

(No Model.)

W. H. AYRES & H. SCHROEDER.
BOW FOR STRINGED MUSICAL INSTRUMENTS.

No. 466,146.

Patented Dec. 29, 1891.

Fig. 1.

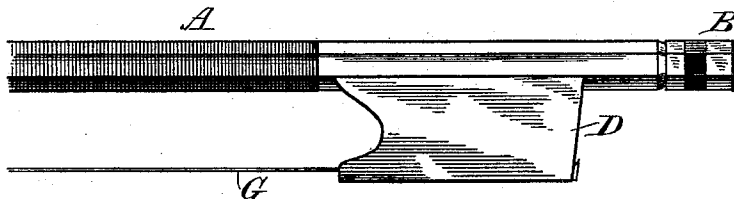


Fig. 2.

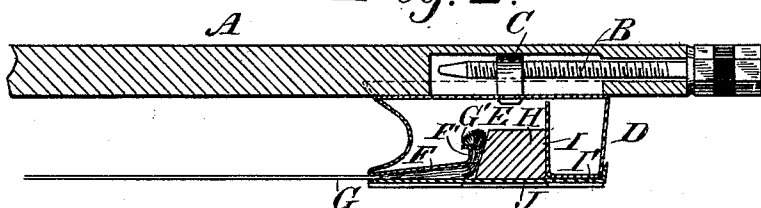


Fig. 3.

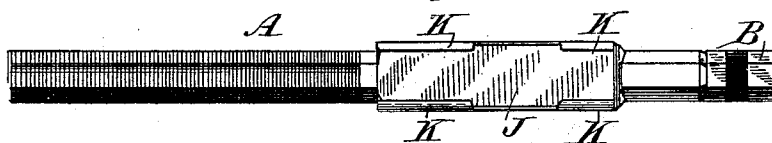


Fig. 4.

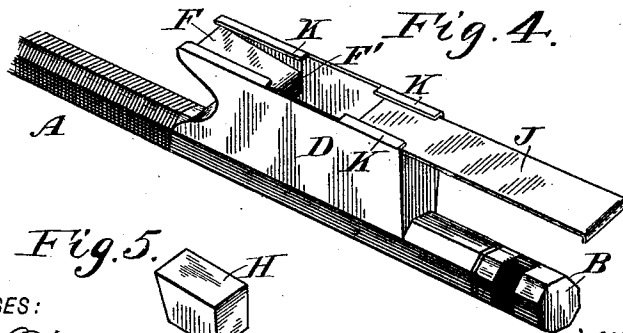


Fig. 5.



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BOW FOR STRINGED MUSICAL INSTRUMENTS.

SPECIFICATION forming part of Letters Patent No. 466,146, dated December 29, 1891.

Application filed June 16, 1891. Serial No. 396,485. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM H. AYRES and HENRY SCHROEDER, both of Whipple Barracks, in the county of Yavapai and Territory of Arizona, have invented a new and Improved Bow for Stringed Musical Instruments, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved bow for stringed musical instruments, such as violins, violas, violoncellos, bass viols, &c., and which is simple and durable in construction and permits of readily, conveniently, and securely fastening the ends of the hair in the frog.

The invention consists of a frog provided with a recess adapted to receive the ends of the hair and a wedge-shaped block fitting into the said recess and adapted to press or lock the hair in place on one of the walls of the recess.

The invention also consists of certain parts and details and combinations of the same, as will be hereinafter fully described, and then pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a side elevation of the improvement. Fig. 2 is a sectional side elevation of the same. Fig. 3 is an inverted plan view of the same. Fig. 4 is an inverted perspective view of the improvement with the hair removed and the cover partly open, and Fig. 5 is a perspective view of the wedge-shaped block.

The improved bow for stringed musical instruments is provided with the usual staff A, in one end of which is mounted to turn the screw-rod B, engaging a nut C, held on the frog D, fitted to slide in the usual manner on the end of the staff A. The frog D is preferably made of sheet metal, but may be molded or made of other material, and is formed in its under side with a recess E, the front wall of which is formed by a vertical extension F' of the inclined bottom F, over which passes the hair G, as plainly illustrated in Fig. 2. The ends of the hair are tied at G' in the usual manner and extend over the inclined

bottom F and the extension F', to be pressed securely in contact with the latter by a wedge-shaped block H, fitting into the recess E. The rear end of the wedge-shaped block H abuts against the wall I, formed as an extension of the rear bottom part I', as is plainly shown in Fig. 2. The under side of the frog D is adapted to be closed by a cover J, fitted to slide longitudinally in suitable bearings K, formed on the sides of the frog D, as plainly shown in Fig. 4. The top of the cover J extends over the under side of the block H and the under side of that part of the hair passing under the bottom F, so that the several parts are held in place, as shown in Fig. 2. In order to place and lock the hair in place on the frog, the cover J is removed, the opening E being opened by having the block H removed. The tied end of the hair is then placed in the recess E so as to rest against the extension F' and the under side of the bottom F. The operator now inserts the wedge-shaped block H in the said recess, so that one end of the said block rests against the wall I of the recess E and the opposite beveled end of the said block presses against that part of the hair resting on the extension F'. The wall I is slightly inclined, as shown, so that the wedge-shaped block H securely presses and locks the ends of the hair in place. When this has been accomplished, the operator slides the cover J over the lower end of the frog in the bearings K, so that the block H is held in place and the several parts are locked together.

It will be seen that a frog constructed in this manner permits of readily inserting the ends of the hair in rehairing the bow.

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

1. In a bow for stringed musical instruments, the combination, with a frog having a recess adapted to receive the ends of the hair, of a wedge-shaped block fitting into the said recess and adapted to press and lock the hair in place on one of the walls of the said recess, substantially as shown and described.

2. In a bow for stringed musical instruments, the combination, with a frog formed with a recess and having part of its bottom

inclined and formed with an extension, being
one of the walls of the said recess, the other
part of the bottom being also provided with
an extension forming the opposite wall of the
5 recess, of a wedge-shaped block adapted to
engage the said recess and resting with one
end against one of the walls and pressing with
its opposite end the hair in contact with the
extension of the inclined bottom part, substan-
10 tially as shown and described.

3. In a bow for stringed musical instru-
ments, the combination, with a frog formed
with a recess and having part of its bottom
inclined and formed with an extension, being
15 one of the walls of the said recess, the other

part of the bottom being also provided with
an extension forming the opposite wall of the
recess, of a wedge-shaped block adapted to
engage the said recess and resting with one
end against one of the walls and pressing with 20
its opposite end the hair in contact with the
extension of the inclined bottom part, and a
cover fitted to slide on the under side of the
said frog, substantially as shown and de-
scribed.

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Witnesses:

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