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No. 669,449.

Patented Mar. 5, 1901.

E. P. STARK.

REED PLATE FOR TONGUED INSTRUMENTS.

(Application filed Oct. 16, 1900.)

(No Model.)

Fig. 1.

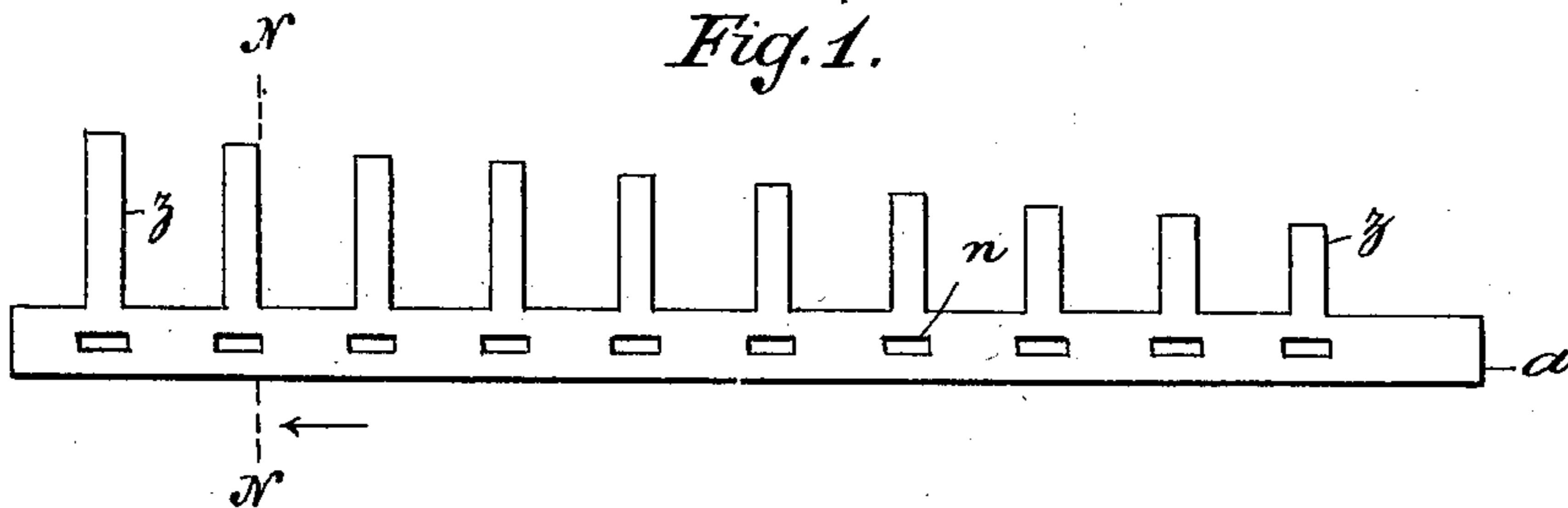


Fig. 2.

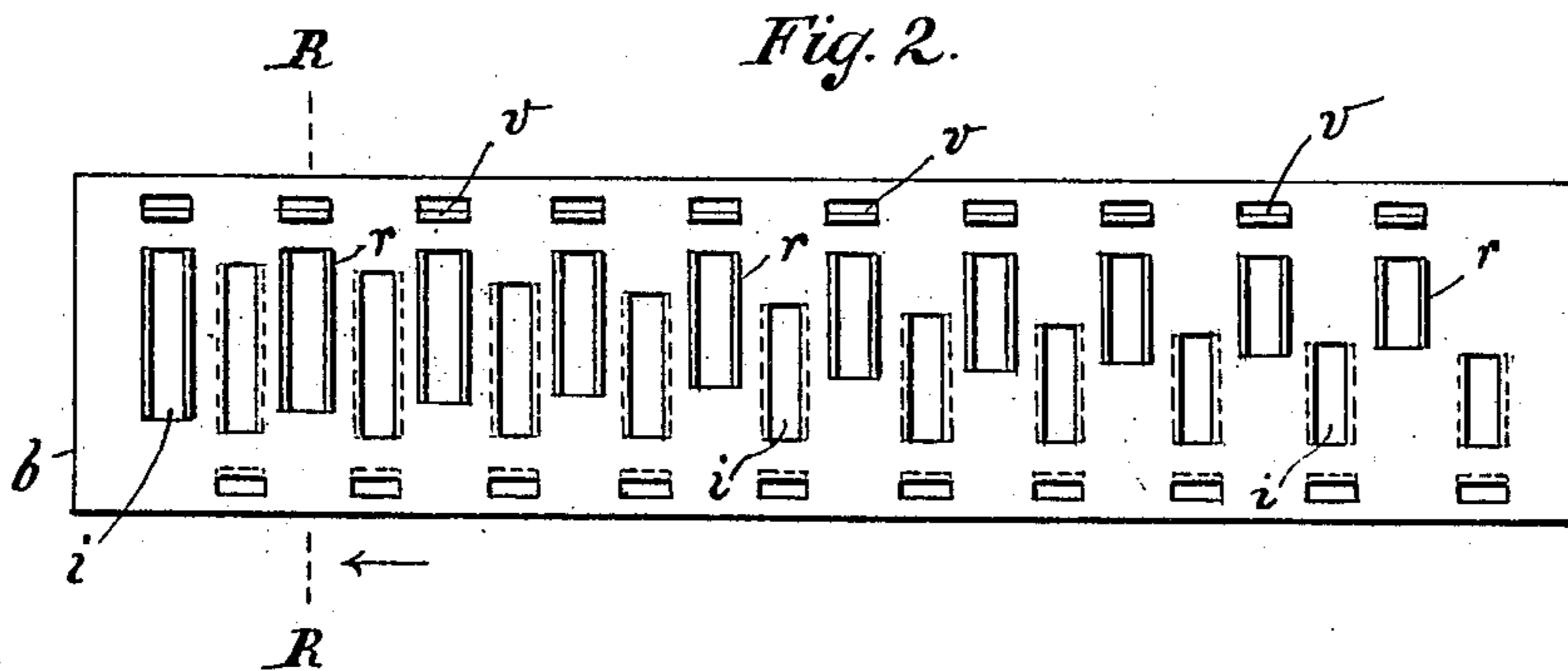


Fig. 3.

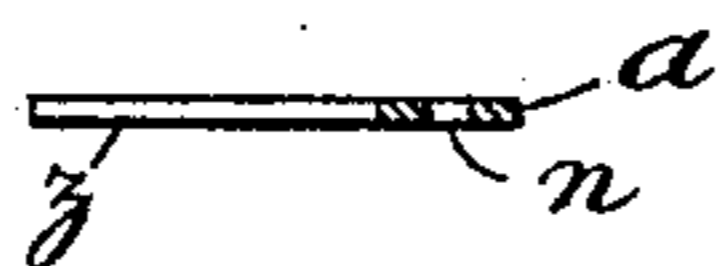


Fig. 4.

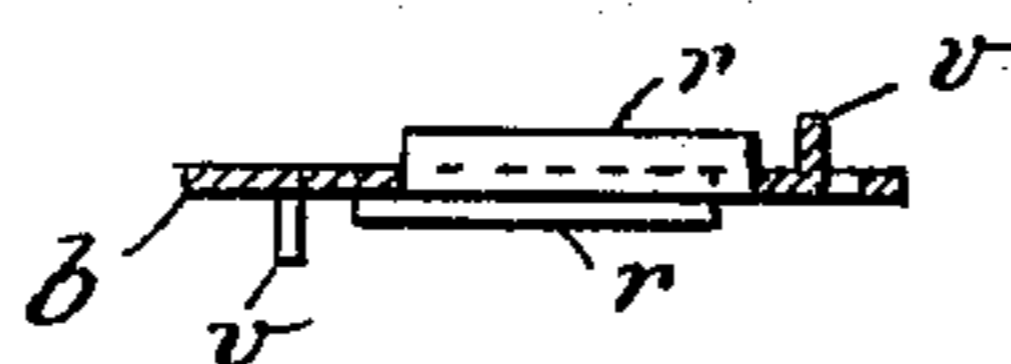


Fig. 5.

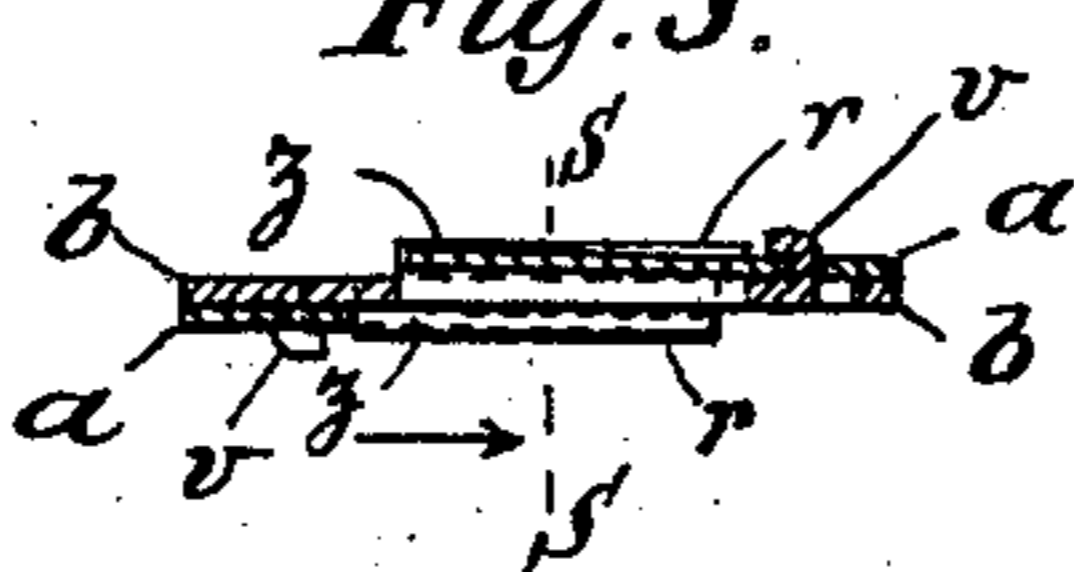
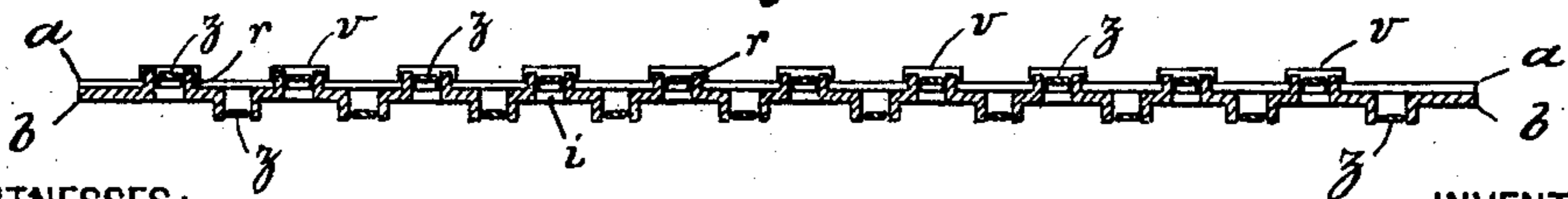


Fig. 6.



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UNITED STATES PATENT OFFICE.

ERNST PAUL STARK, OF MARKNEUKIRCHEN, GERMANY.

REED-PLATE FOR TONGUED INSTRUMENTS.

SPECIFICATION forming part of Letters Patent No. 669,449, dated March 5, 1901.

Application filed October 16, 1900. Serial No. 33,314. (No model.)

To all whom it may concern:

Be it known that I, ERNST PAUL STARK, a subject of the King of Saxony, residing at Markneukirchen, in the Kingdom of Saxony, Germany, have invented new and useful Improvements in Reed-Plates for Tongued Instruments, of which the following is a specification:

This invention relates to a reed-plate for 10 tongued musical instruments, which consists of two parts secured to one another and punched or cut so as to have stiffening-ribs and connecting-clips.

This invention is set forth in the following 15 specification and claims and illustrated in the annexed drawings, in which—

Figure 1 is a plan view of reeds. Fig. 2 is a plan view of the apertured portion. Fig. 3 is a section along N N, Fig. 1. Fig. 4 is a 20 section along R R, Fig. 2. Fig. 5 is a sectional view of the superimposed parts forming the reed-plate. Fig. 6 is a section along S S, Fig. 5.

As seen in the drawings, the improvement 25 consists in a reed-plate for musical instruments of various kinds, said plate being of characteristic construction and shape. The plate consists of the tongue-plate *a* and supporting-plate *b*. Plate *b* is provided with slits 30 or apertures forming holes *z*. These slits or holes are bordered by ribs *r*, which are formed during the punching operation. These ribs not only impart special stiffness to the plate *b*, but the reeds *z* lying between these ribs *r* 35 and which are punched or formed integral with plate *a* give a very pleasant full tone. The tongue-plate *a*, moreover, is provided with small slits or holes *n*, which serve for the entry or engagement of the connecting-

clips *v*, formed on the slitted or apertured 40 supporting-plate *b*. The connection of the tongue-plate *a* with slit-plate *b* is effected by placing one plate on the other in such manner that the clips *v* pass through the slits *n*, and said clips being then bent over at their ends the 45 two plates are securely united to form a stiff structure.

It is immaterial if two reed-plates *a* are connected with one aperture-plate *b*, as shown, for example, in the drawings, for, if desired, 50 only one reed-plate can be fastened to an aperture-plate, as required by the nature of the respective instrument. Rivets, screws, or other fastenings could be applied in place of clips *v*.

What I claim as new, and desire to secure 55 by Letters Patent, is—

1. A reed-plate for musical instruments consisting of a supporting-plate formed with a series of clips and a series of openings bordered by a series of stiffening-ribs, and a 60 plate mounted upon said supporting-plate and provided with a series of integral tongues and a series of openings through which extend said clips for securing the plates together. 65

2. In combination a pair of plates, one of which is formed with a series of integral tongues and openings and the other with stiffening-ribs and means for securing the two 70 plates together.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

ERNST PAUL STARK.

Witnesses:

J. THEODOR SCHUSTER,
PAUL SCHUSTER.