

(No Model.)

C. ESSBACH.
HARMONICA.

No. 552,242.

Patented Dec. 31, 1895.

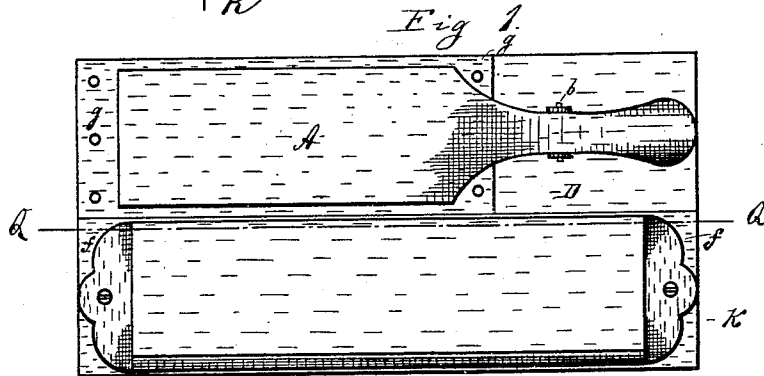
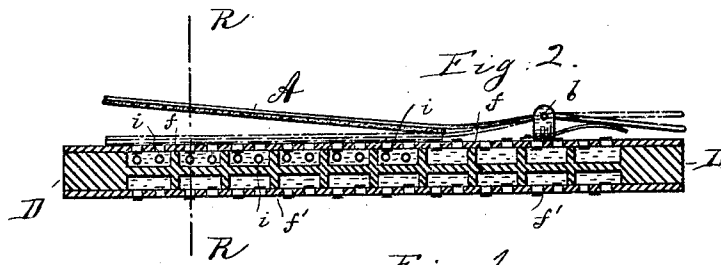
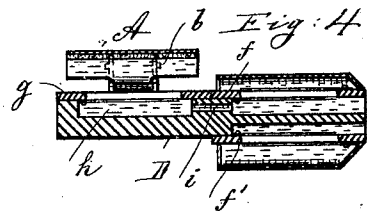
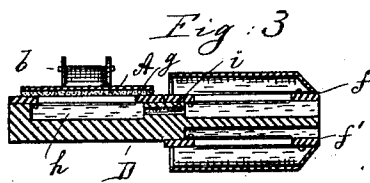
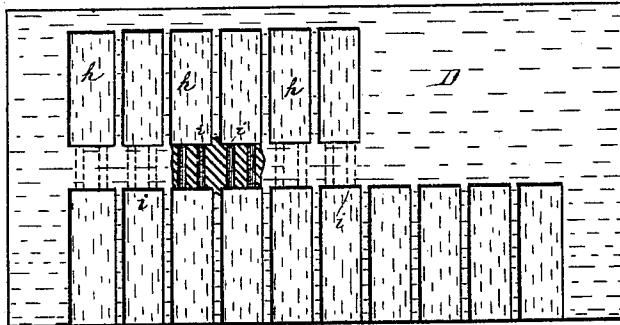


Fig. 5.



Witnesses
Wm. Schulz.
A. Goughman.

Inventor:
C. Essbach, per
Roeder & Pines, attys.

UNITED STATES PATENT OFFICE.

CARL ESSBACH, OF BRUNNDÖBRA, GERMANY.

HARMONICA.

SPECIFICATION forming part of Letters Patent No. 552,242, dated December 31, 1895.

Application filed June 3, 1892. Serial No. 435,355. (No model.) Patented in Germany January 19, 1892, No. 64,481.

To all whom it may concern:

Be it known that I, CARL ESSBACH, of Brunndöbra, near Klingenthal, in the Kingdom of Saxony, Germany, have invented an Improved Harmonica, (for which I have obtained a patent in Germany, No. 64,481, dated January 19, 1892,) of which the following is a specification.

This invention relates to a harmonica having an additional reed-plate operated by a valve, by which the volume of tone may be regulated.

In the accompanying drawings, Figure 1 is an elevation of the harmonica; Fig. 2, a longitudinal section on line Q Q, Fig. 1; Fig. 3, a cross-section on line R R, Fig. 2, with the valve A closed; Fig. 4, a similar section with the valve A open, and Fig. 5 a sectional plan of the cells.

The harmonica K is provided, in addition to the reed-plates $f f'$, with a further reed-plate g . This plate is located over the air-cells h of an extension D of harmonica K. The cells h communicate with the main air-

cells under reed-plate f either directly or through the ports i . Over the reed-plate g a valve A, turning on pivot b , is located. If closed, the valve A will cover the air-openings of plate g , and therefore such plate will not be sounded; but when the valve is opened the plate g will sound in addition to the plates $f f'$. Thus the volume of tone may be regulated at pleasure.

What I claim is—

The harmonica having the reed plates $f f'$, and an additional reed plate g , the cells of which communicate with the cells of the harmonica body, and a valve A, for covering the air openings of plate g , substantially as specified.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

CARL ESSBACH.

Witnesses:

MAX MATTHÄL,
CARL BORNGRAEBER.