

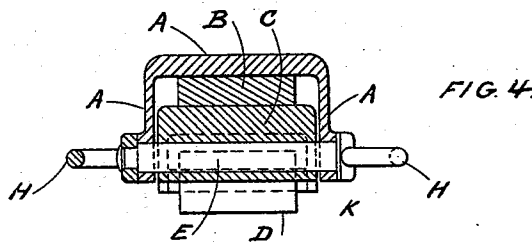
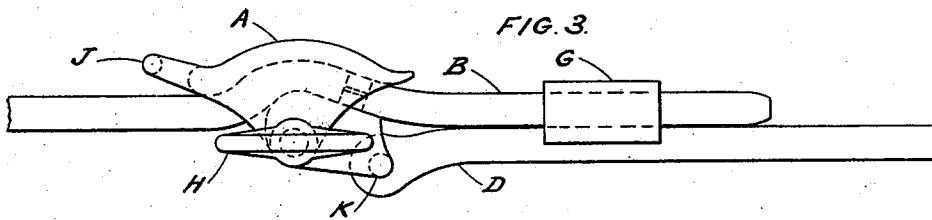
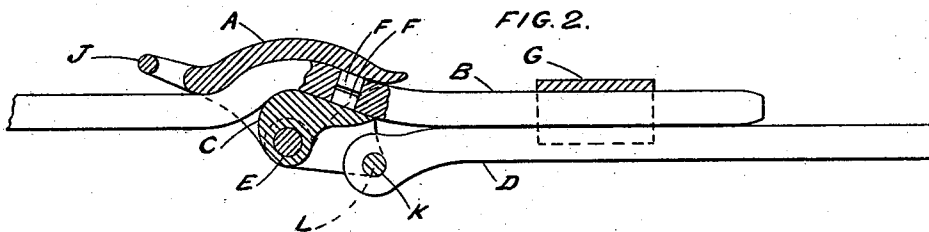
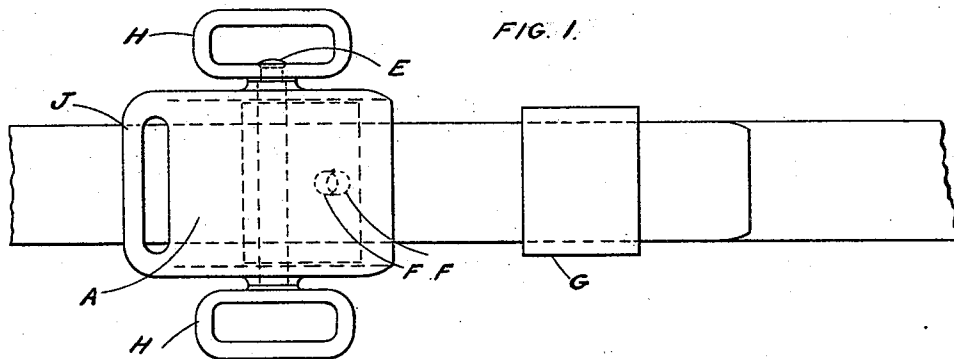
(No Model.)

F. D. CLARK.

SELF CLAMPING AND LOCKING TRACE BUCKLE.

No. 517,435.

Patented Apr. 3, 1894.



WITNESSES

B. D. Clark.
M. S. Raymond.

Franklin D. Clark
INVENTOR

By Frederick O. Clark
ATTORNEY

UNITED STATES PATENT OFFICE.

FRANKLIN D. CLARK, OF ESCANABA, MICHIGAN.

SELF CLAMPING AND LOCKING TRACE-BUCKLE.

SPECIFICATION forming part of Letters Patent No. 517,435, dated April 3, 1894.

Application filed October 23, 1893. Serial No. 438,933. (No model.)

To all whom it may concern:

Be it known that I, FRANKLIN D. CLARK, of Escanaba, in the county of Delta and State of Michigan, have invented a new and Improved Device for Clamping and Locking the Trace on a Harness to the Hame-Tug, of which the following is a specification.

My device is an improvement in trace buckles, in that it consists of a united mechanism that may be constructed so as to be ornamental, and can be quickly and firmly adjusted on the trace and hame tug, and as easily disconnected when desired.

My invention has for its object the production of a suitable mechanism for the purposes above set forth. I accomplish these objects by a combination of devices and appliances hereinafter described, and claimed, in the drawings and specification hereto attached.

In the drawings, Figure 1 is a side view of my invention, showing the eyelets and all parts of the invention adjusted to the trace and hame tug, as will appear when in use. Fig. 2 is a side view partly in section, showing the trace clamped and locked in position, with the hame tug attached. Fig. 3 is an edge view similar to Fig. 1, but showing the side pieces and the outer circular plate with the eyelets on the end of the eccentric bolt, as they will appear when in use. Fig. 4 is a central section on a line taken through the eccentric bolt E.

"A" is the outside circular plate of my invention, constructed of malleable iron, or other suitable metal.

"B" is a harness trace.

"C" is an eccentric.

"D" is a hame tug attached to eccentric "C."

"E" is the bolt which holds the eccentric in place between the side pieces which are a part of circular plate "A." This bolt allows the eccentric to revolve as it is being opened or closed. When closed, the said eccentric "C" closely clamps the trace "B" to the circular plate "A," and the said eccentric "C" is closed and locked against the trace "B," as the horse pulls upon the hame tug "D."

"F F" are tongues, which are a part of circular plate "A" and of eccentric "C," and when the eccentric "C" is locked against the trace "B" the tongues "F F" enter the holes

punched in the trace "B;" so that the tongues come together and firmly lock trace "B," and so that the said trace "B" is both clamped and locked between the circular plate "A" and the eccentric "C."

"G" is a loop formed on the hame tug "D," but is no part of my invention, and is for the purpose of holding the end of trace "B" close to the hame tug "D."

"H H" are the eyelets fastened to the eccentric bolt "E;" to one of which eyelets is attached the back strap and to the other the belly band.

"J" is an eyelet upon the end of circular plate "A," through which is attached the breeching strap.

"K" is the eyelet in the eccentric, which holds the hame tug "D" to the eccentric.

After "E" has been put in place through the sides of "A" and the eccentric "C," the said bolt "E" is firmly fastened in place by riveting eyelet "H" upon the end of bolt "E." This may be done on either end of the bolt; the eyelet on the opposite end of the bolt being cast as a part of the bolt. The eyelet thus attached to the bolt after it is in place may be affixed by a thread instead of riveting, if desired.

What I claim is—

1. The combination of circular plate "A," with its projecting side pieces, which are provided with holes to receive bolt "E;" which circular plate "A" is also provided with tongue "F;" also eccentric "C" which is provided with tongue "F;" and bolt "E," which holds circular plate "A" and eccentric "C" together; also eyelets "H H," "J" and "K," as shown and described.

2. The combination of circular plate "A," with its projecting side pieces; eccentric "C" and bolt "E," which bolt holds circular plate "A" and eccentric "C" together; circular plate "A" being provided with eyelet "J;" eccentric "C" being provided with eyelet "K" and tongue "F;" bolt "E" being provided with eyelets "H H," as shown and described.

FRANKLIN D. CLARK.

In presence of—

LOUIS E. KIEHL,
JOHN F. CAREY.