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C'ABUTTE,

Organ Suell,

Nº 26,344.

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Patented Jec. 6, 1859





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N. PETERS, PHOTO-LITHOGPAPHER, WASHINGTON, D. C. .

UNITED STATES PATENT OFFICE.

CHARLES G. BURKE, OF UTICA, NEW YORK.

MELODEON.

Specification of Letters Patent No. 26,344, dated December 6, 1859.

To all whom it may concern: each fitted to an opening b, provided in the top of the swell box over one of the tubes Be it known that I, CHARLES G. BURKE, of | Utica, in the county of Oneida and State of a, a. These values are attached each to one 55 New York, have invented a new and useful of a series of levers G, G, arranged below 5 Improvement in Melodeons and other Reed the keys on a fixed fulcrum c. Each of said Musical Instruments; and I do hereby delevers has applied to its rear portion a spring clare that the following is a full, clear, and d, for the purpose of depressing it to close exact description of the same, reference bethe valve. The front portion of each lever 60 ing had to the accompanying drawings, formhas attached to it an upright pin f, so ar-10 ing part of this specification, in which ranged that it may be acted upon by its re-Figure 1, is a transverse vertical section of spective key when the latter is depressed far the playing part of a melodeon. Fig. 2, is a enough in playing, for the purpose of openlongitudinal vertical section of a portion of ing the swell valve. 65 the same in the plane indicated by the line The keys in playing may be depressed suf-15 x, x, in Fig. 1. ficiently to open the reed valves F, F, D, D, Similar letters of reference indicate correwithout touching the pins f, f, or it may be sponding parts in both figures. depressed further to make it act upon the said The object of my invention is to make the pins to depress the front portions of the le- 70 melodeon and other reed instruments of the vers G, G, and open the swell valves to a same class capable of greater expression 20greater or less extent to give more or less exthan those heretofore constructed, and to pression to the notes as may be desired, each this end my invention consists in providing swell valve being thus rendered capable of the instrument with what I call swell values, being operated independently of all the 75 one for each key, so applied in connection others to admit of playing crescendo or with levers or their equivalents that they 25diminuendo. The swell valves do not howcan be opened at the pleasure of the player ever interfere with the usual operation of by the action of the keys in playing, for givthe swell board C, which may be used in the ing any desired degree of swell or expression usual manner. 80 to any note irrespectively of the preceding H, is a stop consisting of a slide running 30 or succeeding notes or of the other notes of the whole length of the instrument or of a chord. such portion of it as may be fitted with swell To enable others skilled in the art to make valves, and attached to a fixed board I, on and use my invention I will proceed to dethe top of the reed board by means of two 85 scribe its construction and operation. screws g, g, screwing into the said board I, A, is the reed board constructed in the 35 and passing through curved slots h, h, in the usual manner. slide. By drawing this slide lengthwise it B, is what I call a swell box fitted to the may be so far elevated by the movement of back of the reed board or formed by continuthe slots on the screws that its upper edge 90 ing the reed board farther back than usual. will be higher than the highest position of \bar{a} , a, are the reed tubes continued from the 40 the tops of the pins f, f, and that it will prereed board right through the swell box; and vent the depression of the keys far enough C, is the swell board hinged to the back of to operate the swell valves, but yet permit the swell box in the same manner as it is their descent far enough to open the reed 95 commonly hinged to the back of the reed valves F, F, as far as is necessary. The 45 board. stop H, may be operated by hand or by a F, F, are the reed valves acted upon by pedal. the keys E, E, through the agency of push What I claim as my invention and desire down pins e, e, in a manner common to the to secure by Letters Patent, is-100 melodeons heretofore constructed. 1. Fitting a melodeon or other reed in-D, (Fig. 1), is one of the swell values of 50 strument of the same class with a series of which there is to be one for each key throughswell valves D, so applied as to be capable out the whole or any portion of the scale, of being operated by the keys in playing

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and the swell valves for the purpose herein substantially as herein described for the purpose of giving expression to any note inset forth. dependently of the preceding or succeeding ones or of the other notes of a chord. CHARLES G. BURKE. 5 2. And I also claim the employment of a stop H, applied and operating substantially as described in combination with the keys Witnesses: C. M. HUGHES, MICHAEL HUGHES.

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