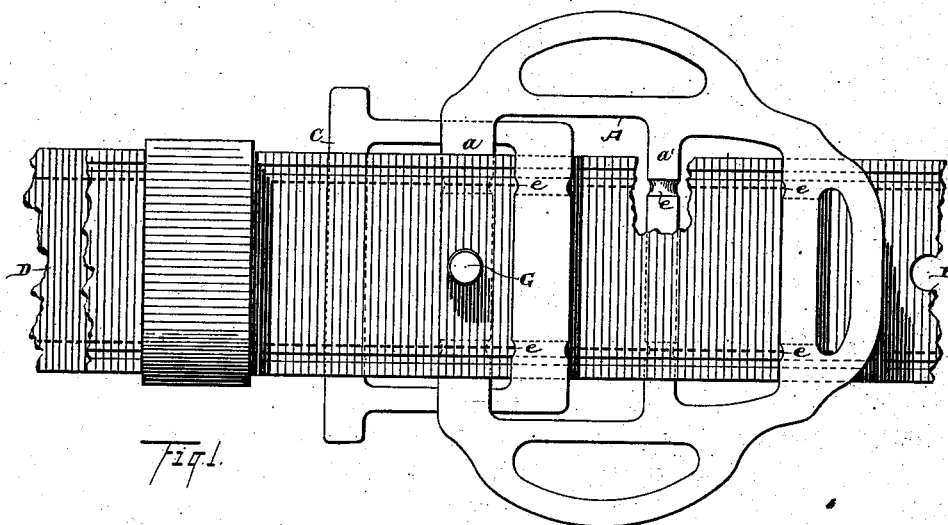


(No Model.)

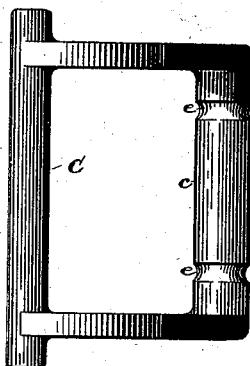
G. F. EBERHARD.  
BUCKLE.

No. 382,594.

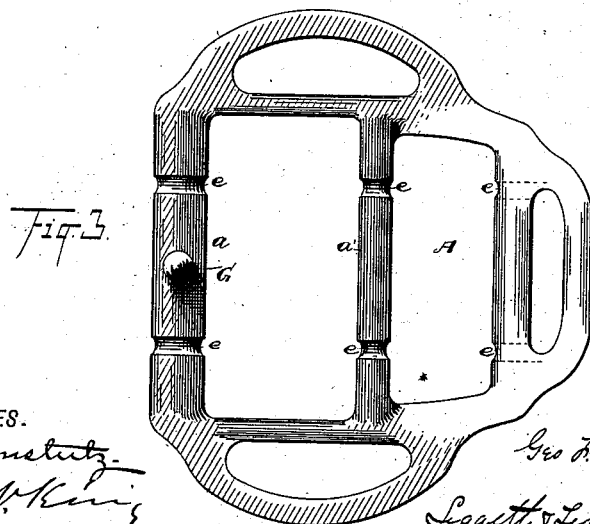
Patented May 8, 1888.



*Fig. 1.*



*Fig. 2.*



*Fig. 3.*

WITNESSES.

*W. S. Amstutz.*  
*Geo. W. King*

INVENTOR.

*Geo. F. Eberhard*  
*By*  
*Leggett & Leggett* Attorney.

# UNITED STATES PATENT OFFICE.

GEORGE F. EBERHARD, OF CLEVELAND, OHIO.

## BUCKLE.

SPECIFICATION forming part of Letters Patent No. 382,594, dated May 8, 1888.

Application filed December 27, 1887. Serial No. 259,069. (No model.)

### *To all whom it may concern:*

Be it known that I, GEORGE F. EBERHARD, of Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and  
5 useful Improvements in a Trace Buckle and Bail; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and  
10 use the same.

My invention relates to improvements in a trace buckle and bail in which the cross-bars that come in contact with the trace are grooved so as not to collide with the stitching of the  
15 trace, to the end that such stitching is not worn away, to the injury of the trace.

In the accompanying drawings, Figure 1 is a plan view. Fig. 2 is a detail of the bail, and Fig. 3 is a detail of the buckle separated from  
20 the bail.

A represents the trace-buckle; B, the trace; C, the bail, to which latter the hame-tug D is attached, the parts thus far described being in the main substantially as heretofore used.  
25 (See United States Patent No. 122,545, of January 9, 1872, granted to H. S. Woodruff.) Heretofore the objection to this variety of buckle has been that it wore the stitching of the trace,

from the fact that the trace bore heavily, more especially over cross-bars *a* and *a'* of the  
30 buckle and on the cross-bar *c* of the bail, and that there was more or less bending of the trace, causing end movement of the latter on such cross-bars. To remedy this difficulty I groove the cross-bars at *e*, where the stitching  
35 *b* of the trace would otherwise engage and rub such cross-bars. These grooves are shallow and do not materially weaken the cross-bars, and the latter, if necessary, can be made a trifle  
40 heavier where the grooves occur. In this class of buckle the tongue G (shown connected with the buckle) is sometimes omitted from this part and placed on the bail. Either construction will answer the purpose.

What I claim is—

45 A trace-buckle the cross bar or bars of which are provided with grooves, which latter register with the stitching of the trace, substantially as set forth.

In testimony whereof I sign this specification, in the presence of two witnesses, this 27th  
50 day of October, 1887.

GEORGE F. EBERHARD.

Witnesses:

CHAS. H. DORER,  
ALBERT E. LYNCH.