(No Model.)

# E. L. CUENDET.

## FEED MECHANISM FOR MECHANICAL MUSICAL INSTRUMENTS.

No. 589,421. Patented Sept. 7, 1897.

FIG. 1.

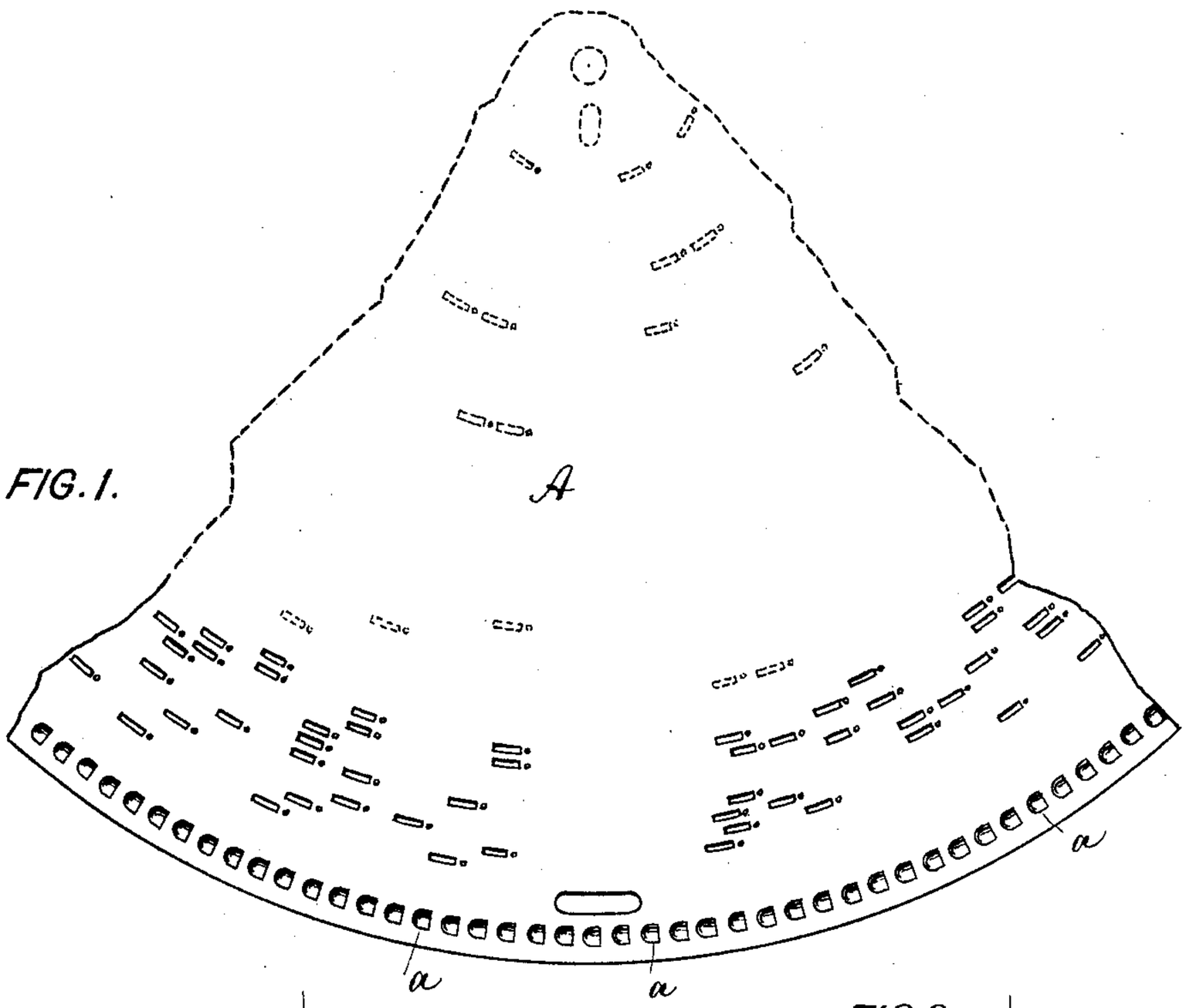



FIG. 2.

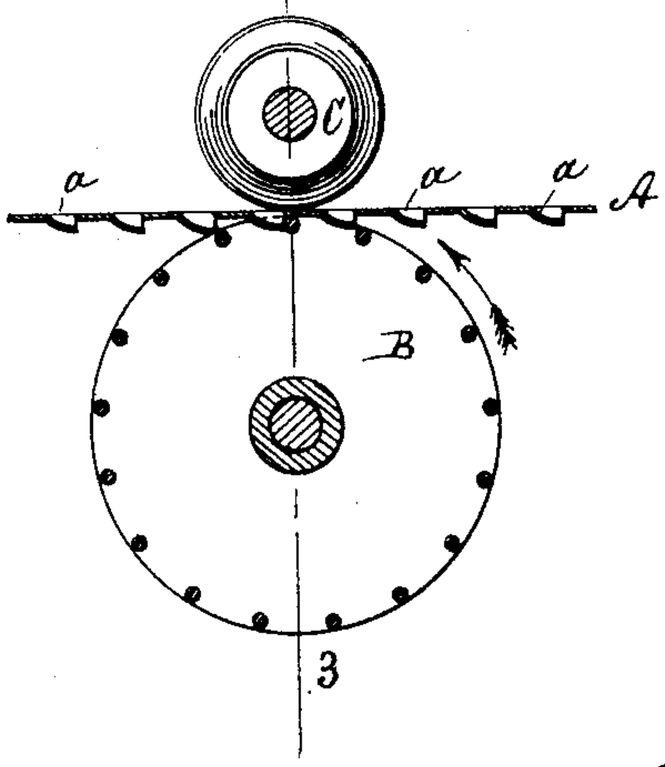



FIG. 3.

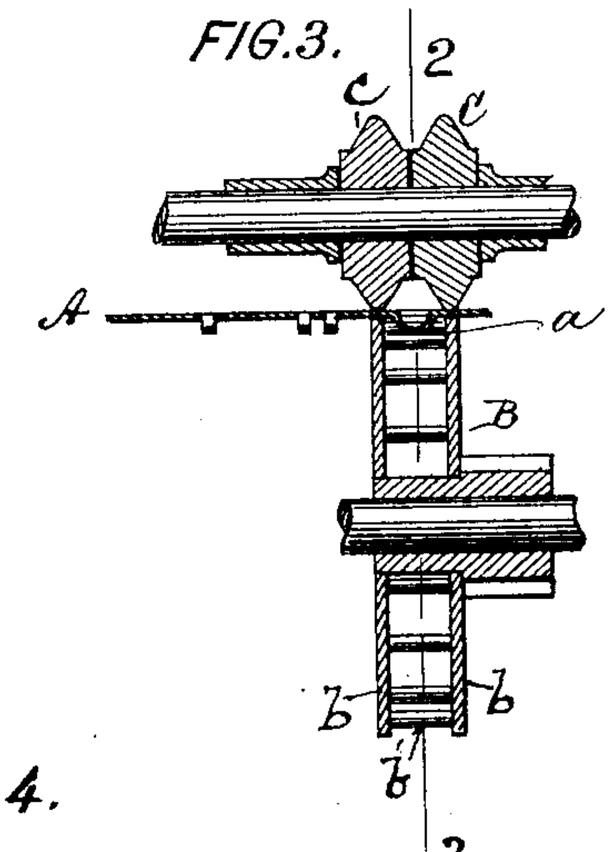
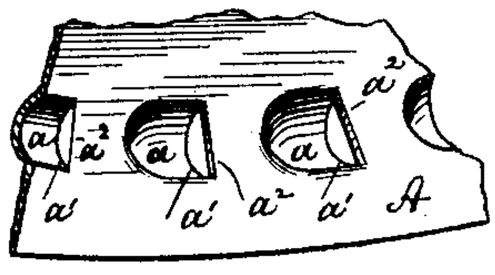



FIG. 4.




Witnesses:
John Becker.
Willie Miller.

Inventor:
Emile L. Cuendet
by his attorneys
Roeder & Brieren

# UNITED STATES PATENT OFFICE.

EMILE L. CUENDET, OF NEW YORK, N. Y.

## FEED MECHANISM FOR MECHANICAL MUSICAL INSTRUMENTS.

SPECIFICATION forming part of Letters Patent No. 589,421, dated September 7, 1897.

Application filed September 21, 1896. Serial No. 606,467. (No model.)

*To all whom it may concern:*

Be it known that I, EMILE L. CUENDET, a citizen of the Republic of Switzerland, and a resident of New York city, New York, have invented an Improved Feed Mechanism for Mechanical Musical Instruments, of which the following is a specification.

This invention relates to an improved feed mechanism for mechanical musical instruments by which a positive engagement between note-plate and drive-wheel and a consequent uniform feed is effected.

In the accompanying drawings, Figure 1 is a plan of portion of a note-plate adapted to be engaged by the feed mechanism. Fig. 2 is a detail longitudinal section through the feed mechanism on line 2 2, Fig. 3; Fig. 3, a section on line 3 3, Fig. 2; and Fig. 4, a detail perspective view of the bottom of the note-plate, showing a number of the driving-teeth.

The letter A represents a circular revoluble note-plate for mechanical musical instruments provided with suitably-constructed reed-actuating pins or teeth. In order to impart the proper feed motion to the plate A, it is provided with the peripherally-arranged driving-teeth $a$, which are embossed, as shown, to form a series of bulged projections. Each tooth is at its working edge severed from the body of plate A, as at $a^2$, so as to form an arched free edge $a'$ in line with the radius of plate A. The teeth $a$ are adapted to be engaged by a drive-wheel B, composed of a pair of outer disks or cheeks $b\,b$ and of a number of transverse connecting-pins $b'$.

While the pins $b'$ are adapted to engage the severed edges $a'$ of teeth $a$, the disks $b$ will engage the lower face of the disk A to the right and left of such teeth, as shown. Directly above the wheel B there are mounted upon a transverse shaft a pair of pressure-rollers C, having tapering rims, so that the bodies of such rollers clear the cavities of the teeth $a$. The treads of the rollers C are placed directly above and are in vertical alinement with the disks $b$, so that in this way the sheet A is positively engaged by the parts $b$ C at both sides of the teeth.

It will be seen that by my invention a positive engagement between the working edges $a'$ of the teeth and the pins $b'$ is effected, while, furthermore, any buckling or bulging of the sheet is prevented, so that a uniform and reliable feed is imparted to the music-sheet.

What I claim is—

A feed mechanism for mechanical musical instruments consisting of a music-sheet A, having embossed teeth that are provided with a severed working edge, a pair of disks $b$, adapted to engage the lower side of sheet A, at the sides of such teeth, driving-pins $b'$, connecting the disks, and a pair of pressure-rollers C, that are adapted to engage the upper side of sheet A, in vertical alinement with the disks, substantially as specified.

E. L. CUENDET.

Witnesses:

F. v. BRIESEN,

WILLIE MILLER.