

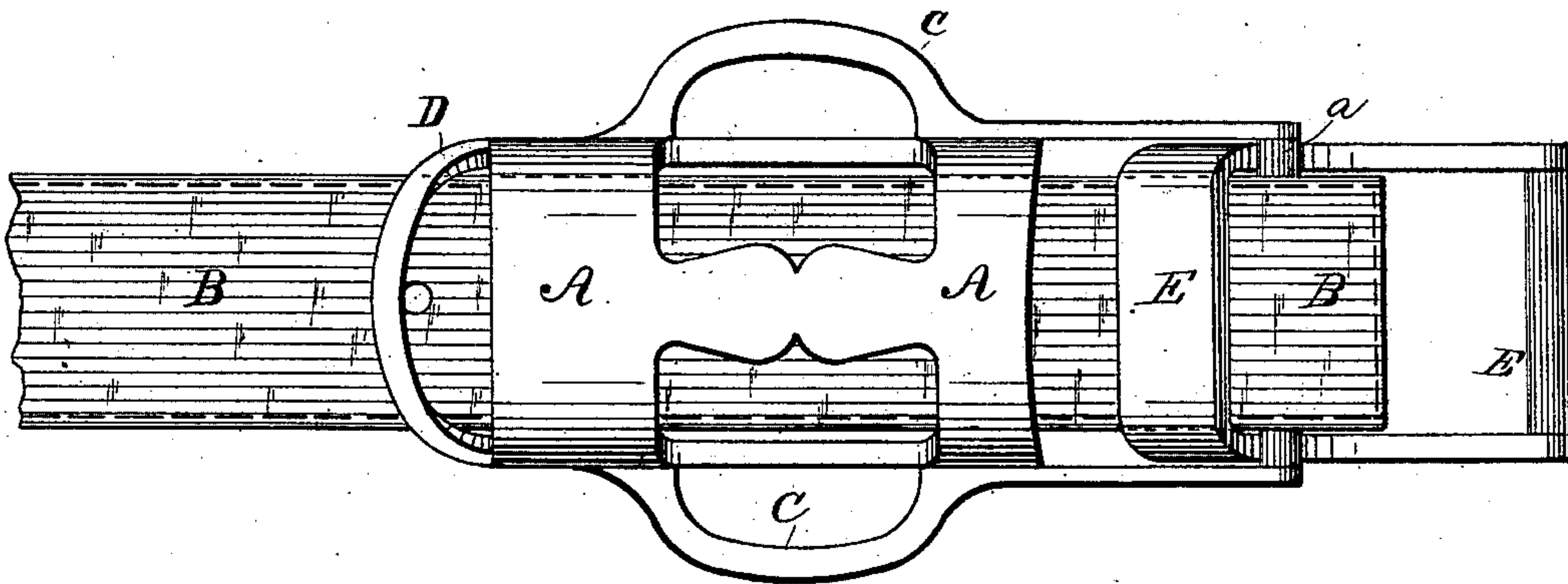
(No Model.)

J. A. GAVITT.  
HARNESS BUCKLE.

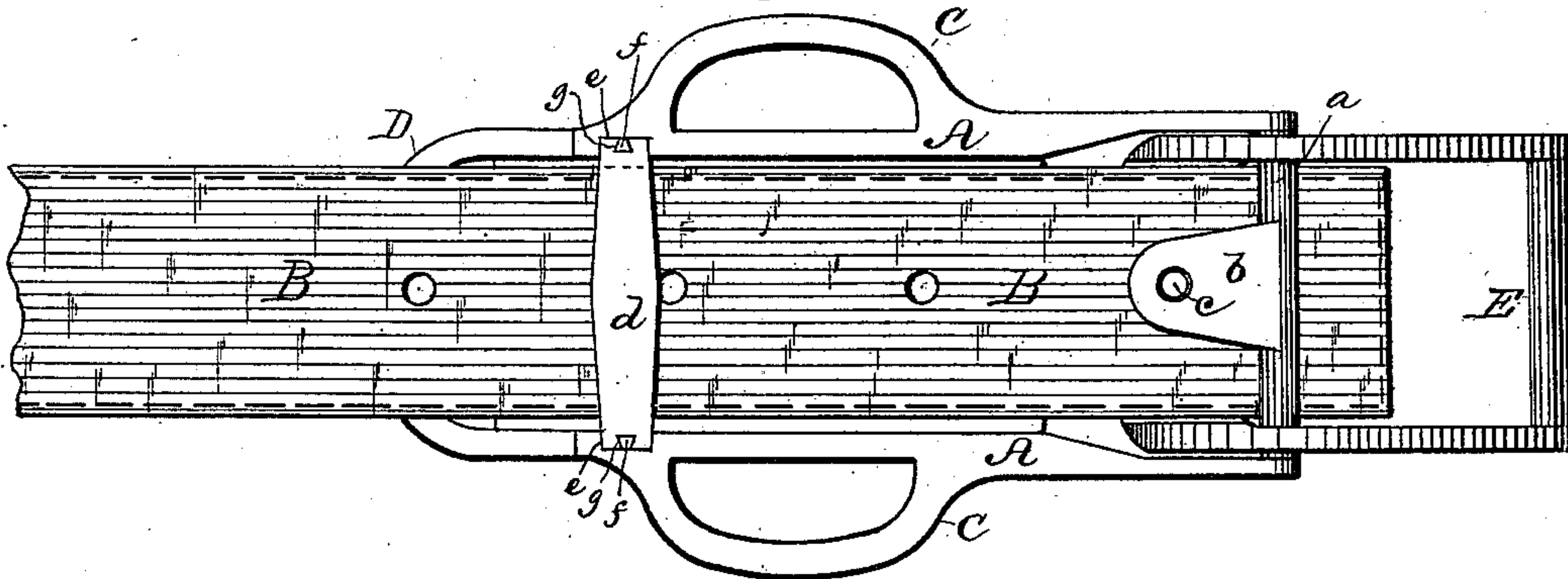
No. 299,775.

Patented June 3, 1884.

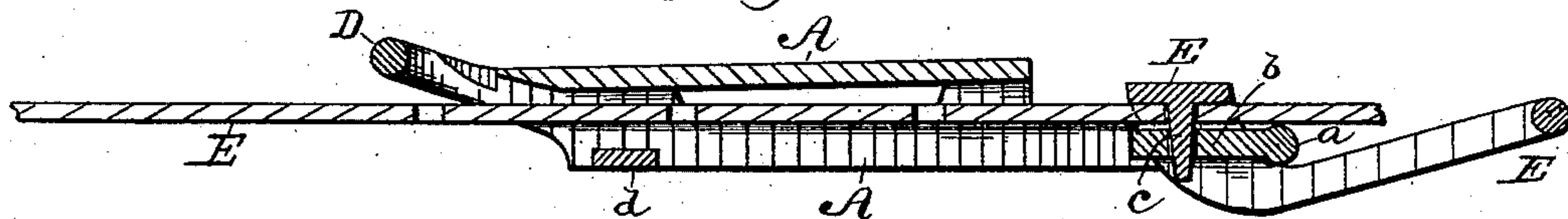
*fig. 1.*



*fig. 2.*



*fig. 3.*



WITNESSES:

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# UNITED STATES PATENT OFFICE.

JAMES ALEXANDER GAVITT, OF WALLA WALLA, WASHINGTON TERRITORY.

## HARNESS-BUCKLE.

SPECIFICATION forming part of Letters Patent No. 299,775, dated June 3, 1884.

Application filed November 26, 1883. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES ALEXANDER GAVITT, a citizen of the United States, residing at Walla Walla, in the county of Walla Walla, Washington Territory, have invented certain new and useful Improvements in Harness-Buckles, of which the following is a description.

Figure 1 is a side view of the outside of the buckle applied to the trace. Fig. 2 is a view of the opposite side of the same, and Fig. 3 is a longitudinal section.

My invention relates to harness-buckles, and more particularly to such harness-buckles as are used at the front end of the traces; and it consists in the peculiar construction of the buckle-frame and the means for connecting it to the hame-tugs, whereby a stronger connection is made and greater facility afforded for connecting and disconnecting the same, as will be fully described hereinafter.

In the drawings, A represents the buckle-frame, hollowed out underneath to receive the trace B, and having at its sides the usual loops, C C, and at its rear end the loop D. At the front end of the buckle-frame its two side bars are extended forward and connected by an end bar, *a*, having a perforated and rearwardly-projecting plate, *b*, in the middle.

E is the tug-frame, which is formed of two end and two side bars, and has its sides curved so as to pass beneath the end bar, *a*, and up through the buckle-frame, and upon this end has a downwardly-projecting stud, *c*, that passes through one of the holes in the trace and enters the perforation in the plate *b* on the end bar of the buckle-frame. The tug-frame E is adapted to connect with the hame-tugs, and when the draft-strain is brought on the same the curved side bars of this tug-frame bear against the end bar, *a*, and thus relieve the trace of wear and strain, while the stud passing through the trace is stiffened and braced by the perforated plate *b*, through which the end protrudes.

The buckle-frame A is cast of malleable iron, and is finished without any covering, being made of one piece, with the exception of the base-bar *d* on the under side. In order to permit the buckle-frame to draw from the mold, this bar is separately constructed, and its ends are set into notches *e* formed in the under side of the buckle-frame. To hold it in place the ends of this bar are formed with dovetail notches *g*, into which pass projecting spurs *f* from the notches of the frame, which spurs are hammered or riveted down into the dovetail notches *g* in the ends of the base-bar. This strengthens the buckle and affords a base for the trace to rest against.

The buckle as thus described is a very cheap and strong one, and is easily buckled and unbuckled. In unbuckling the same the tug-frame is simply turned back and under the buckle-frame A, and this draws the stud out of the trace and permits the parts to be disconnected.

Having thus described my invention, what I claim as new is—

1. The combination, with a buckle-frame, A, having end bar, *a*, of the curved tug-frame E, passing under the end bar and up through the buckle, and having the stud *c*, adapted to enter the perforations of the trace, substantially as described.

2. The combination, with the buckle-frame A, having loops C C and D and notches *e*, with spurs *f*, of the separate or independent base-bar, *d*, held in said notches and riveted by the spurs, as shown and described.

3. The combination of the buckle-frame A, having loops C C and D and end bar, *a*, with perforated plate portion, and the tug-frame E, curved as described, and having stud *c*, adapted to pass through the trace, and the perforated plate beneath, substantially as shown and described.

JAMES ALEXANDER GAVITT.

Witnesses:

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