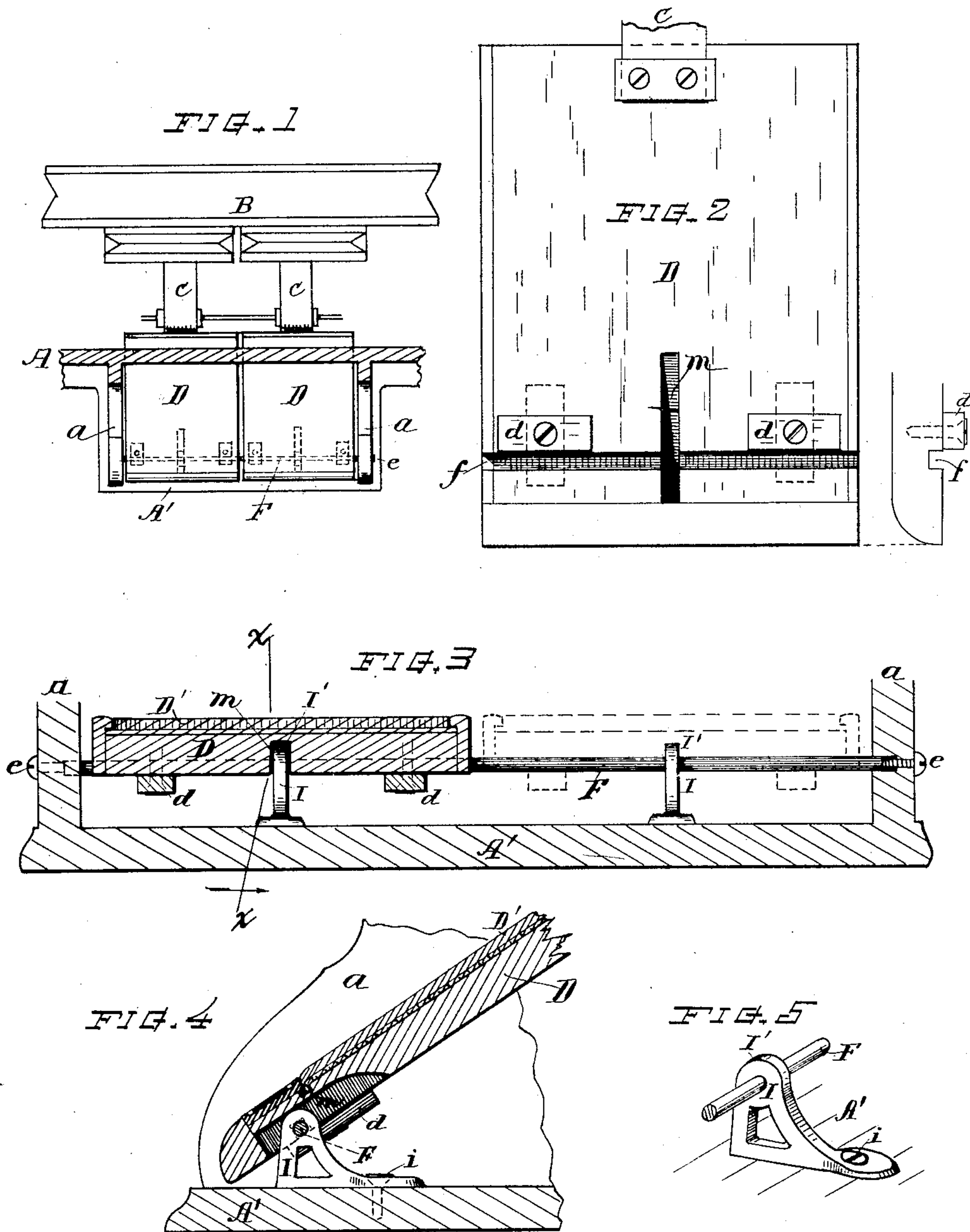


(No Model.)

E. H. LORING.
ORGAN PEDAL.

No. 465,279.

Patented Dec. 15, 1891.



WITNESSES.
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ORGAN-PEDAL.

SPECIFICATION forming part of Letters Patent No. 465,279, dated December 15, 1891.

Application filed July 6, 1891. Serial No. 398,561. (No model.)

To all whom it may concern:

Be it known that I, ELMER H. LORING, a citizen of the United States, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Means for Supporting and Retaining the Pedals of Reed-Organs, of which the following, together with the accompanying drawings, is a specification sufficiently full, clear, and exact to enable persons skilled in the art to which this invention appertains to make and use the same.

The object of my present invention is to afford a simple construction for hinging the bellows-actuating pedals of reed-organs and to provide an efficient means for supporting and retaining the pedal-boards in proper relation, while affording facility for the shrinking and swelling of the boards without causing derangement in the free working of the joint or binding of the pedal at either side in the frame. These objects I attain by the mechanism shown in the drawings, wherein—

Figure 1 is a section through the front of a reed-organ case, showing a plan view of a pair of organ-pedals and parts adjacent thereto. Fig. 2 is a bottom view of the pedal-board, showing the location of grooves in the under side. Fig. 3 is a section parallel with and adjacent to the hinging-joint, one pedal being removed. Fig. 4 is a vertical section at line *x x*, and Fig. 5 is a perspective view of the support-bracket.

In my invention I employ for the hinging-axis of the pedals a wire or rod that extends across between the cheek-frames. This rod is passed through a supporter or guide-bracket disposed at a central position relatively to the pedal, and the head of which bracket projects above the rod for engagement with the pedal, the under side of the pedal-board being fitted with a vertical groove or recess that matches over the upwardly-projecting part of the bracket, thereby retaining the pedal-board at its central position and from moving laterally on the rod, also supporting the pedal against downward pressure or springing action while leaving the board free to swell and contract laterally. The joint-rod is fitted into the pedal by a transverse groove, and the pedal-board is secured thereto by turn-buttons or

equivalent means, the several parts being preferably constructed and arranged as herein described.

Referring to the drawings, A denotes the frame or casing of a reed-organ, which may be of the usual well-known kind, and containing the bellows and exhausters B, with operating connections C, whereby the exhausters are worked from the pedals in the usual manner.

The parts of the instrument not herein particularly specified may be of the usual or any well-known structure.

a a indicate the cheek-pieces, and A' the bottom piece of the frame.

D indicates the pedal, composed of a piece of board of the usual dimension and in which the grain of the wood is disposed longitudinally or in up-and-down direction, as required for strength, and D' indicates the carpet or fabric covering on the face of the pedal-board.

F indicates the transversely-disposed wire or rod extending horizontally across from one cheek to the other and having its ends supported therein. A screw *e*, fitted to the cheek-piece, prevents endwise movement of the rod.

I indicates the bracket, guard, or supporter, which stands upon and is rigidly secured to the bottom piece A' of the frame by a screw *i*, or in other efficient manner, at a position central to the pedal and having an eye or opening in its head I', through which the rod F is passed, so that said rod is firmly sustained thereby. The head of the bracket projects above and around the rod, as shown. A single bracket is employed for each pedal. The pedal-board D is made with a transverse groove *f* in its under side for matching onto the rod F, and also with a vertical groove *m*, that fits over the head I' of the bracket I when the parts are assembled. Turn-buttons *d* are arranged near either edge of the pedal that swing across the groove *f*, for holding the pedal to the rod, the parts being disposed when put together for action, substantially as indicated in Figs. 3 and 4.

By means of the supporter-bracket I and groove *m* the pedal-board is retained central and prevented from sliding laterally on the hinging-rod F, while it is free to shrink and swell with climatic changes without binding at the edges or interfering with the adjacent

pedal. The hinging-rod and pedal-board are also sustained at the center of the pedal against the pressure of the foot, and springing of the rod or splitting of the pedal-board is thus obviated. This construction of the hinge and supporter is simple and comparatively inexpensive and can be manufactured with ease and facility.

I am aware that organ-pedals have heretofore been hinged upon a transverse rod, and do not therefore broadly claim the use of a rod for such purpose irrespective of the construction.

I claim as my invention herein to be secured by Letters Patent—

1. In pedal mechanism for reed-organs, the bracket fixed to the frame, in combination with the pedal-board having in its under side a vertical groove that fits over the head of said bracket, substantially as and for the purpose set forth.

2. The combination of the transverse hinging-rod, the bracket or supporter fixed to the frame and having said rod passed through its

head, the pedal having in its under side a transverse groove for matching onto said hinging-rod, and a vertical groove that engages with the head of said bracket, and buttons or means for securing said pedal in connection with the hinging-rod, substantially as and for the purpose set forth.

3. The combination of the hinging-rod supported in the cheek-pieces, stops or screws to prevent endwise movement of said rod, the pair of pedals fitted with transverse grooves upon said rod with spaces at either side of the pedals, turn-buttons that confine the rod within said transverse grooves, and a guard or supporter that retains the center of the pedal at fixed relation on the rod, while leaving the sides of the pedal-board free to expand or contract, substantially as set forth.

Witness my hand this 23d day of June, A. D. 1891.

ELMER H. LORING.

Witnesses:

CHAS. H. BURLEIGH,
ELLA P. BLENUS.