

No. 629,259.

Patented July 18, 1899.

A. JUNOD.

DEVICE FOR TRIPPING VIBRATING TONGUES OF MECHANICAL MUSIC BOXES.

(Application filed Dec. 2, 1897.)

(No Model.)

Fig. 1.

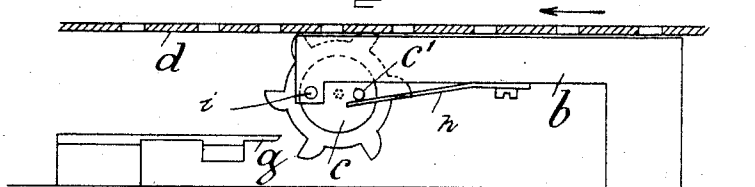


Fig. 2.

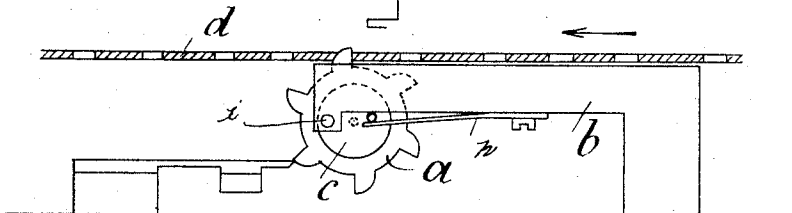


Fig. 3.

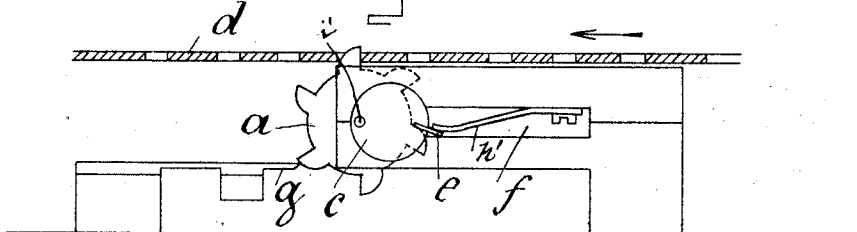
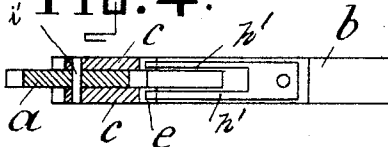


Fig. 4.



Witnesses:

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 Archie L. Donohoe*

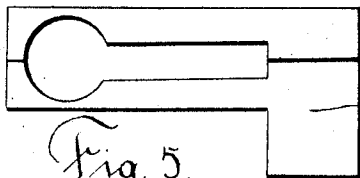


Fig. 5.

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# UNITED STATES PATENT OFFICE.

ANDRÉ JUNOD, OF AUBERSON, SWITZERLAND.

DEVICE FOR TRIPPING VIBRATING TONGUES OF MECHANICAL MUSIC-BOXES.

SPECIFICATION forming part of Letters Patent No. 629,259, dated July 18, 1899.

Application filed December 2, 1897. Serial No. 660,510. (No model.)

*To all whom it may concern:*

Be it known that I, ANDRÉ JUNOD, a citizen of the Republic of Switzerland, residing at Auberson, Canton Wadd, Switzerland, have invented certain new and useful Improvements in Devices for Tripping the Vibrating Tongues of Mechanical Music-Boxes; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

According to this device the center of the tripping-wheel revolves around a fixed point located outside of said center, so that thereby the tripping-wheel is vertically displaced against the music-sheet.

In the accompanying drawings the tripping device is shown in two modifications.

Figures 1 and 2 represent one form in side elevation, showing the tripping-wheel in different positions. Fig. 3 is a similar view of a modified form of the invention, and Fig. 4 is a transverse section of the same. Fig. 5 is a detail of the support *b*, showing one of the circular openings for the disks *c*.

In Figs. 1 and 2 the tripping-wheel *a* is revolvably and concentrically mounted upon a disk *c*, which is eccentrically pivoted upon a pin *i* in the frame *b* and is limited in its oscillations upon pin *i* by a projection *c'*. The tripping-wheel can turn freely upon said disk *c*, which is under the influence of a spring *h*, so that the tripping-wheel *a* is pressed constantly against the perforated music-sheet *d*. When a hole in the music-sheet passes over the tripping-wheel, a tooth of the latter, pressing against the music-sheet, will jump into this hole by virtue of the spring, and the disk *c* will follow in turning upon its eccentric pin or pivot until it reaches its upper limit, when the projection *c'* strikes against the frame. Thus the tripping-wheel has for the moment a bearing which is stationary, and the tripping of the vibrating tongue will be effected.

In the modified form shown in Figs. 3 and 4 the tripping-wheel *a* is revolvably mounted between two disks *c* and eccentrically to the same, which latter are adapted to turn in correspondingly circular recesses in the frame *b*. The disk *c* and tripping-wheel are connected by pin *i*. The range or play of these disks *c* is limited by projections *e*, which move in the opening *f* of the frame *b*, and said disks are under the action of springs *h'*, so that the tripping-wheel is always held pressed against the music-sheet *d*. When the tripping-wheel is moved against one of the tongues *g*, the disks *c* are held in the position shown by the resistance of said tongue, and thus the tripping-wheel is actually in stationary bearings. Under the tripping the wheel *a* is pressed down while the music-sheet advances and the disks *c* are turned in their recesses, thereby producing an advance or oscillation of the tripping-wheel around the pivots of the disks *c*.

I claim—

A tripping device for steel tongues in mechanical music-boxes consisting of a tripping-wheel *a* revolvably and concentrically mounted upon a disk *c*, which is eccentrically pivoted in the frame, and which receives the pressure of a spring in such a way as to keep the teeth of the tripping-wheel constantly pressed against the music-sheet *d*, said disk being provided with a projection *c'*, adapted to limit the oscillation of the disk by striking against the frame *b* when a tooth of the tripping-wheel enters into an opening of the music-sheet.

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

ANDRÉ JUNOD.

Witnesses:

C. HANSLIN,  
F. APEL.