

(No Model.)

L. K. FULLER.
ORGAN BENCH.

No. 554,672.

Patented Feb. 18, 1896.

Fig. 1.

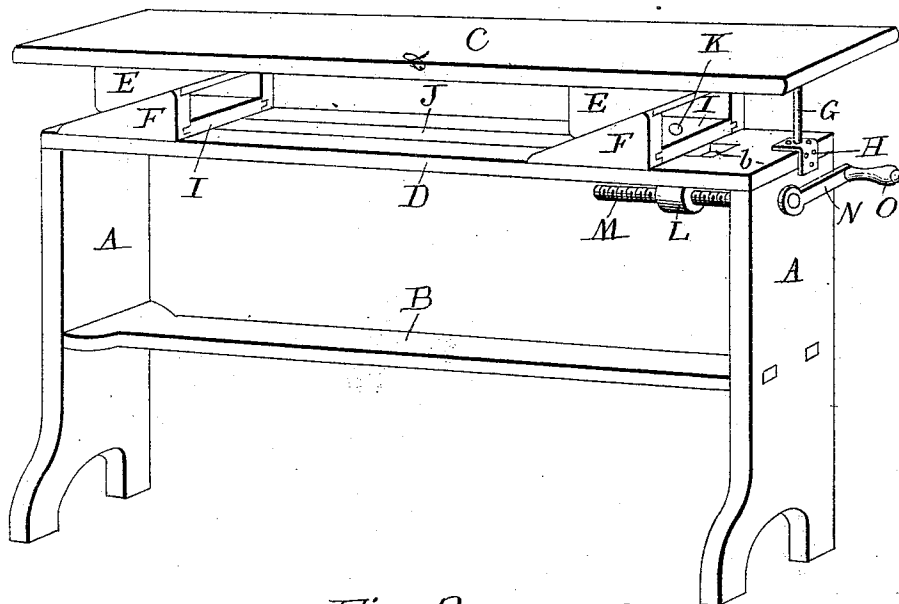


Fig. 2.

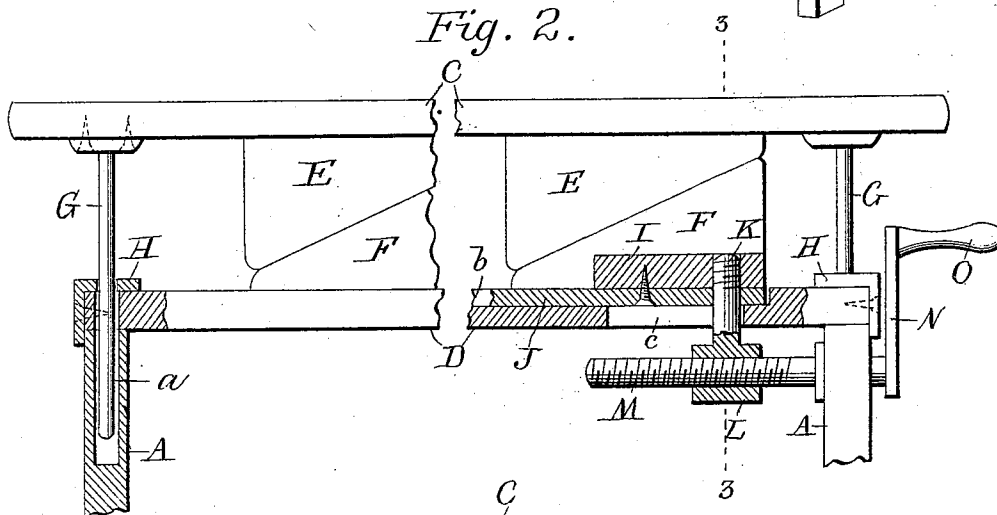
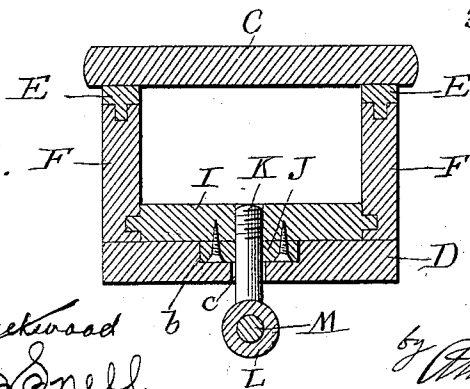


Fig. 3.



Witnesses
Albert B. Blackwood
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UNITED STATES PATENT OFFICE.

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ORGAN-BENCH.

SPECIFICATION forming part of Letters Patent No. 554,672, dated February 18, 1896.

Application filed May 10, 1893. Serial No. 473,724. (No model.)

To all whom it may concern:

Be it known that I, LEVI K. FULLER, of Brattleborough, in the county of Windham and State of Vermont, have invented certain new and useful Improvements in Organ-Benches, of which the following is a specification.

The present improvements relate to organ-benches such as are capable of being employed with organs having pedal-claviers; and the object of the invention is to render the seats of such organ-benches vertically adjustable. The mechanism for effecting the vertical adjustment of the seat is illustrated in the accompanying drawings, wherein—

Figure 1 is a perspective view of an organ-bench having the present improvements. Fig. 2 is a front view thereof, partly in vertical section. Fig. 3 is a vertical cross-section in a plane indicated by the line 3 3 in Fig. 2.

A A are the ends, B the middle girt, D the top girt, and C the seat, of the organ-bench. As usual in organ-benches, the seat is long proportionately to its width from front to back.

The vertical adjustment of the seat is accomplished by complementary wedges E F, carried by the seat and top girt respectively. At each end and fixed to the bottom of the seat are two of the wedges E E, the under faces of which are inclined, and at each end and upon the top of the girt C are two of the wedges F F, the upper faces of which are inclined. The inclined faces of the wedges E E rest upon the inclined faces of the wedges F F. The wedges E E constitute a portion of the seat, and the wedges F F constitute supports for the seat. The wedges E F are located at both ends of the seat and at its front and back. Preferably the adjacent inclined faces of the wedges E F are tongued and grooved, as shown, whereby the lateral movement of the seat is prevented.

To prevent its longitudinal movement, the seat has securely fixed at each end depending guide-rods G G, which extend through stationary apertured guide-plates H H, fixed to opposite ends of the bench and into vertically-extending sockets a in the ends A, whereby the vertical movement of the seat is provided for.

The seat is adjusted vertically by sliding

the wedges F F longitudinally along the top girt, D. The two wedges F at each end are connected by a bottom piece I, which rests and slides upon the top girt, D, and the two bottom pieces I I are connected together by a spline J, which fits and slides in a groove b, extending longitudinally in the upper face of the top girt, D. Incidentally, this spline J, being sunk into the groove b, prevents lateral movement to the wedges F. Fixed to one of the bottom pieces I is a depending stem K, carrying at its lower end below the top girt, D, an internally-screw-threaded sleeve L, through which there extends and fits a screw-threaded rotary horizontal shaft M, which is journaled in one of the ends A. Externally of the said end A said shaft has an operating-crank N and handle O.

By rotating the shaft M, the sleeve L, and simultaneously with it all of the wedges F F, are moved longitudinally along the top girt, and since the weight of the seat is borne by the inclined faces of the wedges F F upon which it rests the seat is hence raised or lowered, depending upon the direction in which the shaft M is rotated. To permit the longitudinal movement of the stem K, the top girt has a longitudinal slot c.

In order that the adjacent guide-rod G need not interfere with the shaft M, said guide-rod (or the shaft M, or both) is not located centrally with reference to the front and back edges of the seat.

Owing to the fact that the wedges are located at both ends and at the front and back of the seat, the seat is at all times and in all positions firmly supported, and consequently has no rocking or creaking movement when in use. The length of the wedges E (or of the wedges F, or of both) exceeds the extent of the longitudinal movement of the lower wedges F, so that at all times and in all positions the seat is firmly supported. The extent of vertical adjustment depends upon the extent of travel of the wedges F and the angle of their upper inclined faces. The longitudinal movement of the wedges is conveniently limited to the desired extent by the length given to the slot c.

The organ-bench seat is thus seen to be vertically movable and to be incapable of any other movement, and its vertical movement

is due to the fact that it rests upon longitudinally-movable supports, the seat at its supported points and its supports being relatively inclined, it not being essential that
5 both should be inclined. The firmness of the seat is due to the fact that it is supported at front and back at both ends and that it is incapable of longitudinal or lateral movement.

I claim as my invention—

10 The frame of an organ-bench having vertical apertures *a*, at the opposite ends, and top girt *D*, having longitudinal groove *b*, and longitudinal slot *c*, in combination with the organ-seat *C*, having two wedges *E*, *E*, at each
15 of its opposite ends, and guide-rods *G*, *G*, at its opposite ends sliding in said apertures *a*, *a*, respectively, the sliding and adjusting seat-support consisting of four wedges *F*, *F*, ar-

ranged in two pairs co-operating with the wedges *E*, *E*, of the seat, said wedges *F*, *F*, being connected by the spline *J*, sliding in the groove *b*, the stem *K*, depending from said seat-support extending through said slot *c*, and having screw-threaded sleeve *L*, and a screw-threaded shaft *N*, extending through
25 said sleeve, journaled in said organ-bench frame, and having a crank-handle for turning it, substantially as set forth.

In witness whereof I have hereunto signed my name in the presence of two subscribing
30 witnesses.

LEVI K. FULLER.

Witnesses:

WALTER H. CHILDS,
WELLS P. JONES.