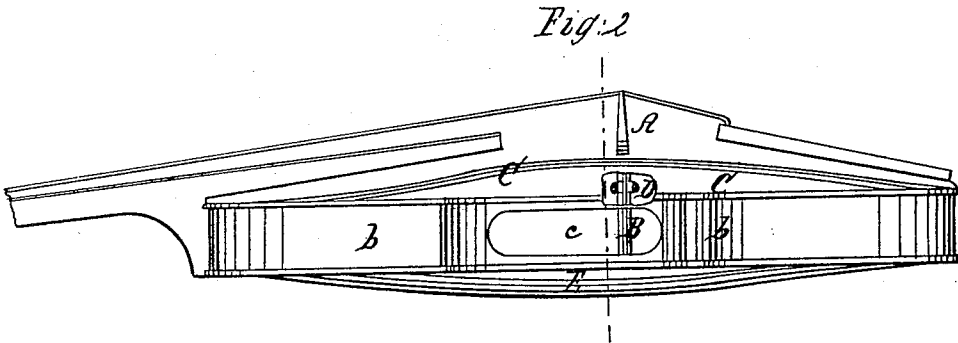
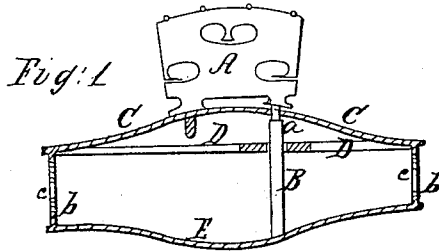


*J. Lenhard,*

*Violin.*

*No. 91,029.*

*Patented June 8. 1869.*



*Witnesses*

*Chas Nida*  
*W. Kinchman*

*Inventor*  
*J. Lenhard*  
PER *[Signature]*  
*Attorney*

# United States Patent Office.

JACOB LENHARD, OF NEW YORK, N. Y.

Letters Patent No. 91,029, dated June 8, 1869.

## IMPROVEMENT IN VIOLINS.

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, JACOB LENHARD, of New York city, in the county and State of New York, have invented a new and useful Improvement in Bow-Instrument; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a vertical transverse section of a bow-instrument provided with my improvements.

Figure 2 is a side view, partly in section, of the same.

Similar letters of reference indicate corresponding parts.

This invention relates to an improved manner of securing the bridge to a violin or other bow-instrument, with an object of securing greater freedom to the sounding-board, to allow the same to vibrate with less difficulty than heretofore.

The bridge *A* is supported at one end by the sound-post *B*, which is brought directly under the end of the bridge, while the other end of the bridge stands on the sounding-board *C* in the ordinary manner.

The sound-post fits through a small aperture of the sounding-board, and through a cross-bar, *D*, which is fastened to the sides of the instrument, in the box of the same.

The sounding-board can thus vibrate up and down without being strained by the bridge.

The bar *D* serves as a guide for the post *B*, to prevent it from being thrown obliquely out of its proper position.

The lower end of the post is firmly secured to the bottom, *E*, in the ordinary or suitable manner.

That end of the bridge which is supported by the post *B* is so far elevated above the board *C* that the latter will, during its vibrations, not be likely to come in contact with said end, nor with a shoulder, *a*, on the post.

By means of the bar *D*, the bridge is prevented from coming in contact with the sounding-board *C* when the strings are strained, because said bar holds the post *B*, which supports the bridge, rigidly in position within the opening of the sounding-board.

I am aware of the patent granted to G. H. Hulskamp, October 21, 1862, in which one post of the bridge is made to bear upon the upper and one upon the lower sounding-board, either directly or by means of a tripod or post; but this I do not claim.

Having thus described my invention—

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

1. The cross-bar *D*, arranged within the box of a bow-instrument, to serve as a guide for the sound-post, which partly supports the bridge, substantially as herein shown and described.

2. The bridge *A* and post *B*, in combination with the cross-bar *D*, substantially as described, for the purpose specified.

The above specification of my invention signed by me, this 24th day of March, 1869.

JACOB LENHARD.

Witnesses:

FRANK BLOCKLEY,  
E. GREENE COLLINS.