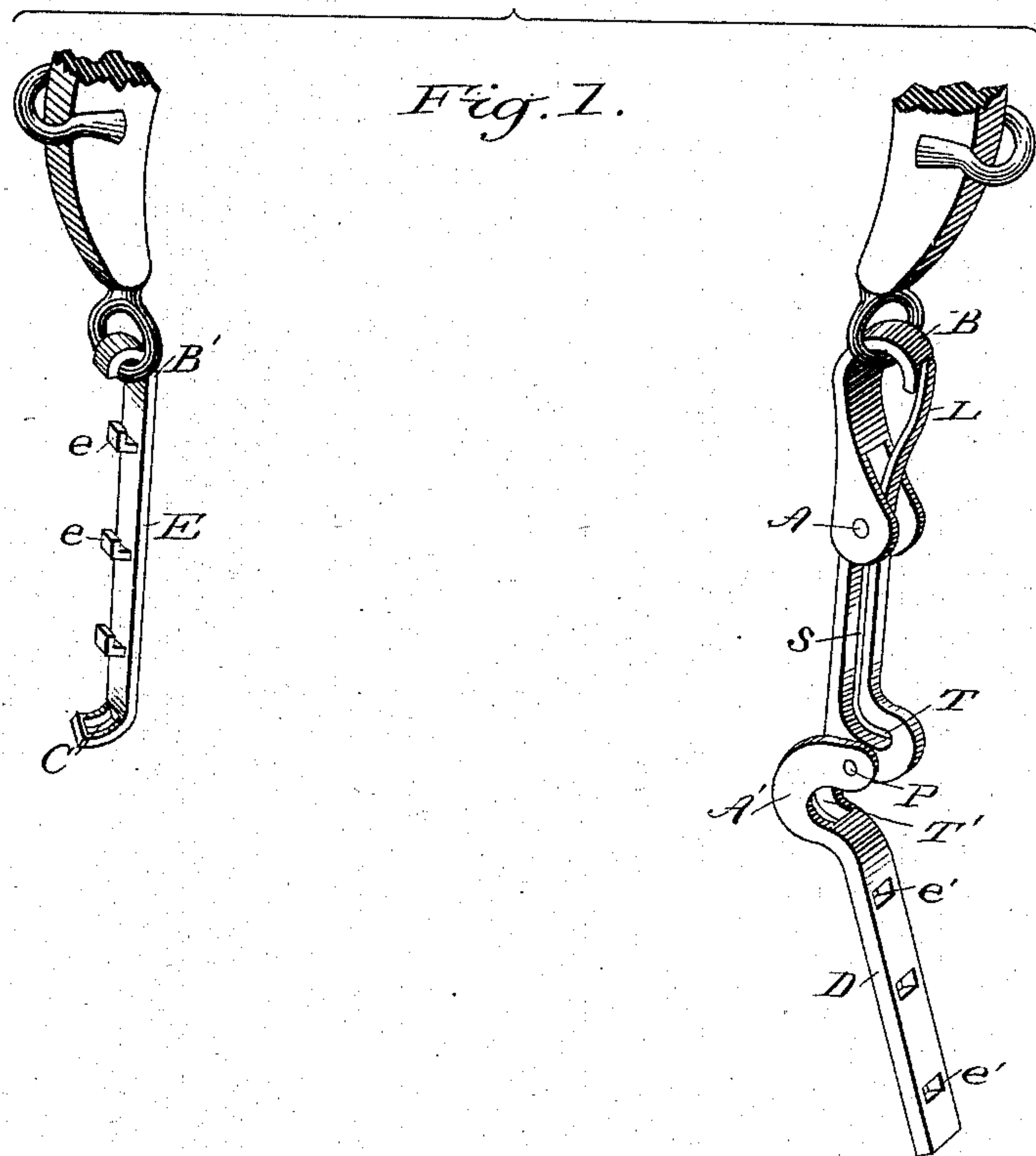


(No Model.)

E. D. FISHER.
METAL HAME FASTENING.

No. 288,322.

Patented Nov. 13, 1883.



Witnesses.

H. B. Swartz
C. A. Hartman

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Edward D. Fisher

UNITED STATES PATENT OFFICE.

EDWARD D. FISHER, OF WOOSTER, OHIO.

METAL HAME-FASTENING.

SPECIFICATION forming part of Letters Patent No. 288,322, dated November 13, 1883.

Application filed August 16, 1883. (No model.)

To all whom it may concern:

Be it known that I, EDWARD D. FISHER, a citizen of the United States, residing at Wooster, in the county of Wayne and State of Ohio, have invented a new and useful Hame-Fastener, of which the following is a specification.

My invention relates to improvements in metal hame-fasteners, wherein a lever-power is provided to draw the hames together upon a harness-collar; and the objects of my improvement are, first, to provide an extension and detachable metal coupling to unite the hames upon the collar of any size preparatory to the application of a lever-power to press the hames and collar together; second, to provide a suitable lever to act in conjunction with the detachable extension-coupling, whereby the hames may be drawn together more readily and closely and held together more firmly than in similar inventions heretofore used.

I attain these objects by the mechanism illustrated in the accompanying drawings, in which—

Figure 1 is a front view of the device embodying my invention, showing the two parts of my extension-coupling upon the lower ends of the hames, respectively, and detached from each other. Fig. 2 is a view of the same, showing the extension-coupling united, and also the lever drawn up, in dotted lines.

Similar letters of reference indicate like parts.

B B' are the hooks which connect the lower ends of the hames, respectively, with the extension-coupling. This coupling is united by introducing the bar D through the corresponding clasp, C, so that the lugs *e e e* may enter the corresponding holes, *e' e' e'*, according to the size of the collar. Adjustable coupling-bars similarly constructed have been before used.

My improvement consists in providing hooked lugs, in connection with corresponding perforations, to hold the bars together, instead of using a ring or other device to slip over the bars, as heretofore, and hold the bars together upon straight studs.

I make no claim to the clasp C as an independent member; nor do I claim, broadly, this method of coupling the bars.

The coupling-bar D is united to the lever L by the pintle P, which passes through the lower end of the lever-shaft. The lever-shaft L is united to the lower end of the coupling-hook B by means of a pin, A, which passes through a slot, S, in the lever-shaft, and constitutes the fulcrum of the lever. The slot S in the lever-shaft turns outwardly at its lower end, so as to adapt the lever-shaft to carry the fulcrum A along the slot S to T, and lodge it at T', as hereinafter stated.

The operation of my invention is as follows: The detached couplings B B' being united to the opposite hames, respectively, and the hames placed in position upon the collar, the bar D is passed through the clasp C and secured upon one or more of the hooked lugs *e e e*, in conjunction with the corresponding openings, *e' e' e'*, in the bar D, according to the size of the collar, as shown in Fig. 2. The hand is then placed upon the handle of the lever L, and the lever drawn downward in the direction of the dotted line and arrow. By this movement the fulcrum-pin A acts as a toggle-joint to draw the hames together, and as the lever approaches a vertical position the fulcrum-pin A slides along in the slot S, thereby constantly increasing the leverage, until, after passing the vertical position, the fulcrum-pin enters the curve of the slot and lodges at T, which deposits it at T' when the handle of the lever reaches L', where it rests against the shaft D, as shown by the dotted line. By this movement also the hook B is drawn toward the opposite hame, as shown at B'', while the fulcrum-pin A rests securely in the neck of the shaft D, thereby preventing the lever L' from releasing itself until it is drawn downward to unfasten the hames.

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

In a metal hame-fastener, the combination, with the extension detachable coupling-bars D E, (the bar D provided with per-

forations *e' e' e'*, and the bar E provided with the eye C and hooked lugs *e e e*, adapted to couple the bars, as shown,) of the slotted lever L, provided with curved slot S and pintle
5 *p*, and hook B, provided with the movable fulcrum-pin A, substantially as and for the purpose specified.

In testimony whereof I hereunto set my hand, at Wooster, Ohio, this 9th day of July, A. D. 1883.

EDWARD D. FISHER.

Witnesses:

E. A. HARTMAN,
M. C. ROUCH.