J. E. SCHONACKER.

MUSIC-STANDS.

No. 180,795. Patented Aug. 8, 1876.

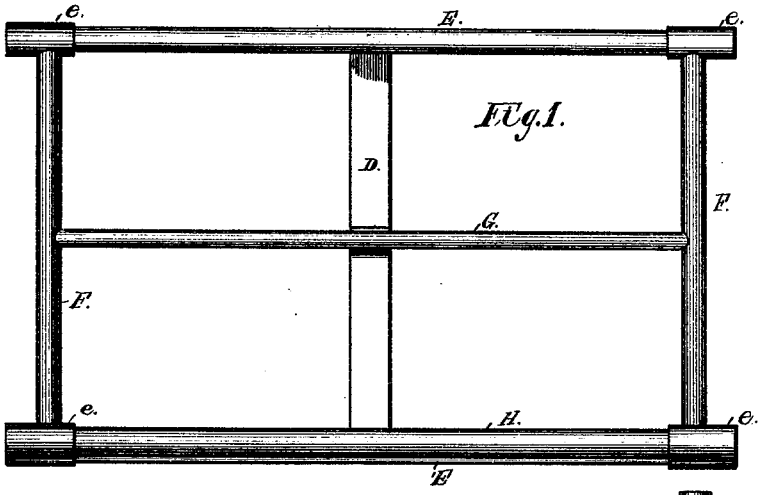


Fig. 1.

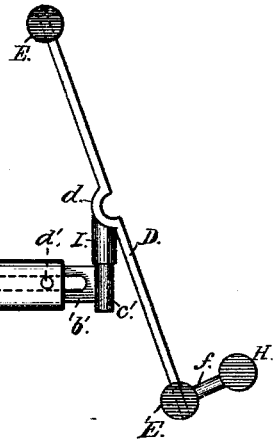


Fig. 2.

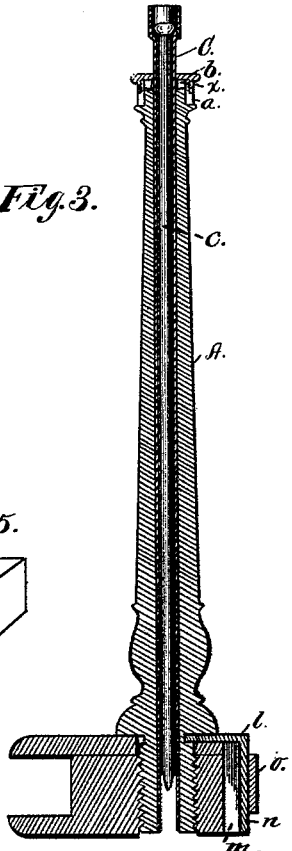


Fig. 3.

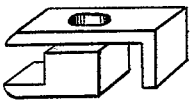
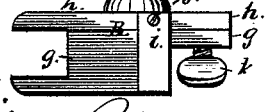


Fig. 5.

Fig. 4.



Attest.
Chas. M. Peck
Wm Ritchie

Inventor
Jno. E. Schonacker
by his Attys.
Pecker & Co.

UNITED STATES PATENT OFFICE.

JOHN E. SCHONACKER, OF DAYTON, OHIO.

IMPROVEMENT IN MUSIC-STANDS.

Specification forming part of Letters Patent No. **180,795**, dated August 8, 1876; application filed February 8, 1876.

To all whom it may concern:

Be it known that I, JOHN E. SCHONACKER, of Dayton, in the county of Montgomery and State of Ohio, have invented certain new and useful Improvements in Music-Racks; and I do hereby declare the following to be a full, clear, and exact description of the same.

This invention relates to that class of portable and adjustable music-racks designed to be attached to a piano, table, desk, &c.; and my improvements consist in the structure and arrangement of the various parts separately and collectively, as will be herewith described, and the invention distinctly pointed out in the claims.

To enable others skilled in the art to which my invention appertains to make and use the same, I would thus proceed to describe its construction and operation, referring throughout to the accompanying drawings, in which—

Figure 1 is a plan view of my improved music-rack without the standard. Fig. 2 is a side elevation, representing my invention with the central and end wooden bars of the rack removed. Fig. 3 is a sectional view of my improved standard.

Corresponding letters of reference indicate like parts in all of the figures.

A represents a standard or spindle, hollow throughout its entire length, and having a screw cut upon its bottom for actuating the clamp B. This standard may be of any material or design, having at its top a ferrule, *a*, on which is screwed a cap-nut, *b*. This cap-nut confines a packing consisting of a rubber washer, *x*, which binds upon the hollow metallic rod C, that is confined in the standard. This rod is about the same length as the standard, and is enlarged at its top, as is represented in Fig. 3, forming a shoulder on the inside for holding the head of a pointer, *c*. The pointer is sheathed in the rod, and is useful in giving instruction or in beating time. The rack, Fig. 1, is composed of a central metallic strip, D, swaged transversely at its center, as seen at *d*, Fig. 2, and mortised into two cross-bars, E, at their centers. These bars are parallel, and connected at their outer ends by the smaller bars F, which are passed through metallic caps *e*, and mortised into the bars E. A third cross-bar, G, parallel to the bars E, lies in the swaged part of the strip D, and is kept in place by having its ends grooved and sprung in between the outer bars F, which hold it securely in position. Extending from the lower bar E, and at right angles to the plane of the rack, are three or more short pieces, *f*, mortised into a bar, H, which is parallel to the bar E, and of the same length. The bars E and H have metallic caps fitted over their ends for strength and ornament.

To attach the rack to the standard, a cap, I, is screwed or otherwise permanently attached to the swaged portion of the strip D—that is, to *d*, Fig. 2. This cap slips snugly over the head of the rod C.

An important feature of my invention is the clamp B, composed of the base *g*, into which the screw of the standard works, and the clamping-piece *h*, through which the screw passes, of the shape represented in Fig. 2. A metal strip, *i*, of the shape represented in perspective in Fig. 4, is set in flush with the top of the piece *h*, with its central concave edge resting in a circumferential slot at the top of the screw in the standard. It is secured to the clamping-piece *h* by the screws *j*. The side portions of the strip *i* embrace the sides of the clamp, into which they are set flush with its surface, so that they act as guides for the piece *h*, and prevent its being moved in any other than a straight line up and down when the standard is being turned to adjust the clamp. A thumb-screw, *k*, working through the rear part of the base *g*, can be used to further tighten the hold of the clamp.

A variation of this form of the clamp might be used to dispense with the thumb-screw, and is represented in Fig. 3, where *l* is a metallic guide attached to the clamping-piece, and having its edge resting in a slot in the screw, as in the other case. The vertical part of this guide *m* is T-shaped, with the stem *n* of the T confined in a slot in the base of the clamp. The plate *o*, screwed to the back of the base of the clamp, forms a bearing and a guide in which, as the standard is turned, the piece *m n* works.

A clamp, the same in principle but somewhat different in form, is shown in Fig. 5 for securing the rack to either an upright or a

horizontal part of a piano. The screw of the standard passes through a slot in the L-shaped clamping-piece into the base, and its operation is sufficiently clear from the illustration.

P is an adjustable attachment, consisting of a flattened metallic tube, to one end of which a cap, a', is secured. This cap fits over the head of rod C, Fig. 2. In the tube a slotted strip, b', is snugly fitted, having a stem, c', secured to its outer end, over which the cap I fits, as represented in Fig. 2. A screw or pin, d', passes through the tube P, and the slot in the strip b' prevents the latter from being drawn entirely out of its sheath.

By means of this attachment the rack may be adjusted either toward or from the performer, and by screwing down the cap-nut b upon the rubber washer the rod C is firmly held in any position up or down, as may be required.

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

1. In a portable music-rack, the hollow standard A, having a screw at its bottom for actuating a clamp, and a ferrule and cap-nut, b, upon its top, for spreading the washer x that holds the rod C in position, substantially as described.

2. In combination with the hollow standard A, the hollow rod C, held at any required point by the rubber washer x, as and for the purpose specified.

3. In combination with a portable music-rack, the pointer c, sheathed in the hollow rod C, as and for the purpose specified.

4. The clamp B, composed of the base g, clamping-piece h, guide-strip i, and thumb-screw k, when actuated by the screw upon the standard A, in the manner and for the purpose specified.

5. The herein-described portable and adjustable music-rack, consisting of the hollow standard A, hollow rod C, pointer c, clamp B, adjustable attachment P, and rack constructed of the metal strip D, and bars E, F, G, and H, when the whole are arranged and united, substantially as described, for connection to a piano, desk, or table, as and for the purpose specified.

Witness my hand this 5th day of February, A. D. 1876.

JOHN E. SCHONACKER.

Witnesses:
CHAS. M. PECK,
WM. RITCHIE.