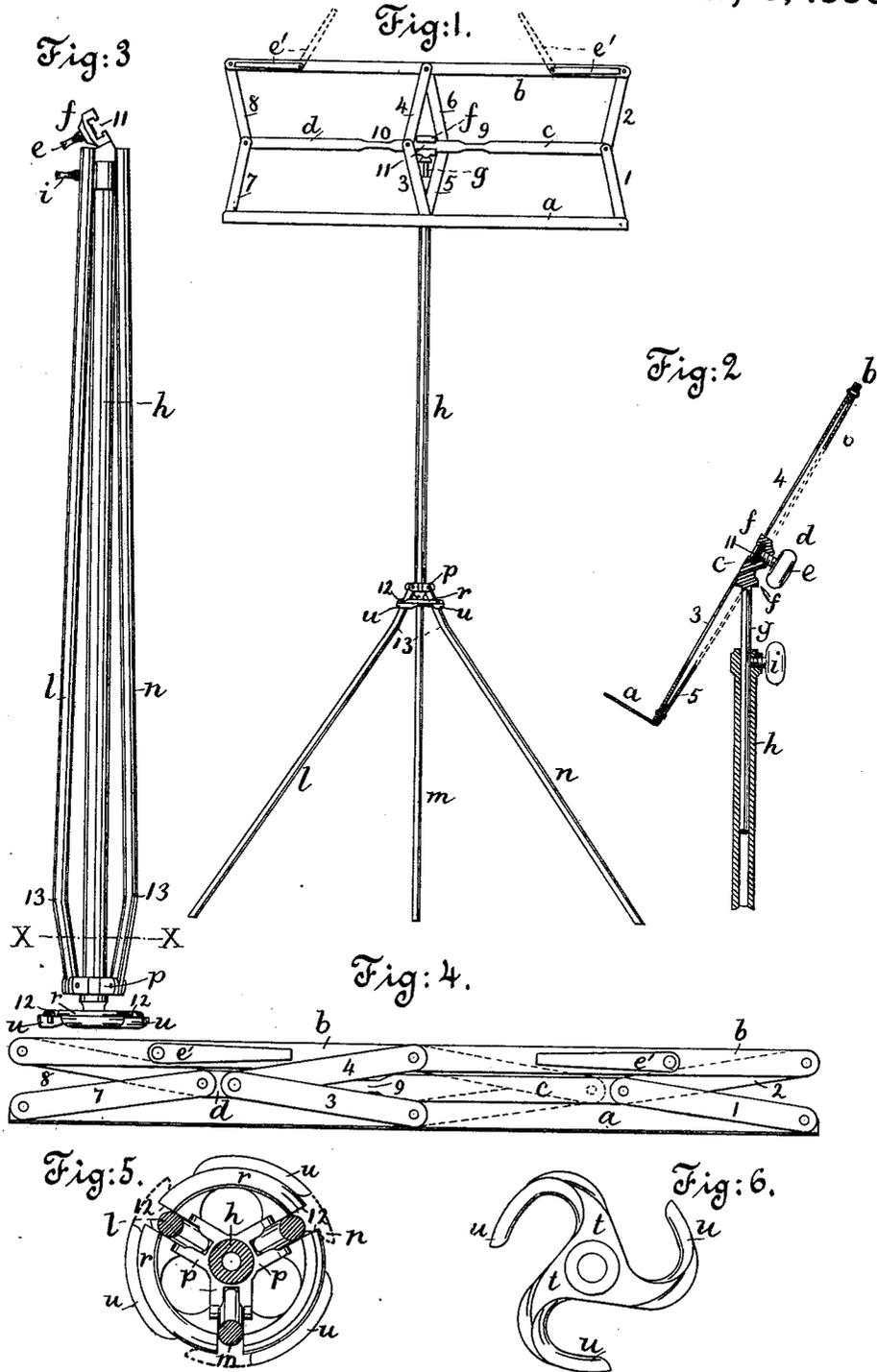


E. B. MANSFIELD.
Music Stands.

No. 229,622.

Patented July 6, 1880.



Witnesses.
Jos. P. Sivermore
G. F. Connor.

Inventor.
Eben B. Mansfield
by Crosby & Gregory
Attys.

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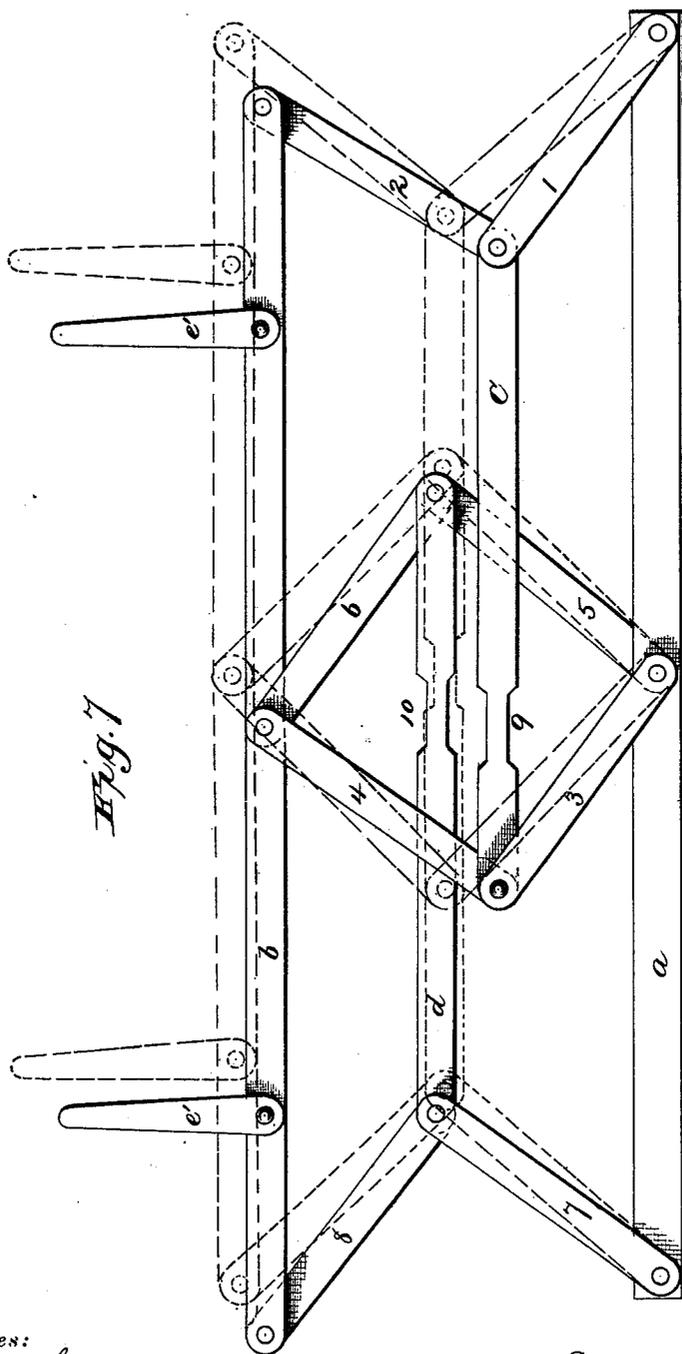


Fig. 7

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UNITED STATES PATENT OFFICE.

EBEN B. MANSFIELD, OF MALDEN, ASSIGNOR OF ONE-HALF OF HIS RIGHT
TO OSCEOLA A. WHITMORE, OF BOSTON, MASSACHUSETTS.

MUSIC-STAND.

SPECIFICATION forming part of Letters Patent No. 229,622, dated July 6, 1880.

Application filed January 12, 1880.

To all whom it may concern:

Be it known that I, EBEN B. MANSFIELD, of Malden, county of Middlesex, State of Massachusetts, have invented an Improvement in Portable Music-Stands, of which the following description, in connection with the accompanying drawings, is a specification.

My invention relates to a portable stand for music, to be used by the musicians of bands, orchestras, &c.; and is shown embodied in a music-stand consisting of a rack upon which the sheets of music are placed, and a base upon which the said rack is held at convenient height from the floor, the said rack being detachable from the base, and both rack and base being capable of being folded up into a compact and convenient form to carry.

Figure 1 is a front elevation of a music-stand made in accordance with my invention when in position to hold music; Fig. 2, a longitudinal section of the upper portion thereof enlarged; Figs. 3 and 4, views of the base and rack, respectively, when folded; Fig. 5, an enlarged section on line *x x*, Fig. 3; and Fig. 6, a detail to be referred to. Fig. 7 is a front elevation, on an enlarged scale, of the rack removed from its standard, showing in full lines the various joints and arms or levers, and showing in dotted lines the position of the parts *c d* when arranged for insertion in or removal from the socket on the standard.

The rack upon which the music rests consists of a bottom ledge, *a*, sufficiently wide to contain all the music desired, and connected with the top piece, *b*, of the same length as the bottom ledge, *a*.

The joint between the links 1 2 is connected with that between 3 4 by a cross-bar, *c*, and in the same manner 5 6 and 7 8 are connected by bar *d*, and when in position to hold music the inner ends of the cross-bars *c d* are clamped by the thumb-screw *e* in a socket, *f*, upon the upper end of a rod, *g*.

When desired to fold the rack for transportation it is removed from the socket *f*, and the top piece, *b*, and ledge *a* are pressed together, when the whole rack folds, as shown in Fig. 4, the connection by links and cross-bars, as

shown, causing the pieces *a b* to remain parallel and making the folded rack shorter than it would be if single links were used to join the said pieces.

The fingers *e'*, attached to the top piece, *b*, may be turned up, as shown in dotted lines, Fig. 1, to form a further support for the sheet of music, to prevent it bending back over the top piece, *b*.

The cross-bars *c d* are cut away, as shown at 9 10, to enable them to be inserted in the socket *f*, they being at these points about the width of the opening in said socket, (shown at 11, Figs. 2, 3,) and when inserting and removing the rack the cross-bars *c d* are moved along till the parts 9 10 coincide, when they may be readily passed through the opening 11.

The rod *g*, carrying at its upper end the socket *f* for the rack, is fitted to slide freely up and down in an upright, (shown as a tube,) *h*, and is held at the desired height by the screw *i*. The tube *h* is supported on three legs, (shown as rods,) *l m n*, of about the same length as the tube, in such manner that they may be folded up beside the tube *h*, as shown in Fig. 3.

When desired to use the stand the legs are turned down and rest in notches 12 in a disk, *r*, attached to the bottom of the upright *h*, in which they are held and prevented from spreading by a holding device, *t*, having three curved arms, *u*. (See Fig. 6.) The said holding device may be rotated to cause the said arms to cover all the notches 12 simultaneously and bear on the outside of the legs *l m n*, to hold them in said notches in the position shown in Fig. 1; or, when desired, it may be turned back to release the legs, to permit them to be folded.

The legs are shown slightly bent at 13, such a form giving them a greater spread at the base without necessitating an increase in the diameter of the disk *r* and holding device *t*.

It is obvious that a greater number of legs might be used, if desired, by making the requisite change in the parts *r t*.

The pieces *a b*, upright *h*, and legs *l m n* are all of about the same length, which is the length of the folded stand, the base portion

then lying in the angle of the folded rack, the whole taking but very little space and being of convenient form to carry.

I claim—

- 5 1. In a music-stand, a rack capable of being folded as described, it consisting of a bottom ledge and top piece, jointed links to connect them, and cross-bars to connect the joints of said links between said ledge and top piece,
 10 whereby the said top piece may be folded down upon the bottom ledge and remain parallel therewith, the ends of said top piece being opposite those of the bottom ledge, substantially as described.
- 15 2. In a music-stand, a base portion and its rack-holding socket combined with a rack composed of bottom and top pieces, jointed connecting-links, and cross-bars to connect the jointed links between the said top and bottom
 20 pieces, the said cross-bars being provided with narrow portions to enable them to be inserted

in the holding-socket, substantially as described.

3. In a music-stand, the combination, with the upright and legs pivoted thereto near one end to enable them to be turned up beside the said upright, or down at an angle thereto to form a support, of the disk on said upright provided with notches to receive the said legs, and the holding device provided with arms *u*, adapted to be rotated in one direction to cover the said notches, to prevent the legs from spreading, or in the reverse direction to release the said legs, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

EBEN B. MANSFIELD.

Witnesses:

JOS. P. LIVERMORE,
 L. F. CONNOR.