

(No Model.)

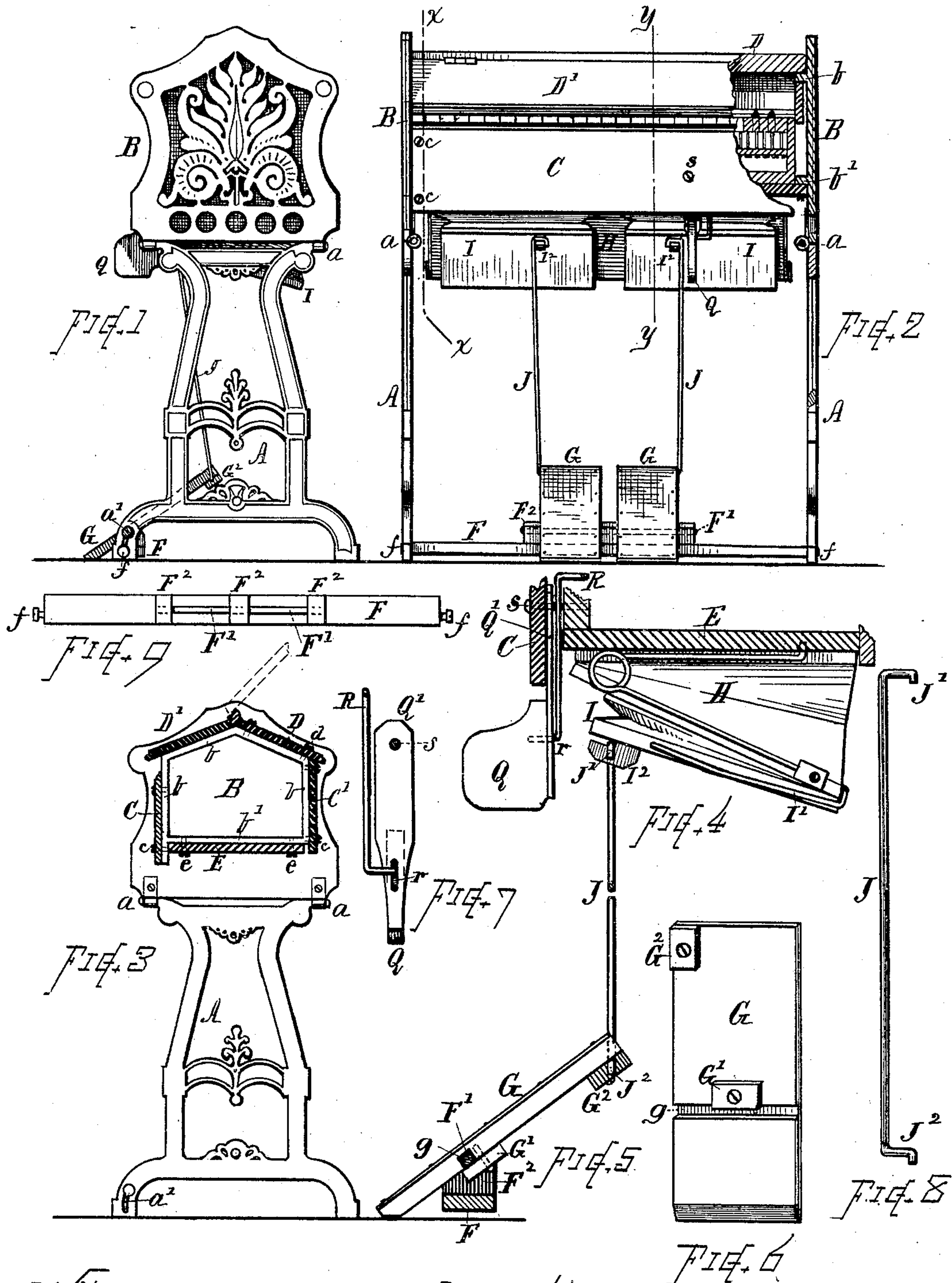
2 Sheets—Sheet 1.

E. P. CARPENTER.

REED ORGAN.

No. 246,864.

Patented Sept. 13, 1881.



WITNESSES—

Geo. M. Rice

Geo. M. Rice 2^d

INVENTOR—

Edwin P. Carpenter

By Chas. H. Burlingame

Att'y.

(No Model.)

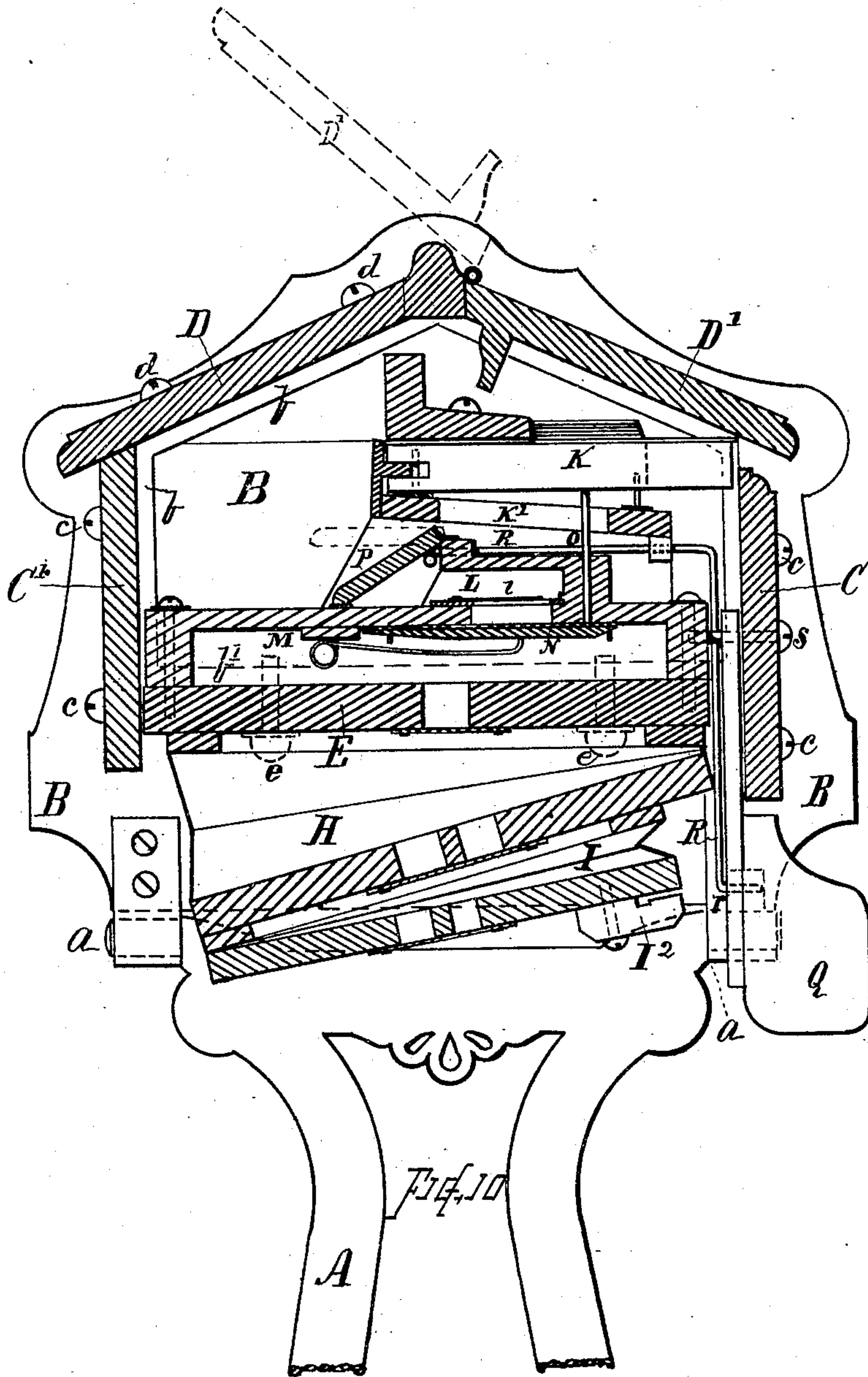
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— SCALE OF INCHES —

Witnesses _____

S. R. Barton

Rev. Mr. Rice 2^d

Inventor

Edwin P. Carpenter

By Chas. H. Burleigh
Atty.

Attij.

UNITED STATES PATENT OFFICE.

EDWIN P. CARPENTER, OF WORCESTER, MASSACHUSETTS.

REED-ORGAN.

SPECIFICATION forming part of Letters Patent No. 246,864, dated September 13, 1881.

Application filed April 30, 1881. (No model.)

To all whom it may concern :

Be it known that I, EDWIN P. CARPENTER, of Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Reed-Organs; and I declare the following to be a description of my said invention sufficiently full, clear, and exact to enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

The object of my present invention is to provide a portable organ of neat appearance and of such construction that it can be manufactured with facility and at comparatively small cost; also, to so combine the parts that they may be readily and conveniently put together or taken apart, and to adapt the action, case, and support devices for packing into close space for storage or shipment.

To attain these objects my invention consists in the improved organ shown in the drawings and hereinafter described, the particular features claimed being hereinafter definitely specified.

Figure 1 is an end view of my improved organ. Fig. 2 is a front view of the same, a portion being shown broken away to reveal internal construction. Fig. 3 is a vertical section at line *x x*, Fig. 2. Fig. 4 is a detail view on larger scale, showing side of bellows and knee-swell. Fig. 5 is a side view of one of the pedals and section of the bar for supporting the same. Fig. 6 is a bottom view of one of the pedals. Fig. 7 is a rear view of the knee-swell. Fig. 8 is a view of one of the rods for connecting the pedals with the bellows-feeders. Fig. 9 is a plan view of the pedal-bar; and Fig. 10 is a vertical section through the case at line *y y*, Fig. 2, drawn to a larger scale, and showing the location and arrangement of the action in relation to the parts of the casing and the construction thereof.

In the construction, A denotes the supporting-legs or end standards, consisting of ornamental cast-metal frames provided with suitable feet and having hinging pins or studs *a a* at their upper ends, as indicated.

B denotes the end pieces of the casing, hinged to the standards at *a*, and provided with flanges

or offsets *b b'* on their inner sides, to receive the front board, C, back board, C'; top D, and action-board E, which extend from end to end, in the manner shown, and are secured to the flanges *b b'* by screws *c, d*, and *e*, respectively. The ends B may be made with open ornamental scroll-work, such as desired, with a suitable colored lining of silk or other material, or may be formed solid, if preferred. The front part of the top D' is hinged to swing upward, as indicated by dotted lines, Figs. 3 and 10, and is provided with a cleat to support the music.

F indicates a bar, fitted between the front feet of the standards A, which serves as a brace for the legs and as a support for the pedals G. Said bar is provided with studs or screws *f* at its ends, (see Fig. 9,) and may be locked in position by passing the studs *f* into slots or openings *a'* formed through the feet, as shown in Figs. 1 and 3. The pedals G are made with transverse slots *g* and button-blocks G' on their under side, and are supported and fulcrumed on the rod F', arranged through blocks or lugs F², fixed to the top of the pedal-support bar F, the rod F' fitting into the slot *g* and the button G' being turned across said slot to retain the parts in connection, as indicated in Fig. 5.

The bellows H and feeders I are arranged on the under side of the action-board E, said feeders being provided with torsional closing-springs of wire, I', and with jaw-blocks I², of the form shown, to receive and retain the connecting-rods J, which latter are formed from wire, with their upper and lower ends bent in the manner shown at J' and J², Fig. 8, respectively. The part J' is hooked over the jaw-block I², and the part J² is retained to the corner of the pedal G by the grooved button-block G², as shown, said button being turned to the side for attaching and detaching the rod when desired. By this construction the rods J can readily be detached from the pedals and feeders, and the pedals can also be detached from the support-bar F, which latter can be removed from between the feet of the standards A without trouble, when the standards are free to be folded inward against the bottom of the feeders I. The hinges *a* are set inside of the line of the standards A, so that said standards will not swing outward beyond a vertical position with the ends B.

In the action, K indicates the keys; K', the key-frame; L, the reed-board, with cells and reeds *l*; M, the sounding-board; N, the valves, worked by the pitmen O; and P, the expression-swell. These parts are arranged or built upon the action-board E, and are inserted into the interior of the case from its under side, and are supported therein by the screws *e*, which pass through the ends of said action-board and screw into the flanges *b'* formed on the ends B, as illustrated.

Q indicates the knee-swell or piece for opening the swell-board P, said board P being actuated by the swinging wire or rod R, arranged as indicated in Fig. 10. The piece Q is provided with an arm, Q', which extends up behind the front board, C, and is pivoted on the screw *s*, which extends through the front board into the action-frame, as shown. Said piece Q is provided with a slot, *r*, which receives the offset end of the actuating-rod R, so that a swinging movement of the piece Q will be imparted to said rod, and the swell thereby operated.

It will be observed that by constructing and arranging the parts in the manner shown and described, I have produced a useful, compact, and desirable portable organ of neat appearance, also with detachably-connected parts, adapted for ready and convenient packing and unpacking when required.

It will also be seen that the construction is simple and durable, and the instruments can be manufactured with facility and at small cost.

What I claim as of my invention, and desire to secure by Letters Patent, is—

1. The organ-case composed of the ends B,

having flanges or offsets *b b'*, the cast-metal standards A, hinged to said ends at *a a*, and the front board, C, back board, C', and top boards, D D', arranged and secured to the flanges of said end pieces by the screws *c d*, in the manner substantially as shown.

2. The pedal G, provided with the transverse groove *g*, in combination with the detachable support-bar F, having the fulcrum-rod F', and the pivoted button-block G' for detachably connecting said parts, as set forth.

3. The connecting-wires J, formed with locking ends J' and J², as shown, in combination with the detachable pedals having grooved button-blocks G², and the bellows-feeders I, having jaw-blocks I², as and for the purposes set forth.

4. The swinging knee-piece Q, made as shown, with pivoting-arm Q' and slot *r*, in combination with the front board, C, and swinging swell-actuating wire R, said parts being arranged and operating as described.

5. In combination, as shown and described, the cast-metal folding standards A and flanged ends B, the case pieces C C' D D', connecting said ends, the detachable support-bar F, the detachable pedals G and connecting-rods J, and the blowing, sounding, and key-action devices, all constructed and arranged in the manner and for the purposes hereinbefore set forth.

Witness my hand this 27th day of April, A. D. 1881.

EDWIN P. CARPENTER.

Witnesses:

CHAS. H. BURLEIGH,
S. R. BARTON.