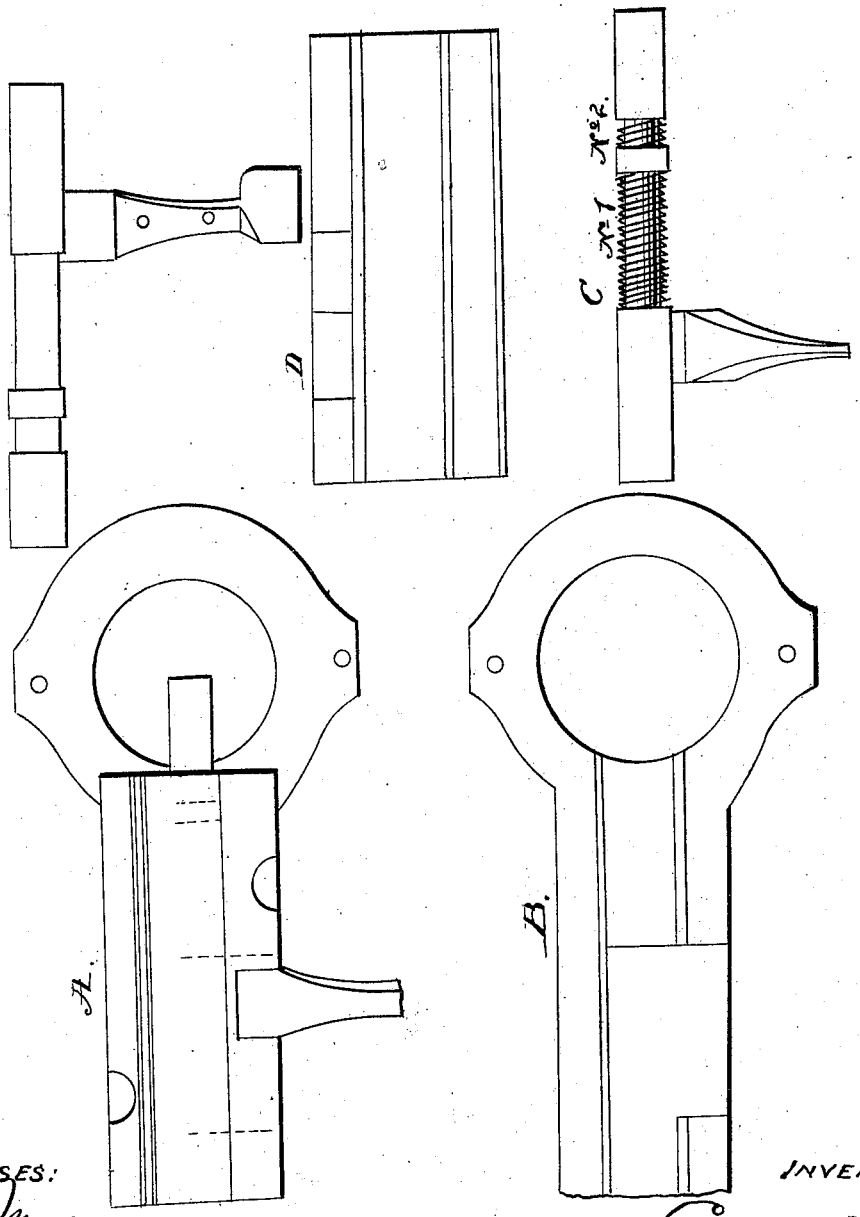
E. S. WOODFORD.

Ox-Yoke.

No. 52,923. Patented Feb. 27, 1866.



WITNESSES:

J. A. Moore

E. W. Cox

INVENTOR:

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UNITED STATES PATENT OFFICE.

ERASTUS S. WOODFORD, OF WINCHESTER, CONNECTICUT.

IMPROVEMENT IN OX-BOW PINS.

Specification forming part of Letters Patent No. **52,923**, dated February 27, 1866.

To all whom it may concern:

Be it known that I, ERASTUS S. WOODFORD, of Winchester, Litchfield county, and State of Connecticut, have invented a new and Improved Ox-Yoke Bow-Pin; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawing, and to the letters of reference marked thereon.

The nature of my invention consists in making a self-acting self-locking bow-pin.

A bed-plate of metal is made, with a groove in its longitudinal center for the pin to move back and forth, with a hole through one end, through which the bow passes when pushed through the bow-hole into the yoke, the plate being screwed onto the yoke. Into the bed-plate groove is fitted the pin. A cap-piece is fitted over the pin to keep it in its place. The end of the pin is cut angular, so that the end of the bow (being rounded or pointed) when it is pushed into the bow-hole unlocks and forces the pin back until the bow is pushed up to the hole for the pin, when the pin is pushed into the pin-hole by a spiral spring around the pin. Another spiral spring around the pin turns the pin as it enters the pin-hole in the bow, lifting the shoulder of the thumb-piece into a slot in the cap of the bolt-plate, securely locking the pin into the ox-bow.

When the bow is to be removed from the yoke a pressure downward upon the thumb-piece of the pin unlocks it, when it is easily slid out of its position in the hole of the ox-bow.

To enable others skilled in the art to make and use my invention, I will proceed to describe its construction and operation.

A bed-piece is made to be screwed to the upper surface of the yoke, with a longitudinal groove for the pin, and a hole in one end to fit the bow-hole in the yoke. A thumb-piece is attached to the bolt, and a slot in the side of the bed-piece and cap to allow it to move back and forth. Two spiral springs are wound on the bolt—one to force it into the pin-hole of the bow, the other to lock the pin into the bow. The end of the pin is cut angular, so as to be unlocked and pushed back by the entrance of the bow into the bow-hole.

A is a full view of the bow-pin. B is the bed-plate. C is the bolt or bow-pin. D is the cap. No. 1 is a spiral spring on the pin, which forces it into the hole in the ox-bow. No. 2 is a spiral spring on the pin, which turns the pin, thereby locking it into the bow.

What I claim as my invention, and desire to secure by Letters Patent, is—

The combination of the bed-plate B, the pin C, springs 1 and 2, and the cap D, as and so as to operate in the manner and for the purposes specified.

ERASTUS S. WOODFORD.

Witnesses:

J. A. MOORE,

W. KIRK.