

W. R. GRATZ.
VIOLIN BOW SCREW.
APPLICATION FILED JAN. 7, 1908.

937,518.

Patented Oct. 19, 1909.

Fig. 1.

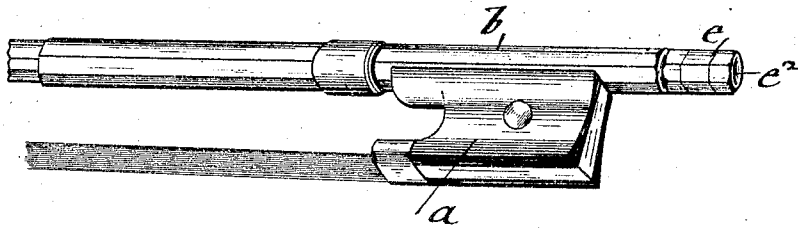


Fig. 2.

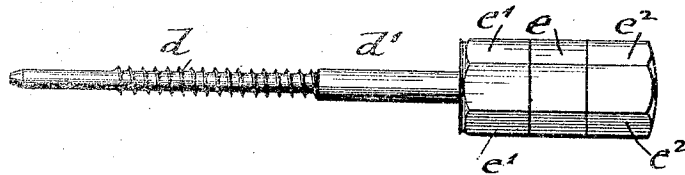
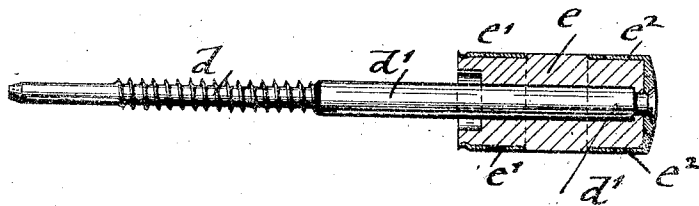


Fig. 3.



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VIOLIN-BOW SCREW.

937,513.

Specification of Letters Patent.

Patented Oct. 19, 1909.

Application filed January 7, 1908. Serial No. 409,714.

To all whom it may concern:

Be it known that I, WILLIAM R. GRATZ, a citizen of the United States, residing in New York, in the borough of Brooklyn, county of Kings, and State of New York, have invented certain new and useful Improvements in Violin-Bow Screws, of which the following is a specification.

This invention relates to an improved adjusting-screw for the bows of violins, violas, violoncellos, double basses and other stringed instruments.

The adjusting-screws for violin-bows are provided with buttons which are applied to the stems of the adjusting-screws and which are ornamented by an exterior shell formed of hard rubber, silver, mother-of-pearl, ebony, and other materials. The button frequently, after continued use, gets loose from the stem of the adjusting-screw, so that it could be turned freely around the stem without tightening the bow, while the ornamental portions of the shell become loose and detached so as to impair the appearance of the button-end of the screw.

The object of this invention is to obviate the objections referred to and to furnish a button for the adjusting-screws of violin-bows which is permanently attached by a cap to the end of the stem of the adjusting-screw and provided with a non-detachable ornamental shell, said cap being riveted to the end of the stem, as will be fully described hereinafter and finally pointed out in the claims.

In the accompanying drawings, Figure 1 represents a perspective view of a violin-bow with my improved adjusting-screw, Fig. 2 is a side-elevation of the adjusting-screw as detached from the bow, and Fig. 3 is a side-elevation of the bow-screw partly in section through the button of the same.

Similar letters of reference indicate corresponding parts.

Referring to the drawings, *a* represents the frog of a violin-bow, *b* the end of the bow adjacent to the frog, and *d* the adjusting-screw for the bow by which the tension of the hairs of the bow is adjusted. The adjusting-screw *d* engages in the usual manner a stud on the frog so as to adjust the end *b* of the bow. The adjusting-screw *d* is provided with a stem *d'* to which is attached

an ornamental button *e*, the core of said ornamental button being made of suitable material, such as wood, hard rubber, ebony, etc., and ornamented by a shell *e'* formed of trimmings of silver or other sheet-metal, mother-of-pearl and the like, which are placed around the polygonal or other core of the button. To the end of the button *e* is applied a cap *e'* which fits snugly over and conforms to the button and is riveted to the end of the stem *d'* of the adjusting-screw, so as to hold the button rigidly on the end of the stem without getting loose on the same and permitting it to turn without turning the screw. The detaching of the button from the stem *d'* as well as the detaching and loss of the ornamented portions of the shell are also prevented by the end-cap *e'*. A very attractive and permanent button for the adjusting of violin-bows is thereby obtained and the objectionable features of the buttons heretofore in use entirely obviated.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. In a violin-bow, the combination with its adjusting screw having a stem, of a button placed on the stem of said screw, and a cap fitting snugly over and conforming to said button at one end of the latter and fastened to the end of the stem.

2. In a violin-bow, the combination with its adjusting screw having a stem, of a cap so fastened as to be rigid with the end of the stem of the adjusting-screw and to form a part thereof.

3. In a violin-bow, the combination with its adjusting screw having a stem and its button placed on the stem of the screw for turning it, of a cap on the end of the stem of the screw, enveloping one end of the button, extending inwardly over a part of the button from the end of the stem, fitting snugly over that part and substantially conforming to the contour thereof.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two subscribing witnesses.

WM. R. GRATZ.

Witnesses:

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