

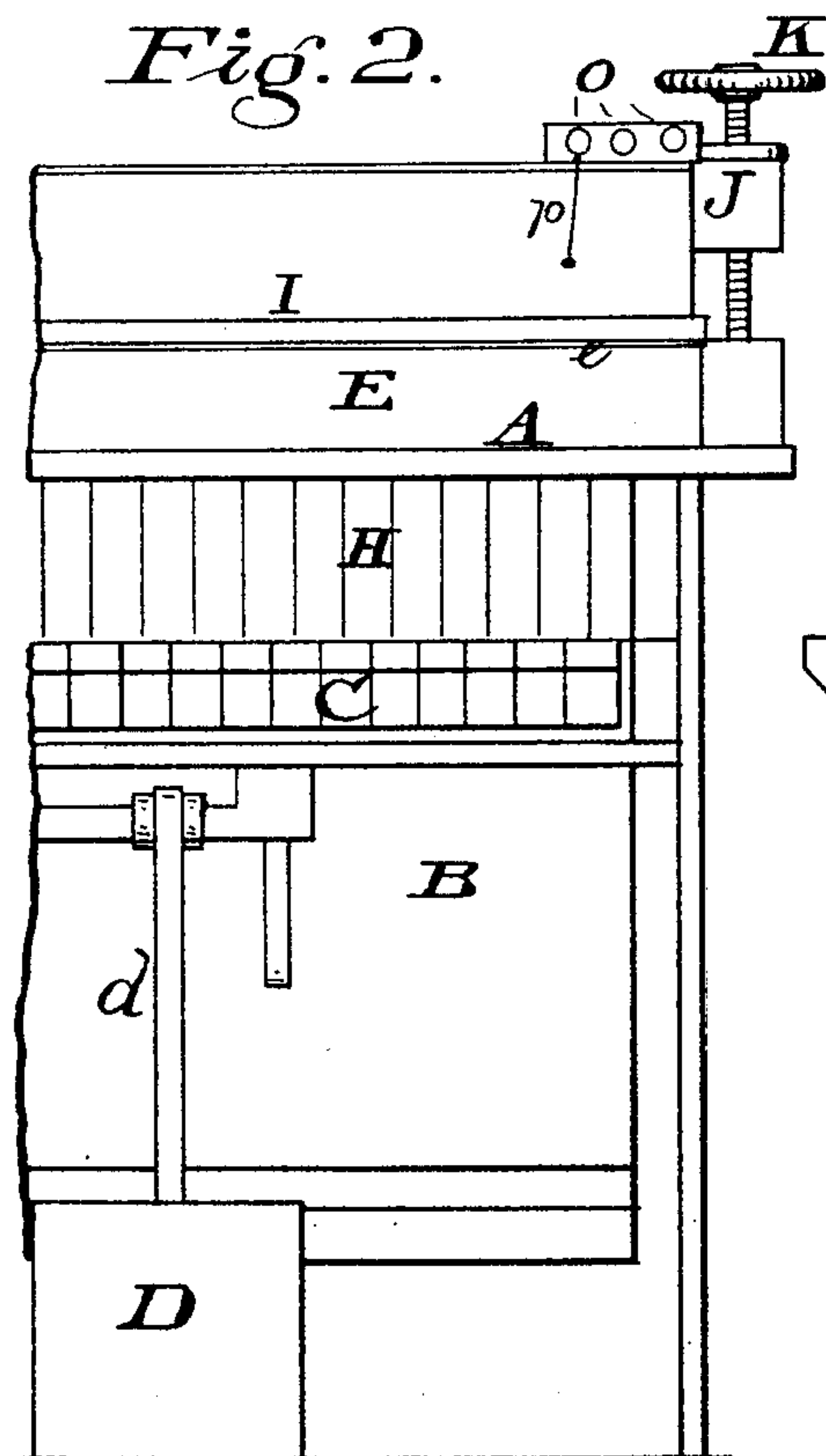
(No Model.)

C. N. RAND.  
MACHINE FOR CORRECTING ORGAN REEDS.

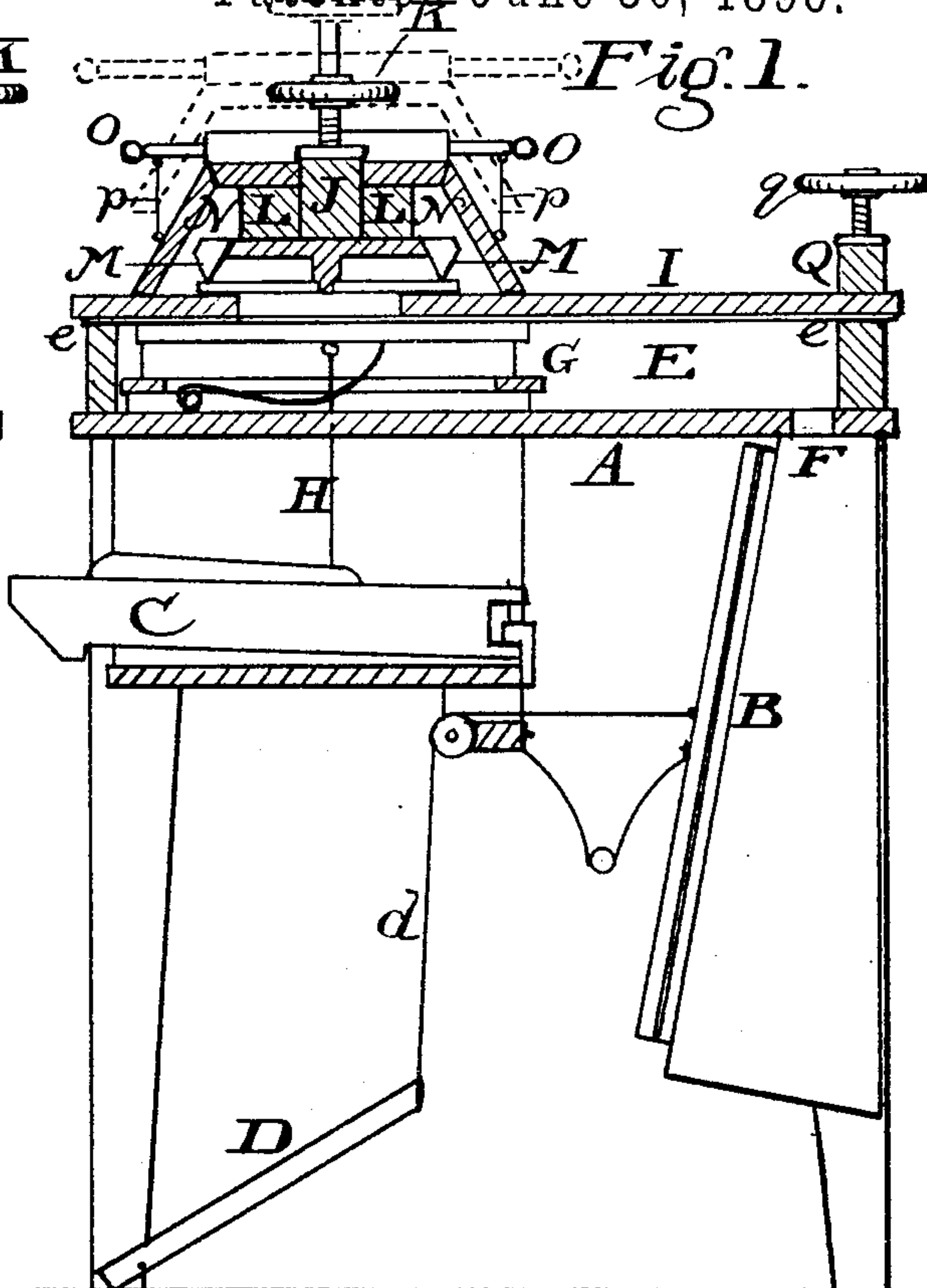
No. 562,913.

Patented June 30, 1896.

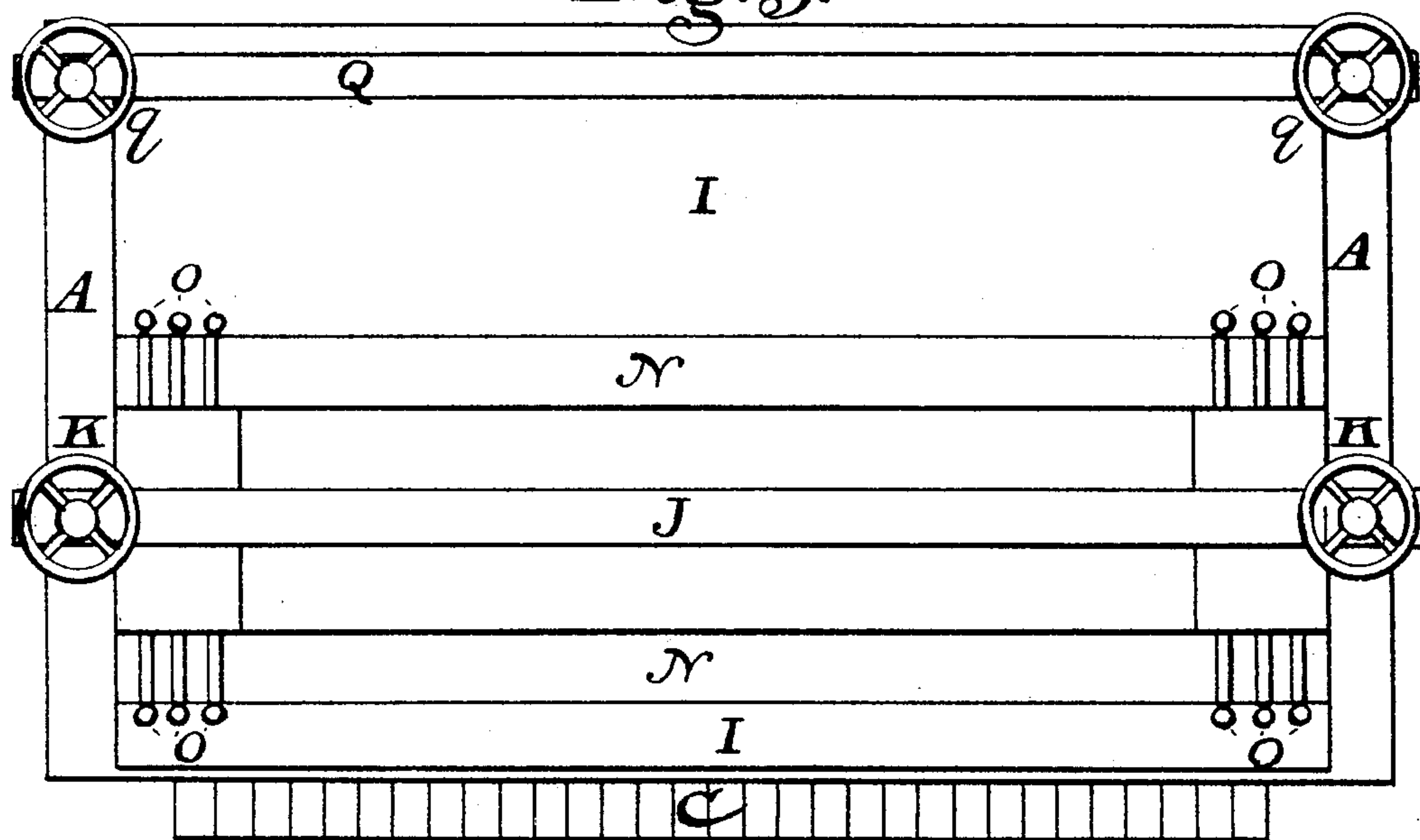
*Fig. 2.*



*Fig. 1.*



*Fig. 3.*



Witnesses,  
*Max P. Goodman*  
*Lewis M. Ford.*

Inventor,  
*Charles N. Rand,*  
By *Geo. W. Tibbitts, Attorney.*

# UNITED STATES PATENT OFFICE.

CHARLES NEWELL RAND, OF GENEVA, OHIO, ASSIGNOR OF ONE-HALF TO  
EMERY GALEN WETHERBEE, OF PAINESVILLE, OHIO.

## MACHINE FOR CORRECTING ORGAN-REEDS.

SPECIFICATION forming part of Letters Patent No. 562,913, dated June 30, 1896.

Application filed August 17, 1895. Serial No. 559,695. (No model.)

*To all whom it may concern:*

Be it known that I, CHARLES NEWELL RAND, a citizen of the United States, residing at Geneva, in the county of Ashtabula and State of Ohio, have invented certain new and useful Improvements in Machines for Correcting Organ-Reeds, of which the following is a specification.

The object of this invention is to provide a means for correcting reeds when they are placed in the reed-cells of the reed-board in which they are to remain.

Heretofore, when reeds have been inserted in the reed-cells in the organ, it is found that the wood of which the cells are composed is slightly shrunk or warped, and crowd or pinch the reeds, so that they will not speak or vibrate freely, necessitating their removal and touching up to correct.

The purpose of this machine is to take the reed-board, attach it thereto, place the reeds in the cells and correct all such reeds as require it, and let them remain therein, thus providing a reed-board with perfected reeds complete and ready to be attached to the organ-action.

In the accompanying drawings, Figure 1 is a vertical and cross-sectional view of my new machine designed for use in correcting organ-reeds. Fig. 2 is a front elevation of said machine. Fig. 3 is a partial top view of the same.

A represents a table provided with suitable support.

B is a bellows located beneath the table-top and at the back, supported by the legs or other framework.

C is a keyboard attached beneath the table at the forward part and in convenient position for easy manipulation.

D D are pedals connected by straps passing over rollers *d d* to the bellows for operating them.

E is an air-chamber fixed on the top of the table, having packing *e* all around its top edge, and provided with openings F for communication with the bellows.

G is a valve mechanism placed in the said chamber E. The contact-surfaces of the valves are on a slightly-higher level than the top edge of the chamber.

H H are link-rods connecting the valves with the keys below.

I is the reed-board resting on the top edge of the chamber E, held firmly down by means of a clamping mechanism, described as follows:

J is a bar lying over the reed-board, supported at each end by hand-screws K K, by means of which the bar may be raised and lowered.

L L are side extensions on the bar widening it to breadth of the top of the reed-cell board, to the corners of which are hinged the mute-valves M M.

N N are leaves hinged to the cap-piece N', designed for covering the ends of the reed-cells.

O O O are stop-pulls attached to the cap-piece at each end of the bar J, connected by links *p p* with the said mutes and leaves for the purpose of turning them up when required. The cap-piece J and the leaves N N are raised by unscrewing the screws K into position seen in dotted lines for placing and removing a reed-board.

Q is a rear clamp-bar for holding the back edge of the reed-board down closely onto the edge of the chamber E. Hand-screws *q q* are provided in the ends of the bar Q, which screw into block-nuts on the table for the purpose.

The advantages of this machine are that the reed-board is easily attached and removed, the reeds removed and returned, and the key-board is very conveniently located, rendering the machine specially adapted for the uses for which it is intended.

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

1. The combination in a machine for correcting organ-reeds, of a table A, air-chamber E mounted on said table, valve mechanism G contained in said chamber, keyboard C suspended underneath the table, links H connecting the keys with the valves, pedals and bellows for exhausting said chamber and means for clamping the reed-board I onto the chamber, constructed to operate substantially as described.

2. The combination in a machine for cor-



recting organ-reeds, of a table A, air-chamber E mounted on said table, valve mechanism G contained in said chamber, clamp-bars J and Q, hand-screws K K and *q q*, working  
5 in block-nuts on the table, adapted for clamping the reed-board to the chamber, keyboard C suspended underneath the table, pedals

and bellows, constructed to operate substantially as described.

CHARLES NEWELL RAND.

Witnesses:

W. M. P. DAVIS,

W. B. MORTON.