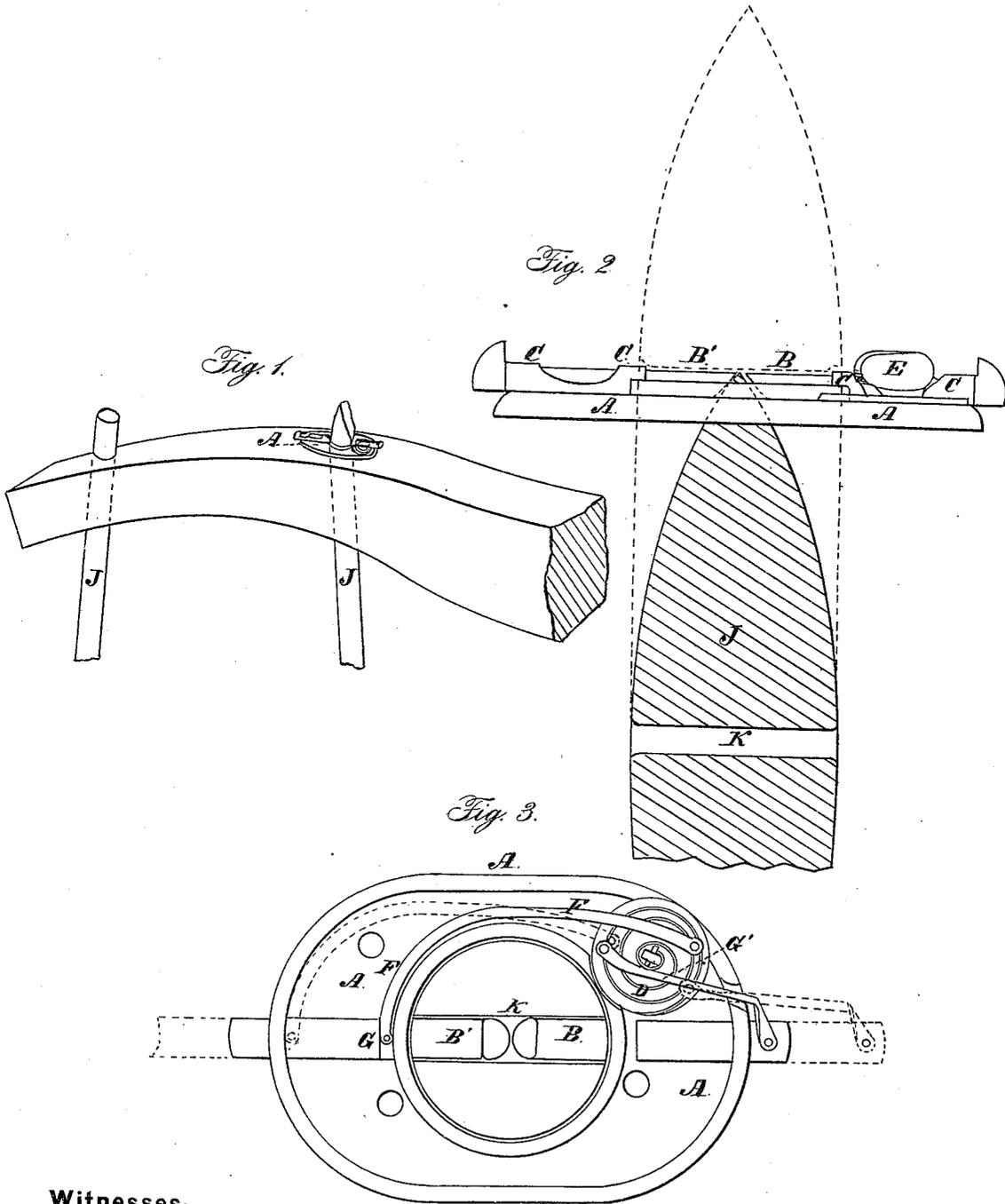


H. P. JUDSON.

Ox-Yoke.

No. 26,191.

Patented Nov. 22, 1859.



Witnesses:

Stephen Hays
Henry Davis

Inventor:

H. P. Judson

UNITED STATES PATENT OFFICE.

H. P. JUDSON, OF BETHLEHEM, CONNECTICUT.

OX-YOKE.

Specification of Letters Patent No. 26,191, dated November 22, 1859.

To all whom it may concern:

Be it known that I, H. P. JUDSON, of Bethlehem, in the county of Litchfield and State of Connecticut, have invented a new and useful Self-Locking Bolt for Ox-Yokes; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, in which—

Figure 1, represents a perspective view of one bow attached to the yoke-beam. Fig. 2, is a side view of the plate and locking device showing the manner of making the bolts self-locking. Fig. 3, is an under side view showing clearly the device for locking and unlocking the bow from the beam, the parts being represented in two positions.

The nature of my invention and improvement in self-locking bolts for ox yokes consists in a novel combination of a rotary spring disk, curved and horizontally moving bolts, arranged and operating as hereinafter shown.

To enable others skilled in the art, to which my invention pertains to understand it, I will proceed to describe its construction and operation.

By a reference to Fig. 3, my invention is exhibited applied to one half of the yoke beam and the several parts to be described is clearly shown by the enlarged figures in detail, to which I will have reference in the following description.

A represents a plate inclosing the parts for actuating the two bolts B, B', which play in guards C, C, which may be cast with the plate A. In the center of this plate is a hole, through which passes the pointed end of the bow. This hole is sufficiently large to admit the end of the bow which is to be locked. These bolts B, B', are in the same axial line, and approach, and recede from each other simultaneously, meeting in, or near the center of the circular opening in plate A, and consequently in the center of the stem of the bow, when inserted therein.

The operation of the bolts is effected by the following device: By reference to Fig.

3, which shows the bottom of the plate A, D, is a rotary disk containing a coiled flat spring which is indicated by red lines. This disk D, which is recessed in the plate A, has a square stem passing through it and to which is attached a knob E, shown in Fig. 2; on the outside of the plate A is a curved rod F which is pivoted to one side of the disk D, and passes to the bolt B', to which it is connected by a pivot joint G.

G', is a shorter rod which is also pivoted to the disk D, but connects with the bolt B. These connections are so made that the action of the spring upon both the bolts is simultaneous, and by turning the thumb piece or knob E, the bolts will both be opened as represented by Fig. 3, and indicated by red lines.

One end of the bow J, is tapered on each side up to a point, as clearly shown by Fig. 2, the taper commencing just above the hole K, which hole passes through the end of the bow and is sufficiently large to admit the bolts to enter readily. The object of thus tapering the end of the bow is to effect the self locking principle and by beveling the ends of each bolt, as shown by Figs. 2, and 3, the pointed bow will act like a wedge in pressing it between the ends of the bolts, and thus open the bolts and allow the end of the bow to enter the hole in the beam until the hole K, is opposite the ends of the bolts, when they will simultaneously spring into it, and lock the bow to the yoke beam.

The yoking up of cattle with this device applied is rendered very simple, and can be accomplished with great rapidity while at the same time the device is simple, strong and durable.

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

The arrangement of the peculiar rotary spring disk D, curved rods F, G', and horizontally moving locking bolts B, B', as and for the purpose herein shown and described.

H. P. JUDSON.

Witnesses:

STEPHEN HAYES,
HENRY DAVIS.