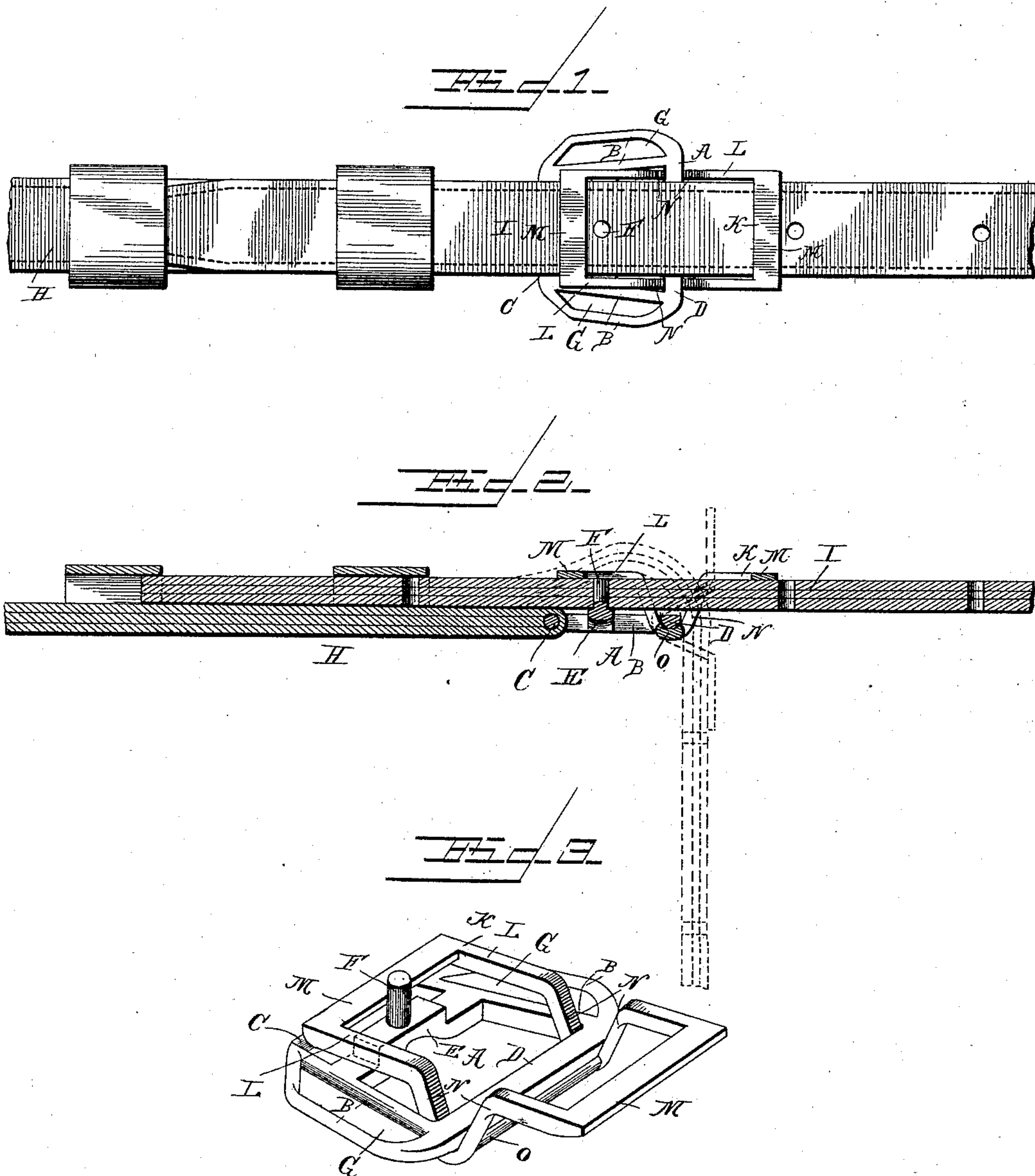


(No Model.)

J. CAIN.
BUCKLE.

No. 385,591

Patented July 3, 1888.



WITNESSES.

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UNITED STATES PATENT OFFICE.

JAMES CAIN, OF SPENCER, IOWA.

BUCKLE.

SPECIFICATION forming part of Letters Patent No. 385,591, dated July 3, 1888.

Application filed March 24, 1888. Serial No. 268,412. (No model.)

To all whom it may concern:

Be it known that I, JAMES CAIN, a citizen of the United States, residing at Spencer, in the county of Clay and State of Iowa, have invented a new and useful Improvement in Trace-Buckles, of which the following is a specification.

My invention relates to improvements in trace-buckles; and it has for its object to provide a simple, strong, durable, neat, and safe buckle which may be easily operated to engage or release the trace.

With this object in view the invention consists in a certain novel construction and arrangement of devices, fully set forth herein-after in connection with the accompanying drawings, wherein—

Figure 1 is a face view of a buckle applied in the operative position to a tug-strap and trace. Fig. 2 is a longitudinal central section of the same. Fig. 3 is a perspective view of the buckle detached from the straps.

Referring by letter to the drawings, A designates the base of the buckle, which consists of the convergent side bars, B B, the rear bar, C, the front bar, D, and the intermediate bar, E, having a stud or pin, F, at its center at right angles to the bar. Loops G G are formed on the sides of the side bars, B B, which strengthen the base of the buckle, and yet add but little to its weight. The tug-strap H is attached at its rear end to the front bar of the base, and the trace-strap I passes over the said base and is provided with perforations to engage the stud or pin on the intermediate bar.

K represents a movable plate, which comprises the side bars, L L, and end bars, M M. The side bars are provided at intermediate points with the depending loops N N, which are mounted on the rear bar of the base. The lower ends of the loops are connected by a rounded guard, O, which covers the under side of the bar C and prevents the ends of the loops from chafing the sides of the horse or draft-animal. The end bars of this movable plate bear on the outer side of the trace-strap and hold the latter pressed tightly against the base, whereby the stud or pin on the base is held in engagement with the perforations in the trace.

To disengage the trace from the buckle, turn the movable plate to a position at right angles to the base, as shown in Fig. 2, thereby lifting the strap from the stud or pin, after which the strap may be drawn out. To replace the trace on the buckle, reverse the operation.

The device is simple, light, and strong, and the surfaces which bear on the straps are rounded or otherwise arranged, so that there will be no chafing which will impair the strength of the same.

Having thus described my invention, I claim—

1. In a trace-buckle, the combination herein described of the base-plate adapted to be arranged on one side of the trace and having a stud or pin to engage a perforation therein, and the movable plate bearing on the opposite side of the trace and having depending loops engaging a transverse bar on the base-plate, substantially as specified.

2. In a trace-buckle, the combination of the base-plate having the transverse bar D and provided with the stud or pin F, engaging a perforation in the trace, and a movable plate bearing on the opposite side of the trace and having the depending loops N N passing under the bar D and connected at their lower ends by the rounded guard-bar O, substantially as specified.

3. In a trace-buckle, the combination of the base having the front bar, D, the rear bar, C, and the intermediate bar, E, provided with a stud or pin, F, and the movable plate having the end bars, M M, the side bars, L L, provided with loops N N, mounted on the rear bar, C, and the guard O, connecting the loops and covering the inner side of the rear bar, all constructed, arranged, and operated substantially as and for the purpose specified.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in presence of two witnesses.

JAMES CAIN.

Witnesses:

S. S. SNOW,

H. CHAMBERLAIN.