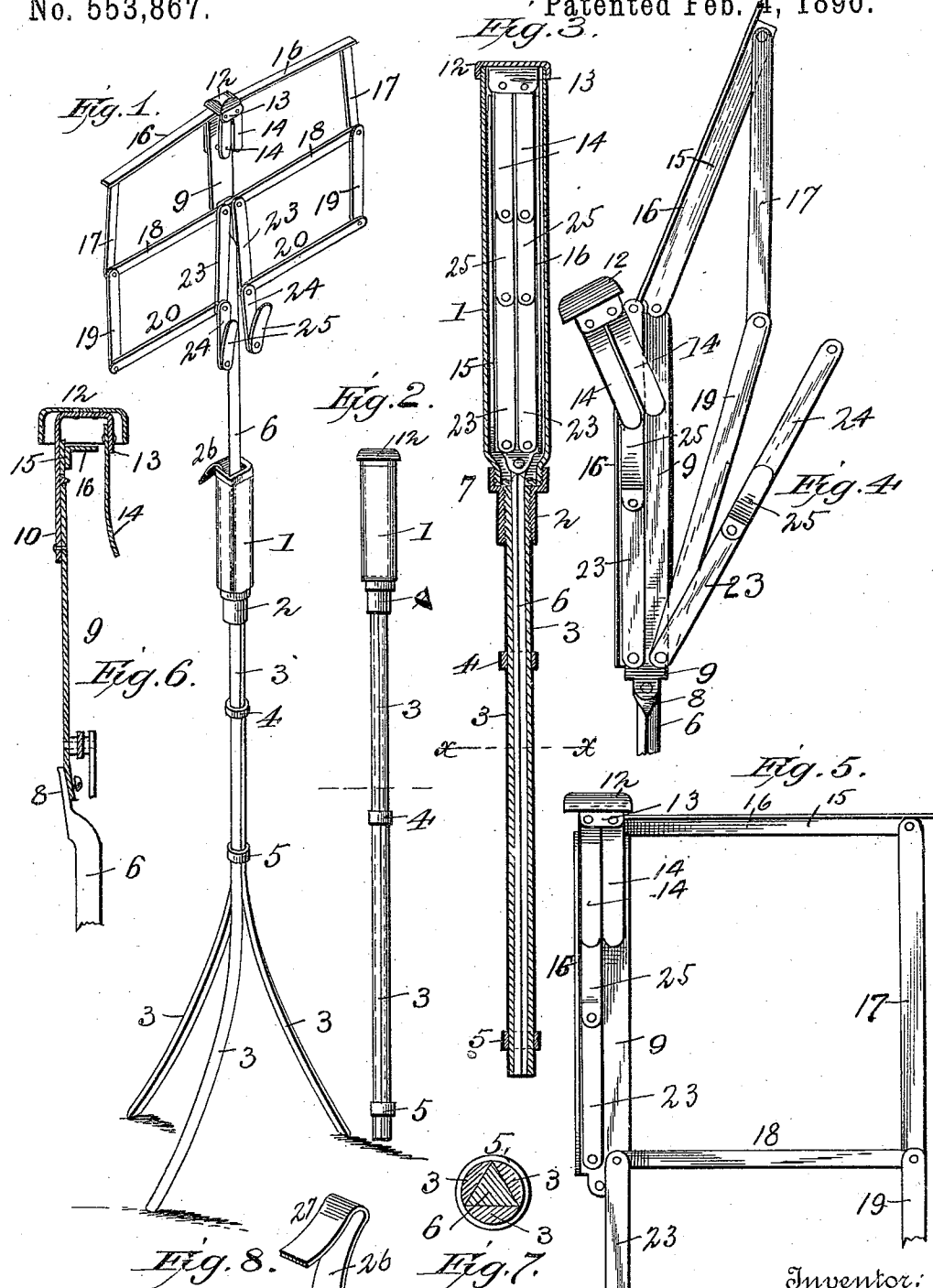


(No Model.)

J. MUELLER.
COMBINED CANE AND MUSIC STAND.

No. 553,867.

Patented Feb. 4, 1896.



Witnesses
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UNITED STATES PATENT OFFICE.

JOHN MUELLER, OF HOT SPRINGS, SOUTH DAKOTA, ASSIGNOR OF ONE-HALF TO EDWARD B. WARREN, OF SAME PLACE.

COMBINED CANE AND MUSIC-STAND.

SPECIFICATION forming part of Letters Patent No. 553,867, dated February 4, 1896.

Application filed June 3, 1895. Serial No. 551,444. (No model.)

To all whom it may concern:

Be it known that I, JOHN MUELLER, a citizen of the United States, and a resident of Hot Springs, in the county of Fall River and State of South Dakota, have invented certain new and useful Improvements in a Combined Cane and Music-Stand; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improved music-rack which may be converted into a cane or walking-stick when desired; and it consists in the novel construction and combination of parts, hereinafter fully described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of a music-stand constructed in accordance with my invention. Fig. 2 is a side elevation of the same folded up to form a cane or walking-stick. Fig. 3 is a central longitudinal section of the same. Figs. 4 and 5 are detail views of the rack, showing it in different positions while being folded. Fig. 6 is a detail sectional view of the rack. Fig. 7 is a horizontal section on the line *x x*, Fig. 2. Fig. 8 is a detail view of the spring-plate for holding the rod which carries the rack in its adjusted position.

In the said drawings the reference-numeral 1 designates a hollow handle or tube of any suitable material provided at its lower end with a collar 2, screw-threaded interiorly to engage with the correspondingly-threaded upper end of three (or more) spring-metal rods 3, which when unfolded form the legs of the music-stand. These legs are so shaped that when folded a vertical space will be left between them for the passage of the rod, hereinafter described, which supports the music-rack. The numerals 4 and 5 designate rings which are slidable on the said legs, and their purpose is to hold the legs in place when folded.

The numeral 6 designates a vertical rod, preferably triangular in cross-section, which passes through the collar 2, and also through an aperture in plate 7, located in the lower end of the handle 1. At its upper end this

rod is flattened and formed into a lug 8, to which is pivoted a plate 9. To the upper rear side of this plate 9 is pivoted a short plate 10, provided with a knob 12, which projects over the front upper end of plate 9 and is formed with a lug 13, to which are pivoted two fingers 14, which engage with and hold the upper edge of a music-sheet. To said upper end of plate 9 on the front side are pivoted two angle-bars, each consisting of a metal plate bent at a right angle, forming bars 15 and 16. To the outer ends of bars 15 are pivoted bars 17, which in turn are pivoted to the outer ends of bars 18, the inner ends of which are pivoted to the lower end of plate 9. Also pivoted to the outer ends of said bars 18 are bars 19, pivoted to bars 20, which in turn are pivoted to bars 23, also pivoted to said lower end of bar 9. These bars when extended form a music-rack, as shown in Fig. 1, there being pivoted to the inner ends of bars 21 bars 24, having pivoted fingers 25 at their free end, which engage with and hold the lower edge of a music-sheet. These bars may all be folded up so as to occupy but little space, as seen in Fig. 3.

The operation will be readily understood. When extended or unfolded, as seen in Fig. 1, the device serves as a music-stand, the music-sheets being supported by a rack and held in place by the spring-fingers. To fold up the device, so as to form a cane or walking-stick, the plate 10 and knob 12 are turned to one side, and bar 15 turned upwardly on its pivot to a vertical position, causing bars 17 and 18 to occupy similar positions. Bar 19 is then turned downwardly and inwardly and bars 20 and 23 upwardly and inwardly, so that all the said bars except bars 15 and 17 will rest above one another in a vertical position. Bars 15 and 17 are then turned downwardly and inwardly so as to engage between plate 9 and bar 18, when the angle-bar 16 will bear against the outer edges of all of said bars. The bars in the opposite side of plate 9 are then folded in a similar manner and the rack thus folded or contracted pushed down into the hollow handle 1, with the knob 12 abutting against the upper end thereof. The spring-legs are then brought together and the rings slipped down to hold them in place,

when the device can be used as a cane or walking-stick.

It will be seen that the lug at the upper end of rod 6, to which the rack is jointed, is bent 5 backwardly, so that the bars 23, when the rack is unfolded, will abut against the sides of the bar and hold the lower end of the rack in place.

Instead of pivoting the plate 9 to rod 6 it 10 may be connected therewith by a socket, with which the said lug engages, so that the rack may be removed if desired.

The rod 6 is slidable vertically, so that it can be adjusted to different heights, and for 15 the purpose of holding it in its adjusted position I employ a curved spring-plate 26 having its upper end curved outwardly, forming a lug 27, and its lower end bent upwardly, forming a spring-arm 28. In using this device the 20 plate is inserted in the upper end of the handle with the lug at the upper end bearing against rod 6, and the arm 28 resting against the inner side of the handle. The resiliency of the plate and lug and arm will hold the rod 25 6 in any position to which it may be adjusted.

Having thus fully described my invention, what I claim is—

1. The combination in a combined cane and music-stand, of the spring-legs, the vertically- 30 adjustable rod, the folding music-rack, permanently secured to and pivotally connected with said rod, and the hollow handle secured to said legs, the construction being such that when said rack is folded it can be pushed in

and be concealed by said handle, substantially 35 as described.

2. In a music-stand the combination with the hollow handle, the spring-legs connected therewith, the slidable ring and the vertically-adjustable rod, of the plate connected 40 with the upper end of said rod, the plate pivoted to the upper end thereof, the knob secured thereto, the lug formed with or secured to said knob, the pivoted fingers, the angle-bars 15 16, and bars 18 and 23 pivoted to the 45 plate connected with said rod, the pivoted bars 17, 19 and 20 and the bars 24 pivoted to bars 23, having pivoted fingers at their free ends, substantially as described.

3. In a music-stand, the combination with 50 the hollow handle, the spring-legs, the slidable rings, the vertically-adjustable rod, and the folding music-rack connected therewith, of the curved spring-plate having its upper 55 end curved forming a lug, and its lower end bent upwardly forming a spring-arm, said plate being adapted to be inserted in the upper end of said handle with the lug and arm bearing respectively against the said rod and the inner side of the handle, substantially as 60 and for the purpose specified.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

JOHN MUELLER.

Witnesses:

A. HOLTZ,

W. H. STANLEY.