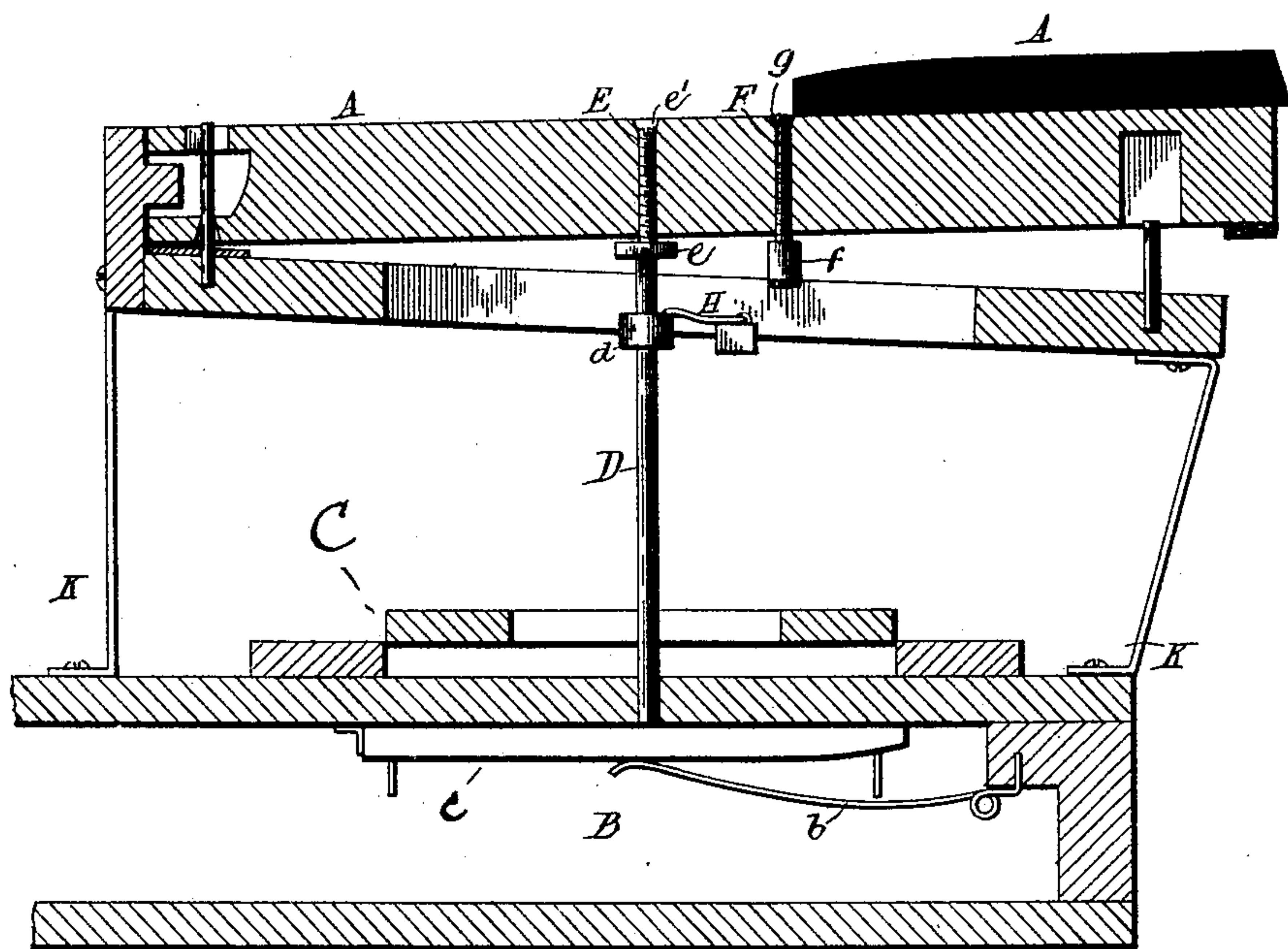


(No Model.)

P. J. LAWRENCE.
DEVICE FOR REGULATING ORGAN KEYS.

No. 418,575.

Patented Dec. 31, 1889.



Witnesses

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UNITED STATES PATENT OFFICE.

PHILLIP JOCEIPHUS LAWRENCE, OF EASTON, PENNSYLVANIA.

DEVICE FOR REGULATING ORGAN-KEYS.

SPECIFICATION forming part of Letters Patent No. 418,575, dated December 31, 1889.

Application filed March 5, 1889. Serial No. 301,903. (No model.)

To all whom it may concern:

Be it known that I, PHILLIP JOCEIPHUS LAWRENCE, a citizen of the United States, residing at Easton, in the county of Northampton and State of Pennsylvania, have invented certain new and useful Improvements in Devices for Regulating Organ-Keys; 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 appertains to make and use the same.

This invention relates to means for conveniently regulating the dip and level of organ-keys, and to means for regulating and closing up the lost motion between the coupler-wire and coupler-button.

Heretofore it has been the common practice to level the keys by filing the pitman at the end till the key was adjusted to the proper level. This method has been attended with a number of objections and difficulties, such as the great amount of labor involved in the operation of filing and the falling of dust or filings down by the side of the pitman upon the pallet or valve and preventing the latter from resting air-tight against its seat.

The object of my invention is to overcome these objections and difficulties and provide for the ready and convenient adjustment and leveling of the key by means of a screw having a disk-like head or button at its lower end, where it rests on the pitman, and extending up through the key and having a slot in its top end.

Another object is to provide for conveniently closing up or regulating the lost motion between the coupler and coupler-button by means of a screw attached to the button and passing up through the key, so that it may be turned up or down without removing the key.

My invention is illustrated in the accompanying drawing, in which the figure represents a vertical longitudinal section of the usual key, frame, reed-board, and pallet or valve, with my key-dip and regulating-screw resting upon the top end of the pitman, and my regulating-screw for the coupler.

The operating parts are mounted in a framework K, constructed in the usual manner. The keys A are mounted in the frame, as

usual, and retained in position by pins and guides. The usual wind-chest B is covered by reed-board C, and the pallet or valve *c* is pivoted to such board and is supported and held to its seat by spring *b*. The pitman D extends vertically from the pallet or valve to the key and is provided with button or disk *d* for supporting one end of the coupler H. The top end of the pitman bears against the broad disk-like head *e* of regulating-screw E. The head *e* of the screw is provided with the usual transverse slot, and the other end of the screw, which passes up through a hole in the key, is also provided with suitable means for turning—such as a transverse slot—so that it may be readily adjusted from the top either up or down after it has been inserted in the hole of the key. The broad disk-like head *e* of the screw forms a secure bearing for the pitman, so that it is not liable to slip off therefrom in ordinary use. The body of this screw E is of the same thickness throughout and screw-threaded its entire length, or sufficiently to permit any desired adjustment.

The regulating-screw F for the coupler consists simply of a cylindrical body screw-threaded its whole length, and has suitable means for turning—such as a transverse slot—in its upper end, or the end which is placed at the top of the key. A button *f* is applied to the lower end of the screw and bears against one end of the coupler-wire H. As above indicated, the holes for the screws E and F pass vertically through the key and may be reamed out at the top for the convenient application of a screw-driver to adjust the screws, which preferably extend about flush with the top of the key. The screw F is readily adjusted from the top to close up the lost motion between the button and the coupler-wire. The screw E, resting by its disk-like head *e* upon the pitman, retains its same relative position in screwing right or left for raising or lowering the key, and it is evident that the key can be quickly and accurately leveled by means of the screws arranged and operating as described.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In combination with the key and pitman, the level-regulating screw having a head pro-

jecting below the key, and a screw-threaded body of the same thickness throughout provided at the top with means for turning, all substantially as described.

- 5 2. The combination of the organ - key, a level-regulating screw, a pitman, and a coupler, with a regulating-screw for the coupler provided with a button and passing through the key, substantially as described.

In testimony whereof I affix my signature to in presence of two witnesses

PHILLIP JOCEIPHUS LAWRENCE.

Witnesses:

JNO. STOTZER,
FRANCIS W. LAWRENCE.