2 Sheets—Sheet 1.

J. FLOREY.

REED ORGAN STOP-ACTION.

No. 177,997. Patented May 30, 1876.

Fig. 1.

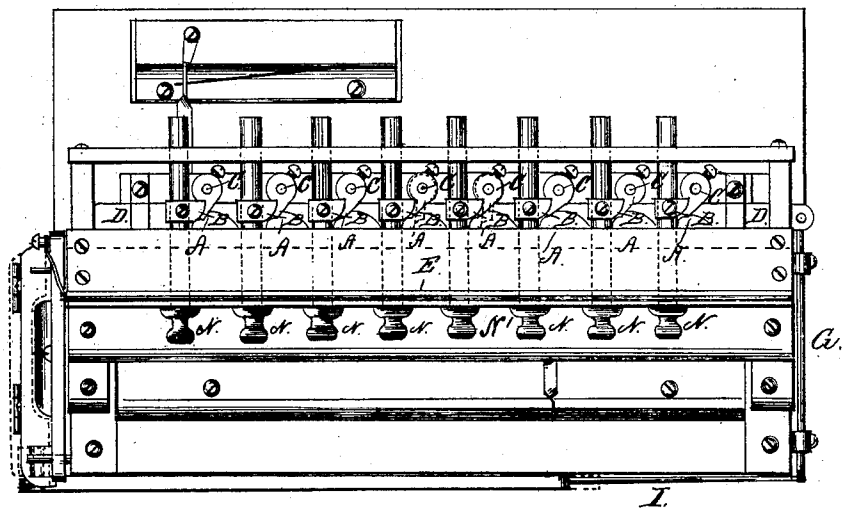
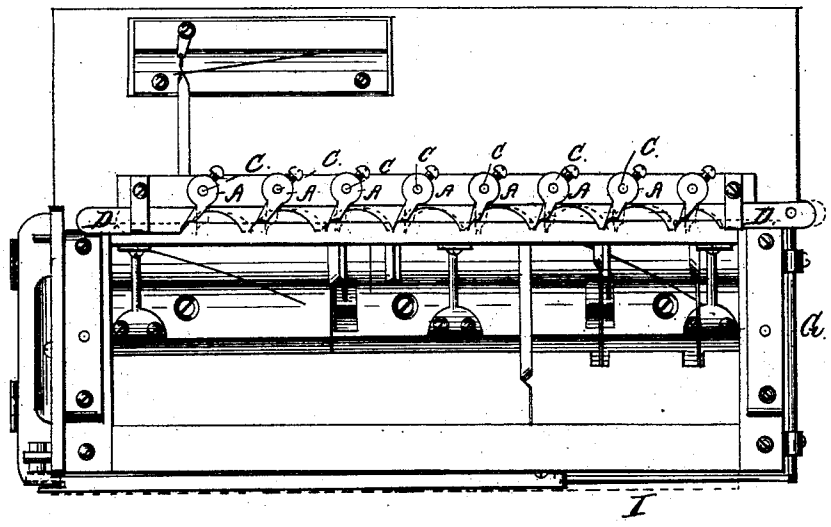


Fig. 2.



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2 Sheets—Sheet 2.

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Fig. 3.

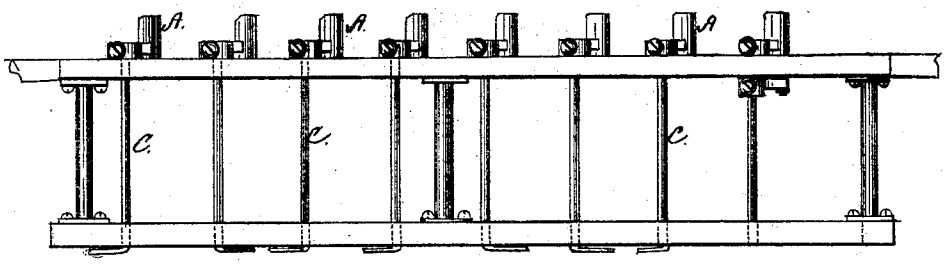


Fig 4.

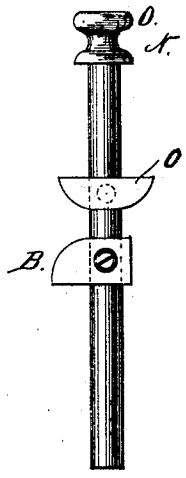
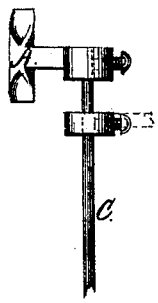


Fig 5.



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IMPROVEMENT IN REED-ORGAN STOP-ACTIONS.

Specification forming part of Letters Patent No. **177,997**, dated May 30, 1876; application filed September 28, 1875.

To all whom it may concern:

Be it known that I, JOHN FLOREY, of Allentown, in the county of Lehigh and State of Pennsylvania, have invented certain new and useful Improvements in Stops for Reed-Organs; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

My invention relates to stop mechanism of a reed-organ, and more especially to the construction and arrangement of the attachments for working a rack or series of rods, and to a notched bar and other new devices or combinations for operating the stops and the swells, all of which will be understood by those skilled in regard to reed-organs by reading the following description or specification; but it will not be necessary to go into any general description of reed-organs, or the mode of operating the same.

In the accompanying drawings, Figure 1 is a top view of part of a reed-organ, showing the stops and my improvements applied thereto. Fig. 2 is a top view of the parts below the stops, which have been removed. Fig. 3 is a rear view of the rack employed in working the stops by means of the attachments on the top of the rack. Fig. 4 is a detached view of one of the stops, and Fig. 5 is a detached view of one of the rack-rods.

My improvements may be applied to reed-organs having any number of stops from one to twenty-four, or more, if desired; but in the accompanying drawings I have shown only eight stops, which are enough to illustrate the principles of my improvements.

My invention consists of cam-shaped adjustable attachments to the rods for operating the stops of a reed-organ, and in other improvements, which will be fully understood by the following description:

In the accompanying drawings, N represents the stop-draws, which may be operated singly or in sets, or all at once, by means of my improvement. Between the stop-draws N, Figs. 1 and 2, are placed the rods C, forming a rack. (Shown best in Fig. 3.) These rods are provided with cranks on their lower ends for operating the swells. For example, the single stop-draw N, when pulled, will open the top swell E. This same swell is opened when all the stop-draws are simultaneously pulled. A series of adjustable attachments, A, crown the rods C. These attachments are cam-shaped, and may be moved simultaneously by means of the notched slide D, Fig. 2, connected therewith. A rod, I, in front of the organ, is attached to the double elbow lever G, which, in turn, is attached to the notched slide D. This rod is bent down at the end, so the operator may pull the rod by his knee, and thus operate the slide and attachments A, and also the swell-valve. Each stop-draw or handle N is provided with a check-stud, O, to prevent the stop-draw from being pulled out too far; and the stop-draws are provided with wedges or cams B, which work against the attachments A, so that when the slide D is pulled the attachments A are turned round, as indicated in dotted lines, Fig. 2, and thus the stop-valves are moved out.

Having described my invention, I claim—

1. The adjustable cam attachment A, in combination with the rack-rod C and the stop draw-handle N, provided with the wedge or cam B, constructed and arranged substantially in the manner and for the purposes set forth.

2. The notched slide D, in combination with the rack or series of rods C and the adjustable cam attachments A, substantially as set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

JOHN FLOREY.

Witnesses:

DANIEL BREED,

D. P. COWL.