(No Model.)

J. H. MACKE, Jr.

FOLDING MUSIC STAND.

No. 377,629. Patented Feb. 7, 1888.

Fig. 1.

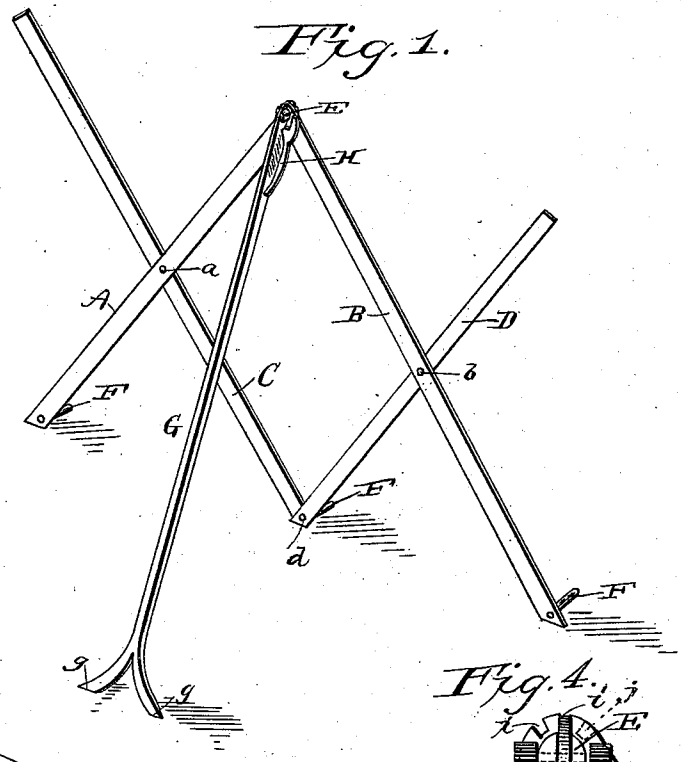


Fig. 4.

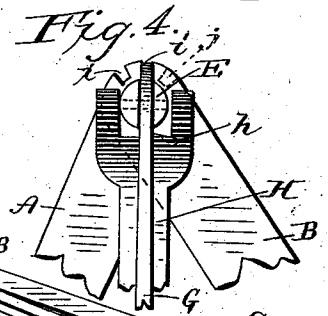


Fig. 2.

Fig. 3.

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UNITED STATES PATENT OFFICE.

J. HENRY MACKE, JR., OF BALTIMORE, MARYLAND.

FOLDING MUSIC-STAND.

SPECIFICATION forming part of Letters Patent No. 377,629, dated February 7, 1888.

Application filed October 28, 1887. Serial No. 253,619. (No model.)

To all whom it may concern:

Be it known that I, J. HENRY MACKE, Jr., a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Folding Music-Stands; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in folding music-stands; and it consists of the novel construction, combination, and arrangement of devices, as will be hereinafter fully described, and particularly pointed out in the claims.

The object of my invention is to provide a folding music-stand with a self-adjusting supporting-leg, which is adapted to be automatically forced into position for supporting the stand in an upright position when the latter is unfolded for use, and which is so constructed and arranged that it can be folded compactly and snugly against the links and interlock with the latter, to be held thereby in its folded position.

A further object of my invention is to provide the stand with devices for preventing the links or "lazy-tongs" from spreading laterally after the stand has been adjusted or unfolded to the desired width.

In the accompanying drawings, Figure 1 is a perspective view of my improved music-stand in an unfolded position and adjusted for use. Fig. 2 is a like view of the stand folded together, and Fig. 3 is a detail sectional view of the connection of the lazy-tongs and supporting-leg. Fig. 4 is a rear elevation of the same.

Referring to the drawings, in which like letters of reference denote corresponding parts in all the figures, A B C D designate the links, which cross one another in the manner shown, and are pivotally connected at their middles, as at *a b*, to form lazy-tongs, and the upper extremities of the links A B are pivoted together, as at *c*, by means of a stud, E, which has a reduced neck that passes through the lapped meeting ends of the links A B, and is beaded down upon a washer, *c'*. The lower extremities of the links C D are pivotally connected together, as at *d*, and the pivoted lower ends of said links and the free corresponding ends of the links A B are provided with ledges F, which are disposed nearly at right angles to the links and in line with each other when the stand is unfolded for use, to thereby form a shelf on which the sheet of music, &c., rests.

G designates the self-adjusting supporting-leg, which is arranged in rear of the links, and this leg is pivotally secured at its upper extremity to the tubular stud E, the leg being fitted in a notch cut in the stud and hung on a suitable pin that is fixed in the stud. The lower extremity of the supporting-leg is provided with feet *g*, which are adapted to take firm hold upon the object upon which the stand is placed, to prevent the latter from slipping or becoming displaced, and these feet extend laterally from the leg, on opposite sides thereof, so that they can press or bear against the front lateral faces of the links A B when the parts are folded together, in the manner presently described.

To render the supporting-leg self-adjusting when the stand is unfolded for use, I provide a spring, H, which is so arranged as to automatically press the leg into position for holding the stand upright when it is unfolded for use. The lower end of this spring is fixed to the supporting-leg at a point below its pivot, and the upper free end of the spring impinges or bears against the rear side of the pivoted ends of the links A B, said free end of the spring being preferably bifurcated, as at *h*, to adapt it to fit around the tubular stud E.

The upper pivoted ends of the links A B are provided in their edges with a series of notches, *i j*, respectively, which are adapted to align or register when the lazy-tongs are spread apart, so that a nib or shoulder, *k*, on the supporting-leg can fit into the notches to prevent the lazy-tongs from movement. The nib or shoulder *k* is formed on the extreme upper end of the pivoted leg, above the pin on which the leg is hung, and the nib projects forward beyond the leg, so that when the lower end of the leg is forced rearward of the lazy-tongs by the spring the nib or shoul-

der on the upper end of the leg is pressed forward to take into the aligned notches of the links A B, to prevent the lazy-tongs from spreading farther than the distance to which they have previously been adjusted.

The operation of my invention will be readily understood. To fold the music-stand within a very small space, the lazy-tongs are pressed toward each other, and at the same time the leg is forced forward toward the lazy-tongs to withdraw the nib or shoulder *k* from the notches and cause the laterally-extending feet to lie in advance of the lower ends of the links C D, and the links are then forced together, and the feet of the leg are pressed by the spring against the front lateral faces of the lower extremities of the links C D, whereby the leg is locked in place. To unfold the stand, it is only necessary to pull the links outward the desired distance to thereby free the feet from contact with the links C D, and the spring forces the lower end of the leg rearward, to adapt the feet thereof to rest upon the table, &c., and to cause the nib or shoulder *k* to enter the notches of the links A B.

I do not desire to confine myself to the exact details of construction and form and proportion of parts herein shown and described as an embodiment of my invention, as I am aware that changes therein can be made without departing from the principle of my invention.

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

1. A folding music-stand consisting of the lazy-tongs, a pivoted leg for holding the same in an upright position, and a spring for forcing the leg rearward as the lazy-tongs are separated, as and for the purpose described.

2. A folding music-stand consisting of the lazy-tongs, a supporting-leg pivotally connected with the tongs and adapted to fold against the same and to be locked thereto, and a spring interposed between the leg and lazy-tongs for forcing the leg away from the tongs when the latter are separated to release the leg, as and for the purpose described.

3. A folding music-stand consisting of the notched lazy-tongs, a supporting-leg pivotally connected to the lazy-tongs and having a nib or shoulder adapted to enter the notches of the lazy-tongs to prevent the same from spreading, and a spring for forcing the lower end of the leg away from the lazy-tongs, substantially as described.

4. A folding music-stand consisting of the pivoted links A B C D, a stud, E, connected to the meeting ends of the links A B, a leg pivoted to the stud and having a projecting nib, *k*, at its extreme upper end above the pivot-pin, adapted to enter one of a series of notches in the links A B, and a spring for forcing the lower end of the leg away from the tongs, as and for the purpose described.

In testimony whereof I affix my signature in presence of two witnesses.

J. HENRY MACKE, JR.

Witnesses:
R. W. BISHOP,
H. T. BERNHARD.