

(No Model.)

J. HERRINGTON.

TRACE BUCKLE.

No. 327,166.

Patented Sept. 29, 1885.

Fig. 1

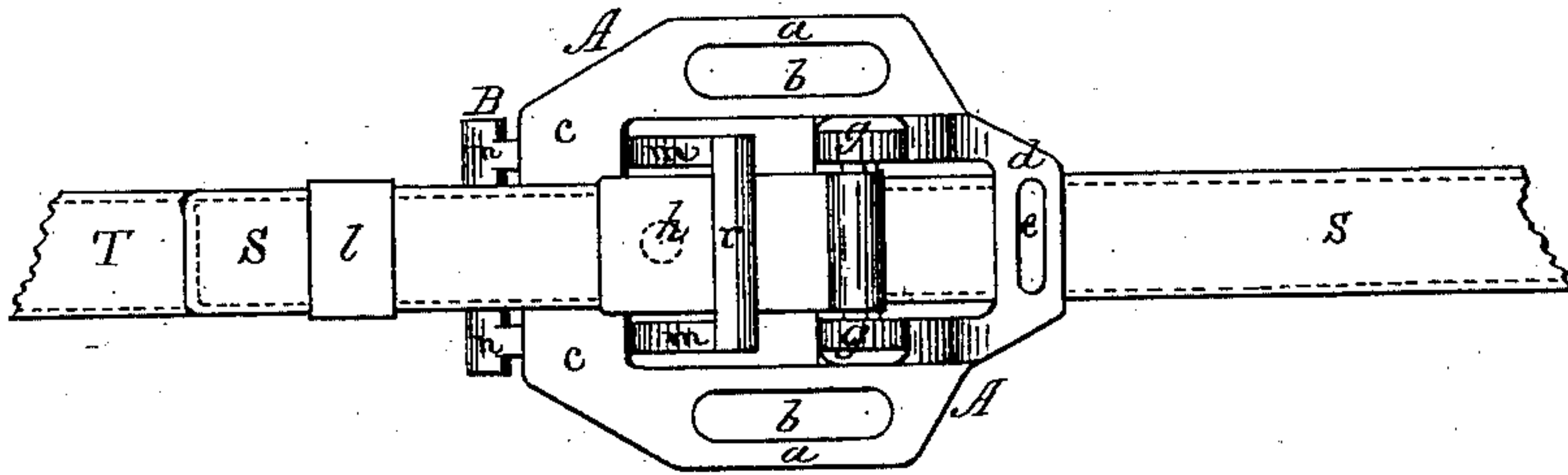


Fig. 2

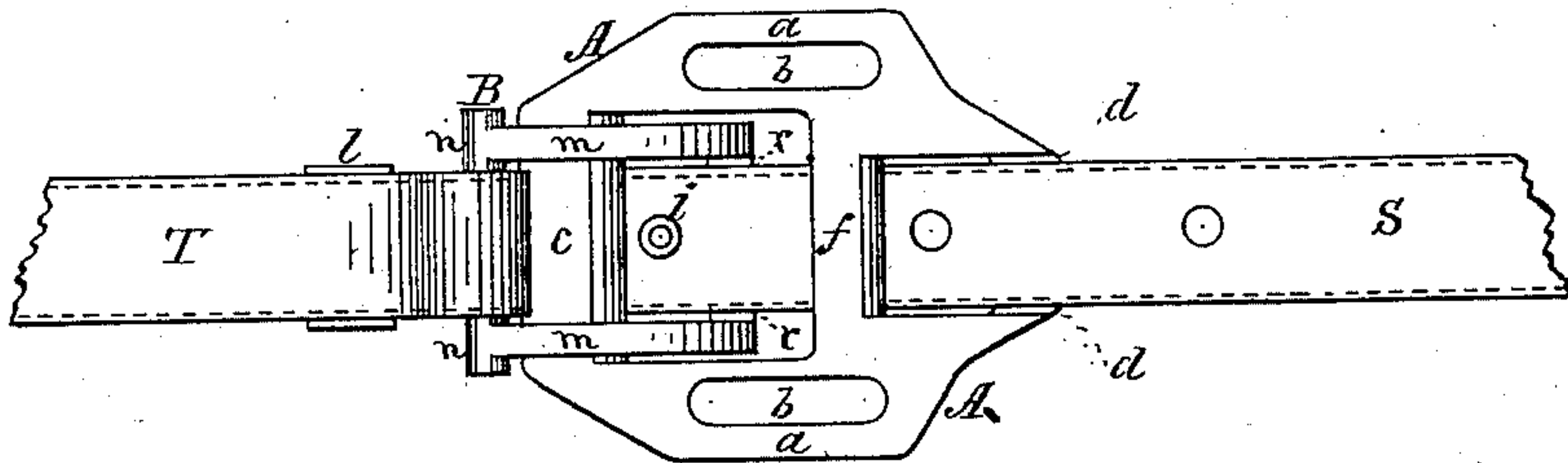


Fig. 3

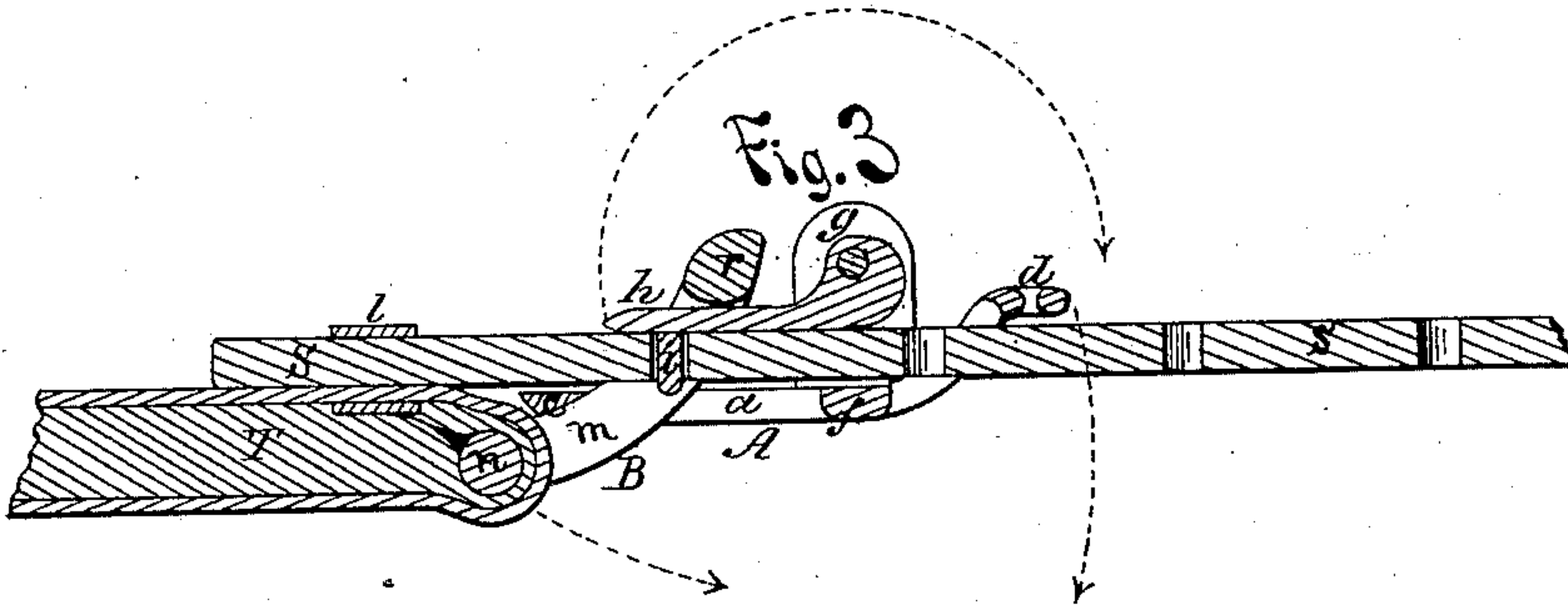
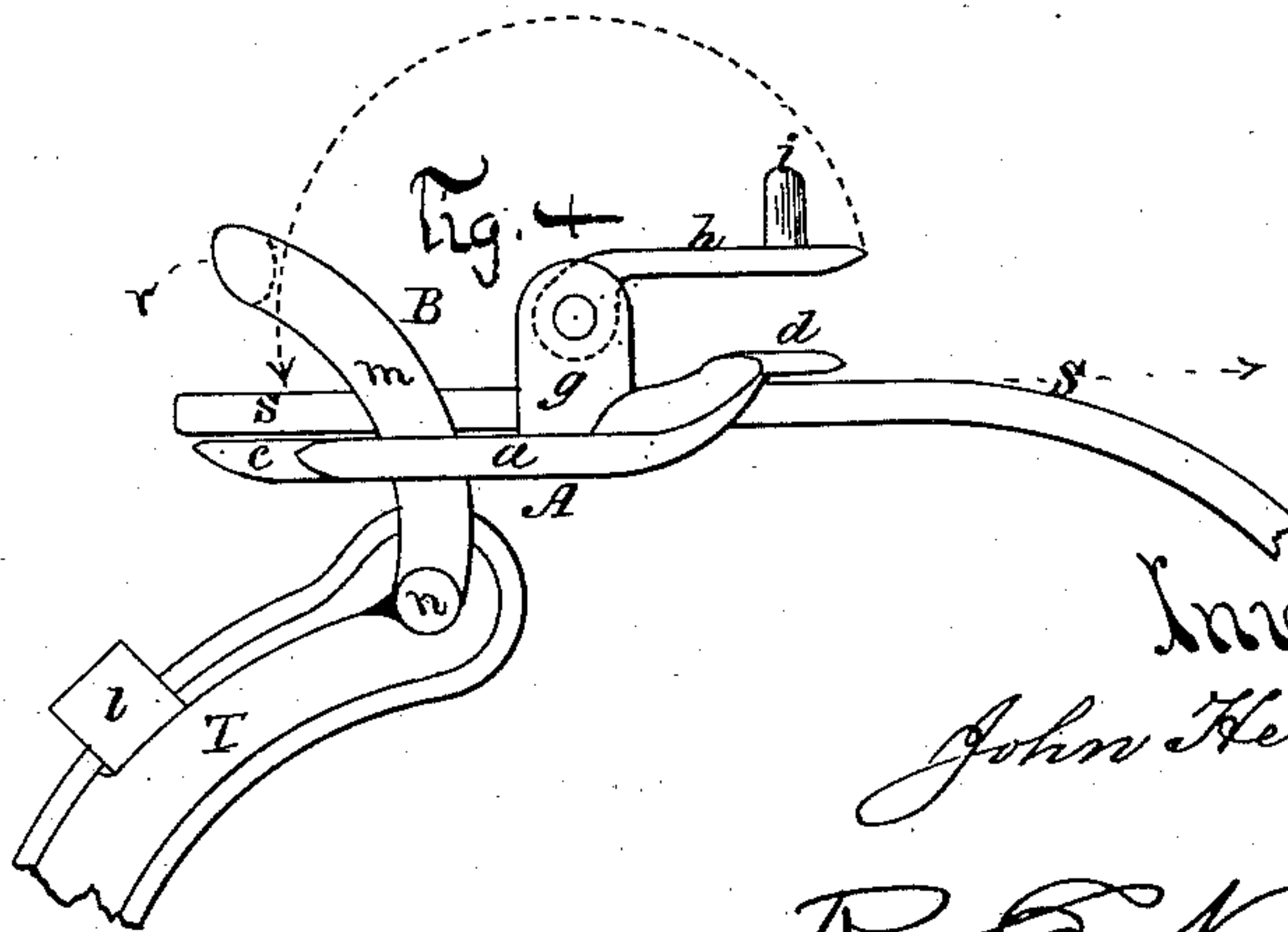


Fig. 4



Witnesses.

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TRACE-BUCKLE.

SPECIFICATION forming part of Letters Patent No. 327,166, dated September 29, 1885.

Application filed May 25, 1885. (No model.)

To all whom it may concern:

Be it known that I, JOHN HERRINGTON, a citizen of the United States of America, residing at Charles City, in the county of Floyd and State of Iowa, have invented certain new and useful Improvements in Trace-Buckles, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention is an improved trace-buckle, and embraces the following features: A buckle-frame consisting of side bars having strap-eyes and a forward, middle, and rear cross-bar, and of a tongue plate eccentrically hinged by side lugs to said frame, and having a buckle-tongue projecting inwardly and just behind the said forward cross-bar, and also a tug-link consisting of curved side bars connected by a round tug-bar and a rear link-bar, all of which and their purposes are hereinafter more fully described, and illustrated by the accompanying drawings, in which like letters designate identical parts of my invention in the different figures respectively.

Figure 1 is an outside or front view of my device, showing the tug and trace linked and buckled thereto. Fig. 2 is an inside or back view of the same. Fig. 3 is a longitudinal section of the same, and Fig. 4 is a side elevation of the same, showing the tug-link and buckle-frame pressed outwardly toward each other, the tongue-plate turned back, and the trace partially drawn from the buckle.

The letter A designates the said buckle-frame, which, together with said tug-link, is made of suitable metal formed in the shape shown, and consists of the round-edged side bars, *a*, having the strap-eyes *b*, into which to loop the side straps and belly-band, of the end bars, *c* and *d*, the latter having the strap-eye *e*, into which to loop the breech-strap, and of the middle cross-bar, *f*, which, together with the forward bar, *c*, incloses and supports the trace S, which is passed under or behind the rear cross-bar, *d*, as shown. Upon the side bars, *a*, and above the ends of said middle bar, *f*, are formed the pair of outwardly-projecting lugs *g*, between which the tongue-plate *h* is hinged, as shown, so as to have a cam-movement, which tightens the plate upon the trace, when the

tongue or stud *i* is thrust into either of its trace-eyelets. Said cross-bars *c* and *f* are made as flatly wide as possible and on the same plane, in order to firmly support the trace on an even line, when said tongue-plate is turned forward and pressed upon it, as hereinafter described.

The tug-link B consists of the curved side bars, *m*, and the end bars, *n* and *r*, around the former of which the hame-tug is looped, while the latter bar is made, by its backward-curved side bars, to be introduced between said side bars, *a*, and just behind the forward bar, *c*, of the buckle-frame and linked over the tongue-plate of the same, in order to couple the hame-tug T with said buckle A and with the trace S, as shown. When said tug and trace are buckled together in said frame and straightened out, they will press closely and evenly together forward of the buckle, and the head of said trace will remain secured within the box-loop *l* of said tug, from which and the buckle-tongue *i* nothing can displace it, except intentional removal, which manipulation is performed as follows: The tug loop-bar *n* and said frame rear bar, *d*, are together forced inward toward each other on the curve shown by the dotted lines, respectively drawn from each of said bars in Fig. 3, which combined movement simultaneously displaces the forward end of the trace S from the box-loop *l* and thrusts the tug-link B curvedly backward and outward, and the rear end of the buckle-frame A curved inward and forward, thereby causing the said parts of my device to take the positions shown in Fig. 4, when the tongue-plate *h* is turned outward and backward, which removes the tongue *i* and allows the trace to be entirely drawn from connection with said hame-tug and buckle.

Thus it will be readily seen that at least three new and useful results are accomplished by the above-described construction and arrangement of said parts of my device, namely: that all of said elementary parts are readily, easily, and firmly adjusted together; that they, when so adjusted in place, lie closely, compactly, and unobstructively together and against the harnessed animal's sides, and that said tug and trace are easily removed, when intentionally displaced from the buckle-frame, with-

out disturbing the rest of the harness, even when said animal is attached to a vehicle. Therefore

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

1. In the buckle herein described, the combination, with the frame having the strap-eyed side bars, triple cross-bars, and the eccentrically-hinged tongue-plate provided with inwardly-projecting tongue, of the hame-tug coupling-link having curved side bars, tug-looping cross-bar, and buckle-linking cross-bar, and of the trace, the head of which is passed between the link-pressed tongue-plate and the evenly level cross-bars beneath and through the hame-tug box-loop, all substantially as and for the purposes herein specified.

2. In the buckle herein described, the com-

20 bination of the strap-eyed side bars, triple cross-bars, and the eccentrically-hinged and interlocking tongue-plate, having an inwardly-projecting tongue, substantially as and for the purposes herein specified.

3. The combination, with the intercoupled and interlocking tongue-plate, as herein described, of the buckle coupling-link, having the curved side bars and rounded end bars, and of the hame-tug having the box-loop, substantially as and for the purposes herein specified.

30 In testimony whereof I affix my signature in presence of two witnesses.

JOHN HERRINGTON.

Witnesses:

SANFORD HARWOOD,
HENRY BERNHARD.