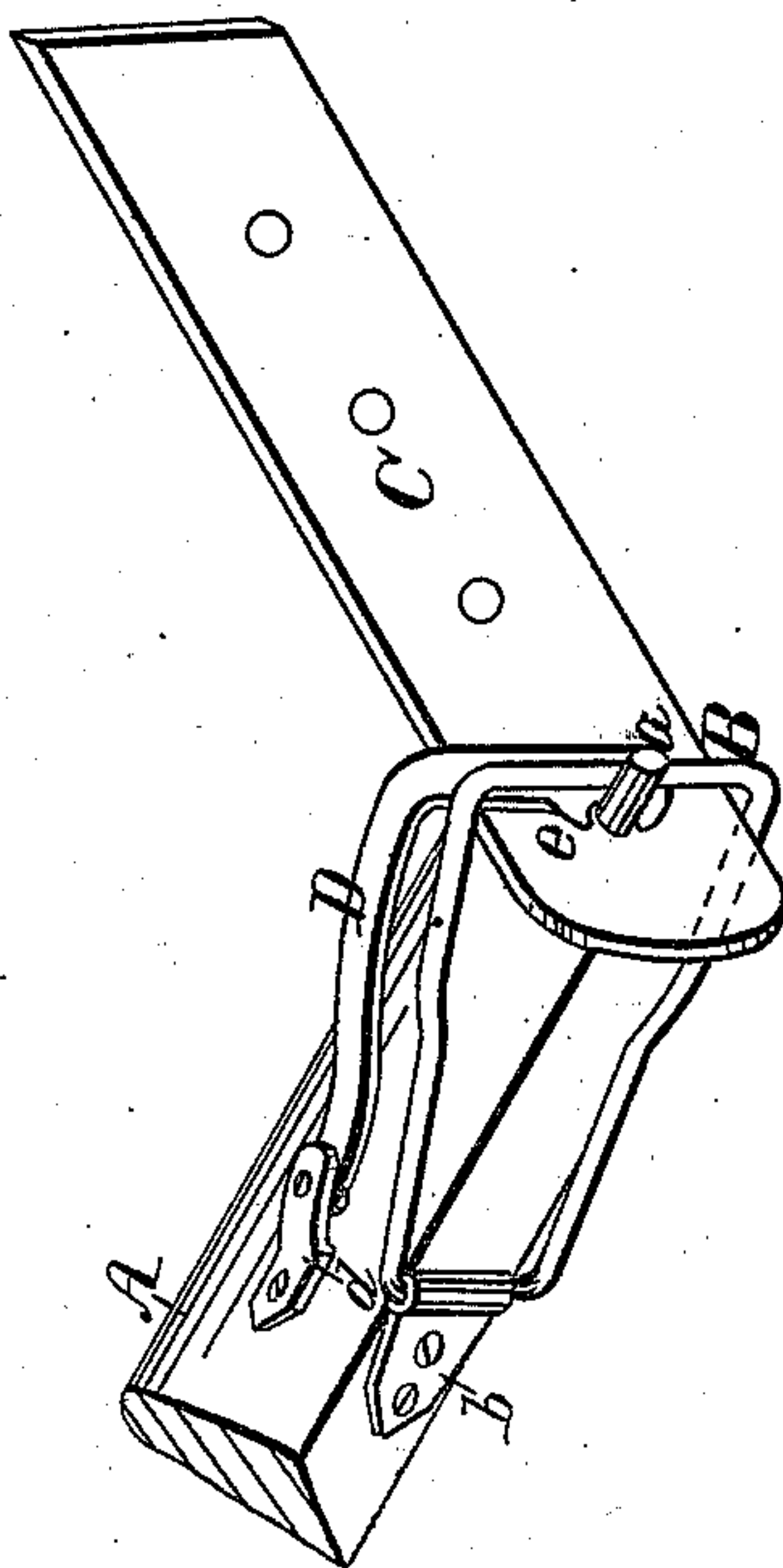


F. W. DEAN.

Whiffletree.

No. 83,476.

Patented Oct. 27, 1868.



Witnesses:

Alex. F. Roberts
Jm. A. Morgan

Inventor:

F. W. Dean

per Murray &
Attorneys



F. W. DEAN, OF TREMONT, ILLINOIS.

Letters Patent No. 83,476, dated October 27, 1868.

IMPROVED TRACE-FASTENER

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, F. W. DEAN, of Tremont, in the county of Tazewell, and State of Illinois, have invented a new and useful Improvement in Trace-Fastenings; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing, forming part of this specification, in which the figure represents a perspective view of my invention.

Similar letters of reference indicate corresponding parts.

The object of this invention is to provide a simple, efficient, and easily-operated trace-fastening.

It consists of a link, hinged to the single-tree, in such a manner that it will hold the trace from slipping off from the pin, in the end of the single-tree, and may also be moved away from the pin when the trace is to be slipped over the pin.

In the accompanying drawings—

The end of a single-tree, A, is shown, with my improved fastening, and also a modification of the same.

B is the link, hinged to the plate b, which latter is affixed to the back of the single-tree, as shown.

The link is held forward of the pin a, being too short to pass the pin.

When the trace is to be attached on the pin a, it is

passed through the link B, which is swung forward, clear of the pin, for that purpose. The trace is bent slightly, after it passes through the link, to bring it upon the pin, and the latter is slipped into one of the holes. The link is then moved back against the pin, as shown in the drawing. When in this position, it holds the trace from slipping off by accident.

A modification of the same is shown at D, which is simply a half link or hook, pivoted, by a plate, d, to the upper or lower side of the single-tree.

This link has a claw, e, which clasps against the pin, as shown.

With this half link, the trace can be slipped on the pin more easily, although the link must be made somewhat stouter, to obtain the required strength.

Having thus described my invention,

I claim as new, and desire to secure by Letters Patent—

The loop B, hinged to the rear of the single-tree A, and adapted to rest against the front side of the pin a, outside the trace, and the equivalent of the hoop B, as shown at D d and e e, all operating as described, for the purpose specified.

F. W. DEAN.

Witnesses:

W. L. ROBISON,

J. C. RAND.