J. E. SCHONACKER.

MUSIC-STANDS.

No. 180,796. Patented Aug. 8, 1876.

Fig. 3.

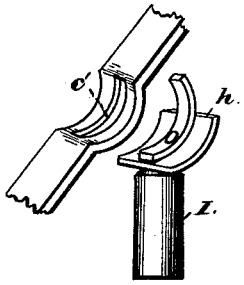


Fig. 2.

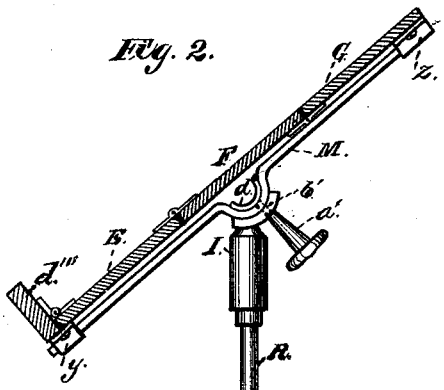


Fig. 1.

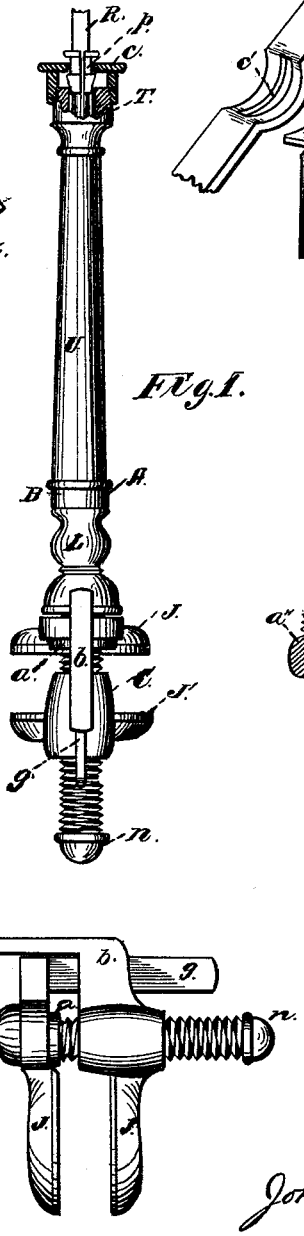
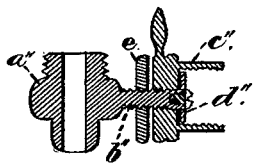


Fig. 4.



Attest;
Chas. M. Cook
Wm. Ritchie

Inventor;
John E. Schonacker
by his Attys:
Peck & Co.

UNITED STATES PATENT OFFICE.

JOHN E. SCHONACKER, OF DAYTON, OHIO.

IMPROVEMENT IN MUSIC-STANDS.

Specification forming part of Letters Patent No. **180,796**, dated August 8, 1876; application filed June 16, 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 Portable and Adjustable 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-stands which are designed to be attached to pianos, chairs, tables, desks, &c.; and my improvement consists in the structure and arrangement of the various parts separately and collectively, as will be herewith set forth and specifically claimed.

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

Figure 1 is a front elevation of my stand when attached to a horizontal surface. Fig. 2 is a side elevation of the stand when attached to a vertical surface. Fig. 3 is a perspective view of my adjustable rack-cap. Fig. 4 is a central sectional view of my improved right-angle coupling.

A represents the standard or spindle, hollow throughout its entire length, and composed of two sections or parts, U and L. Each end of the former, U, is provided with a metal ferrule. Of these ferrules the one at the bottom, B, is threaded on the inside, to receive the male screw, by which the lower section L is attached when the two section are united. The ferrule T at the top is threaded on its outside, and upon it is screwed the metal cap-nut *c*. In this cap *c* is confined a metallic packing-clamp, *p*, Fig. 1, which is composed of a divided cylindrical piece of metal of a uniform bore, but having its exterior lower portion tapering, as represented. The cap-nut *c* fits over and encompasses this clamp, resting upon a shoulder formed at the top of the tapering portion, as seen. Upon screwing down the cap, the tapering portion is forced into the opening at the top of the standard, which action compresses the clamp, causing it to embrace and firmly hold the hollow rod R. This rod is enlarged at its top, so as to form on its inside a shoulder to support the head of a pointer, which is sheathed therein for use in giving instruction or beating time. At the bottom of section L is the clamp C. This clamp is the means I use to attach the stand to the supporting-furniture. It is thus constructed: The upper jaw J is so secured by a collar at *a* as to be incapable of moving vertically, though free to rotate. At its rear is a vertical guide-piece, *g*, which passes through a slot in the rear of the lower jaw J′, and, in connection with the back piece *b*, acts as a guide and brace for both jaws. The jaw J′ moves vertically as it or the standard is revolved, being threaded to work upon the screw-threaded end of the standard. At the bottom of the whole spindle is the nut *n*, to prevent the removal of the jaw J′. It is rounded to avoid injury to the furniture by scratching. For the same purpose, and also to aid in grasping the support more firmly, the faces of the jaws are provided with pieces of felt, rubber, buckskin, or similar material, attached in any convenient manner.

The rack is preferably made of two or more united layers of veneer, sawed into any ornamental-scroll pattern, and is divided into four or more pieces, *d‴* E F G, united by hinges, so that it may be folded up for packing into small space. Upon the top and bottom of the rear side of the rack, at its center, are screwed or otherwise secured two staples, *y* and *z*, into which can be slipped the metal strip M, swaged transversely at its center. This forms a rigid stay for the rack and locks the hinges.

To attach the rack to the standard, a cap, I, is used, fitting snugly over the head of the rod R, as is seen in Fig. 2. This cap is secured to the rack as follows: In the swaged portion loosely fits a semicircular metal piece, *d*, convex, to conform to the swage, and with a screw, *b′*, indicated by dotted lines, attached to its under side. This screw passes through a longitudinal slot, *c′*, in the swage and through a hole in the peculiarly-shaped cap-head *h*, Fig. 3. The top of this cap is convex, to fit upon the swage, and has a shoulder, which lies in the slot and prevents lateral displacement of the parts. A milled cap-head, *a′*, with a threaded aperture, works upon the screw *b′* and clamps the piece *d′* and the head *h* upon the swaged portion of the strip M, thus holding the rack in any position desired.

It is sometimes necessary to attach the stand to a chair or to some vertical part of a piano. To meet such requirements, I provide the attachment consisting of the portion a'', Fig. 4, of the shape represented, threaded at its top, to enable the upper section U of the standard A to be screwed thereon, as seen in Fig. 2. An aperture through the part a'' allows the hollow rod R to pass through it.

Extending laterally from the part a'', and at right angles to the standard A, is a screw, b'', on which is confined an internally-threaded cap, c'', held from slipping off by a disk, d'', screwed upon the end of the screw b''. A milled lock-nut, e'', working upon the screw, holds the cap c'' tightly against the disk d'', and prevents it from being moved.

The lower part L of the standard, with the the clamp, is screwed into the cap c'', as seen in Fig. 2. This enables the clamp to be attached to any vertical object.

Having thus fully described my invention, I claim as new—

1. In a portable and adjustable music-stand, the hinged rack constructed of the pieces d'' E F G and the metallic strip M, swaged at its center, and slotted to receive the adjustable clamping device upon the cap I, substantially as and for the purpose specified.

2. The combination, with a music-stand, of the cap I, whose top consists of the head h, piece d', screw b', and milled head-cap a', when the respective parts are constructed and united substantially as and for the purpose specified.

3. In combination with the divided standard A, the right-angled coupling, consisting of the part a'', screw b'', cap c'', disk d'', and lock-nut e'', when constructed and united substantially as described.

4. The herein-described portable and adjustable music-stand, consisting of the adjustable rack, constructed as set forth, the divided standard A, the right-angled coupling, consisting of the part a'', screw b'', cap c'', disk d'', and lock-nut e'', and the clamp C, when the respective parts are united as described, for connection to a piano, desk, table, or chair, substantially as and for the purpose described.

Witness my hand this 10th day of June, A. D. 1876.

JOHN E. SCHONACKER.

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