

No. 821,492.

PATENTED MAY 22, 1906.

H. HOHNER.
HARMONICA.

APPLICATION FILED JAN. 9, 1906.

Fig. 1.

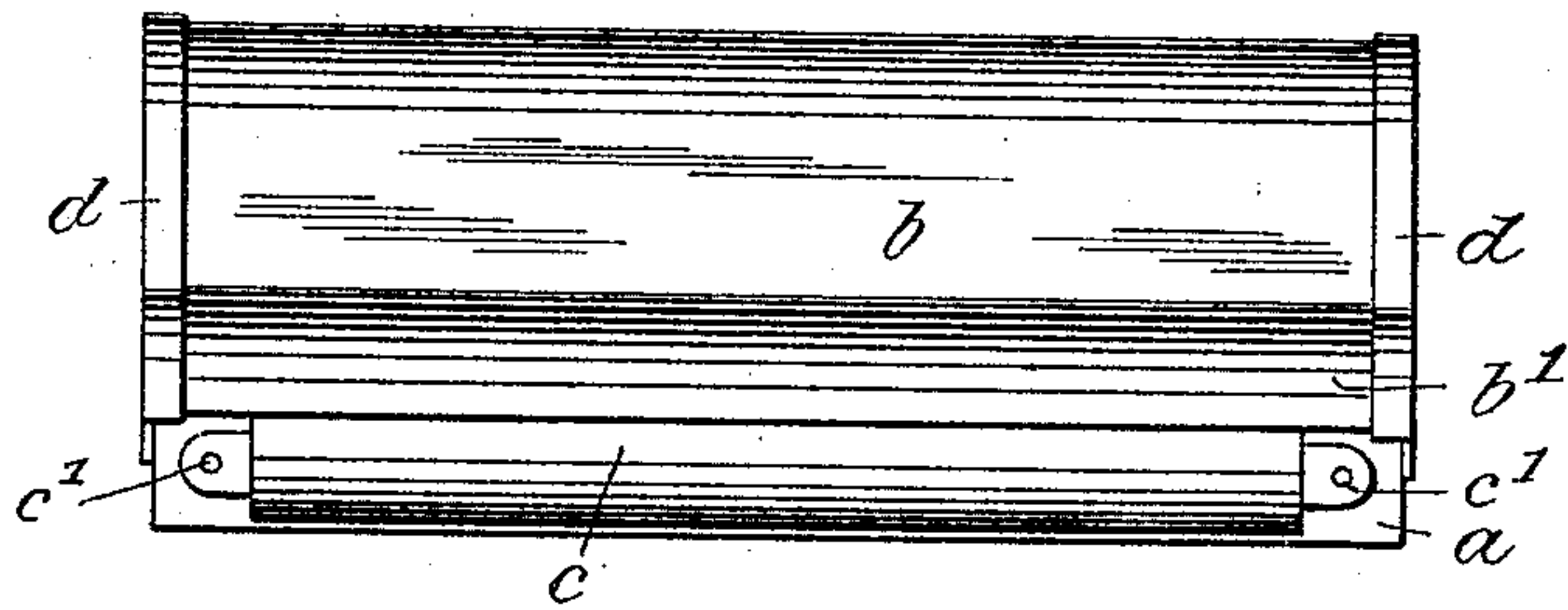


Fig. 2.

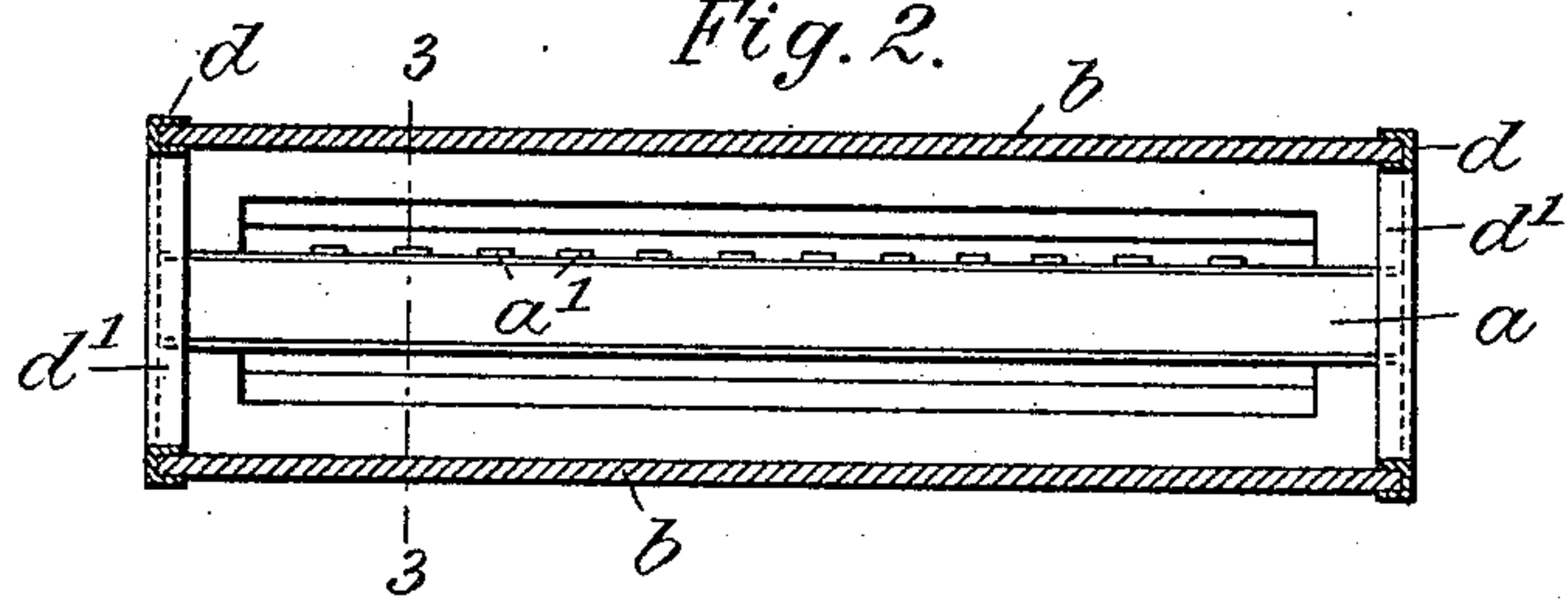


Fig. 4.

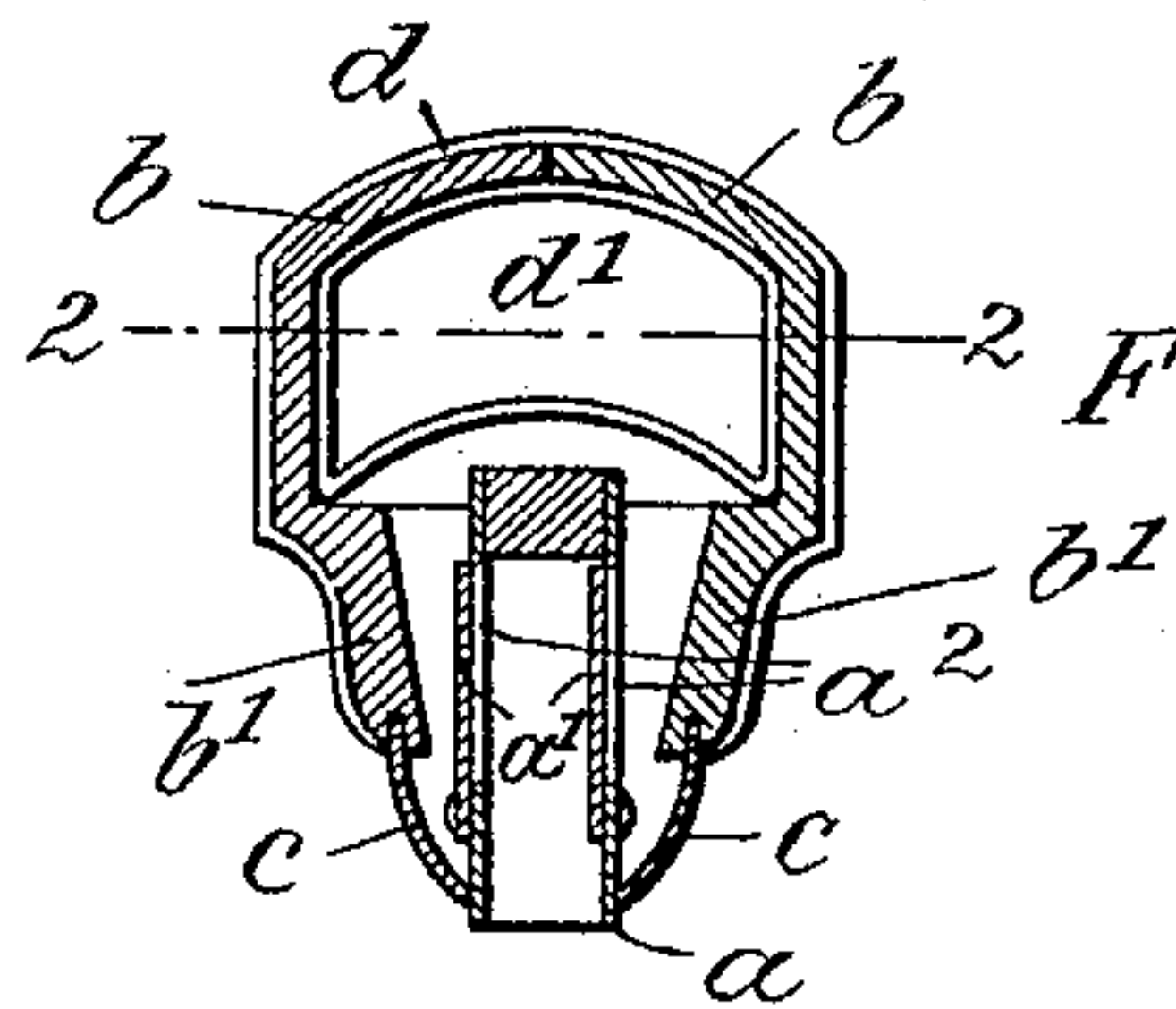
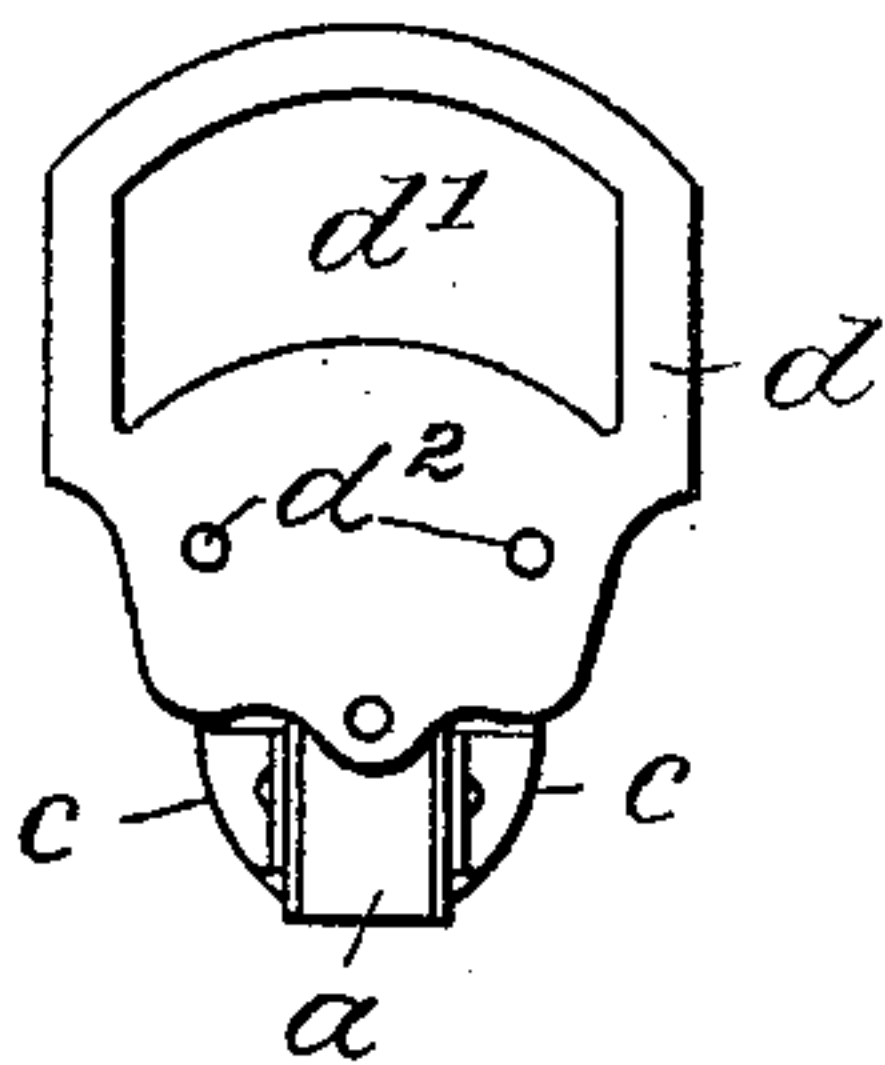
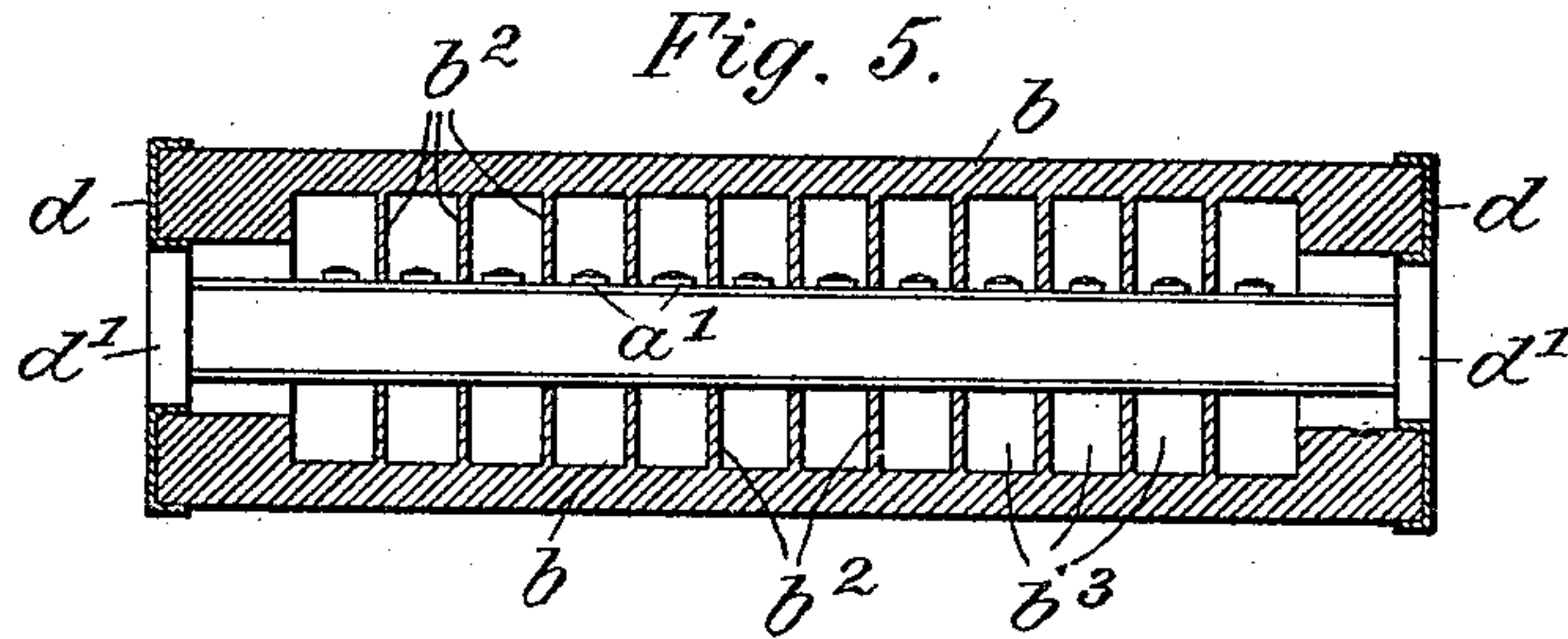


Fig. 3.

Fig. 5.



Witnesses:
Arthur J. J. J.
William Schutz.

Inventor:
Hans Hohner
by Frank B. B. B.

UNITED STATES PATENT OFFICE.

HANS HOHNER, OF NEW YORK, N. Y.

HARMONICA.

No. 821,492.

Specification of Letters Patent.

Patented May 22, 1906.

Application filed January 19, 1906. Serial No. 295,217.

To all whom it may concern:

Be it known that I, HANS HOHNER, a citizen of Germany, residing at New York city, Manhattan, county and State of New York, have invented new and useful Improvements in Harmonicas, of which the following is a specification.

This invention relates to a harmonica of novel construction, and more particularly to an improved construction of the sound-chamber and the means for connecting said chamber to the body of the harmonica.

In the accompanying drawings, Figure 1 is a side view of a harmonica embodying my invention; Fig. 2, a longitudinal section thereof on line 2 2, Fig. 3; Fig. 3, a cross-section on line 3 3, Fig. 2; Fig. 4, an end view, and Fig. 5 a longitudinal section of a modification.

The cell-block *a* of the harmonica has the usual reeds *a'* and lateral wind-openings *a''*. The back of cell-block *a* projects into an approximately U-shaped shell *b*, made, preferably, of wood and having converging sides *b'*, which extend partly over the sides of block *a*. In this way there is formed a sound-chamber at the back of the instrument that communicates with the wind-openings at both sides of the cell-block. The forward edges of sides *b'* are grooved to receive the rear edges of lip-guards *c*, flanking the front of body *a* and attached to the latter by screws *c'*. To each end of cell-block *a* is secured by screws *d''* a flanged end plate *d*, having a sound-opening *d'* aligned with the sound-chamber. Plates *d* embrace the right and left ends of shell *b* and serve to lock the latter to the

cell-block, and consequently also to the lip-guards *c*. The plates *d* also constitute convenient means for grasping the instrument while playing, and thus prevent the shell from being crushed by hand-pressure.

In Fig. 5 the interior of the sound-chamber is provided with a series of transverse ribs *b''*, forming channels *b'''* opposite the reeds *a'*.

In playing the instrument the sound-waves will flow through the sound-chamber and escape through the openings *d'* of end plates *d*. The instrument is strongly put together, produces a rich tone, and is not liable to be broken during ordinary use.

What I claim is—

1. A harmonica provided with a cell-block, a shell inclosing the back thereof, and end plates secured to the cell-block and engaging the shell, substantially as specified.

2. A harmonica provided with a cell-block, a U-shaped shell inclosing the back thereof, and flanged perforated end plates secured to the cell-block and engaging the shell, substantially as specified.

3. A harmonica provided with a cell-block, a U-shaped shell inclosing the back thereof, end plates secured to the cell-block and engaging the ends of the shell, and lip-guards flanking the cell-block and engaging the edges of the shell, substantially as specified.

Signed by me at New York city, Manhattan, New York, this 8th day of January, 1905.

HANS HOHNER.

Witnesses:

WILLIAM SCHULZ,
FRANK V. BRIESEN.