Oct. 1, 1929. J. E. TEMPLE 1,730,252

ADJUSTABLE PIANO OR ORGAN BENCH

Filed April 25, 1927

Fig. 1.

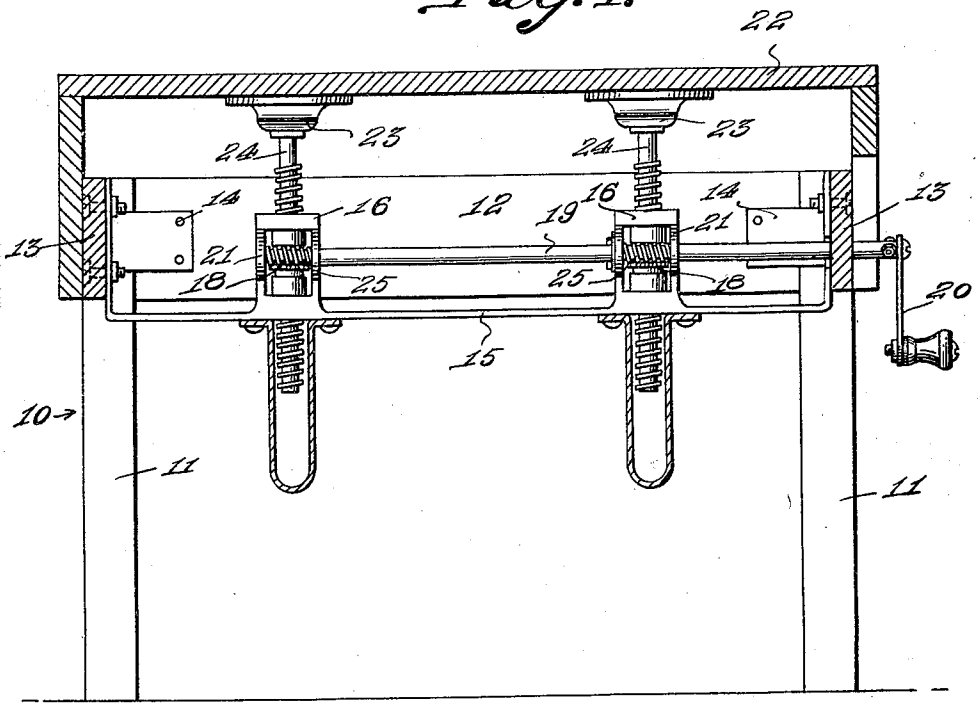


Fig. 2.

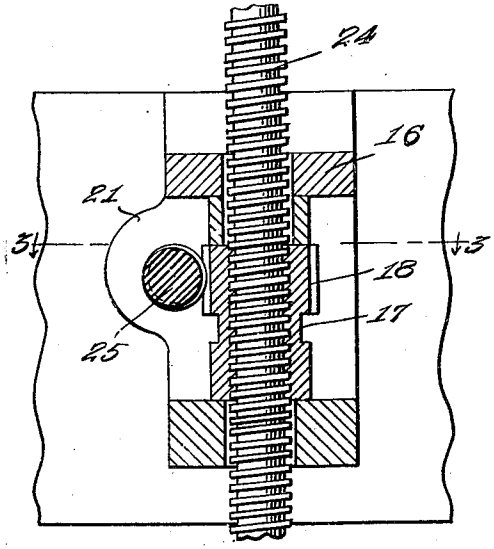
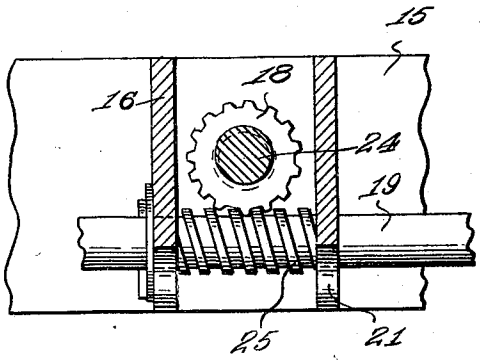


Fig. 3.



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WITNESS:

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UNITED STATES PATENT OFFICE

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ADJUSTABLE PIANO OR ORGAN BENCH

Application filed April 25, 1927. Serial No. 186,512.

This invention relates to supports, particularly to benches designed for use by the players of pianos or organs, and has for its object the provision of a novel bench having means whereby the height thereof may be adjusted to suit the requirements of the individual.

An important object of the invention is to provide an adjustable seat or bench of this character having mechanical means whereby the top portion may be elevated or lowered to the desired extent depending upon the stature or the length of the legs of the user in order to insure comfort while playing the instrument.

A further object is the provision of a bench of this character so constructed that the adjustment will be maintained without it being necesary to employ any catches, latches or auxiliary means for the purpose.

Still another object is to provide a bench of this character which will be simple and inexpensive to manufacture, very easy to control or operate, positive in action, efficient and durable in service, and a general improvement in the art.

With the above and other objects and advantages in view, the invention preferably consists in the details of construction, and the arrangement and combination of parts to be hereinafter more fully described and claimed, and illustrated in the accompanying drawings, in which

Figure 1 is a vertical longitudinal section taken through the complete device.

Figure 2 is a fragmentary or detail cross sectional view taken through one of the operating screws in a vertical direction, and

Figure 3 is a detail in cross section taken on the line 3—3 of Figure 2.

Referring more particularly to the drawings, I have shown the device as comprising a relatively stationary portion designated as a whole by the numeral 10, and including a plurality of legs 11 which are naturally vertically arranged and which are connected at their upper ends by longitudinal bars 12 and transverse bars 13. It may also be preferable to provide inclined braces 14 located at the inner corners for the purpose of strengthening the structure.

Secured within the confines of the frame thus defined, is a suitable bracket structure 15 of frame-like form, provided at spaced points with upstanding portions 16 of open frame construction which include spaced parallel horizontal members having aligned openings and between which are journally mounted nuts 17 formed as worm wheels 18. Journaled longitudinally of the stationary portions 10 and through the upstanding members 16 is an operating shaft 19 which projects beyond one front end or through one of the cross bars 13, the projecting end carrying a suitable crank handle 20 by means of which the shaft may be rotated. This shaft is represented as having bearing portions journaled through ears 21 laterally disposed on the upright members 16, though clearly an equivalent structure must be provided if found desirable. Any ordinary or preferred means may be also provided for the purpose of preventing longitudinal shifting movement of the shaft 19 as will be readily apparent.

The device further includes a relatively movable portion or seat 22 on the underside of which are secured attaching members 23 carrying spaced vertical depending screws 24 which extend through the upright members 16 and which are threaded within the nut members 17.

Assuming that the device has been constructed and assembled as above described, and as shown in the drawing, it will be readily apparent that in order to effect raising or lowering of the seat 22 it is merely necessary for the operator to grasp the crank handle 20 and rotate the shaft 19 in one direction or the other. Clearly, when the shaft 19 is rotated, the worm 25 carried thereby within the confines of the members 16 and meshing with the worm wheels 18 will operate to rotate the nut members 17 and as these nut members are turned, it is of course apparent that they will act upon the screws 24 and correspondingly move the seat 22. Obviously, when the crank handle is turned in one direction the nut members 17 will be turned in

such a direction as to raise the seat 22 whereas rotation in the reverse direction will operate to effect lowering of the seat. It is likewise apparent that very little effort and no skill whatsoever will be required in the operation, and it is an extremely simple matter to adjust the height of the bench to meet the requirements of the individual user. It is really believed that the construction, operation and advantages will be readily apparent to one skilled in the art without further explanation.

While I have shown and described the preferred embodiment of the invention, it should of course be understood that I reserve the right to make such changes in the details of construction, as well as the arrangement and combination of parts as will not depart from the spirit of the invention or the scope of the claim hereunto appended.

Having thus described the invention, I claim:—

An adjustable bench comprising a stationary portion including legs, a bracket structure including a horizontal portion, vertical portions formed with the horizontal portion and being secured to the stationary portion, spaced upstanding portions formed with the horizontal portion, spaced parallel horizontal members included in said spaced upstanding portions and being formed with aligned openings, lateral ears formed with the upstanding portions and being formed with aligned openings, a shaft journaled longitudinally of the stationary portion and in the last mentioned openings, worms formed with said shaft and disposed between the ears of each upstanding portion, a movable seat portion telescopically mounted on the stationary portion, screws connected to the underside of the seat portion and passing through the openings of the spaced parallel horizontal members, nuts between the last mentioned members of each upstanding portion, worm wheels included in said nuts and meshing with the worms and screws respectively and a handle on said shaft.

In testimony whereof I affix my signature.

JACOB E. TEMPLE.