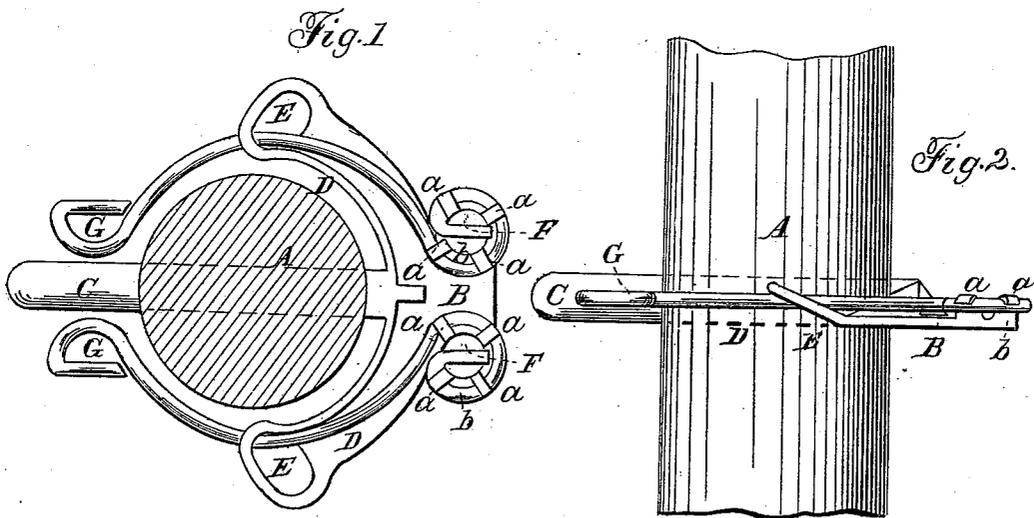


H. P. JUDSON.

Ox Bow Pin.

No. 84,831.

Patented Dec. 8, 1868.



Witnesses.

Samuel C. ...
Joshua Birel

Inventor

Henry P. Judson



HENRY P. JUDSON, OF BETHLEHEM, CONNECTICUT.

Letters Patent No. 84,831, dated December 8, 1868.

IMPROVEMENT IN OX-BOW PIN.

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, HENRY P. JUDSON, of Bethlehem, in the county of Litchfield, and State of Connecticut, have invented certain new and useful Improvements in Ox-Bow Pins; and I do hereby declare that the following is a full, clear, and exact description thereof, whereby a person skilled in the art can make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Like letters in the figures indicate the same parts.

Figure 1 shows a top view of my improved pin when attached to the bow.

Figure 2 shows a side view of the same.

My invention consists in a self-acting spring ox-bow pin, which can be placed upon or removed from the bow in the usual manner, and be securely attached while in use, by means of the wire springs on the sides, constructed and attached to the centre-pin or key, in the manner herein described.

A is part of the bow through which the pin passes.

B is a cross-head, formed in one piece, of cast or wrought-metal, with the pin C.

To this head are attached the side springs D D, which pass through the openings E E, to support them and key them in place.

The springs D D are bent round, in the form shown in the drawings, and secured, at F, by means of the clips *a a a a*, which are bent down over the wire of the spring after it has been placed in the proper position upon the circular portion, *b*, of the cross-head.

At G the wire is bent into a loop of the proper form to ride over the sides of the bow when the pin C is pressed into the hole bored to receive it.

The operation of my invention is as follows:

When it is desired to place the pin in the bow, the point of C is placed in the hole and the pin pressed in. The parts G G ride over the surface of the bow and separate the springs D D.

When the bow and pin are in the position shown in the drawings, the springs close and retain the pin in its place in the bow.

When it is desired to remove it, a pull upon the end, B, separates the springs and withdraws the pin.

Claims.

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

1. The self-acting wire side springs D D, when constructed and arranged as described, in combination with the pin C and cross-head B, substantially in the manner and for the purpose set forth.

2. The peculiar method, herein described, of attaching and supporting the side springs D, consisting of the pipes F and hooks *a*, in combination with the cross-head B and loops E, as and for the purpose specified.

HENRY P. JUDSON.

Witnesses:

SAM'L CASH,
JOSHUA BIRD.