

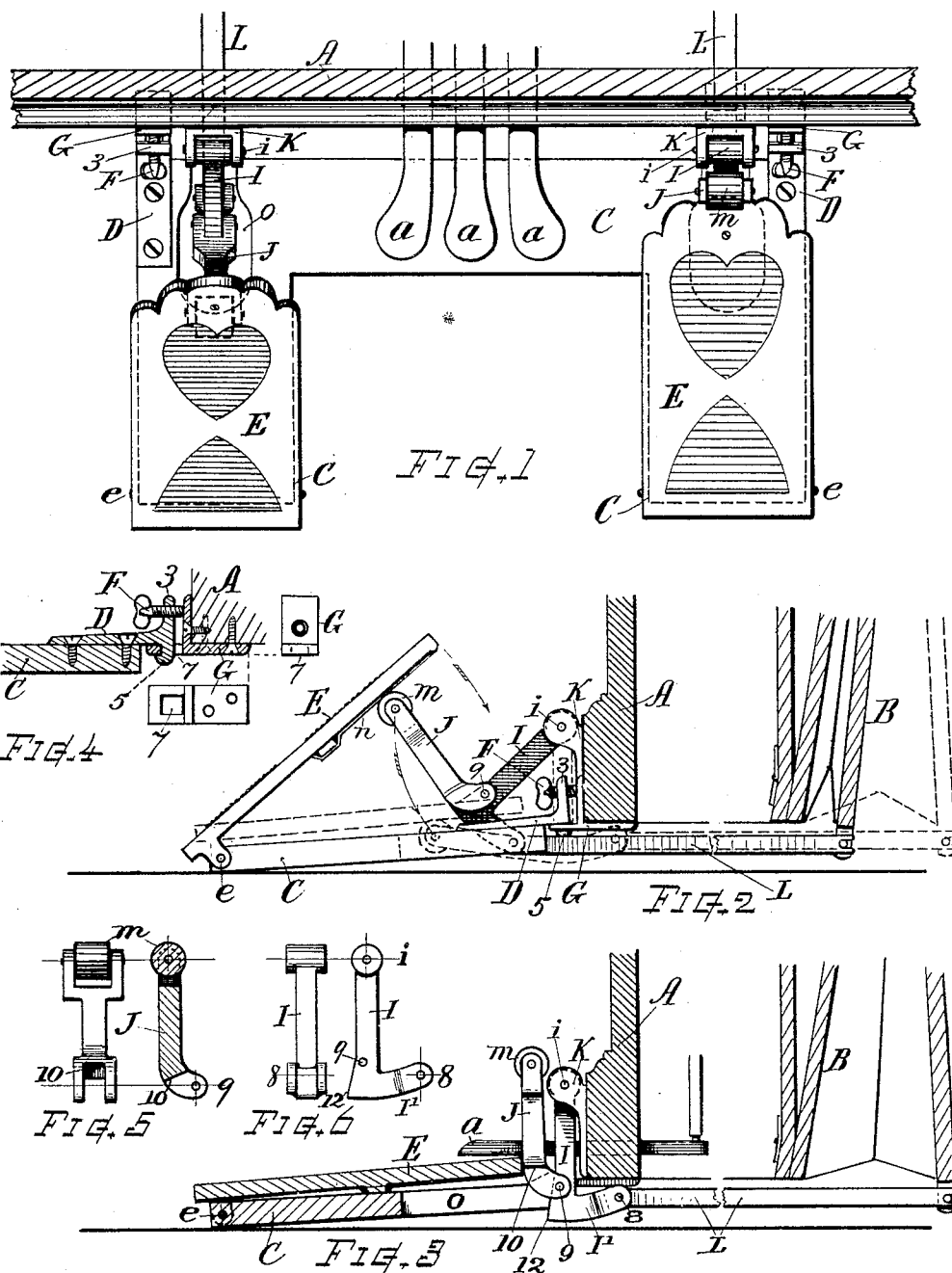
(No Model.)

N. D. HOSLEY.

ATTACHABLE PEDAL FOR COMBINATION PIANOS.

No. 582,647.

Patented May 18, 1897.



Witnesses.

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ATTACHABLE PEDAL FOR COMBINATION-PIANOS.

SPECIFICATION forming part of Letters Patent No. 582,647, dated May 18, 1897.

Application filed March 8, 1897. Serial No. 626,442. (No model.)

To all whom it may concern:

Be it known that I, NELSON D. HOSLEY, a citizen of the United States, residing at Meriden, in the county of New Haven and State of Connecticut, have invented a new and useful Attachable Pedal for Combination-Pianos and Similar Instruments, 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.

This invention is more especially designed for the blow-pedals to be attached to pianos when pneumatic or automatic playing mechanism and wind-inducing bellows are applied thereto; but said invention is also applicable and may be employed for organs, combination instruments, or other instruments of similar kinds in which pedal mechanism is required.

One part of my invention relates to the construction and combination of means for supporting and attaching the pedal base or frame to the front of the piano-case, the objects being to provide an attachable pedal mechanism that can be applied to piano-cases without cutting away portions of the case; also, to render the pedal-base readily removable and replaceable when desired, and to provide a convenient interlocking joint therefor, and, further, to render the attachment adjustable, so that the pedal-base will rest securely and firmly when used upon a bare floor or with any desired thickness of rug or carpet beneath said pedal-base.

Another part of my invention relates to the novel construction of the pedal-levers and their arrangement in a manner that will permit of the levers being folded back and the pedal laid flat, or substantially so, upon its base, the end of the pedal locking or supporting the parts in non-operative position, the object being to provide a pedal mechanism that can readily and conveniently be adjusted when idle to such positions as will not materially encumber the fore space or in any way interfere with the free access to and use

of the regular piano-pedals when the piano is used for ordinary practice, or without operating the automatic action and blowing appliances; also, to confine the pedal-levers, together with the bellows, at a fixed position and in compact order when not required for use. The particular subject-matter claimed is hereinafter definitely specified.

In the drawings, Figure 1 is a plan view of pedal mechanism embodying my invention. Fig. 2 is a side view showing the parts in operative position, also by dotted lines indicating the action movement. Fig. 3 is a section view showing the parts as adjusted to non-operative position. Fig. 4 shows the detail of the attaching devices for the pedal-base. Fig. 5 shows the roller-arm separately by a rear view and section, and Fig. 6 shows the swing-lever separately by rear view and side view.

Referring to parts, A indicates the lower portion of a piano-case front supporting the usual piano-pedals *a a*, and B indicates an exhaustor or bellows arranged within or at the rear of the instrument-case for inducing the air-currents that operate the pneumatic action, motor, or organ-reeds, (not herein shown, but which may be of any desired or well-known arrangement,) and for the operation of which bellows my improved pedal mechanism is intended.

C indicates the pedal-base, consisting of a connecting-strip with two forwardly-extending portions to which the pedals or foot-plates E are hinged at *e*. This base is provided at its rear edge with earpieces D, rigidly fixed thereon, each having an upward transverse flange 3 at its rear end and a downward forwardly-hooked lug 5 beneath. (See Fig. 4.) A set-screw F is arranged through the flange near its upper edge, as indicated.

For attachment to the piano I provide an angle-plate G, that fits the bottom front angle of the case A without cutting thereinto, but to be firmly secured thereto by screws. Said angle-plate has a projection or flange with a hole 7 therein for receiving the hooked lug 5, which latter is inserted and hooked under

the fore edge of the flange, thus affording a detachable interlocking joint for the pedal-base. The set-screw F when turned in until its end bears against the front of the angle-plate confines the parts in place.

I indicates a swing lever or arm, the upper end or head of which is pivotally supported at *i* in connection with the ears of a hinging-piece or fulcrum-plate K, that is seated flat upon the front surface of the piano-case A and secured thereto by screws. The lower part of said swing-lever is formed with a backward-curved extension I', its end forked or fitted for pivotal connection at 8 with the coupling rod or bar L, that passes beneath the body of the instrument and connects said lever I with the bellows-exhauster.

J indicates an arm carrying at its bifurcated upper end a roller *m*, while its lower end, which is also bifurcated, is backwardly offset and pivoted at 9 to the swing-lever I. The crotch 10 of arm J is fitted to shoulder or seat against the heel 12 of lever I when said roller-arm is swung down to its normal working position, as in Fig. 2, and to there take firm support for moving with the lever I as the latter swings on its pivot *i*, the two parts I and J together forming an anchor-shaped swinging connection between the pedal E and rod L. The pedal rests upon the roller *m*, its under surface being fitted with a runway for said roll, and preferably surfaced with felt *n*. When the pedal is depressed, it forces the roll *m* and arm J downward and swings back the lever I and through the coupling-rod L operates the bellows. (See dotted lines on Fig. 2.) The levers and pedal are raised by the action of the return-spring (not shown) on the bellows-exhauster exerting its force in usual manner. An opening O is formed through the pedal-base for the play of the levers I and J, as indicated.

The front edge of the pedal-base rests upon the floor and thus affords a firm support beneath the hinging-points of the pedals, and the relation of this front edge of the base to the height of the attaching-angle G can be varied, still preserving its degree of firmness, by means of the thumb-screws F turned in to a greater or less extent, so as to accommodate the degree of inclination or level that the base assumes, either resting upon the floor or upon a carpet or rug of greater or less thickness laid beneath its front edge, or for adjustment to piano-cases of different heights from the floor. The base C can be detached at any time by simply loosening the screw F and unhooking the lugs 5 from the angle-plates.

For adjusting the mechanism to its non-operative position the roller-arm J is turned up against the front of the swing-lever I, and the pedal-plate is then pressed down close upon the base C. The end of the pedal then

rests against the front of the levers and there retains or locks the parts in position, as shown in Fig. 3, a position of non-use where the levers and pedals E are out of the way from interfering with free access to the piano-pedals *a* when it is desired to use the instrument manually and without using its automatic action or blow-pedal mechanism.

In Fig. 1 the pedal at the left is shown in normal position for use, while the pedal at the right is shown as laid down in non-operative position. If desired, a block *s* may be fixed to the under side of the pedal to support it otherwise slightly clear from the base when at its non-operative position.

I claim and desire to secure by Letters Patent—

1. In combination with a piano-case and an attachable pedal mechanism, the fulcrum-plate seating flat upon the exterior surface of the case, and the angle-plate fitting the corner of the case, without cutting thereinto, said plates provided with projections for receiving the levers and base of the pedal mechanism for connection therewith relatively, as set forth.

2. In a pedal attachment for automatic pianos, the combination of a folding pedal-lever, a pedal unattached to said lever, and a pedal-base for supporting said pedal connected with the piano-case by a detachable interlock connection, substantially as set forth.

3. In an attachable pedal mechanism for purposes set forth, the pedal-base provided with earpieces each having at its end an upward flange and a hooked lug beneath; in combination with angle-plates secured to the lower corner of the case and having a perforated projection for the reception of said hooked lugs, and the set-screws threaded in said earpiece-flanges to bear against said angle-plate, substantially as set forth.

4. The combination with the bellows coupling-bar, and the swinging pedal-plate; of the swing-lever pivoted at its upper end, its lower end backwardly extended and connecting with said coupling-bar, the fulcrum-plate supporting the pivot of said lever, the roller-arm pivoted to said swing-lever and carrying at its end a roll that underlies said pedal-plate; the crotch of said roller-arm adapted to seat against the heel of said swing-lever when down, and said arm adapted to fold up at the front of said swing-lever allowing the pedal-plate to drop in front of the same, substantially as set forth.

5. The combination of the pedal-base, the interlocking attaching-joints therefor, the pedal-plates hinged to the fore part of said base, the pedal swing-lever having its top end pivoted in the fulcrum-plate fixed to the front of the case, its lower end joined to the coupling-bar, the roller-arm pivoted on said lever and adjustable to rigidly rest against

the heel of said lever when at working position; and to fold up against the head of said lever, the pedal-plate descending in front of said parts and its end retaining the same in
5 non-operative position, and the coupling-bar connecting said lever and the bellows, all substantially as and for the purposes set forth.

6. The pedal-base consisting of the connecting-strip and forwardly-extending portion
10 carrying the pedal-hinges, and having the

openings or recesses O, in combination with the pedals, swing-levers and attaching devices, substantially as set forth.

Witness my hand this 4th day of March, 1897.

NELSON D. HOSLEY.

Witnesses:

A. G. KUHNLE,
N. E. RANDALL.