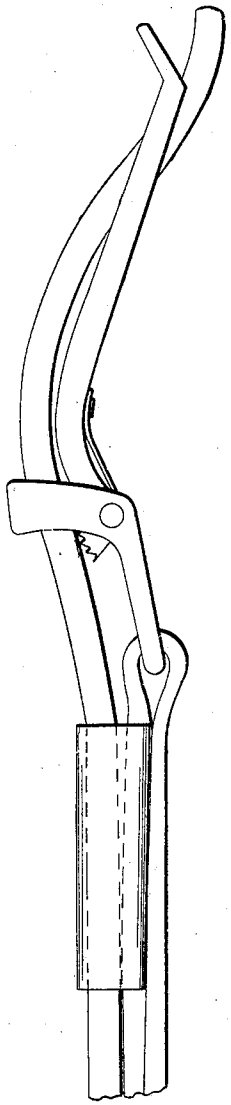
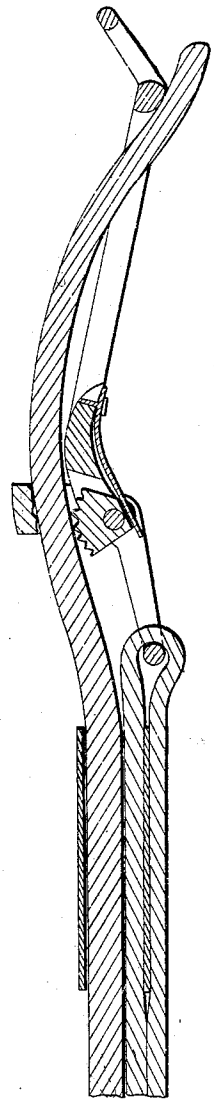
D. F. Maine,

Trace Buckle.

No. 50,017. Patented Sep. 19, 1865.



Side Elevation.



Central Section;

Witnesses;
Michael R. Goll
Mdaugh

Inventor;
David F. Maine

N. PETERS, PHOTO-LITHOGRAPHER, WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

DAVID F. MAINE, OF MANSFIELD, OHIO.

IMPROVED TRACE-BUCKLE.

Specification forming part of Letters Patent No. **50,017**, dated September 19, 1865.

To all whom it may concern:

Be it known that I, DAVID F. MAINE, of Mansfield, Ohio, have invented an Improved Trace-Buckle, of which the following is a specification.

I construct a loop for the hame-tug with the arms bent. In the elbow is the roller-pin upon which the buckle-frame plays. The hame-tug being fastened to one bar of the loop, the other is flattened into a jaw with the under surface roughened. Just beneath this jaw the frame of the buckle is solid, and so bent to meet the jaw that the two, closed together, form a perfect vise, which is closed by the natural set of the harness and gripes the trace firmly.

Upon the roller-pin to which the buckle-frame is attached is a fluted cam, held in its position by a spring. This cam plays upon the under side of the trace, and also binds it tightly, so that while either the vise or the cam alone might be deemed sufficient to hold the trace securely, the two combined in the same buckle will hold it so firmly that it is impossible for it to slip by any accident. By the use of one or both of these devices the buckle-tongue may be dispensed with. The greater the tension upon the trace the more firmly is it held by the buckle.

The advantages of this mode of fastening are—

First, it obviates the annoyance and danger attending the use of the ordinary buckle by the tongue drawing through.

Second, the trace is more readily and quickly adjusted to any desired length, while with the old buckle it can only be adjusted to fixed distances.

Third, it is not weakened by the punching of holes for buckle-tongues, at which points traces have usually given out first.

I claim—

1. The use of a vise constructed substantially as described, and for the purposes mentioned above.

2. The cam and spring, constructed and used substantially as above described.

DAVID F. MAINE.

In presence of—
M. R. DOLL,
H. NELSON.