

(No Model.)

G. A. BRACHHAUSEN.
MUSIC BOX.

No. 581,262.

Patented Apr. 27, 1897.

Fig. 1.

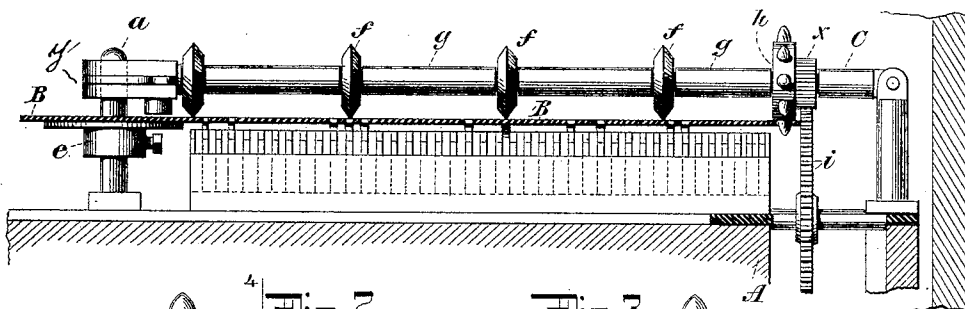


Fig. 2.

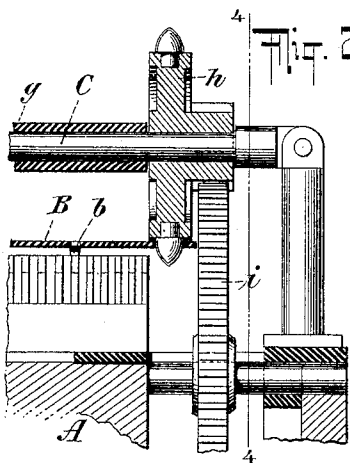


Fig. 3.

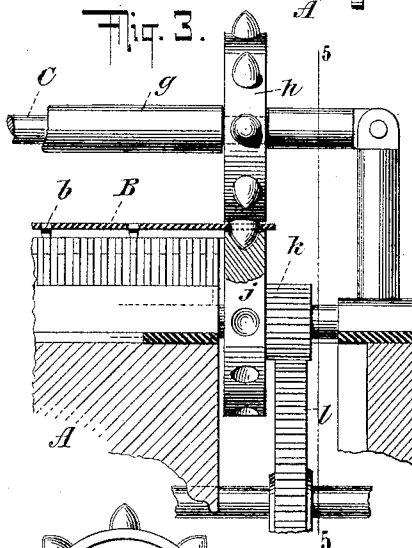


Fig. 4.

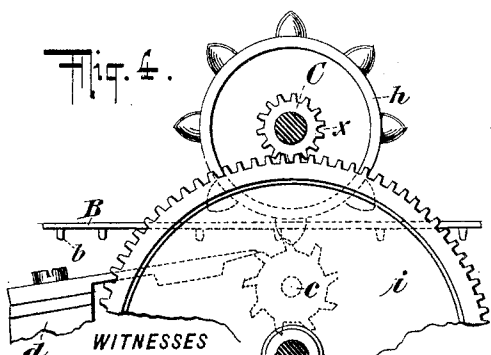
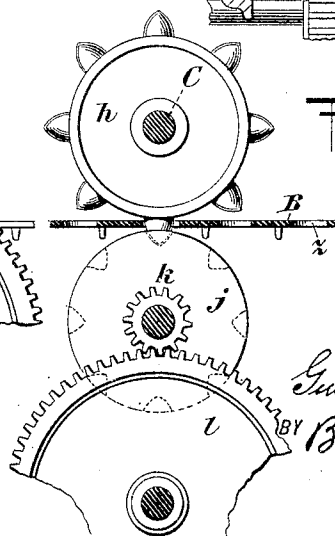


Fig. 5.



WITNESSES

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GUSTAV A. BRACHHAUSEN, OF RAHWAY, NEW JERSEY.

MUSIC-BOX.

SPECIFICATION forming part of Letters Patent No. 581,262, dated April 27, 1897.

Application filed October 31, 1896. Serial No. 610,670. (No model.)

To all whom it may concern:

Be it known that I, GUSTAV A. BRACHHAUSEN, a resident of Rahway, Union county, State of New Jersey, have invented certain new and useful Improvements in Music-Boxes, of which the following is a specification.

My invention relates to music-boxes of that character wherein note-disks or rotary note-plates are employed to operate music-tongues or other sounding devices through interposed star-wheels or otherwise.

The said invention is an improvement upon the device covered in the patent to Brachhausen and Riessner, dated June 27, 1893, No. 500,371; and it consists in the novel arrangement and combination of parts hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a sectional view, with parts in elevation, of sufficient number of parts of a music-box to illustrate my invention. Fig. 2 is an enlarged fragmentary sectional view of the same. Fig. 3 is a like view of a modified form of device embodying my invention. Fig. 4 is a view on the line 4 4 of Fig. 2. Fig. 5 is a like view on the line 5 5 of Fig. 3.

Upon the bed-plate A of the music-box is secured a pivot or pintle *a*, around which the note-disk B is adapted to rotate. This note-disk is preferably provided with note projections *b*, which are intended to operate, through the star-wheels *c* or otherwise, the sounding device, which in the present instance consists of music-tongues *d*. (See Fig. 4.) The note-disk is supported upon an adjustable sleeve *e*, carried upon the pintle *a*, and is held in operative position thereon by the friction-rollers *f*, loosely carried upon the hinged rod C, and which may be maintained spaced apart by sleeves *g* or otherwise. The roll C is locked against movement when the parts are in the operative position by a latch *y*. Loosely carried upon the hinged rod C is a spur-wheel *h*, which is adapted to engage the note-sheet near the outer edge thereof to rotate it.

In the construction illustrated in Fig. 1 the spur-wheel *h* has a pinion *x* connected therewith, which pinion is engaged and driven by

a gear-wheel *i*, operated from a suitable spring-motor. (Not shown.)

In the construction shown in Figs. 3 and 5 the spurs on the spur-wheel *h* are adapted to engage in the recesses in the female gear *j* when the parts are in the operable position, as indicated in Fig. 3. In this construction a pinion *k* is carried upon the female gear and rotates the note-disk through engagement with spurs on the spur-wheel, the pinion being driven by a gear *l*, forming part of the train of gear of the spring-motor.

It will be observed that in both the constructions shown the spur-wheel is free to revolve upon the hinged rod until the spurs engage in the openings or engaging means *z* in the disk, when the spur-wheel is engaged by the driving means and prevented from further rotation.

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

1. In a music-box, the combination of a note-disk having engaging means near the outer edge thereof, a hinged rod having rollers loosely mounted thereon, which rollers are adapted to bear upon the note-disk, a spur-wheel loosely carried upon the hinged rod and adapted to positively engage the engaging means upon the note-disk, means for locking said rod against movement when the parts are in the operative position and means for positively engaging and rotating said spur-wheel.

2. In a music-box, the combination of a note-disk having engaging means near the outer edge thereof, a hinged rod having rollers loosely mounted thereon, which rollers are adapted to bear upon the note-disk, a spur-wheel loosely carried upon the hinged rod and adapted to engage the engaging means upon the note-disk, a pinion carried by the spur-wheel and a gear adapted to mesh with said pinion when the parts are in the operable position.

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Witnesses:

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