

WARNER & SILLIMAN.

Ox-Yoke.

No 29,207.

Patented July 17, 1860.

Fig. 1.

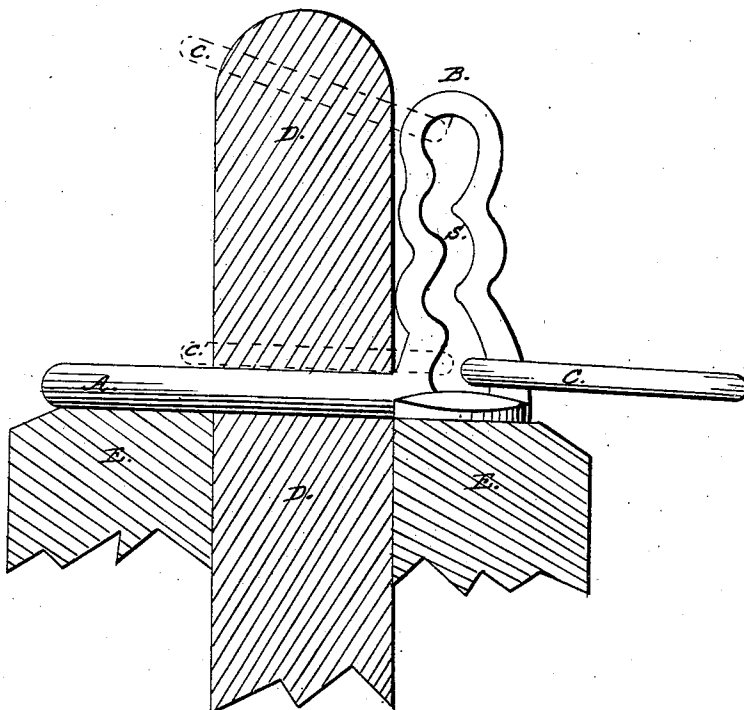
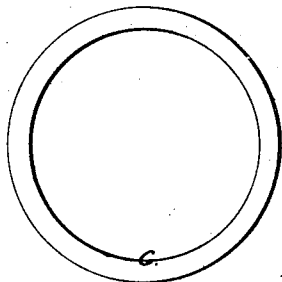


Fig. 2.



Witnesses:
Ely Warner
Geo. W. Warner

Inventor:
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UNITED STATES PATENT OFFICE.

JONATHAN WARNER AND THOMAS C. SILLIMAN, OF CHESTER, CONNECTICUT.

FASTENING PINS IN THE BOWS OF OX-YOKES.

Specification of Letters Patent No. 29,207, dated July 17, 1860.

To all whom it may concern:

Be it known that we, JONATHAN WARNER and THOMAS COOKE SILLIMAN, of Chester, in the county of Middlesex and State of Connecticut, have jointly invented a new and Improved Mode of Fastening Pins in the Bows of Ox-Yokes; and we do hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and letters of reference marked thereon, making part of this specification, in which—

Figure 1 is an external side view of the bow-pin with a sectional portion of the bow and yoke. Fig. 2 is a detached top view of the ring.

To enable others skilled in the art to understand and construct our invention we will proceed to describe it.

A represents a metal bow-pin having upon one end an upright corrugated loop or staple B.

C, represents a ring (Fig. 2 is a detached top view of the said ring C clearly showing it) linked loosely into the upright loop or staple B, and may be easily moved up and down the corrugated space S.

c' and *c''* represent different positions of the ring C.

D, D, represent a sectional part of the bow taken vertically through the center of the hole through which the pin passes.

E, E, represent a sectional part of the ox-yoke at the point where the end of the bow passes through it.

The operation is as follows: The pin is pressed into the hole made for it in the bow until the upright loop or staple touches the bow. The ring C, is then lifted up to the top of the space S, turned over the top of the bow, inclosing it as represented by *c'* and lowered horizontally down until it rests at *c''*.

By this improvement the bow-pin is easily and very securely fastened, the corrugation preventing the ring from being thrown up over the top of the bow by any sudden motion, or by any blow or pressure upon any one point where the ring touches the bow, while it does not prevent the ring from being easily removed in a horizontal position. It may also be drawn out in cases of accident (which are not uncommon) where weight is resting upon the bow, and it can be manufactured very cheaply.

Having thus described our invention, what we claim as new and desire to secure by Letters Patent is—

The method of fastening pins in the bows of ox-yokes by means of the upright loop or staple B, and the ring C, or their equivalents operating substantially as herein described and for the purpose specified.

JONATHAN WARNER.
THOMAS COOKE SILLIMAN.

Witnesses:

ELY WARNER,
GEO. W. WARNER.