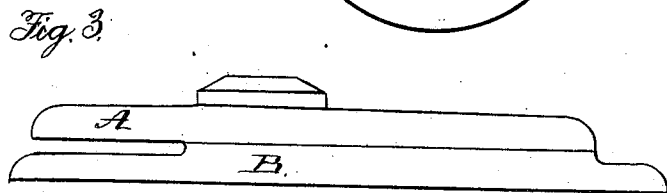
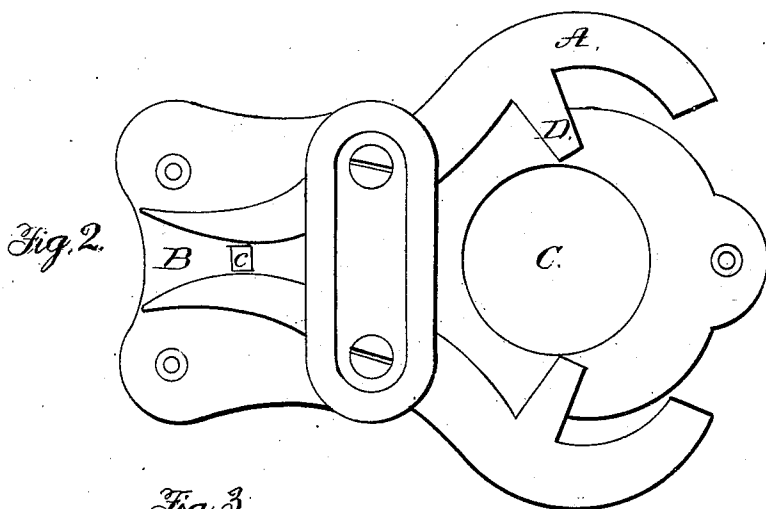
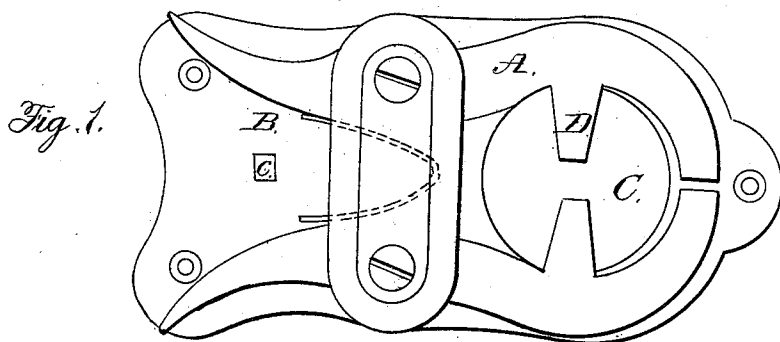


O. O. WOODRUFF.

Ox-Yoke.

No. 47,149.

Patented Apr. 4, 1865.



WITNESSES:

Refus Sanford  
Herbhard Beebe

INVENTOR:

O. O. Woodruff  
Phy. City  
John E. Carle

# UNITED STATES PATENT OFFICE.

ORVILLE O. WOODRUFF, OF KILLINGWORTH, CONNECTICUT.

## IMPROVED BOW-PIN FOR OX-YOKES.

Specification forming part of Letters Patent No. 47,119, dated April 4, 1835.

*To all whom it may concern:*

Be it known that I, ORVILLE O. WOODRUFF, of Killingworth, in the county of Middlesex and State of Connecticut, have invented a new and useful Improvement in Bow-Pins for Ox-Yokes; and I do hereby declare the following to be a full, clear, and exact description of the same, when taken in connection with the accompanying drawings and the letters of reference marked thereon, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a top view closed; Fig. 2, a like view opened, and in Fig. 3 a side view.

My invention is designed to secure the bow into the yoke. Heretofore this has been done by a pin or hook, which must be inserted and secured by the hand, and usually hung to the yoke by a chain or its equivalent. The objections to this arrangement, when compared to a self-locking pin, are too apparent to require expression.

My invention, which entirely overcomes these objections, consists in constructing two latches placed upon the upper side of the yoke so that when the bow is placed through the yoke the latches will spring into the "pin-holes" of the bow and securely hold the same in place until the latches are withdrawn.

To enable others skilled in the art to construct and use my invention, I will proceed to fully describe the same, as illustrated in the accompanying drawings.

A A are two levers hung to a plate, B, by pivots *a a*, the said plate formed with a hole,

C, of sufficient size to permit the bow to pass freely through, and is placed upon the yoke over one of the holes for each bow. One end of the said levers A is curved around the hole C, the two ends meeting, as seen in Fig. 1. The other ends of the said levers form handles by which to open the curved ends. A spring, *d*, serves to force the handle apart to close the curved ends. A stop, *e*, on the plate B, insures the equal and full opening of the levers, as seen in Fig. 2. On the curved ends of the levers A, I form a pin or latch, D D, which enters a hole in the bow when closed, as in Fig. 1, or when opened, as in Fig. 2, are withdrawn therefrom. The two pins or latches D, do not quite meet, as seen in Fig. 1, so that by forming inclines on the end of the bow a light pressure upon the bow will cause the latches to open and permit the end of the bow to pass up through; and when the bow is sufficiently through the yoke the pins or latches D will enter the hole therein and securely hold the bow. To release the bow, open the latches, as in Fig. 2, when the bow may be withdrawn.

Having therefore fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is—

The combination of the two levers A A, constructed with pins D D, substantially as and so as to operate in the manner and for the purpose specified.

ORVILLE O. WOODRUFF.

Witnesses:

JOHN E. EARLE,  
RUFUS SANFORD.