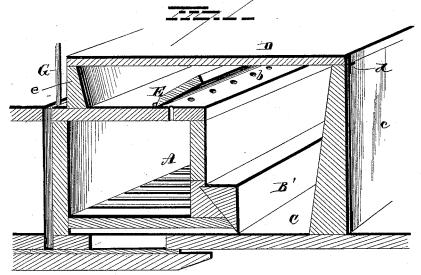
(No Model.)

## E. L. MUNDY.

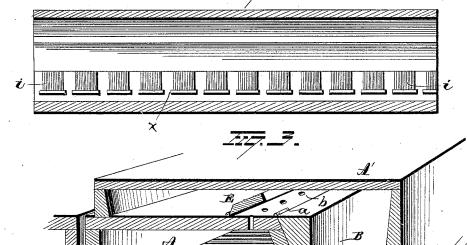
REED ORGAN.

No. 304,544.

Patented Sept. 2, 1884.









Ellis & Mundy
By Suppties Supptit

## UNITED STATES PATENT OFFICE.

ELLIS L. MUNDY, OF NORWALK, OHIO.

## REED-ORGAN.

SPECIFICATION forming part of Letters Patent No. 304,544, dated September 2, 1884.

Application filed June 24, 1882. (No model.)

To all whom it may concern:

Norwalk, in the county of Huron and State of Ohio, have invented certain new and useful Improvements in Reed-Organs; 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 the same.

My invention relates to reed-organs, and more particularly to the construction of chambers in a reed-organ to improve the tone proceeding from the reeds of the instrument.

In the drawings, Figure 1 is a section, shown 15 in isometric view, of the resonant-chamber and the common air chamber. Fig. 2 represents a longitudinal vertical section through the swell-chamber, showing the mute partially raised and the reeds placed in grooves of the 20 openings. Fig. 3 represents in section an isometric view of the chambers with the mute reaching to the top of the common air-chamber.

A common mute or stop-valve, B, is secured to the top of the chamber A by means of 25 hinges a, or in any other suitable manner, and is adapted to close the openings i, leading into the chamber A. If desirable, a smaller mute, B', as shown in Fig. 1, may be secured in a similar manner. When the mute B is 30 opened, the sound-waves from the reeds enter the swell-chamber C, which is open at both its ends, and, if desirable, to give the sound waves a freer passage and produce a more sonorous sound, the swell-valve D is  $_{35}$  opened, which may be hinged at either edge, but is preferably hinged at d. To produce a mild and soft tone, small apertures or holes, b, are cut through the casing of the chamber

A. They are preferably formed in the top 40 near the edge of the casing, although as respects their locality I do not limit my invention. A stop-valve, E, that extends the full length of the casing, is hinged so as to operate to open or close the apertures b. To inclose 45 the sound-waves proceeding from the aper-

tures b, the side board, c, of the swell-chamber C is to extend up high enough to allow the mute E to be opened. The front end of the swell-valve D rests upon a rail or projec-

50 tion e, (shown in Fig. 1,) that is secured on the top and rear end of the chamber A. The arrangement of these different chambers admits of various sound-waves being produced.

When the valve F is opened by the tracker-Be it known that I, Ellis L. Mundy, of pin G, which is actuated through the agency 55 of any suitable connecting mechanism with an ordinary key-board, the air passes through the reeds, vibrating the same, and when the mute B is closed and the stop-valve E is open, the sound-waves pass through the apertures 60 b and produce a soft and distant effect. This may be changed by opening the mute B and allowing the sound-waves to pass into the chamber C, which will give a more resonant and sonorous tone to the reeds, and to give it 65 full vent the swell-valve D is opened, each change in the opening of the valves acting to produce a different sound. Thus it will be seen that many harmonious tone effects may

I am aware that it is not broadly new to employ a swell-chest in combination with a reed-board; also, that it is not new to provide the swell-chest with a movable lid, and hence I make no broad claim thereto; but

75

What I claim is—

1. In a reed-organ, a reed-chamber and a swell-chamber, the reed-chamber being provided with two sources of acoustic communication with the swell-chamber, in combination So with two mutes covering the communications between the reed-chamber and swell-chamber, substantially as and for the purpose set forth.

2. In a reed-organ, a reed-chamber provided with two sources of acoustic communi- 85 cation with the swell-chamber, one of which communications consists of a series of apertures, in combination with two mutes covering, respectively, said sources of sound communication, substantially as and for the pur- 90

3. The reed-chamber A, provided with the apertures b, and the lower aperture communicating with the swell-chamber, in combination with the swell-chamber C, provided with 95 the valve D, and the mutes B and E, for closing the communications between the reed and swell chambers, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two 100 subscribing witnesses.

ELLIS L. MUNDY.

Witnesses:

JNO. CROWELL, Jr., EMMA WRIGHT.