(No Model.)

M. GALLY.

ORGAN REED.

No. 324,371. Patented Aug. 18, 1885.

Fig. 1

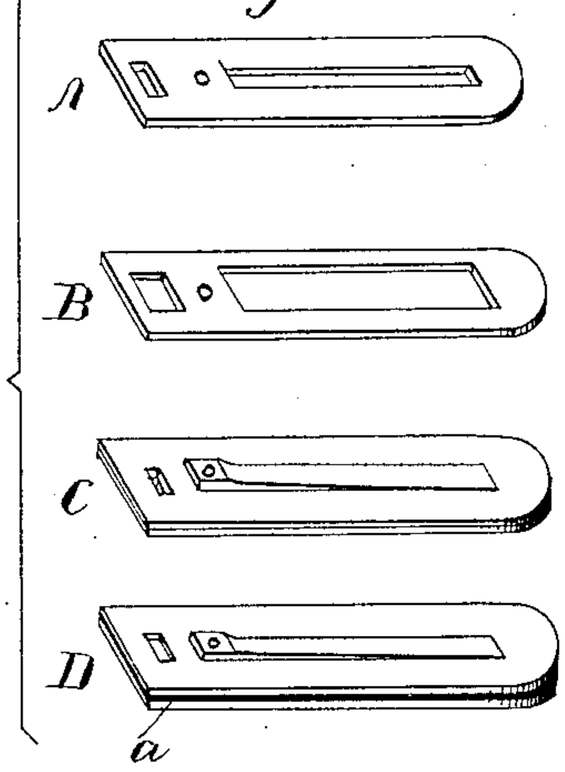
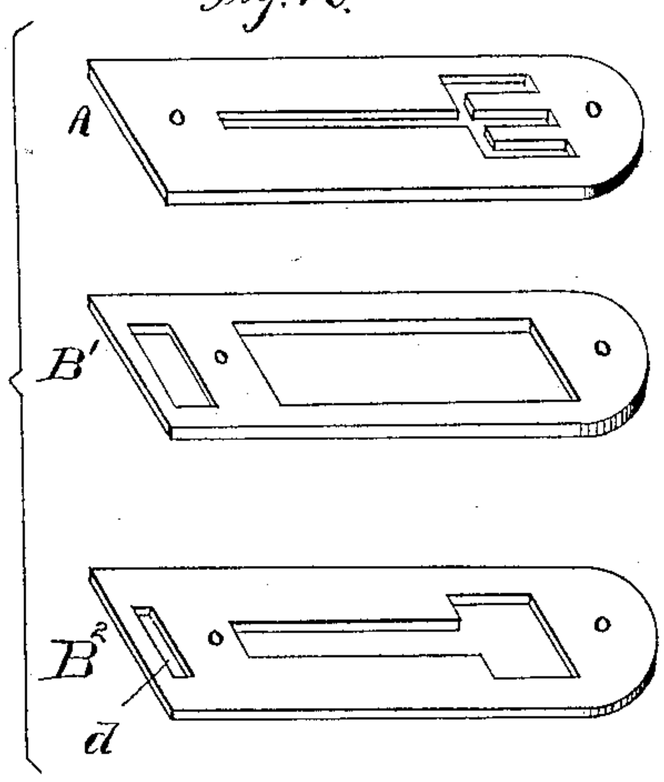


Fig. 2.



Witnesses.
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UNITED STATES PATENT OFFICE.

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ORGAN-REED.

SPECIFICATION forming part of Letters Patent No. 324,371, dated August 18, 1885.

Application filed March 27, 1885. (No model.)

To all whom it may concern:

Be it known that I, MERRITT GALLY, residing at New York city, in the county of New York and State of New York, have invented certain new and useful Improvements in Organ-Reeds, of which the following is a specification, reference being had therein to the accompanying drawings.

In the accompanying drawings, Figure 1 shows in perspective an organ-reed with re-enforced reed-block with several parts used in its construction. Fig. 2 is a modification of parts for reed having branching tongue.

In the ordinary construction of the reed-block of an organ-reed the boundary-line of the slot which receives the tongue is made much thinner than the other portion of the block. This is necessary to secure the proper sounds of the reed, and at the same time proper solidity of the block. For this construction, in addition to the punch and die which forms the slot in the block, it is unnecessary to use milling-tools for beveling or curving the slot. The milled work is much slower and more expensive than that of the punch and die, besides producing greater waste of metal.

The object of my invention is to produce a reed so constructed that the work on the reed-block shall be nearly or wholly accomplished by means of punch and die, and at the same time save much in the amount of material. This I accomplish by forming the block of a plate of metal thin enough to make, when punched, the boundary-line of the slot of proper thickness, and then re-enforcing this plate by means of the addition of a secondary punched plate.

In Fig. 1, A is a thin metallic plate which forms the face of the reed-block. This plate is punched, forming a slot for receiving the reed-tongue, a hole for its rivet, a small slot or depression for the reed-hook for drawing the reed, and an additional rivet-hole for completing the attachment of plate A to plate B. The secondary plate B is punched to form simply a re-enforced edge to plate A, the two forming, when attached together, the complete reed-block. C shows the reed complete, formed from the two plates and the tongue.

The quality of the tone produced by the vibration of the reed-tongue is more or less modified by the character of the material of the reed-block, and the construction of Fig. 1 allows combination of material used for producing different effects. An advantage may also be gained by the use of cheaper material for the re-enforcing part than is necessary for the face-plate of the block. It is sometimes desirable to obliterate, in whole or in part, the metallic vibrating quality of the reed-block. In such case I place an intermediate layer of lead, leather, or other suitable material between the face-plate and the re-enforce, as *a*, Fig. 1. In Fig. 2 the re enforce plate B′ is constructed to use as little material as possible, having a slot punched through for the draw-hook, and as much as possible of the plate punched out under the reed-tongue. B^2 shows less economy as to material, the slot under the reed-tongue being only a little larger than the slot in the face-plate A′, and having a raised block, *d*, struck up from the under side as a hold for the reed-hook.

The rivet R, Fig. 1, is shown only as a convenient means, in addition to the rivet which holds the tongue, for attaching the re-enforce to the plate. They may, however, be soldered together or connected with cement or any adhesive substance, or the additional re-enforce may be held by clinching it with the turning of the surface-plate.

What I claim as my invention is—

1. A musical reed-block composed of separate superposed sheets of thin material having a slot for the play of the tongue therethrough.

2. A musical reed-block having an opening or slot corresponding to the tongue and a separate re enforcing plate having a larger opening, as set forth.

3. A musical reed-block composed of thin plates superposed one over the other and an intermediate layer of non-resonant material, as set forth.

4. A musical reed-block composed of thin plates superposed and having an aperture for the draw-hook extending through the re-enforce only, as set forth.

In testimony whereof I affix my signature in presence of two witnesses.

MERRITT GALLY.

Witnesses:
ROBT. A. GALLY,
A. HEWITT.