2 Sheets—Sheet 1.

G. C. A. CLASS.

PIANO-PEDAL ATTACHMENT.

No. 186,110. Patented Jan. 9, 1877.

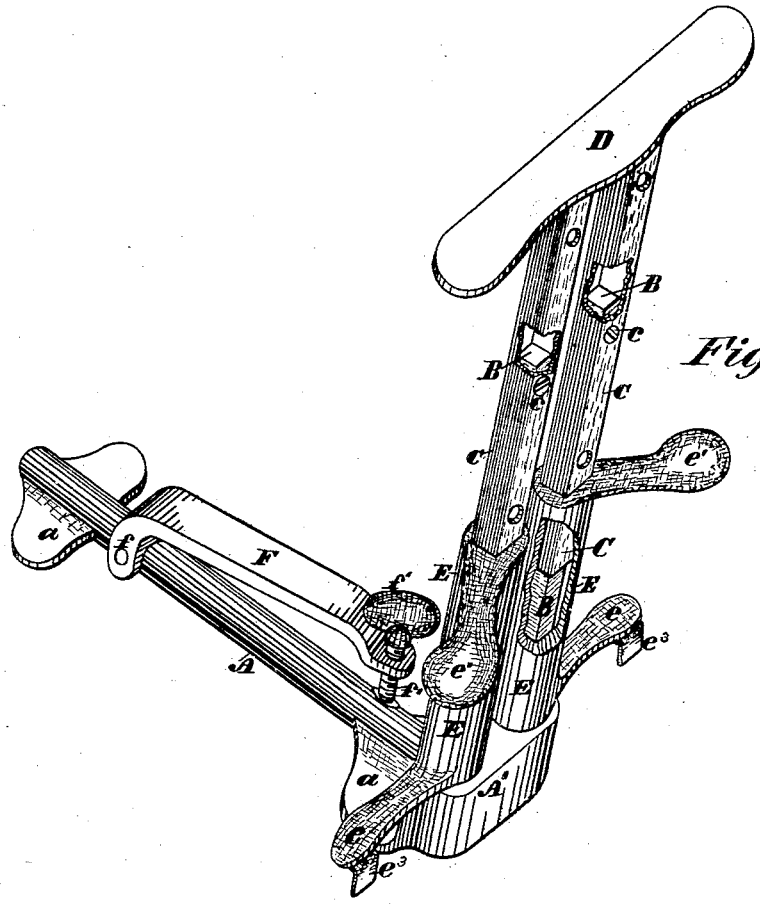

Fig. 1

Witnesses
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2 Sheets—Sheet 2.

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PIANO-PEDAL ATTACHMENT.

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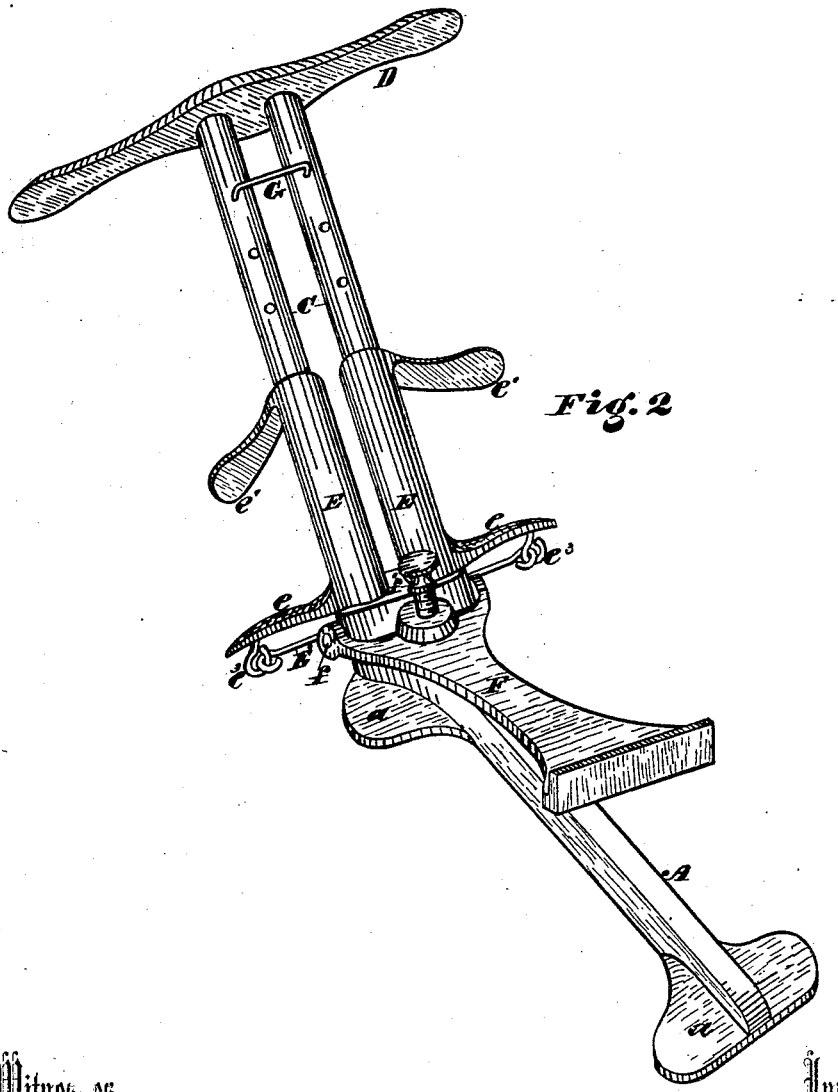

Fig. 2

Witnesses

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UNITED STATES PATENT OFFICE.

GEORG C. A. CLASS, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN PIANO-PEDAL ATTACHMENTS.

Specification forming part of Letters Patent No. **186,110**, dated January 9, 1877; application filed June 10, 1876.

To all whom it may concern:

Be it known that I, GEORG CHARLES AUGUST CLASS, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Piano-Pedal Attachment; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification, in which—

Figure 1 is a perspective, and Fig. 2 is a perspective of a modification, of my invention.

My present invention relates more especially to the device for which Letters Patent of the United States, dated May 13, 1873, were issued and granted to me; and has for its object to provide a more secure arrangement for the base than has been heretofore obtained.

A further object of my invention is to make the foot-rest vertically adjustable, so as to render it adaptable to children or persons of various growths.

A still further object of my invention is to provide means for working both the "loud" and "soft" pedals.

My improvements accordingly consist in the peculiar construction, combination, and arrangement of parts, as hereinafter more fully described.

Referring to the accompanying drawing, A designates the base, consisting of a horizontal bar, having lateral extensions or feet *a a*, and terminating in a head-block, A′, from which rise two inclined standards, B B. Said standards may be square bars, over which slide and fit tubes C C, having sockets of corresponding shape, and sustaining a transverse bar, D, which forms the foot-rest. This rest is vertically adjusted by sliding the tubes C C on the standards B B, and fastening them, when adjusted, by means of a set-screw, *c*. E E represent other shorter tubes, having, if desired, square bores, and encircling the tubes C C, or fitting thereon in such manner as to be easily slid up and down without rotating on said tubes. The tubes E are each provided with two lateral arms, *e* e^1, set at an angle to each other, the arm *e* being designed to rest on the pedal, while the arm e^1 is to be pressed by the child's foot when said pedal requires to be worked. F is a block, hinged at *f* to the base A, and provided with a set-screw, *f′*, which works against said base, as shown. The base A being placed beneath the piano lyre or harp, by turning the screw *f′* downwardly, the block F will be raised, turning on its hinge *f*, and pressing against the under side of said lyre. In this way the device will be firmly secured in position for working the pedal.

To prevent any "wabbling" of the attachment lugs e^2 may be formed on or fastened to the arms *e* in such manner as to pass down outside of the pedals, and thus secure the object in view.

The object of making the standards B B and tubes C and E square, as described, is to prevent rotation. This construction, however, is open to the objection that when the parts are so made the tubes E E do not slide easily. I prefer, therefore, to make said standards and tubes of circular form in cross-section, the internal diameter of the tubes E E being somewhat greater than the complete or outside diameter of the tubes C C, thus permitting the former to slide easily, and without binding on the latter.

In order to prevent the tubes E E from turning on the tubes C C, thus getting the arms e^1 out of position, I connect the arms *e e* by a rod, E′, or any equivalent device which may conveniently extend from the screws e^3 e^3 in said arms. This also dispenses with the lugs e^2.

This modified construction of circular tubes is shown in Fig. 2, wherein is also illustrated a substitute for the screw, by which the tubes C C are held on the standards B B, when the adjustment of the foot-rest D is accomplished, said substitute consisting of a U-shaped wire, G.

What I claim as my invention is—

1. The base A, for a piano-pedal attachment, having lateral extensions *a a*, and the head-block A′, substantially as shown and described.

2. In a piano-pedal attachment, and in combination with a base, A, a hinged block or

bar, F, adjustable by means of a screw, f', so as to fasten the device beneath the lyre of a piano, substantially as described.

3. In combination with the double standards B B the extensible tubes C C, sustaining the foot-rest D, and adjustable by means of the set set-screw c, substantially as set forth.

4. The sliding tube E, having lateral arms e e^1, substantially as and for the purposes described.

5. In combination with the arms e of the tubes E E, the lugs e^2, substantially as shown and set forth.

6. The combination of base A, standards B B, tubes C C E E, foot-rest D, and hinged adjustable block F, the several parts being constructed and arranged for operation substantially as shown and described.

7. In combination with the arms e e of the tubes E E, the connecting-rod E′, substantially as and for the purpose described.

In testimony that I claim the foregoing I have hereunto set my hand this 2d day of June, 1876.

GEORG CHARLES AUGUST CLASS.

Witnesses:

M. DANL. CONNOLLY,

CHAS. F. VAN HORN.