

(No Model.)

G. A. BRACHHAUSEN.
NOTE DISK OR SHEET.

No. 547,838.

Patented Oct. 15, 1895.

Fig. 1.

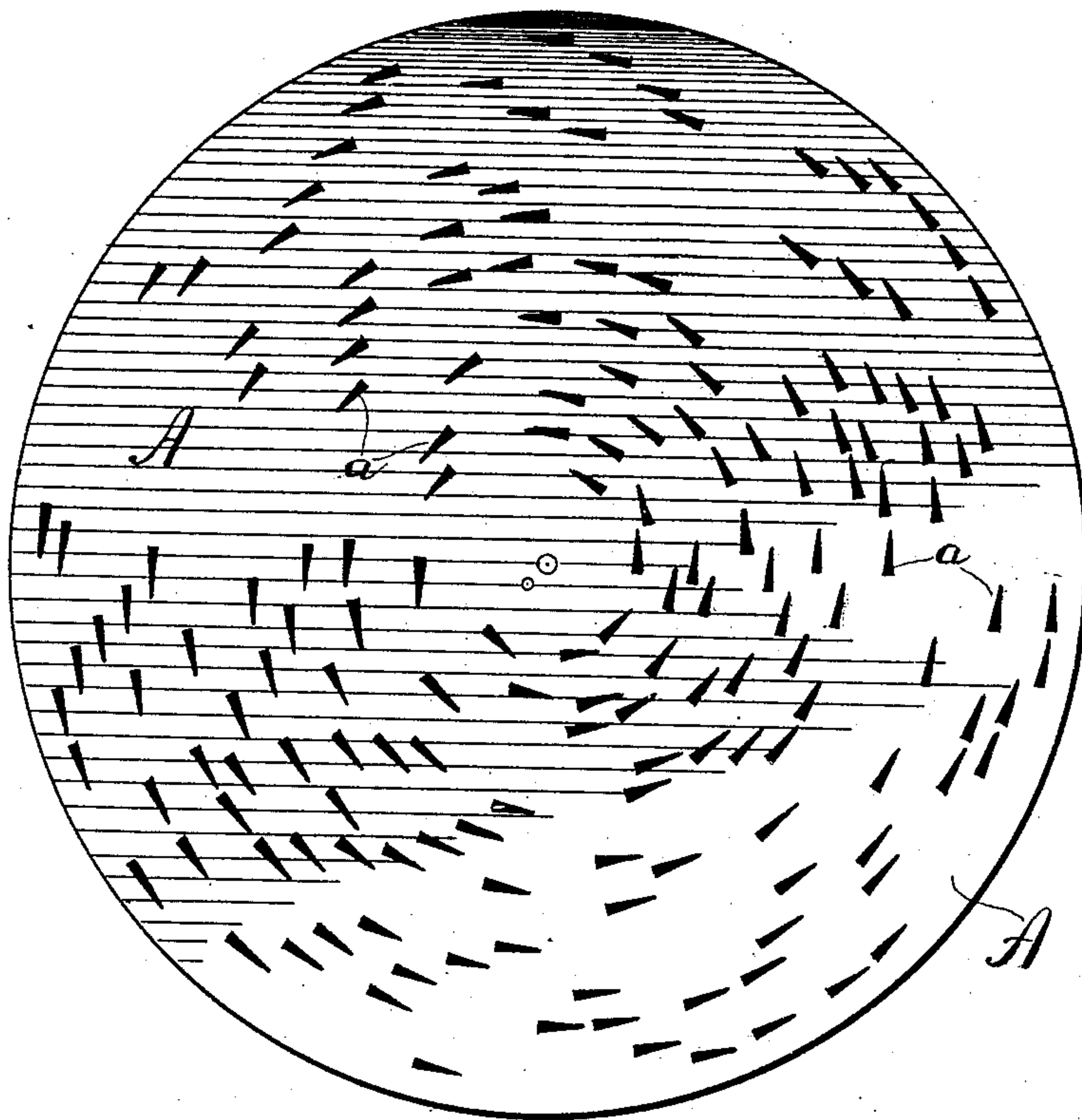


Fig. 2.

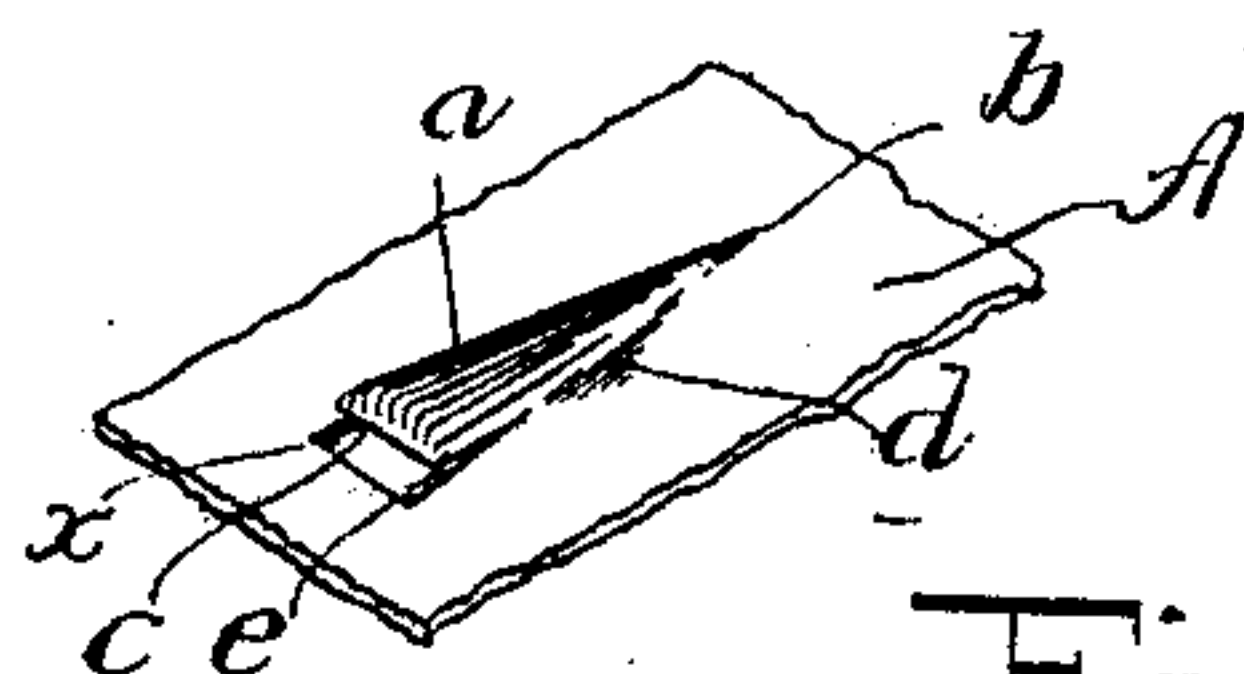


Fig. 3.

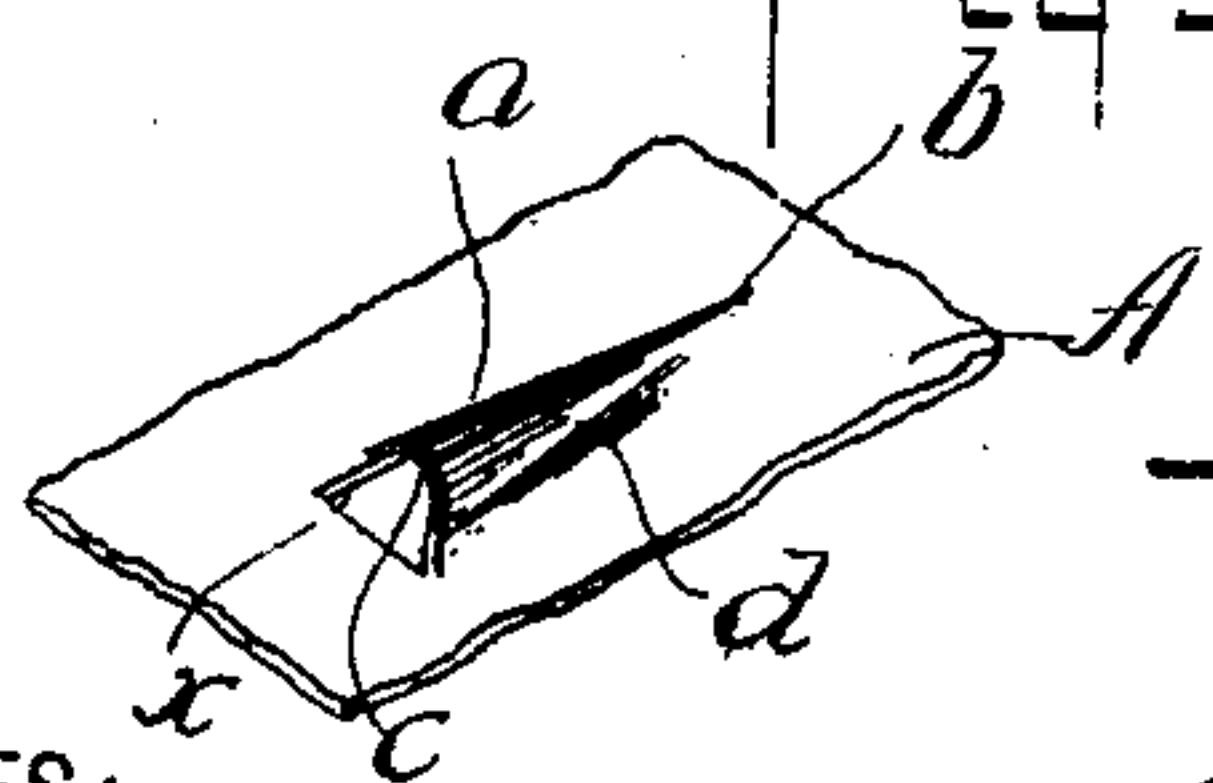


Fig. 4.

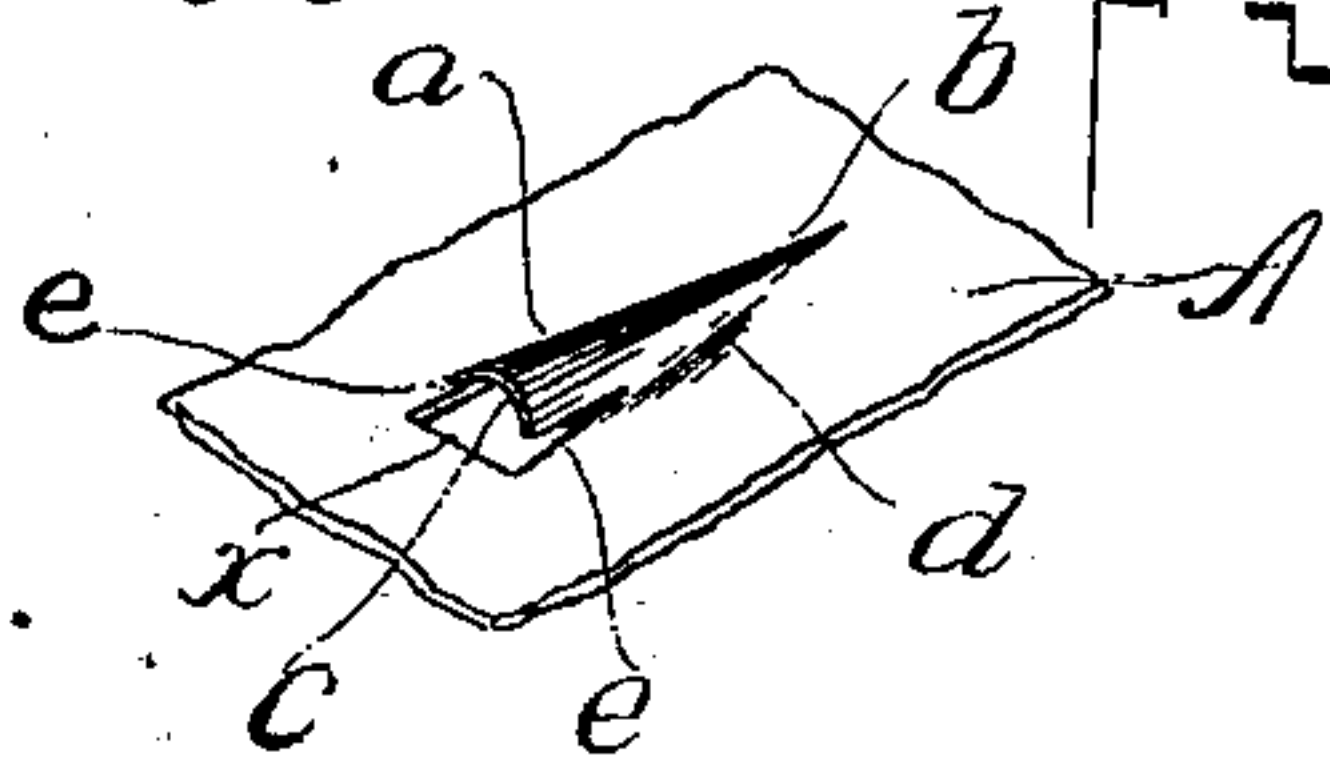
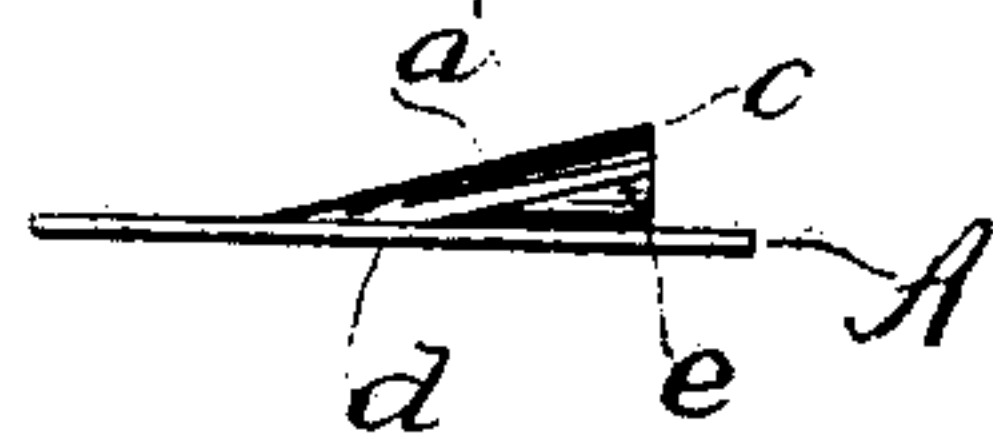


Fig. 5.



WITNESSES:

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NOTE DISK OR SHEET.

SPECIFICATION forming part of Letters Patent No. 547,838, dated October 15, 1895.

Application filed October 23, 1894. Serial No. 526,674. (No model.)

To all whom it may concern:

Be it known that I, GUSTAV A. BRACHHAUSEN, a subject of the Emperor of Germany, residing at Jersey City, Hudson county, State of New Jersey, have invented a new and Improved Note Disk or Sheet, of which the following is such a full, clear, and exact description as will enable those skilled in the art to which the invention appertains to make and use the same.

My invention relates to that character of musical instruments wherein a note disk, sheet, or barrel is employed to operate the vibrating tongues or other music-producing devices; and said invention consists in the form of teeth to be employed on the note disk, sheet, or barrel.

The object of the invention is to produce strong and reliable teeth, wherein each tooth consists of a single piece provided with a support opposite to the working face thereof and on each side of the tooth for at least a portion of its length, and to this end I construct teeth in the manner hereinafter described and illustrated in the accompanying drawings, wherein—

Figure 1 is a top view of a note-disk provided with teeth made in accordance with my invention. Figs. 2, 3, and 4 are like views of different forms of teeth made in accordance with my invention, and Fig. 5 is a side view of the form of tooth represented in Fig. 3.

In the drawings, A represents the body portion of a note-disk, which is preferably made of metal, it being understood, however, that any suitable material may be employed and that my invention is equally applicable to a note sheet, cylinder, or other equivalent thereof. Projecting from the body A of the disk or its equivalent are note-teeth *a*, each of which consists of a single piece cut from the body at the working face of the tooth, as indicated at *x*, and struck up into curved form in the direction of its width and so as to form a support *b* for the tooth opposite to the working face *c* thereof and on each side of the tooth for at least a portion of its length, as indicated at *d*. In Fig. 2 a form of tooth is shown wherein the side supports *d* extend for only a portion of its length, it being cut away from the body of the disk, as shown at *e*, and has a flat portion thereof forming the working face *c*. Figs. 3 and 5 illustrate a note-tooth wherein the support *d* on one side extends throughout its length and the support *d* on the other side

thereof extends for only a portion of its length, leaving a severed portion *e*, as indicated. In Fig. 4 the tooth is represented as severed along both sides at substantially right angles to the working face thereof, as indicated at *e*, thereby leaving the support *d* extending only a portion of the length of the tooth on each side thereof.

It will be observed that by my invention each tooth is severed from the metal or body portion of the disk only at or near the highest part of the tooth or the working face thereof, whereby the necessary height of the tooth can be obtained and at the same time the greatest amount of rigidity provided, there being little liability of breakage or displacement of the parts.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A note disk or its equivalent, each tooth of which consists of a single piece stamped up into curved form in the direction of its width and severed from the body of the note disk at the working face of the tooth and along the sides thereof for a portion of its length and formed integral with such note disk at the sides for a portion of the length of the tooth and opposite to the working face thereof, substantially as and for the purposes specified.

2. A note tooth of a single piece stamped up into curved form in the direction of its width and severed from the note disk alongside the working face of the tooth and also along the side at substantially right angles to said working face, whereby the necessary height of the tooth can be obtained and the greatest amount of rigidity provided, substantially as described.

3. A note disk having operating teeth or projections, each formed of a single piece stamped up into curved form in the direction of its width and severed from the body of the metal on the line of the working ends or edges and along the lines of both sides, whereby the necessary height of the tooth can be obtained and the greatest amount of rigidity provided, substantially as and for the purposes specified.

GUSTAV A. BRACHHAUSEN.

Witnesses:

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