

R. VOSE.

Clamp-Bands for Elliptic-Springs.

No. 155,817.

Patented Oct. 13, 1874.

Fig 1.

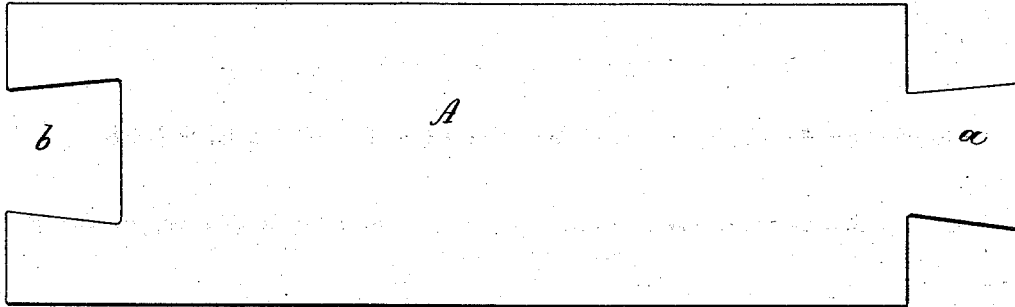


Fig 2.

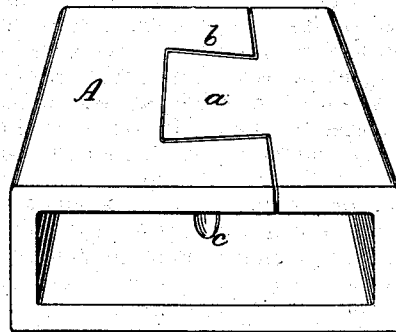
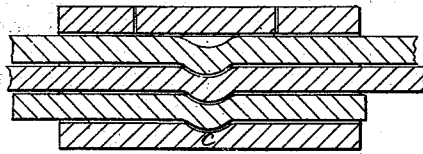


Fig 3.



Witnesses

Wm. B. Levi.

B. S. Clark.

Inventor

Rich. Vose.

UNITED STATES PATENT OFFICE.

RICHARD VOSE, OF NEW YORK, N. Y.

IMPROVEMENT IN CLAMP-BANDS FOR ELLIPTIC SPRINGS.

Specification forming part of Letters Patent No. **155,817**, dated October 13, 1874; application filed September 17, 1874.

To all whom it may concern:

Be it known that I, RICHARD VOSE, of the city of New York, in the county and State of New York, have invented an Improvement in Band-Clamps for Elliptic Steel Springs, of which the following is a specification, reference being had to the accompanying drawings, forming part of the same, in which—

Figure 1 is a side view of a bar of steel or iron, cut into the shape required to form my improved clamp. Fig. 2 is a perspective view of the said clamp; and Fig. 3 is a central section of the same, with several pieces of the leaves of the spring, to which my clamp is applied.

My invention relates to a clamp for binding together at the centers two or more leaves of an elliptic steel spring, the said clamp being formed of a single piece or bar of steel or iron bent to clasp the leaves of the spring, the ends of said bar being locked together by a dovetailed joint, and then being formed on the inner surface of the clamp, an indentation to receive a projection formed on the adjacent face of the leaf of the spring, whereby a number of leaves may be bound together, and the clamp prevented from moving from its seat at the center of the spring.

A is a bar of steel or iron, of a suitable width and thickness for the purpose, and of a length, when bent into the form shown in Fig. 2, to clasp and fit snugly upon the several leaves of a spring, to which it is intended as a clamp to be applied. Upon one end is formed a tongue, *a*, and at the opposite end a

corresponding groove or notch, *b*, the former being designed to fit into the latter. In the center is preferably formed a depression, *c*, by striking the metal down at that point by a suitable die and punch. Corresponding depressions are made in the several leaves of the spring, as shown in Fig. 3. This bar is bent into the form shown at Fig. 2, the tongue *a* being forced into the notch *b* while the bar is hot, the several leaves of the spring being previously arranged across the center of the bar, as seen in Fig. 3.

In place of the depression *c* a projection may be formed to fit into a depression in the spring.

It is evident that a firm, secure clamp is thus formed very cheaply and readily of a single piece of iron or steel.

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

1. A clamp for elliptic springs, formed of a single metallic bar, the ends of the bar being locked together by a dovetailed joint, as and for the purpose described.

2. The combination of a clamp formed of a single piece of metal, and having the dovetail lock *a b* and projection *e*, with the depression *c* in an elliptic spring, as and for the purpose specified.

Witness my hand this 15th day of September, 1874.

RICHD. VOSE.

Witnesses:

JOSEPH C. LEVI,
B. S. CLARK.