

(No Model.)

O. MEINEL.
HARMONICA.

No. 483,160

Patented Sept. 27, 1892.

Fig. 1

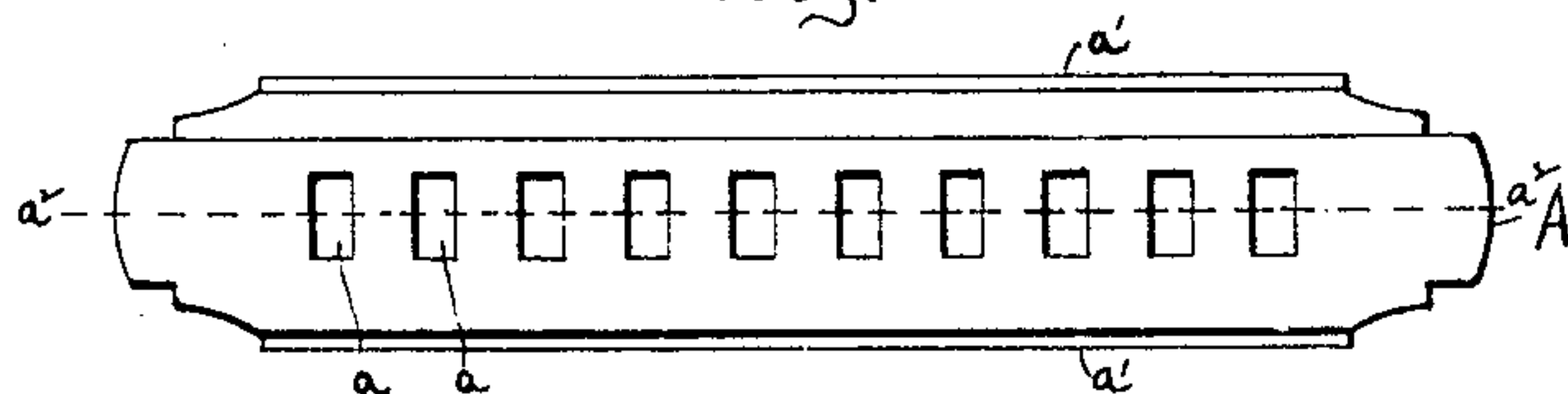


Fig. 2

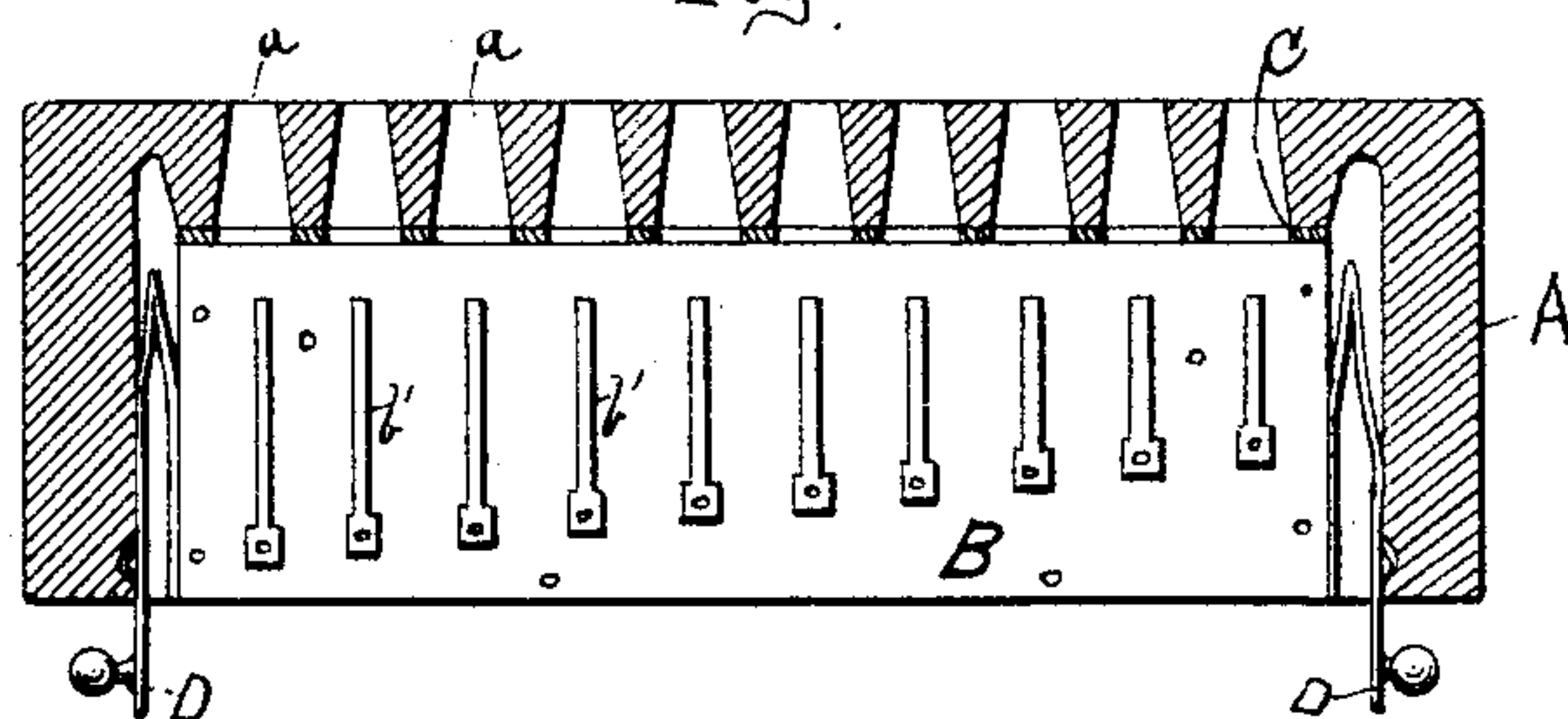


Fig. 3



Fig. 4

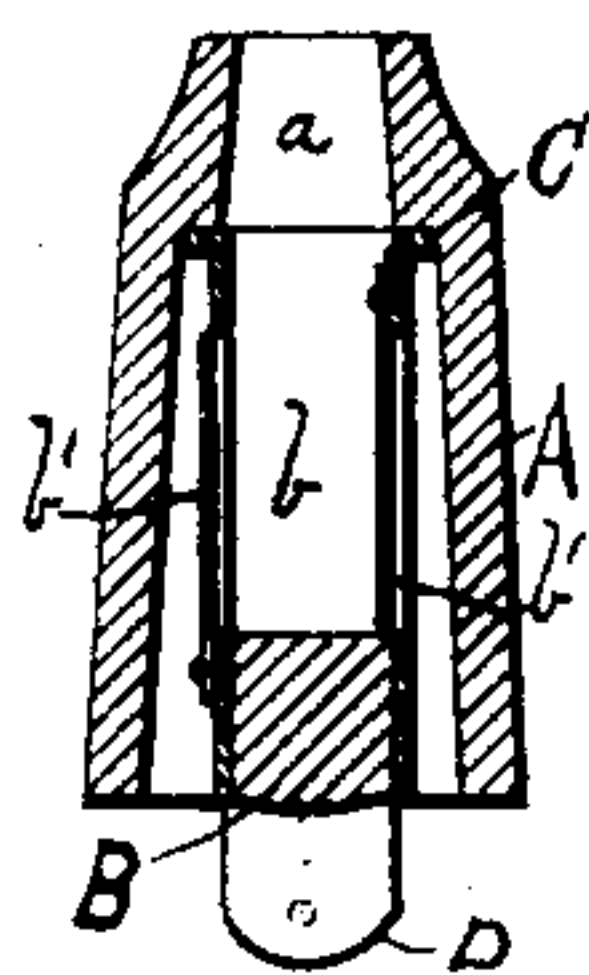
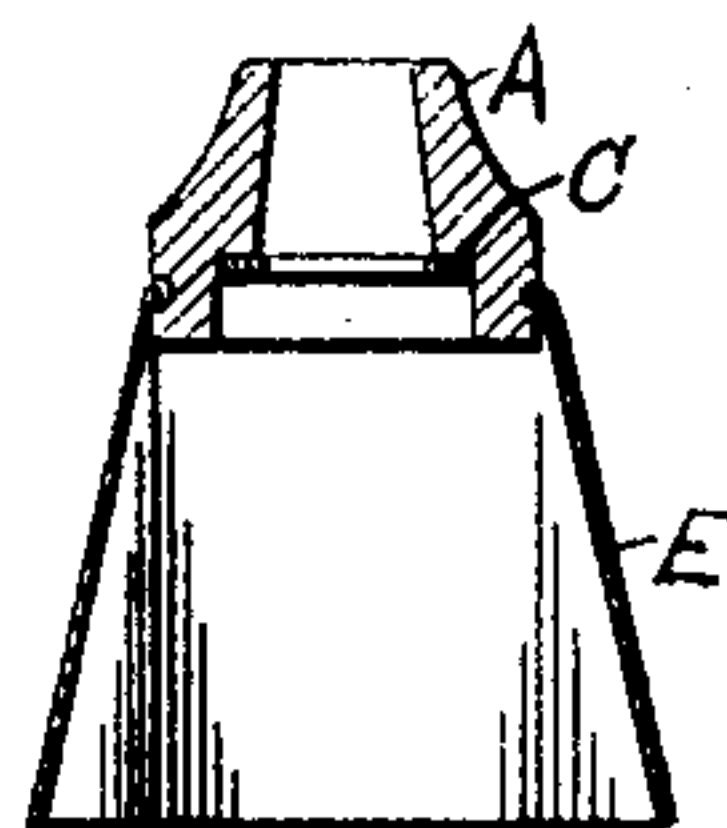


Fig. 5



WITNESSES:

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HARMONICA.

SPECIFICATION forming part of Letters Patent No. 483,160, dated September 27, 1892.

Application filed January 19, 1892. Serial No. 418,578. (No model.)

To all whom it may concern:

Be it known that I, OTTOMAR MEINEL, a citizen of the German Empire, and a resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Musical Instruments, of which the following is a specification.

My invention relates to improvements in musical instruments, more particularly designated as "mouth-harmonicas."

The objects of my improvements are to provide a non-absorbent surface that comes in contact with the lips, which permits more perfect manipulation, producing clearer tones, and which is more cleanly than wood or metal.

Figure 1 is a top view of a cover for a mouth-harmonica; Fig. 2, a longitudinal section of the cover for a mouth-harmonica; Fig. 3, an end view; Fig. 4, a cross-section; Fig. 5, a section showing a mouthpiece with metal sides and ends.

Similar letters refer to similar parts in all the views.

The cover A may be made of glass or other material.

In Fig. 2 mouth-harmonica B, which is inserted from the bottom, is covered on all sides except the bottom.

To secure an air-tight joint between the apertures *a a* in the cover and the chambers *b* in the mouth-harmonica, with which the reeds *b* are connected, an elastic filling C is interposed. Attached to the ends of the instrument may be springs or catches D for holding it in position. A number of variations of construction may here be suggested.

Fig. 5 shows a glass top A, attached to a metal body E, forming a cover similar in shape to that made entirely of glass, but having a wider base. The cover could be made of separately-molded side pieces *a' a'*, divided longitudinally on the line *a² a²*, Fig. 1. The sides could be united by cement or metal end pieces. The openings *a a* could be continuous, forming a slot, in which case the wood partitions of the instrument should extend through the slot flush with the glass. The cover could be made with open ends, having continuous sides, top, and bottom, with perforations through the sides to allow the sounds to issue. In this case the instrument could be inserted at either end.

What I claim as my invention is—

1. In combination with a mouth-harmonica, a glass cover forming a mouthpiece and shield within which the harmonica is placed, substantially as specified.

2. The combination, with a mouth-harmonica having a non-absorbent mouthpiece, of an elastic filling, substantially as specified.

3. The combination, with a mouth-harmonica having a non-absorbent mouthpiece, of springs or catches, substantially as specified.

Signed at New York city, in the county of New York and State of New York, this 11th day of January, A. D. 1892.

OTTOMAR MEINEL.

Witnesses:

JOS. JOHNSON,
LOUIS BERJA.