

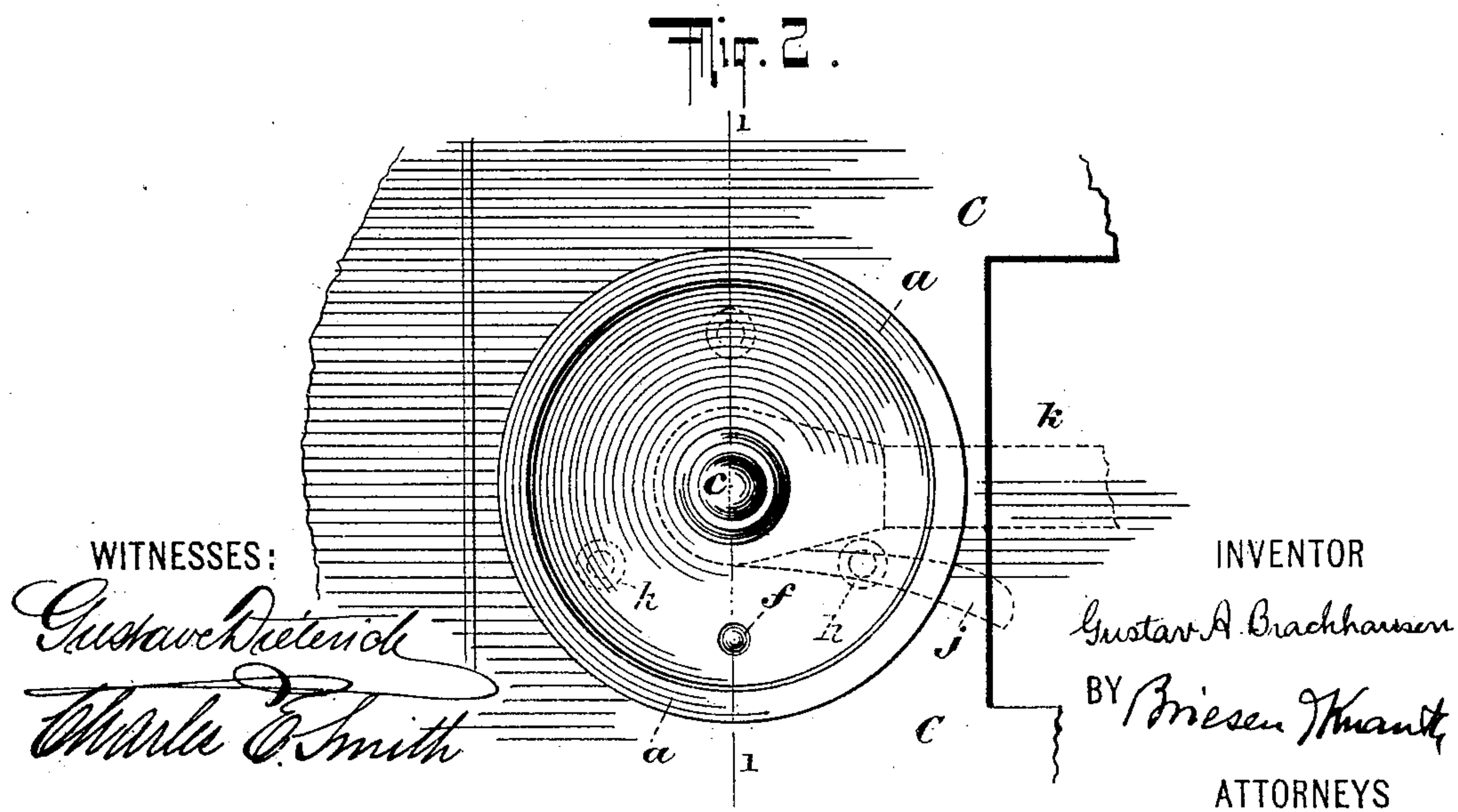
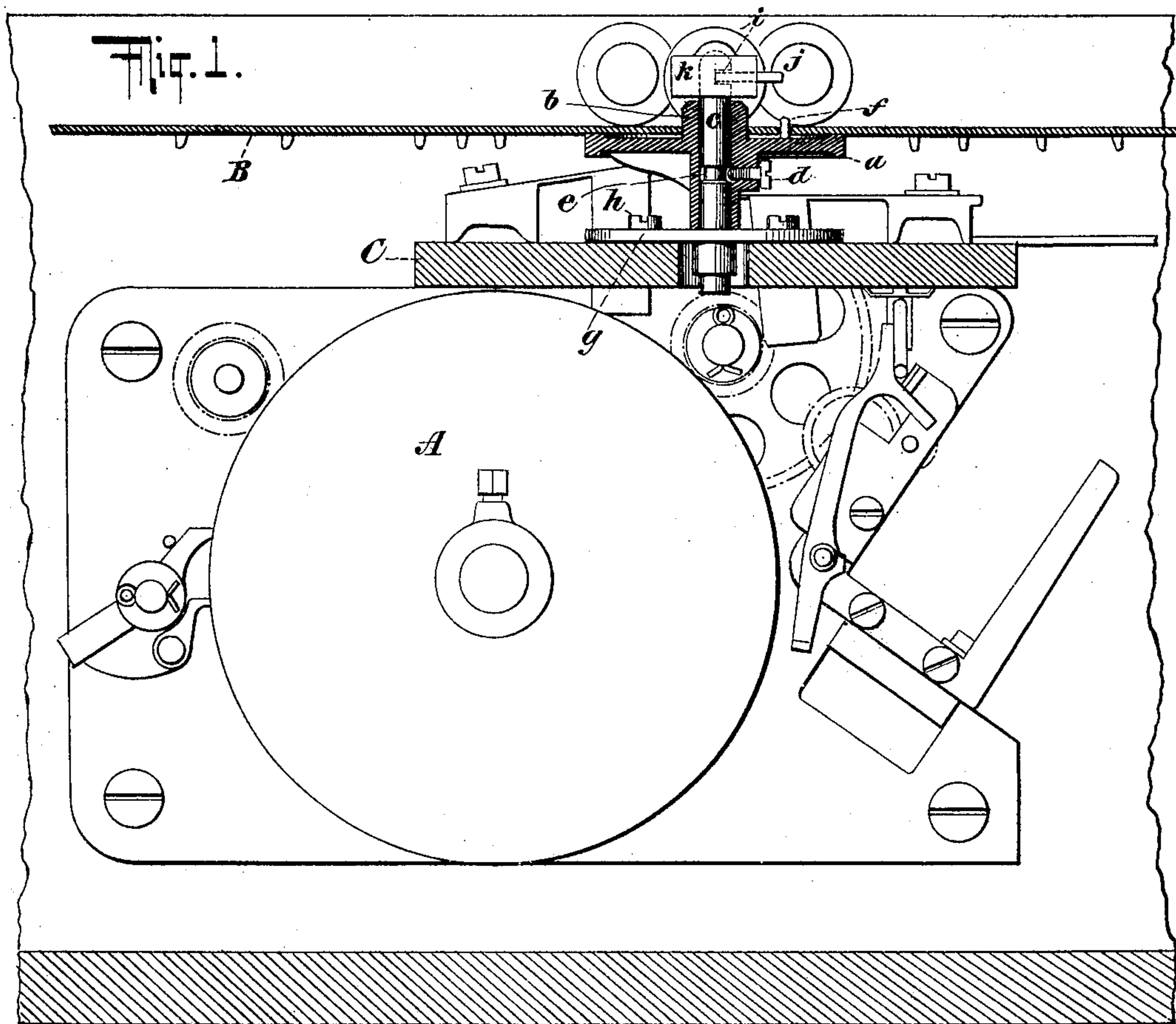
No. 637,367.

Patented Nov. 21, 1899.

G. A. BRACHHAUSEN.
NOTE DISK MUSIC BOX.

(Application filed Apr. 1, 1897.)

(No Model.)



UNITED STATES PATENT OFFICE.

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REGINA MUSIC BOX COMPANY, OF SAME PLACE.

NOTE-DISK MUSIC-BOX.

SPECIFICATION forming part of Letters Patent No. 637,367, dated November 21, 1899.

Application filed April 1, 1897. Serial No. 630,240. (No model.)

To all whom it may concern:

Be it known that I, GUSTAV A. BRACHHAUSEN, residing at Rahway, Union county, State of New Jersey, have invented certain new and useful Improvements in Note-Disk Music-Boxes, of which the following is a full, clear, and exact description.

Heretofore in note-disk music-boxes it has been customary to support the note-disk upon a pin which constituted a pivot around which the note-disk was rotated to operate the musical instrument. In all such cases the note-disk was provided with a central hole through which the pivot or pin on the instrument passed, and the constant frictional contact between the walls of the central hole in the note-disk and the pin caused these parts to become worn and the hole in the note-disk to become enlarged. When the hole became enlarged, it would be impossible to maintain the note-disk in the same relative position at all times, for which reason projections upon the note-disk operated other sounding devices than those which they were intended to operate, and discord in the entire instrument would result. This difficulty is particularly marked in large instruments wherein the amount of pressure needed to properly rotate the note-disk is very great.

The object of my invention is to overcome these difficulties heretofore found in note-disk music-boxes and to provide an instrument wherein there is little liability of the central hole in the note-disk or the pin constituting the pivot therefor becoming worn.

To this end my invention consists in the novel arrangement and combination of parts hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a fragmental vertical central section of sufficient number of parts of a music-box to illustrate my invention. Fig. 2 is a top view of the same.

In the drawings, A represents a motor of any desired or preferred construction, which is intended to rotate a note-disk B. The note-disk B is supported upon a flange *a*, constituting part of a note-disk-engaging means or sleeve *b*, which projects upwardly therefrom. This sleeve and its flange are supported and

adapted to rotate upon a pintle *c* and are prevented from being withdrawn therefrom by a set-screw *d*, which is adapted to project into a recess *e* in the pintle *c*. A pin *f* or other note-disk-engaging means may be provided upon the flange *a* and adapted to project through a hole in the note-disk, as represented in Fig. 1. The central hole or aperture in the note-disk is sufficiently large to allow of the sleeve *b* passing therethrough, so that the note-disk B may rest upon the flange *a*. The pintle *c*, together with the flange *a* and sleeve *b*, which are adapted to rotate freely on the pintle, may be carried upon the bed-plate C of the instrument and secured thereto in any desirable manner, as by a plate *g*, which is rigidly connected to the pintle *c* and is itself secured to the bed-plate by screws *h*. The pintle *c* may be provided with a recess *i* near the upper end thereof for engagement with a latch *j* of the arm *k* for securing the note-disk in place, as is usual in constructions heretofore devised.

It will be observed that by my invention the note-disk when secured in operative position causes the flange *a* and the sleeve *b*, which constitute mechanism for centering the note-disk on its pivot, to rotate with the disk, so that there is no liability of the hole in the note-disk becoming enlarged, there being no abrasion of the walls of said hole and the parts which support the disk and around which it rotates.

Of course it will be understood that my invention relates to disk music-boxes wherein the note-disk is driven from the outer portion thereof.

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, means for driving the note-disk from the outer portion thereof, with a centrally-located note-disk-supporting means provided with a plurality of note-disk-engaging means for engaging the note-disk and centering the same and holding the note-disk free from engagement with any stationary abrading part.

2. In a music-box, the combination of a

note-disk, means for driving the note-disk from the outer portion thereof, a pintle and a note-disk-supporting means rotatable freely upon the pintle and comprising a central
5 sleeve adapted to pass through the note-disk and provided with a flange and a pin or other note-disk-engaging means projecting from the flange, whereby the note-disk may be supported free from engagement with any stationary abrading part.

GUSTAV A. BRACHHAUSEN.

Witnesses:

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