

(No Model.)

J. K. PORTER.
VIOLIN TUNING PEG.

No. 338,296.

Patented Mar. 23, 1886.

Fig. 1.

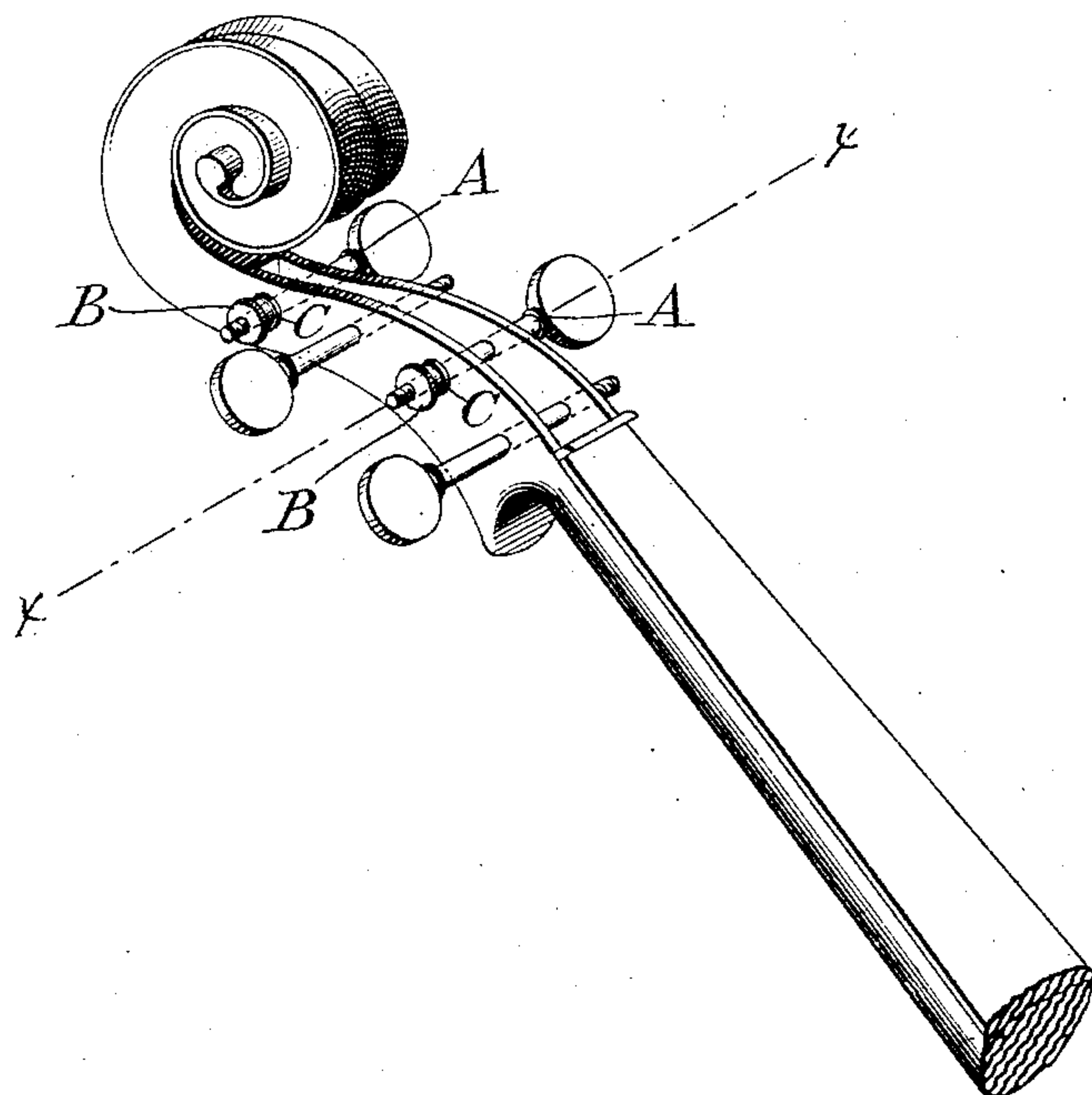


Fig. 2.

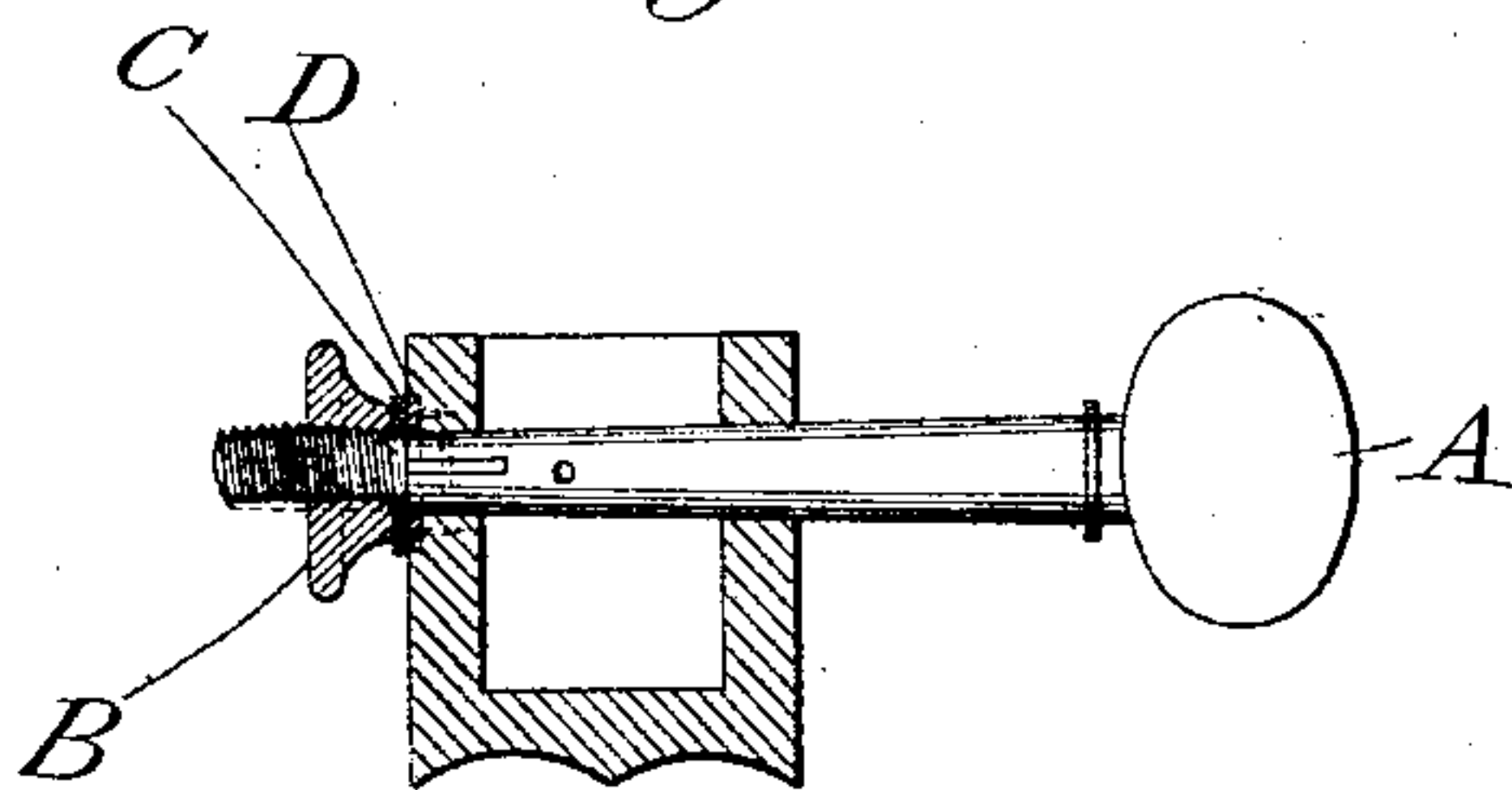


Fig. 3.



Witnesses:
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JOHN KLEM PORTER, OF PHILADELPHIA, PENNSYLVANIA.

VIOLIN TUNING-PEG.

SPECIFICATION forming part of Letters Patent No. 333,296, dated March 23, 1886.

Application filed March 13, 1884. Serial No. 124,117. (No model.)

To all whom it may concern:

Be it known that I, JOHN KLEM PORTER, a citizen of the United States, residing at Philadelphia, county of Philadelphia, State of Pennsylvania, have invented a new, useful, and novel Improvement in Keys of Violin and other String Musical Instruments, the object being to provide suitable means by which the keys are kept under control and held in a fixed position, preventing moving or slipping while tuning the strings, the old method being troublesome and annoying to the performer using the ordinary violin keys.

My invention consists in the novel device, a screw-nut and washers applied to end of keys, which is hereinafter more fully described, the following being a specification, reference being had to the accompanying drawings.

Figure 1 represents a section of neck and head of violin with keys in position, two of which have my improvement applied; Fig. 2, a transverse section on plane of line *xx*, Fig. 1; and Fig. 3 detail views of the washers.

A is a violin-key with screw tapped on end to fit screw tapped in nut B, and partially flat to fit washer C.

B is a knurled nut with screw-thread tapped in centre.

C is a washer with segment-shaped perforation through center, used as a check in preventing or disturbing of screw-nut when properly adjusted. I prefer this peculiar shaped opening on account of the broad bearing it has on key.

D is a washer with a spherical perforation in center.

In the practical adjustment of my invention the key A is inserted in the key-hole of violin. The washer D is placed over end of said key and forced tightly in a countersunk recess or fastened by other appliances, acting as a bearing-surface and protection to wood-work around key-hole of the instrument. The washer C is then placed in position on key. The nut B is then screwed on and regulated to the required tightness. The key being turned in tuning the string, washer C and nut B rotate with the same. The washer C prevents crowding by giving a smooth motion, and nut B regulates the motion, holding the key in position against the strain of the string, and the desired result is obtained.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

A string musical instrument provided with a key for tuning the strings, having a flattened face and a screw-threaded portion above said flattened face of the key, in combination with a washer, C, having one side of its opening flattened, washers D, and screw-nut B, all arranged substantially as set forth.

JOHN KLEM PORTER.

Witnesses:

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