

(No Model.)

F. SCHAUB.

NOTE SHEET OR BARREL FOR MECHANICAL MUSICAL INSTRUMENTS.

No. 532,290.

Patented Jan. 8, 1895.

Fig: 1.



Fig: 2.

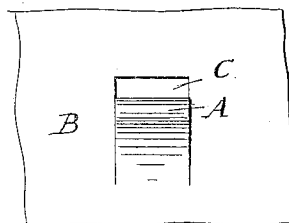


Fig: 3.

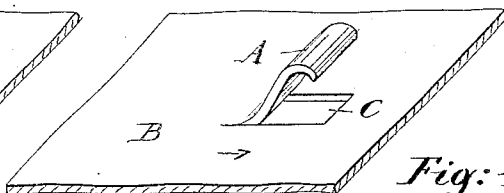
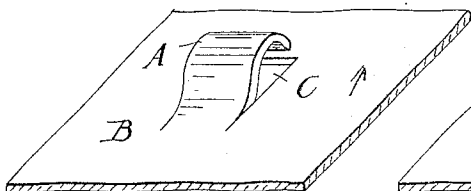


Fig: 4.

Fig: 6.

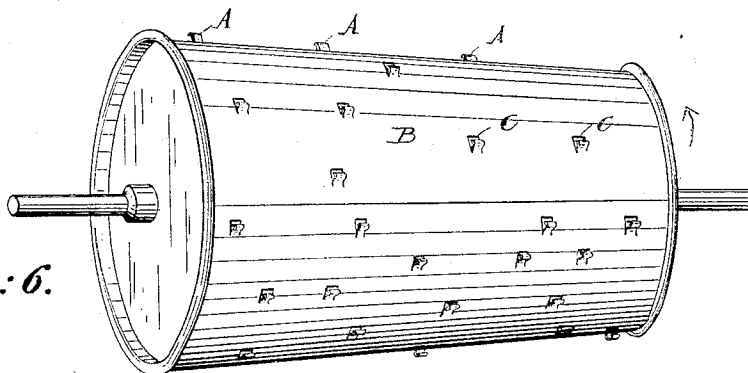


Fig: 5.



Witnesses
S. P. Palmsted.
Emil Mueller.

F. Schaub Inventor
By his Attorney O. Schaub.

UNITED STATES PATENT OFFICE.

FERDINAND SCHAUB, OF JERSEY CITY, NEW JERSEY, ASSIGNOR TO F. G. OTTO & SONS, OF SAME PLACE.

NOTE SHEET OR BARREL FOR MECHANICAL MUSICAL INSTRUMENTS.

SPECIFICATION forming part of Letters Patent No. 532,290, dated January 8, 1895.

Application filed November 19, 1894. Serial No. 529,273. (No model.)

To all whom it may concern:

Be it known that I, FERDINAND SCHAUB, a citizen of the United States, and a resident of Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Note Sheets or Barrels for Mechanical Musical Instruments, of which the following is a specification.

10 This invention relates to improvements in the note plates or barrels for that class of music boxes having removable or interchangeable note plates or barrels and the invention relates especially to the shape and construction
15 of the "note" or projection on said plate or barrel, the note being the part that serves to operate or turn a star wheel or analogous device for vibrating the teeth of the music box comb.

20 The object of my invention is to provide a new and improved note, which is strong and durable, does not split or break while being struck up, nor unduly weakens the plate or barrel and which can be struck up with equal
25 facility from thick or thin sheet metal.

The invention consists in a note composed of a tongue struck up from a sheet of metal and severed from the same at the front end and both sides and curved in the direction
30 of its length, the free or working end of the tongue being raised all as will be fully described and set forth hereinafter and finally pointed out in the claims.

In the accompanying drawings, forming a part of this specification, and in which like letters of reference indicate like parts in all the views, Figure 1 is a vertical longitudinal sectional view of my improved note. Fig. 2, is a plan view of the same. Fig. 3, is a rear
40 perspective view and Fig. 4 a front perspective view of the same. Fig. 5, is a vertical longitudinal sectional view of tooth, of a slightly modified shape, but of the same general construction. Fig. 6, is a perspective
45 view of a barrel provided with my improved notes.

The note A, consists of a tongue struck up from a piece B, of sheet metal, which may be in the shape of a disk, hollow cylinder, cone,
50 &c. To form said tongue a piece is cut out

of the sheet metal of sufficient size, leaving an opening C, in the plate. This opening is quadrilateral in shape and the tongue remains connected, that is, integral with the plate, at one end only of said opening C. 55 The tongue is bent up or outward on a gentle S curve, as shown in Fig. 1 so as to extend partly over the opening formed by cutting or punching out the tongue.

In the drawings the arrows X denote the 60 direction in which the plate is to be moved for the purpose of operating the music producing devices and also denotes the direction of the length of the tongue.

It will be observed that the tongue is curved 65 in the direction of its length only, that it is disconnected or severed from the plate at its raised front end and along its sides and is connected with the plate only at its lower end or base. It is not curved transversely but forms
70 at its free end a straight working edge or face at right angles to the length of the tooth and parallel to the plate from which said tongue was struck up. The working end of the tongue strikes the teeth or prongs of the
75 star wheel squarely and cannot slip on the same, and the tongue has a strong abutment directly opposite its working end or face. Owing to the special shape of the tongue the pressure is transmitted from the working end
80 to the abutment, without bending the tongue in any part of its length or at its abutment, in the same manner as the line of force remains within a properly constructed arch.

The note shown in Fig. 5, is of a slightly 85 different shape but in all other respects is substantially like the one described above.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is— 90

1. A note projection for music box plates, cylinders or cones, composed of a tongue struck up from sheet metal and connected with said sheet at the end opposite the working end, having its front and sides severed
95 from said plate and curved in the direction of its length, substantially as herein shown and described.

2. A sheet metal note plate or barrel for music boxes, having a series of tongues struck 100

up from said sheet metal which tongues are
each severed from the sheet metal at the front
or working end and along the sides and con-
nected with the sheet metal at the base or rear
5 end of each of said tongues, only, the tongues
being curved from their bases upward toward
the working ends on a gentle S curve and
said tongues being parallel, transversely to
the plate from which they were struck up,
10 substantially as herein shown and described.

3. A note plate or barrel for music boxes,
having a series of projecting tongues which
are severed from the plate or barrel at the
front and both sides curved in the direction

of their lengths and provided at the free 15
raised end with a straight working edge
which is parallel with the face of the plate or
barrel, substantially as herein shown and
described.

In testimony that I claim the foregoing as 20
my invention I have signed my name, in pres-
ence of two witnesses, this 17th day of No-
vember, 1894.

FERDINAND SCHIAUB.

Witnesses:

OTTO. J. MEYER,

GEORGE W. GRAHAM.