Oct. 14, 1952 J. S. TATAR 2,613,901

PORTABLE AND COLLAPSIBLE SUPPORT FOR MUSICAL INSTRUMENTS

Filed March 14, 1949 2 SHEETS--SHEET 1

Fig.1.

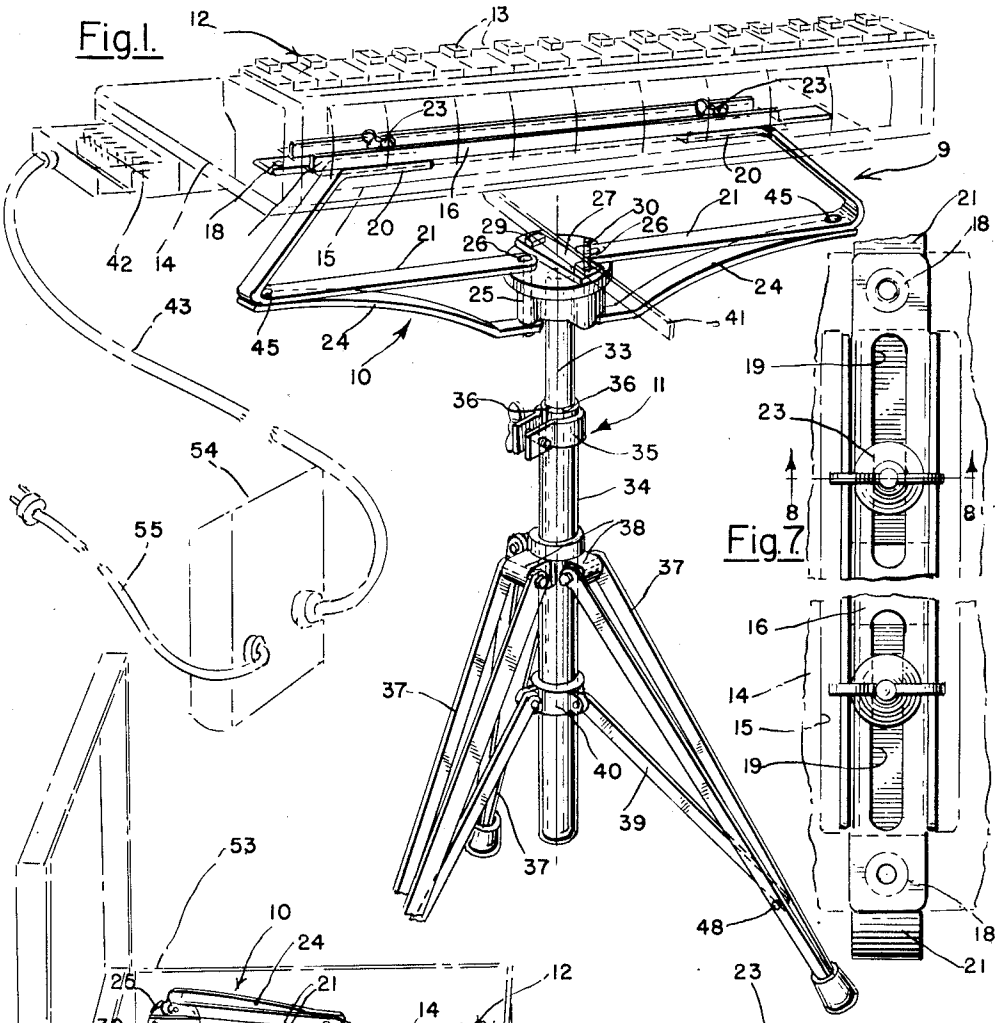


Fig.2.

Fig.7.

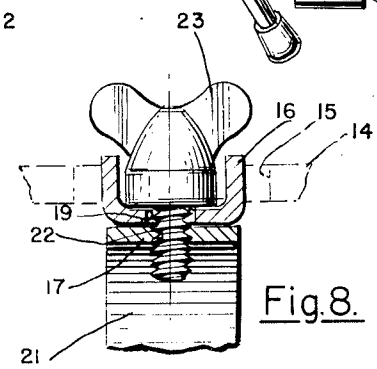


Fig.8.

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Fig.3.

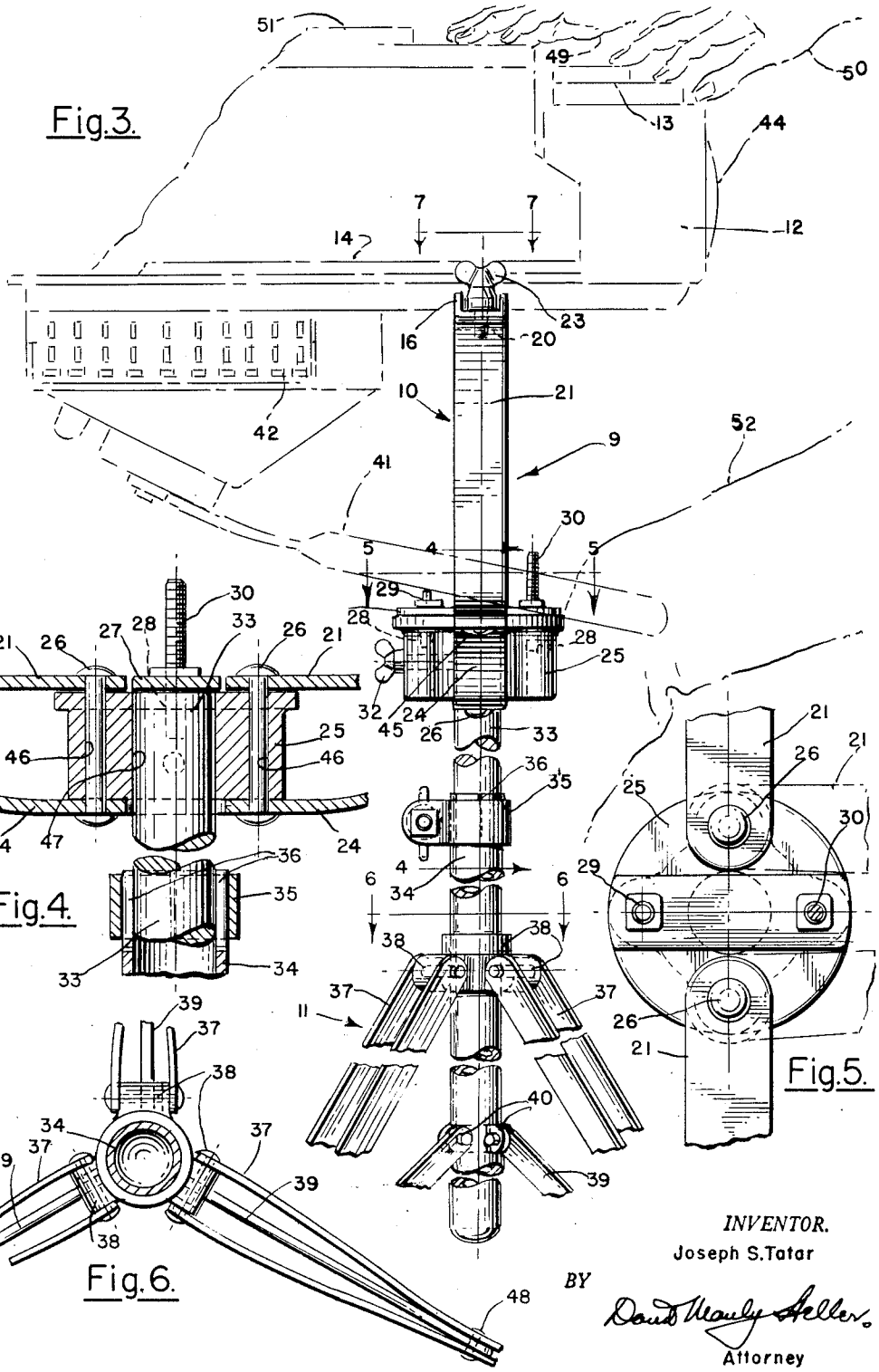


Fig.4.

Fig.5.

Fig.6.

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UNITED STATES PATENT OFFICE

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PORTABLE AND COLLAPSIBLE SUPPORT FOR MUSICAL INSTRUMENTS

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4 Claims. (Cl. 248—166)

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My invention relates to a mobile, portable and collapsible support for melody type instruments having a keyboard of several octaves.

The aforesaid instrument is an electronic instrument having a keyboard of approximately three octaves similar in construction to that of a piano or organ. The said instrument may be played in connection with any musical instrument, but is preferably used in connection with a piano, and is therefore usually attached directly to the piano keyboard. Many players, however, find it inconvenient to have their instruments attached to a single piano keyboard, thus nullifying much of the versatility of the instrument. Since many players wish to play their instruments in connection with musical instruments other than the piano or on different pianos, therefore I have provided a mobile, portable and collapsible support for melody type instruments and the like.

A most important object of my invention is to provide mobile, portable and collapsible instrument support means that is collapsible and transportable in the same carrying case with the said instrument, and that may be quickly set up in connection with a tripod as a support means for the said instrument, making it capable of being used with any other musical instrument.

A further important object of my invention is to provide mobile, portable and collapsible instrument support means to be used in connection with collapsible and adjustable tripod means for supporting said instrument.

A still further object of my invention is to provide adjustable and transportable instrument support means that is quickly and easily attachable to a conventional melody type instrument without alteration thereto.

A further important object of my invention is to provide adjustable and transportable instrument support means that is simply designed and may be economically manufactured in quantity production.

Other objects and advantages inherent in my invention will be disclosed in the following description and the accompanying illustrations, in which like numerals refer to like parts, and in which;

Fig. 1 is a perspective view of my invention shown with the "Solovox" attached thereto drawn in phantom lines and showing its connection to the tone cabinet.

Fig. 2 is a perspective view of my invention shown in collapsed position together with a collapsed tripod packed in the carrying case of the

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"Solovox" instrument which is drawn in phantom lines.

Fig. 3 is an enlarged side view of my invention with parts broken away, showing it set up in operating position with a "Solovox" mounted thereon drawn in phantom lines and also showing the relative position of a piano keyboard thereto and the position of the hands on the piano keyboard and the "Solovox" keyboard, also showing the position of the knee in relation to the "Solovox" knee volume control.

Fig. 4 is an enlarged fragmentary cross-sectional view of my invention taken substantially on line 4—4 on Fig. 3, and showing the mounting means of the collapsible channel supporting brackets.

Fig. 5 is an enlarged top view of the bracket mounting flange bushing taken looking in the direction of arrows 5—5 on Fig. 3.

Fig. 6 is an enlarged top view, partly in cross-section, taken looking in the direction of arrows 6—6 on Fig. 3, and showing the telescoping tripod means of my invention.

Fig. 7 is an enlarged top view taken looking in the direction of arrows 7—7 on Fig. 3 and showing the "Solovox" attaching channel bracket means used in connection with my invention.

Fig. 8 is an enlarged fragmentary cross-sectional view taken substantially on line 8—8 on Fig. 7.

Referring to the illustrations, my invention is generally designated 9 and consists of a collapsible instrument support assembly 10, a collapsible and adjustable tripod assembly 11, and telescoping rod means 33.

My invention is used in connection with a "Solovox" instrument designated 12 having a keyboard 13 with black and white keys similar to that of a piano keyboard. The instrument keyboard 13 is electronically operated and is mounted on an instrument base board 14, having electrical plug connection means 42 which, in connection with electrical cable and plug means 43, provides electrical connection to the electronic tone cabinet 54, which has an electric wall outlet cable 55. In connection with the instrument 12 the attaching means includes a channel bracket 16 mounted within a clearance cutout 15 in instrument base board 14 by attaching means 18. Elongated bracket slots 19 are formed in the bottom of channel bracket 16.

The ends of cantilever support straps 24 are riveted at 45 to the bottom sides of collapsible channel supporting brackets 21. The said collapsible channel supporting brackets 21 are oppositely

mounted, by pivot pins 26 in bracket mounting holes 46 drilled in opposite sides of flange bushing 25. The said pivot pins or rivets 26 hold the collapsible channel supporting brackets 21 in a tight but pivotable connection with the said flange bushing 25. The bushing opening 47 is closed on the top by a stop plate 27 held by screw 29 and stud bolt 30 in tapped blind bores 28. The said stud bolt 30 also serves as a stop for "Solovox" knee volume control 41 as shown in Fig. 3. The said flange bushing 25 is tapped at 31 for a set screw 32 which secures the collapsible "Solovox" support assembly 10 to telescoping rod means 33. The said telescoping rod means 33 telescopes into tube element 34 which is the upright part of collapsible and adjustable tripod assembly 11. The said telescoping rod means 33 is maintained in adjusted position within tube element 34 by clamp means 35 mounted over its split end portion 36. The inwardly bent channel supporting portions 20 of collapsible channel supporting bracket 21 are tapped at 22 and, in connection with wing nut set screw 23 serve to support the channel bracket 16 upon which the instrument 12 is mounted. The bracket slot means 19 permits sidewise adjustment of instrument 12 on collapsible support assembly 10.

The clamp means 35 in association with telescoping rod means 33 and collapsible and adjustable tripod assembly 11 permits the collapsible support assembly 10, together with instrument 12, to be raised or lowered to the desired height. Collapsible tripod legs 37 are mounted by hinge bearings 38 on tube element 34 and are further supported by articulate auxiliary tripod leg supports 39, which are hingeably mounted between friction bearing 40 and rivet 48 on tripod legs 37. The said friction bearing 40 is mounted frictionally upon tube element 34 and serves to maintain the tripod legs 37 in open extended position as shown in Figs. 1 and 3 or in the collapsed position as shown in Fig. 2.

Figs. 1 and 3 illustrate my mobile, portable and collapsible support for instruments in open, upright position, supporting an instrument 12 in a playing position. Fig. 3 also illustrates the relative playing position of the right and left hands 49 and 50, one on the piano keyboard 51, the other on the melody type instrument keyboard 13. The "Solovox" register controls 44 are also shown in Fig. 3 within reach of hand 50. The knee volume control 41, which is mounted on the under side of the instrument 12, extends outwardly and rests normally against stop 30 and is manipulated by action of the knee designated 52 and shown in Fig. 3, to serve as a volume control.

Fig. 2 illustrates the collapsible support assembly 10 and the collapsible and adjustable tripod assembly 11 disengaged and collapsed and packed in transporting position within a carrying case 53, together with the instrument 12. To assemble my invention, the collapsible support assembly 10 is mounted and clamped over the end of telescoping rod means 33 of tripod 11. The instrument 12 is secured to the collapsible channel supporting bracket 21 by wing nut set screws 23. The instrument is ready for position adjustment and playing when electric cable and plug means 55 are connected to an electrical wall outlet.

A principal advantage in connection with my mobile, portable and collapsible support for melody type instruments and the like resides in the flexibility of usage it imparts to the melody type instrument. Whereas ordinarily the melody type instrument is attached to a piano keyboard, which limits its use to that particular instrument, with my invention the said melody type instrument may be used in connection with not only different pianos but with other musical instruments, and may be adjusted to the proper height for the different musical instruments and the player.

Although my invention has been described, the terms used are to be deemed terms of description rather than terms of limitation, my intention being to retain the right to all mechanical equivalents of the structural element depicted, provided they fall within the purview of the appended claims.

Having thus disclosed and revealed my invention, what I claim as new and desire to secure by Letters Patent is:

1. A mobile, portable and collapsible support for melody type instruments and the like, comprising collapsible and adjustable tripod assembly means, collapsible instrument support means secured to the said collapsible and adjustable tripod assembly means, and set screw means mounted on the said collapsible instrument support means for releasably retaining and securing a melody type instrument, the said collapsible instrument support assembly means including flanged bushing means secured removably to the said collapsible and adjustable tripod assembly means, cantilever support strap means articulately secured to the bottom of the said flanged bushing means, channel supporting bracket means provided with inwardly bent channel supporting portions and articulately secured to the top portion of the said flanged bushing means in superimposed relationship with respect to the said cantilever strap support means, pivot pin means mounted in the said flanged bushing means pivotally securing the said cantilever strap support means and the said channel supporting bracket means thereto, the said cantilever strap support means having one end thereof secured to the said channel supporting bracket means substantially at a point where it is bent inwardly, and stop plate means secured to the flanged bushing means axially coincident with respect to a vertical axial plane thereof to limit the articulate movement of the said channel supporting bracket means in collapsed position thereof.

2. A mobile, portable and collapsible support for melody type instruments and the like, comprising collapsible and adjustable tripod assembly means, collapsible instrument support means secured telescopically to the said collapsible and adjustable tripod assembly means, and set screw means mounted on the said collapsible instrument support means for releasably retaining and securing a melody type instrument, the said collapsible instrument support assembly means including flanged bushing means secured removably to the said collapsible and adjustable tripod assembly means, cantilever support strap means articulately secured to the bottom of the said flanged bushing means, channel supporting bracket means provided with inwardly bent channel supporting portions and articulately secured to the top portion of the said flanged bushing means in superimposed relationship with respect to the said cantilever strap support means, pivot pin means mounted in the said flanged bushing means pivotally securing the said cantilever strap support means and the said

channel supporting bracket means thereto, the said cantilever strap support means having one end thereof secured to the said channel supporting bracket means substantially at a point where it is bent inwardly, and stop plate means secured to the flanged bushing means axially coincident with respect to a vertical axial plane thereof to limit the articulate movement of the said channel supporting bracket means in collapsed position thereof.

3. A mobile, portable and collapsible support for melody type instruments and the like, comprising collapsible and adjustable tripod assembly means, collapsible instrument support means secured to the said collapsible and adjustable tripod assembly means, clamping means to secure the said collapsible and adjustable tripod assembly means in various heights, and set screw means mounted on the said collapsible instrument support means for releasably retaining and securing a melody type instrument, the said collapsible instrument support assembly means including flanged bushing means secured removably to the said collapsible and adjustable tripod assembly means, cantilever support strap means articulately secured to the bottom of the said flanged bushing means, channel supporting bracket means provided with inwardly bent channel supporting portions and articulately secured to the top portion of the said flanged bushing means in superimposed relationship with respect to the said cantilever strap support means, pivot pin means mounted in the said flanged bushing means pivotally securing the said cantilever strap support means and the said channel supporting bracket means thereto, the said cantilever strap support means having one end thereof secured to the said channel supporting bracket means substantially at a point where it is bent inwardly, and stop plate means secured to the flanged bushing means axially coincident with respect to a vertical axial plane thereof to limit the articulate movement of the said channel supporting bracket means in collapsed position thereof.

4. A mobile, portable and collapsible support for melody type instruments and the like, comprising collapsible and adjustable tripod assembly means, collapsible instrument support means secured telescopically to the said collapsible and adjustable tripod assembly means, clamping means to secure the said collapsible and adjustable tripod assembly means in various heights, and set screw means mounted on the said collapsible instrument support means for releasably retaining and securing a melody type instrument, the said collapsible instrument support assembly means including flanged bushing means secured removably to the said collapsible and adjustable tripod assembly means, cantilever support strap means articulately secured to the bottom of the said flanged bushing means, channel supporting bracket means provided with inwardly bent channel supporting portions and articulately secured to the top portion of the said flanged bushing means in superimposed relationship with respect to the said cantilever strap support means, pivot pin means mounted in the said flanged bushing means pivotally securing the said cantilever strap support means and the said channel supporting bracket means thereto, the said cantilever strap support means having one end thereof secured to the said channel supporting bracket means substantially at a point where it is bent inwardly, and stop plate means secured to the flanged bushing means axially coincident with respect to a vertical axial plane thereof to limit the articulate movement of the said channel supporting bracket means in collapsed position thereof.

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