2 Sheets—Sheet 1.

J. D. & C. E. ALVORD.

MUSIC-STAND.

No. 189,544. Patented April 17, 1877

Fig. 1

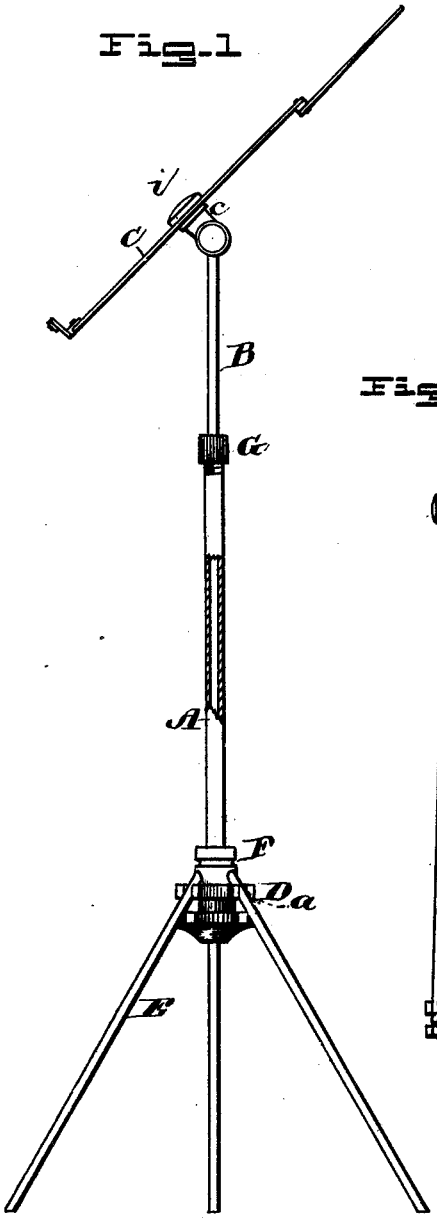


Fig. 2.

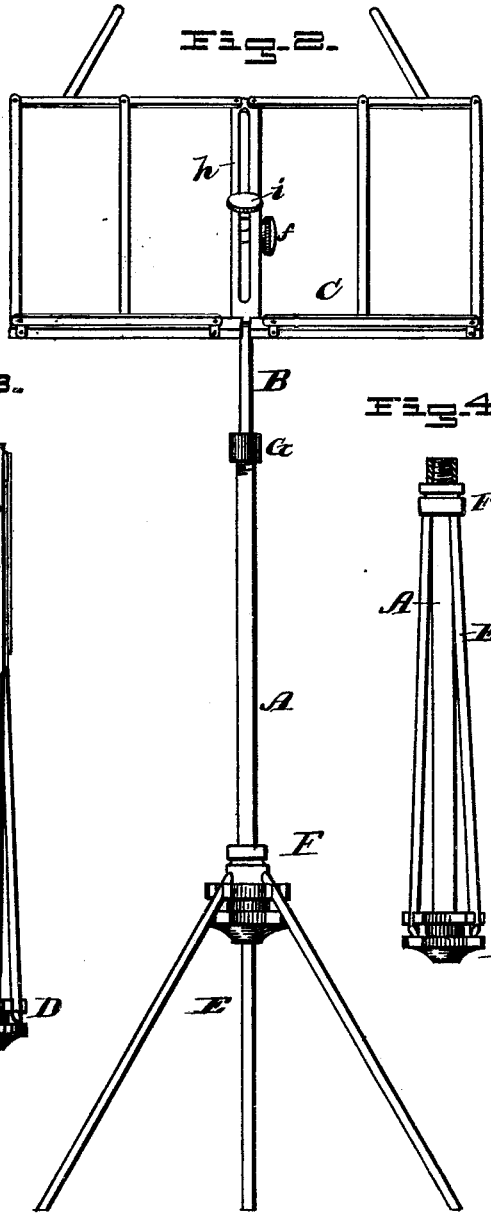
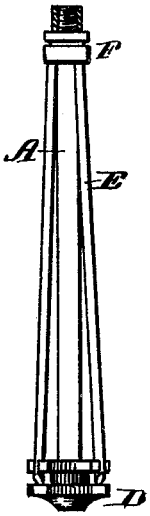


Fig. 3.

Fig. 4.



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2 Sheets—Sheet 2.

J. D. & C. E. ALVORD.

MUSIC-STAND.

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Fig. 5.

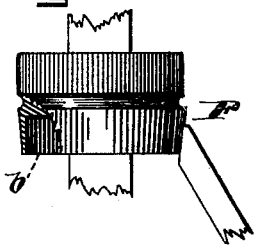


Fig. 6.

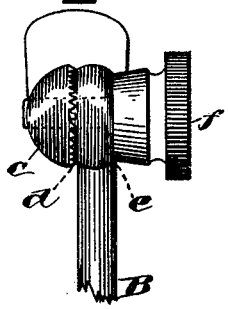


Fig. 9.

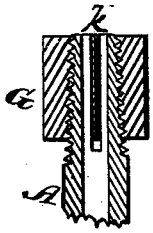
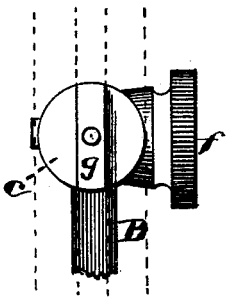


Fig. 7.



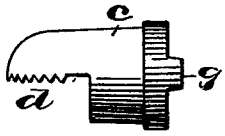
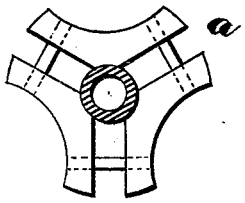


Fig. 8.



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UNITED STATES PATENT OFFICE.

JOSEPH D. ALVORD AND CHARLES E. ALVORD, OF BRIDGEPORT, CONN.

IMPROVEMENT IN MUSIC-STANDS.

Specification forming part of Letters Patent No. **189,544**, dated April 17, 1877; application filed March 9, 1877.

To all whom it may concern:

Be it known that we, JOSEPH D. ALVORD and CHAS. E. ALVORD, of Bridgeport, in the county of Fairfield and State of Connecticut, have invented certain new and useful Improvements in Music-Stands; and we do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same.

The invention relates to certain improvements in adjustable and folding music-stands; and the invention consists in a wedge-shaped thimble sliding on the post of the standard, and adapted to hold or lock the legs or feet of the stand in position for use and when not in use. It also consists in an arm having a wedge-shaped spline and set-screw, combined with a slotted bar of the stand, whereby the said desk may be readily adjusted.

In the drawing illustrating our invention, Figure 1 is a side elevation of the stand complete, and in position for use. Fig. 2 is a front view of the same. Fig. 3 is a plan view of the stand folded for transportation. Fig. 4 is a plan view of the post with the legs folded. Fig. 5 is a partly sectional side view of the thimble in position for holding the legs extended; Fig. 6, a rear view of the jointed arm; Fig. 7, a front view of the jointed arm and set-screw, and showing, to the right, the arm detached and in top view. Fig. 8 is a top-plan view of the legs—socket-casting; Fig. 9, a sectional view of the pinching device on the post.

A is a hollow post; B, the desk-carrying rod sliding in said post; C, the desk, which is preferably of folding character. D is a casting on the lower end of the post or standard A, and constructed with three or more sockets or mortises, *a*, (see Fig. 8,) in which the legs E are hinged in such a manner as to permit of their being turned upwardly parallel with the post. The upper inner ends of these legs are beveled, as shown in Fig. 5, and when said legs are extended so as to support the stand for use they are held in such position by a wedge-shaped thimble, F, sliding on the post A, the beveled portion of said thimble being crowded down against the beveled ends of the legs, thus overcoming their tendency to turn up, thereby locking them in their extended position, in the manner indicated in Figs. 1, 2, and 5. When the thimble is in this position its lower edge may rest upon the casting D, if such support is required. When the stand is to be folded up for transportation or storage the thimble F is raised to the head of the post, the legs turned upwardly parallel with the post, and the thimble then pushed downward, so that the ends of the legs or feet shall enter a recess or socket, *b*, in said thimble, whereby the legs are retained in their folded position, as indicated in Figs. 3 and 4. To lock the thimble upon the legs when folded the nut G is jammed upon it. The desk C is attached to the rod B by means of an arm, *c*, and a thumb-screw, *f*. (See in detail Figs. 6 and 7.) The upper portion *e* of the rod B is flattened, and made with a number of serrations or stops, or equivalent devices, and is provided with an eye, through which the screw *f* passes, and enters a screw-threaded orifice in the arm *c*. The lower portion *d* of this arm is serrated, or otherwise roughened, to correspond with the surface of the part *e* of the rod B, the object in the roughening of these surfaces being to provide a frictional surface that will aid the screw *f* in maintaining the adjustment of the said arm upon the rod B. The end face of the arm *c* is made with a transverse spline or rib or tongue, *g*, Fig. 7, which enters a slot, *h*, Fig. 2, in the desk, the said slot being preferably of as great length as the desk will admit, so as to permit the adjustment of said desk at different elevations or altitudes. The desk is secured to the arm by a set-screw, *i*, Figs. 1 and 2, entering the arm *c*, and pinching the desk thereupon.

It will be understood that articulating the arm *c* in the manner described permits the inclination of the desk at various angles, and the mode of securing said desk upon the arm permits the adjustment of said desk at different altitudes or elevations.

As before described, the rod B is made to slide into the hollow post A, and in order to hold said rod in various elevations relatively to said post the end of said post is tapered and screw-threaded, and slotted at *k*, and provided with the pinch-nut G, so that when said

rod is to be withdrawn more or less from the post the pinch-nut is raised, and when it is desired to hold the rod in a given position the pinch-nut is screwed down, and, being conical or tapering within, presses the sides of the post toward each other by virtue of the slot, and thus compresses the post about the rod, thereby effecting its retention at the given point. A different pinching mechanism may be employed as a sliding collar, instead of a nut; but the nut will be found to be most efficacious, and, too, because it serves as a jam-nut for the thimble when it is used to hold the legs in their folded position, as already specified.

The stand thus constructed may be folded into small compass. The desk is made to fold together, and by loosening the screws *i* it may be moved so as to be brought down out of the way upon the standard or post, as shown in Fig. 3. The legs are folded in the manner already described, and the rod B may be received within the hollow standard.

What we claim is—

1. A music-stand provided with a wedge-like thimble, sliding on its post or standard, and adapted to hold the legs extended or folded, substantially as described.

2. The combination of legs having beveled ends with a wedge-like thimble and a casting, D, substantially as shown and described.

3. The combination of the frame C, having a slotted bar, with the arm *c*, wedge-shaped spline *g*, and set-screw *i*, substantially as shown and described.

4. A music-stand having the articulated arm *c*, with a wedge-shaped spline, *g*, and serrated surface *d*, adapted to engage with the desk C and rod B, substantially as shown and described.

In testimony that we claim the foregoing as our own we affix our signatures in presence of two witnesses.

JOSEPH D. ALVORD.
CHAS. E. ALVORD.

Witnesses:
A. STEWARD,
A. R. LACEY.