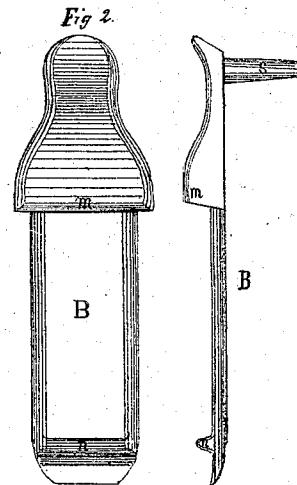
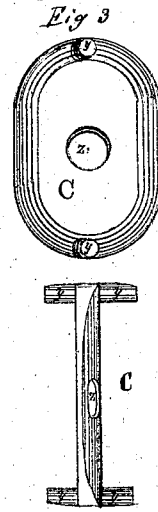
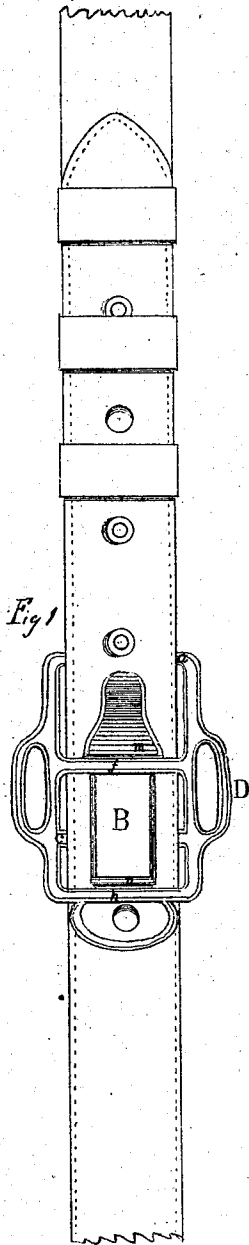


Charles S. Abeels, Improved, Tug-Fastener
and Tug Eyelet.

No. 118,326.

Patented Aug. 22, 1871.



Witnesses
James Lang
A. O. Greene

Inventor
Charles S. Abeels.

UNITED STATES PATENT OFFICE.

CHARLES S. ABEEL, OF MARSHALLTOWN, IOWA.

IMPROVEMENT IN HARNESS-TUG BUCKLES.

Specification forming part of Letters Patent No. 118,326, dated August 22, 1871.

To all whom it may concern:

Be it known that I, CHARLES S. ABEEL, of the city of Marshalltown, Marshall county, Iowa, have invented a new and useful Improvement in a Harness-Tug Fastener or Tug-Buckle and Harness-Tug Eyelet; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 of the drawing is an external view of my device in place upon the harness. Figs. 2 and 3 are details.

The figure marked A is a longitudinal section. The figure marked B is a sectional view of the sliding tongue of the buckle, and the figure marked C is a side view of the plate I insert in the tug, which I call the eyelet.

My invention relates to the manufacture of harness-buckles; and it consists in a novel construction of devices intended to serve as efficient means for connecting and adjusting the tug to the harness proper.

D of the drawing represents the main body or frame of my tug-buckle, of which the bars *a* and *c* form the inner and the bars *f* and *h* the outer

supports of the tug, in the manner shown on Fig. 1. B represents a sliding tongue formed with shoulders at *m* and *n*, and adapted to slide back and forth under the bars *f* and *h* and upon the outer side of the tug. The spur *s* is intended to pass into an opening in the tug and through the eyelet, as hereinafter mentioned. I may attach one or more additional spurs to this tongue for the purpose of securing greater stability to the fastening attachment. C represents a circular plate folded between the two strips of leather that form the tug and made secure therein by means of the spurs Y Y. The center of this plate is perforated, as shown at Z, and is placed directly in the line of an opening in the tug, through which a spur of the sliding tongue is passed.

These plates (which I call eyelets) may be multiplied at will in the construction of the tug.

I claim as my invention—

The tug-fastening apparatus herein described, consisting of the frame D, bars *a c f h*, sliding tongue B, and eyelet C, constructed and arranged substantially as specified.

Witnesses:

JAMES LANG,
A. O. GREENE.

C. S. ABEEL.