

(No Model.)

G. A. BRACHHAUSEN.
DAMPER FOR MUSIC BOXES.

No. 531,359.

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Fig. 1.

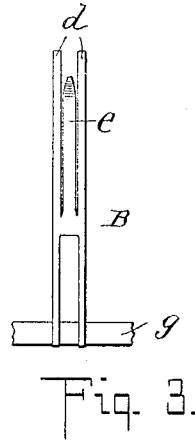
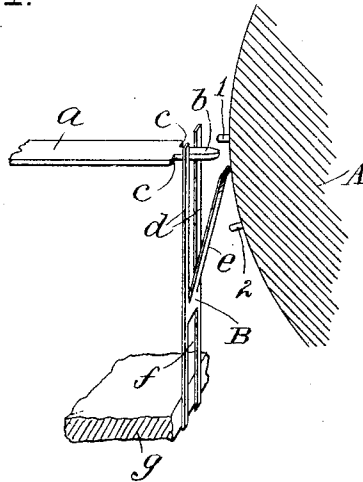
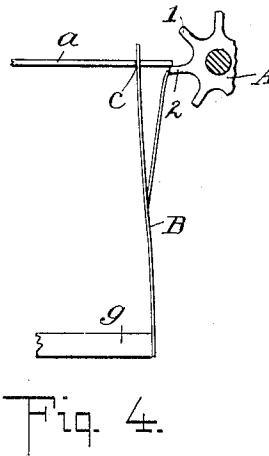
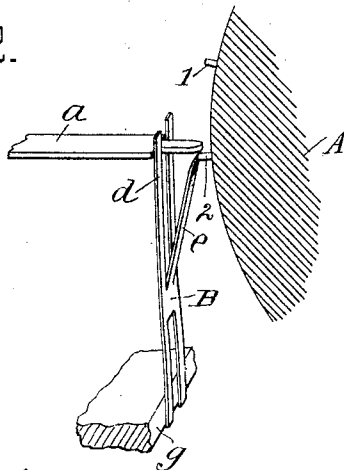


Fig. 2.



WITNESSES:

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DAMPER FOR MUSIC-BOXES.

SPECIFICATION forming part of Letters Patent No. 531,359, dated December 25, 1894.

Application filed August 15, 1894. Serial No. 520,345. (No model.)

To all whom it may concern:

Be it known that I, GUSTAV ADOLF BRACHHAUSEN, a subject of the Emperor of Germany, residing at Hoboken, in the county of Hudson and State of New Jersey, have invented a new and useful Improvement in Dampers for Music-Boxes, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, in which—

Figure 1 is a perspective view of a sufficient number of parts of a music box to illustrate my invention; said figure illustrating the damper in its normal position or at rest. Fig. 2 is a like view of the same showing the damper in operation. Fig. 3 is a detail plan view of my improved damper. Fig. 4 is a side view of the same.

My invention relates to dampers for music boxes and is more particularly adapted to that character of music boxes known as the Swiss box, that is to say, a box wherein a pin cylinder is employed to operate or vibrate the music tongues directly, but is applicable to any character of music box wherein dampers are employed, and said invention consists in the novel arrangement and combination of parts and in the form of damper hereinafter described and claimed.

The object of my invention is to overcome difficulties found in structures heretofore made, and to this end I construct a damper which is independently mounted and is applicable to the ordinary form of Swiss box, which can be constructed without the necessity of employing skilled labor, and which can be removed and replaced when found necessary, with little trouble.

In the drawings A indicates a note-cylinder or other means having pins or projections 1 2 thereon for operating a music tongue *a*, which music tongue has a contracted projection *b* extending therefrom and forming shoulders *c* as is common in Swiss music boxes. A damper B is preferably struck up from a single piece of spring metal to form the forked arms *d* upon the upper end of the damper, finger or projection *e* and slotted portion *f* at the lower end of the damper, where it is se-

cured to the support *g* so as to allow of the damper being readily bent at this portion.

In operation the damper is preferably mounted as illustrated in Fig. 1, so that the finger or projection *e* upon the damper will extend into the path of the pins 1 2 upon the cylinder or other operating means, and force the forked arms *d* against the shoulders *c* of the music tongue, thus damping the same, when the said pins are brought in contact with the finger *e* as illustrated in Fig. 2.

It will be observed that the pin or projection of the note-cylinder or other operating means, retains the damper against the shoulder *c* of the music tongue until said tooth or projection is in engagement with the tongue, as illustrated in Fig. 4, so as to prevent any vibration thereof, which might otherwise occur through sympathetic action with other tongues of the same pitch in the music box. This would effect a rattling between the tongue, which is to be dampened, and the pin or projection 2 of the note-cylinder, which is about to effect the vibration of the music tongue.

It will be seen that by my invention I am enabled to produce an effective damper at little cost, applicable to any ordinary Swiss music box, and wherein there is little danger or liability of the parts being broken or disarranged. The damper being applied by positive pressure against the music tongue, effects a damping thereof, always in the same manner without the slightest variation.

What I claim is—

1. A damper for music boxes having two forked damping arms of equal extent and a finger or projection independent thereof extending from the body of the damper, substantially as described.

2. In a music box, a rigidly supported damper having two resilient forked damping arms, with an arm or projection independent thereof extending from the body of the damper, substantially as described.

3. In a music box, the combination of a music tongue having shoulders thereon, means for vibrating said tongue, a damper having a finger or projection extending there-

from, and two forked arms straddling and adapted to be forced in contact with the shoulders on said music tongue, substantially as described.

- 5 4. In a music box, the combination of a music tongue having a contracted portion forming shoulders thereon, a damper extending into the space formed by said contracted portion, and adapted to be forced into con-

tact with said shoulders, a projection extending from said damper, and means for co-operating therewith to operate the damper, substantially as described.

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Witnesses:

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