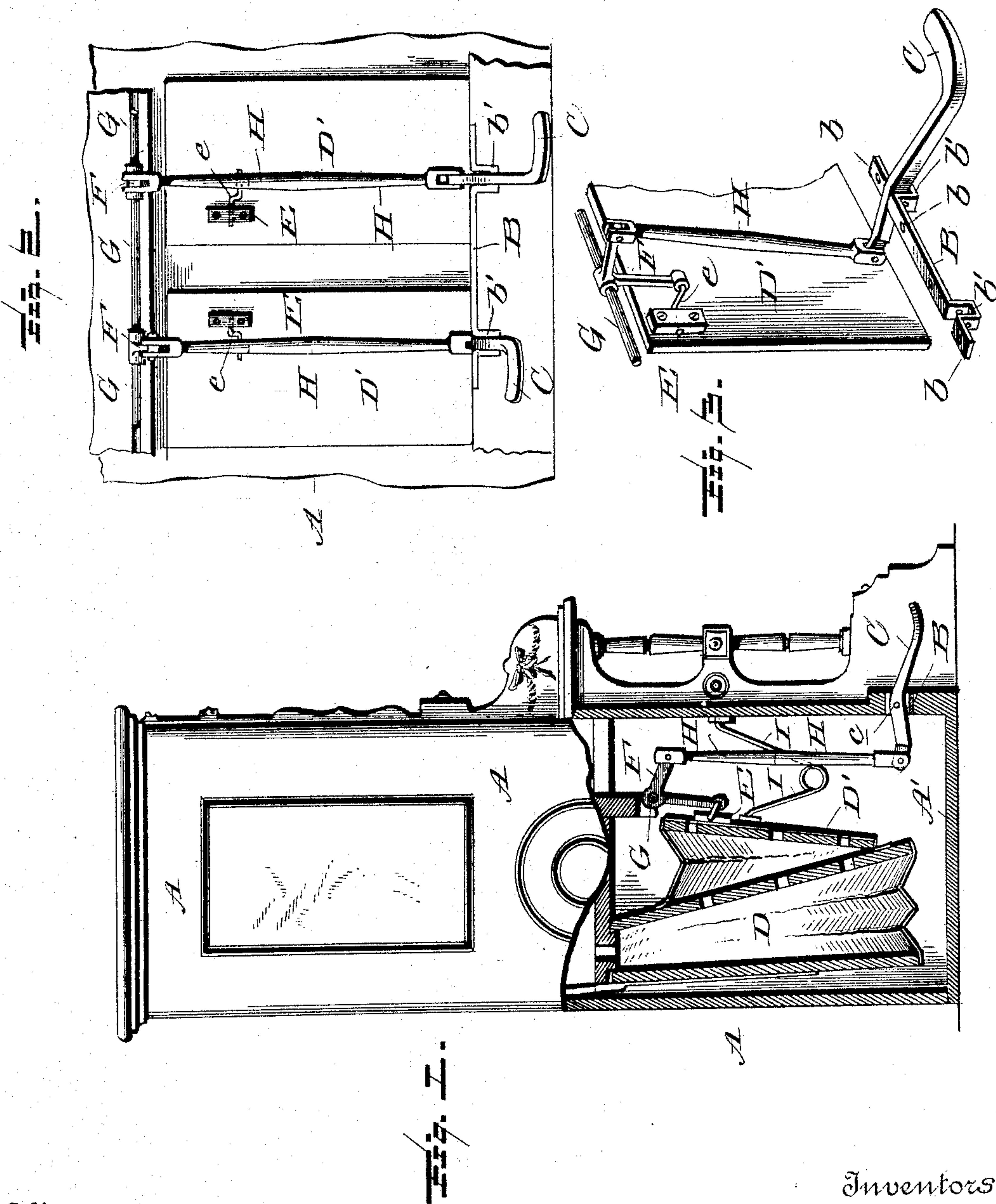


(No Model.)

H. LEHR & J. DIEHL.
PEDAL ATTACHMENT FOR ORGANS.

No. 490,970.

Patented Jan. 31, 1893.



Witnesses

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UNITED STATES PATENT OFFICE.

HORACE LEHR AND JACOB DIEHL, OF EASTON, PENNSYLVANIA.

PEDAL ATTACHMENT FOR ORGANS.

SPECIFICATION forming part of Letters Patent No. 490,970, dated January 31, 1893.

Application filed September 22, 1892. Serial No. 446,513. (No model.)

To all whom it may concern:

Be it known that we, HORACE LEHR and JACOB DIEHL, citizens of the United States, residing at Easton, in the county of North-

ampton, State of Pennsylvania, have invented certain new and useful Improvements in Pedal Attachments for Organs, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to certain new and useful improvements in pedal attachments for organs and it has for its objects among others to provide a simple and cheap construction in which no strap is employed to stretch or tear; in which there is comparatively no mechanism to get out of order; in which the movement will be direct; in which the friction is reduced to the minimum, and in which the movement of the foot produces the greatest movement of the bellows of the organ.

Other objects and advantages of the invention will hereinafter appear and the novel features thereof will be specifically defined by the appended claims.

The invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form a part of this specification and in which

Figure 1 is an end elevation, with parts in vertical cross section, of an organ embodying our invention. Fig. 2 is a detail in front elevation. Fig. 3 is a perspective view of the parts constituting our invention.

Like letters of reference indicate like parts throughout the several views in which they appear.

Referring now to the details of the drawings by letter, A designates the organ case and A' its base.

Within the case or at the front edge thereof is arranged a metallic plate B which is secured by suitable means passed through the holes b therein, the said plate having a depression b' in which is pivoted on a pivot c the treadle or pedal C, the pivot thereof being held in the vertical parallel portions of the depression as shown. The pedals may be of any suitable pattern and made as ornamental as may be desired. The bellows D may be of any approved form and to the exhaustor D' thereof is attached a block E in which is held a crank

arm e to one end of which is loosely held the end of one arm of the bell crank lever F which is supported at its elbow upon a shaft or rod G suitably supported within the case.

H is a rod or pitman pivotally connected with the inner end of the pedal or treadle and with the horizontal arm of the bell-crank lever as seen best in Fig. 3. The screws or pivots which connect the ends of the rod H with the pedal and with the bell-crank lever are so fixed that they are tight in the said rod and loose in the lever and pedal so as to do away with wear, and decrease the friction.

I represents the usual retracting spring to close the exhaustor when pressure is relieved from the pedal.

The operation will be readily understood from the foregoing description when taken in connection with the annexed drawings, and a detailed description thereof is not deemed necessary.

Modifications in detail may be resorted to without departing from the spirit of the invention or sacrificing any of its advantages.

It is deemed important that the pedal be horizontally-disposed and that the bell-crank-lever be arranged with its elbow or pivot uppermost as by this arrangement economy of space is provided.

What we claim as new is;—

1. The combination with a horizontally-arranged pedal, pivoted between its ends and the bellows, of a bell-crank lever arranged with its pivot uppermost and connected with the bellows and pivotally with the pedal, as set forth.

2. The combination with a horizontally-arranged pedal pivoted between its ends and the bellows, of an interposed pivotal connection between the same, as set forth.

3. The combination with a horizontally arranged pivoted pedal, of a rod pivotally connected therewith, and a bell-crank lever pivoted with its elbow uppermost and pivotally connected with said rod and adapted for pivotal movement with the bellows of an organ, as set forth.

4. The combination with a pivoted pedal, of a crank arm connected with the bellows, a bell crank lever connected with said arm and pivotally connected with the pedal, as set forth.

5. The combination with a plate having a

depression, of a pedal pivoted in said depression, a rod pivotally connected with the pedal, and a bell-crank lever pivotally connected with the said rod and adapted for connection
5 with the bellows of an organ, as set forth.

6. The combination with a pivoted pedal and the bellows, of a crank arm mounted on the bellows and a bell crank lever having one arm mounted on said crank arm and the other

pivotally connected with the pedal, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

HORACE LEHR.

JACOB DIEHL.

Witnesses:

AMOS D. HUTCHINSON,

LYMAN B. CLAPPER.