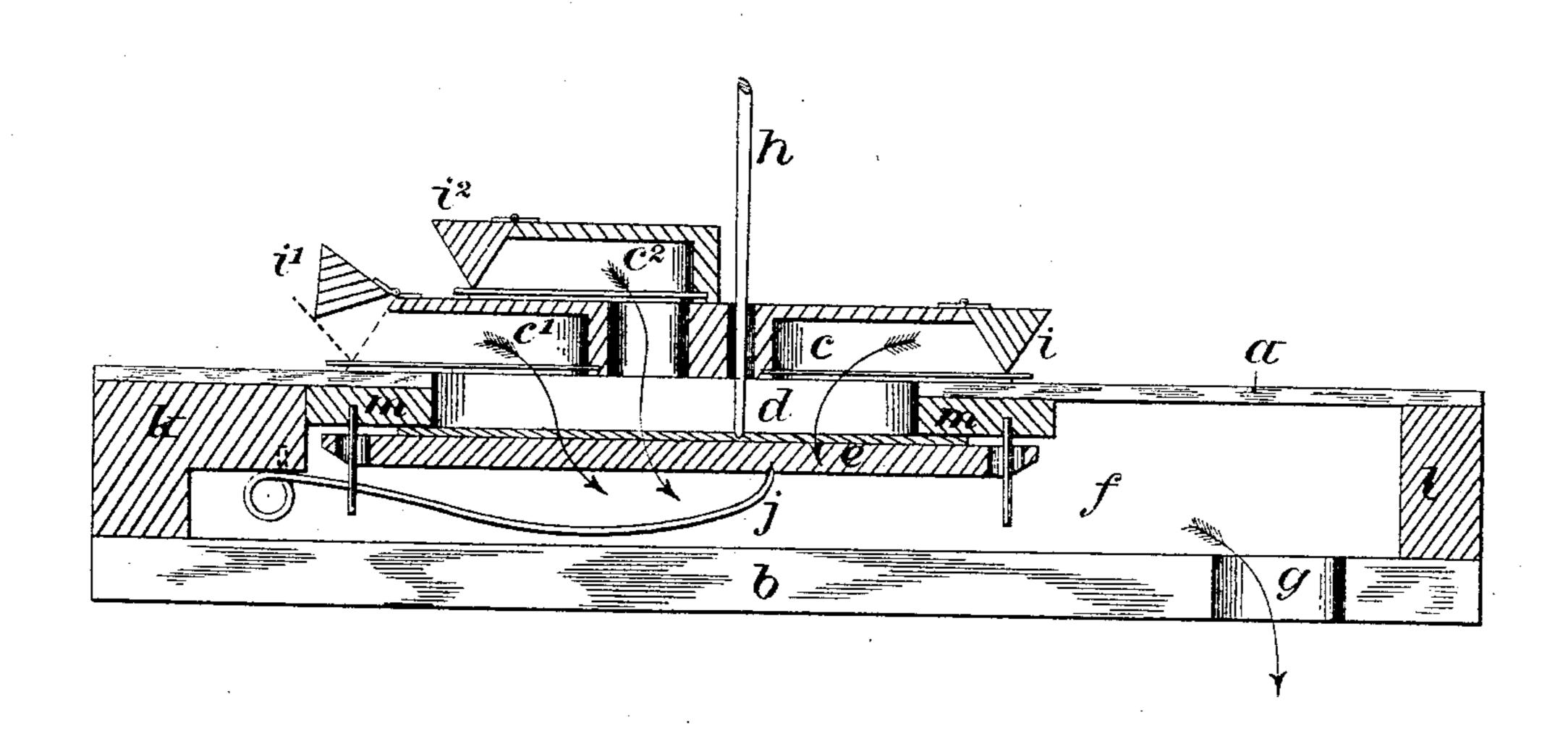
(No Model.)

J. HESSLER.

REED ORGAN.

No. 388,490.

Patented Aug. 28, 1888.



Witnesses;

A. M. Clark.

6. 6. Carb.

Inventor.

Tacob Hessler.

Min Dimmerman. Attorney.

N. PETERS, Photo-Lithographer, Washington, D. C.

United States Patent Office.

JACOB HESSLER, OF CHICAGO, ILLINOIS, ASSIGNOR TO THE W. W. KIMBALL COMPANY, OF SAME PLACE.

REED-ORGAN.

SPECIFICATION forming part of Letters Patent No. 388,490, dated August 28, 1888.

Application filed March 24, 1888. Serial No. 268,336. (No model.)

To all whom it may concern:

Be it known that I, JACOB HESSLER, a citizen of the United States, residing at Chicago, | in the county of Cook and State of Illinois, | 5 have invented certain new and useful Improvements in Reed-Organs, which are fully set forth in the following specification, reference being had to the accompanying drawing, forming a part hereof, and in which the figure 10 represents a vertical section across the instrument cut through the center of the valve and cells closed by it.

The object of my invention is, first, to make a more resonant sounding-board; second, to 15 enlarge the air-chamber between the reed and valve, so as to give more room for the free vibration of the reed and thereby produce a more voluminous sound, and, third, to enlarge the air-chamber back of valve seat to-20 ward the bellows. To accomplish this end I make the sounding-board a as thin as possible, and strengthen it at the reed-cells by attaching a piece, m, running lengthwise of the instrument under the reed-cells. Said board m 25 may be made quite thick, so as to increase the vertical depth of the valve air-chamber d under the reeds as much as possible, and thereby give greater freedom of air-space and less resistance to the vibration of the reed.

The reed-cells $c c' c^2$ communicate directly with the valve air-chamber d, as shown, and are provided with mutes $i i' i^2$. The valve e,

tracker-pin h, and spring j are constructed and

applied in the usual way.

The bottom b of the air-chamber f is made 35heavy, as are also its lateral sides, as k and l, so as to more completely retain the vibration in the thin sounding-board a. The arrows show the direction of the air currents through the passages and air-chamber out through the 40 opening g into the bellows. The air-chamber f, by this construction, is also enlarged at the side where the air escapes into the bellows, and through this construction gives an additional freedom to the air-currents, and through 45 this better vibration to the reeds.

What I claim is—

1. In a reed-organ, a thin sounding-board, a, provided with a board, m, on its inner or under and valve-seat side, deepened-valve air- 50 chamber, and an enlarged wind-chest under said thin board a and discharging end, substantially as specified.

2. In a reed-organ, a thin sounding-board, a, provided with a board, m, on its inner or 55 under and valve seat side, deepened-valve airchamber, enlarged wind-chest under said thin board a, and discharging end and rigid and enlarged walls b k l, substantially as specified.

JACOB HESSLER.

Witnesses:

WM. ZIMMERMAN, H. FISCHER.