

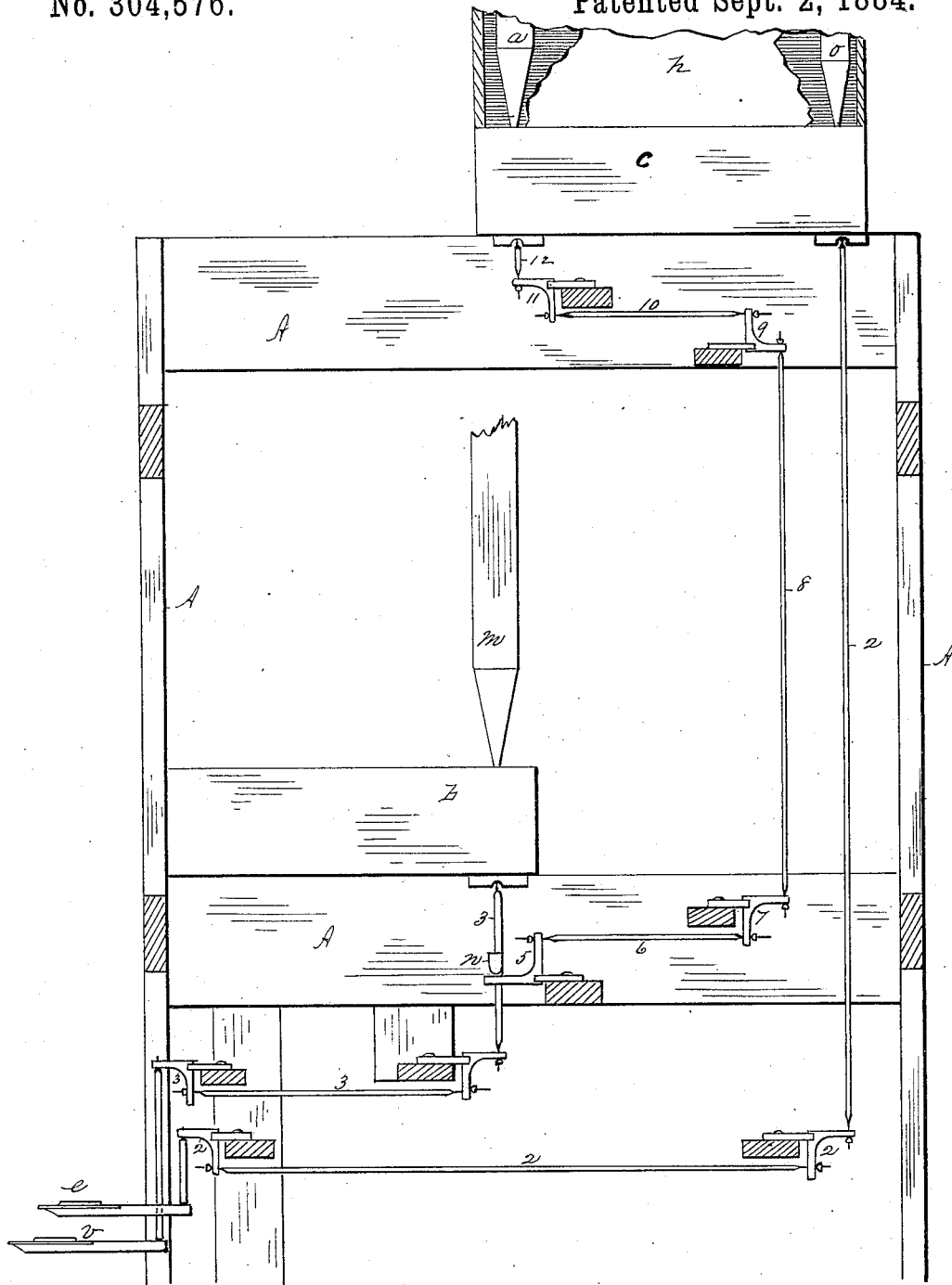
(No Model.)

J. W. STEERE.

PIPE ORGAN.

No. 304,576.

Patented Sept. 2, 1884.



WITNESSES:

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PIPE-ORGAN.

SPECIFICATION forming part of Letters Patent No. 304,576, dated September 2, 1884.

Application filed October 3, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. STEERE, a citizen of the United States, residing at Springfield, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Pipe-Organs, of which the following is a specification.

This invention relates to improvements in church-organs; and it consists in a novel arrangement of the pipes thereof, whereby a portion of the great-organ pipes are located in the swell-box and supplied with wind from the swell-chest, and in an improved auxiliary key-action, whereby said pipes or great-organ stops, which are located on the swell-chest, are played by the great-organ manuals, the object being to produce a modified effect from certain great-organ stops, and to provide for playing them by the great-organ manuals independently of those belonging to the swell-organ.

The drawing forming part of this specification is a side elevation, partly in section, of such parts of a church-organ as illustrate the above-named improvements embodying my invention.

In the drawing, A indicates parts of the frame of an organ. *e* is one of the swell-organ manuals, and *v* is one of the great-organ manuals. *b* is the wind-chest of the great organ, and *c* is the swell-organ wind-chest. *h* is a part of the swell-box, partly broken away to show pipes within it. *a* is one of the pipes of the great organ, located in the swell. *o* is one of the swell-organ pipes. 3 indicates the line of action-connections from the great-organ manual *v* to the wind-chest *b*. *m* is a pipe on the latter. 2 indicates the line of the action-connections from the swell-manual *e* to the swell wind-chest *c*. *n* is a block secured on one of the vertical trackers of the great-organ action-connections 3. 5 6 7 8 9 10 11 12 indicate the parts of the auxiliary action connecting the great-organ manuals with the swell wind-chest *c*.

Certain ones of the stops of pipes usually located on the great-organ wind-chest—such as the trumpet and other stops of similar character—are found to have their quality of tone

much improved by locating them within the swell-box of the organ, instead of, as is usually done, placing them in the open and exposed position which they occupy on the great-organ wind-chest; and my improvements provide for so locating said stops in the swell and for playing them by the great-organ manuals, by interposing an auxiliary action-connection between the great-organ manuals and the swell wind-chest, as hereinafter described.

The action-connections 2, leading from the swell-manual *e* to the swell wind-chest *c*, are of the usual description, as also are those designated by 3, leading from the manual *v* to the great-organ wind-chest *b*, except that the last-named connections are provided with means whereby their movements are communicated to the below-described auxiliary swell-chest connections.

To communicate the action of the manual *v* to the swell-chest independent of the regular swell-action, the action-connections, denoted by figures 5 to 12, inclusive, which constitute the aforesaid auxiliary action, are interposed between the action of the great organ and the wind-chest *c*. When the manual *v* is pressed down, acting as ordinary keys do, the vertical tracker 3 moves downward to open the valve in the wind-chest *b*. A block, *n*, is secured on said tracker 3, and the latter is carried through a slot in the horizontal arm of the bell-crank lever 5, so that when said tracker moves downward said lever is given a vibratory motion. The connection of said lever 5 with the wind-chest *c* by means of the bell-crank levers 7, 9, and 11, and the trackers 6, 8, 10, and 12, and with the tracker 3 of the great-organ action, enables the player to utilize the great-organ stops in the swell by means of the manual *v* without the intervention of any other mechanism, and said auxiliary connections are no inconvenience in playing the great organ in the usual manner.

What I claim as my invention is—

1. In a pipe-organ, the swell-chest provided with its swell key-action, the great wind-chest provided with its great key-action, as described, the latter having its tracker 3 provided with a stop, *n*, affixed thereto, in com-

bination with a slotted bell-crank lever, 5,
through which the tracker 3 passes, and its
auxiliary action for connection with a great-
organ pipe in the swell wind-chest, all operat-
5 ing substantially as described.

2. The swell wind-chest and its swell-organ
pipes 6, in combination with one or more
great-organ pipes located in the swell-chest,

a swell-organ key-action, and an auxiliary
great key-action connecting the great pipe in 10
the swell with the key-action of the great or-
gan.

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Witnesses:

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