

(Model.)

H. W. WILSON, A. GANDY & J. R. SHUGERT.
Trace or Tug Buckle.

No. 227,938.

Patented May 25, 1880.

Fig. 1.

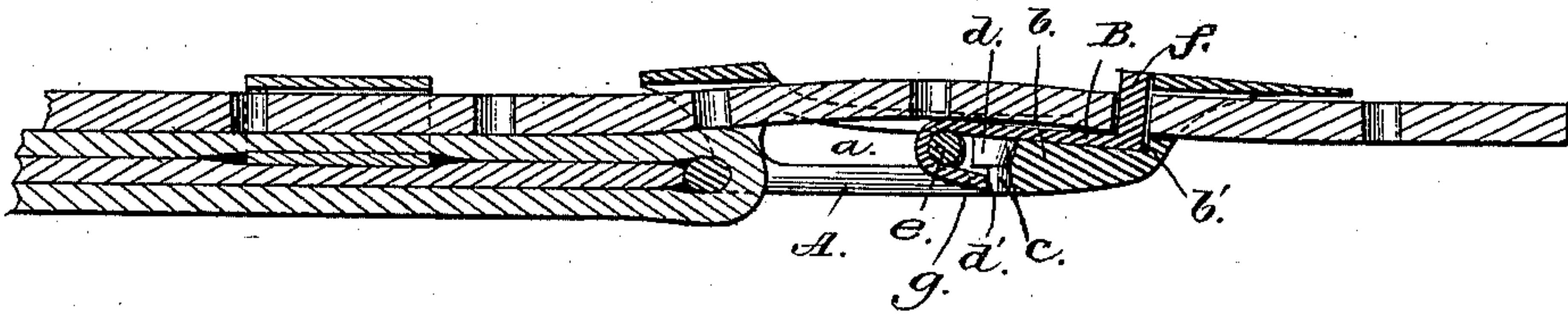


Fig. 2.

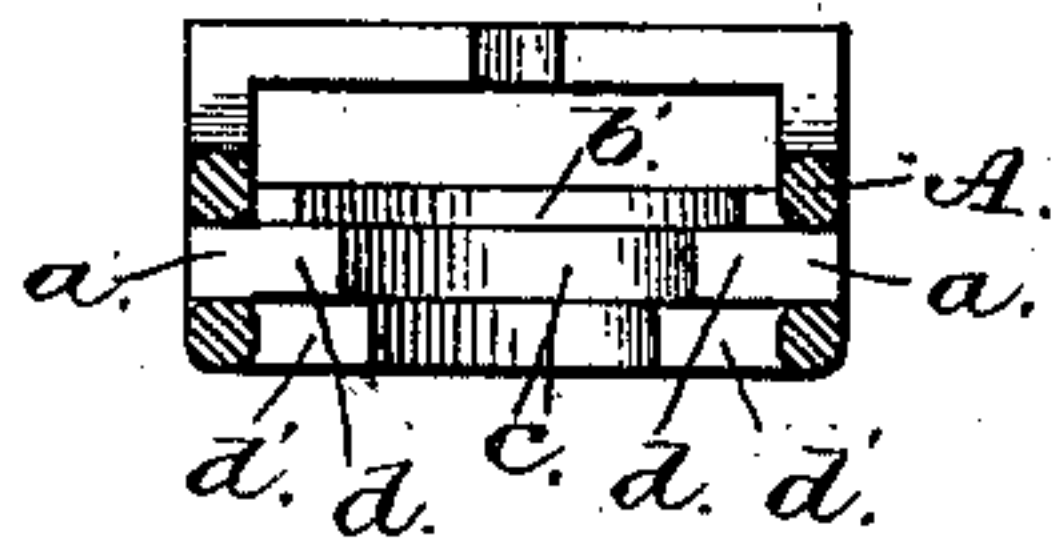
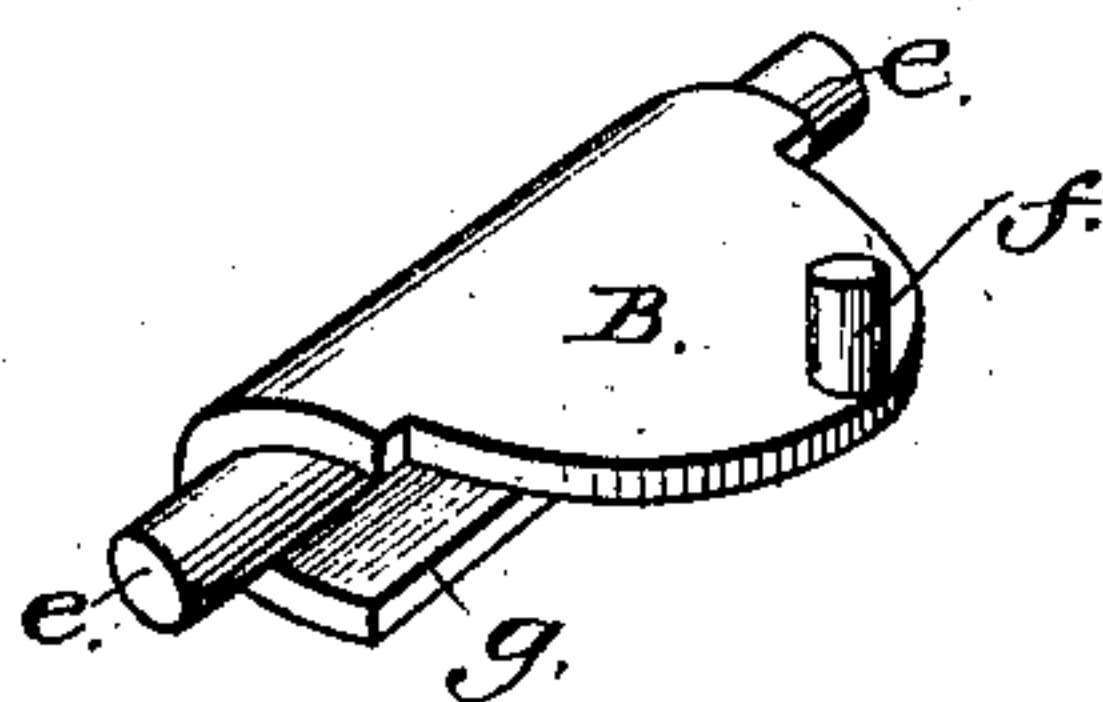


Fig. 3.



WITNESSES

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HENRY W. WILSON, ALONZO GANDY, AND JOHN R. SHUGERT, OF FREEPORT, OHIO, ASSIGNORS TO SAID SHUGERT, RUSINUS M. BLACK, AND JAMES C. CARVER.

TRACE OR TUG BUCKLE.

SPECIFICATION forming part of Letters Patent No. 227,938, dated May 25, 1880.

Application filed April 21, 1880. (Model.)

To all whom it may concern:

Be it known that we, HENRY W. WILSON, ALONZO GANDY, and JOHN R. SHUGERT, of Freeport, in the county of Harrison and State of Ohio, have invented certain new and useful Improvements in Trace or Tug Buckles; and we do hereby declare that the following is a full, clear, and exact description thereof, sufficient to enable others skilled in the art to which our invention pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which drawings—

Figure 1 is a longitudinal section of our improved buckle. Fig. 2 is a cross-section of the same, and Fig. 3 is a detail perspective view of the tongue.

The same part in the several figures is denoted by the same letter.

This invention has relation to improvements in trace or tug buckles for harness, which effect the fastening or buckling of the trace or tug in an exceedingly simple, expeditious, and effectual manner; and they consist of a frame with side slots and its forward end adapted to permit of the tongue fitting snugly therein, the tongue having its rear end formed or provided with a thumb-piece or lip, and fitting over projections on the frame-plate, substantially as hereinafter more fully set forth.

In the accompanying drawings, A is the frame of the buckle, with its side pieces provided with wedge-shaped or tapering slots *a*, to receive the lugs or projections on the tongue-plate and permit the connecting of the tongue with the frame.

The forward end of the frame A is provided on one side with a plate, *b*, having a recess or depression, *b'*, on its inner side to receive the tongue, to enable its outer surface to rest flush with the inner surface of the frame-plate *b*, and to fit snugly therein to provide for the proper passage of the trace or tug through the frame.

A semicircular or other suitably-shaped recess, *c*, is made in the rear edge of the plate *b*, to permit the withdrawal of the tongue, with

its stud or projection, from contact with the trace or tug within the smallest possible compass, or to allow the tongue and its stud to swing clear of the plate *b* within a limited space, thus avoiding the enlarging of the frame or buckle for that purpose, as is necessary in the manufacture of the ordinary buckle. The same edge of the plate *b* is provided on each side of the recess *c* with rearwardly-projecting extensions or projections *d*, to re-enforce or strengthen the forward edges of the slots in the frame, which receive the projections of the tongue. By reducing the plate *b* on one side, as at *d'*, to form these projections *d* on said plate, the outer end, or thumb-piece, or lip of the tongue is caused to fit flush with the same side of the plate *b* of the buckle-frame, still further adding to the compactness and comeliness of the buckle.

B is the tongue-plate, provided with projections or lugs *e*, fitting in the tapering or wedge-shaped slots *a* in the frame of the buckle, said plate being further provided with a tongue proper or projection, *f*, which enters any one of the holes of the trace or tug to which it may be adjusted in buckling or fastening the trace, as is well understood, and illustrated in Fig. 1.

g is a lip, or thumb or finger piece, affixed to or formed with the rear outer end of the tongue-plate *b*. By simply pressing with the thumb or finger outwardly on the piece *g* of the buckle-tongue, after first slipping the tongue-plate back sufficiently to enable its forward edge and tongue proper, *f*, to clear the recessed edge of the frame-plate *b*, the tongue-plate, with tongue *f*, can be easily and quickly withdrawn from the trace or tug, and thus permit or effect the unbuckling of the strap or trace without comparatively any appreciable trouble or delay.

To buckle the trace or strap, it is only necessary to pass the latter through the frame A the requisite distance and insert the tongue *f* of the plate B in the coincident hole in the strap, and then draw on the trace or strap until the tongue-plate is brought or wedged in between and against the plate *b* of the frame A, which will effectually lock the parts together.

This buckle is designed and adapted for use at the various points throughout harness where buckles are required.

Having thus fully described our invention,
5 we claim and desire to secure by Letters Patent—

10 A trace or harness buckle consisting of the slotted frame A, with its plate *b*, provided with a recess or depression, *b'*, on the inner side, and the rear edge of said plate provided with a recess, *c*, and projections *d*, and the tongue-plate B, provided with the projections *e* and

tongue *f*, substantially as and for the purpose set forth.

In testimony whereof we hereto affix our 15 signatures in presence of two subscribing witnesses.

HENRY W. WILSON.
ALONZO GANDY.
JOHN R. SHUGERT.

Witnesses:

THOMAS FITZGERALD,
MATTHEW M. KNOX.