

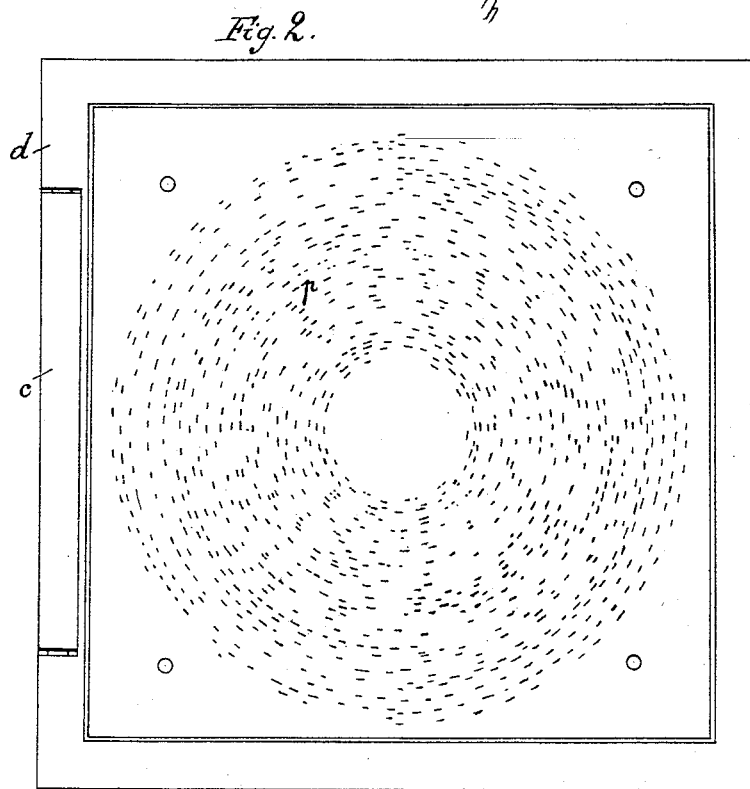
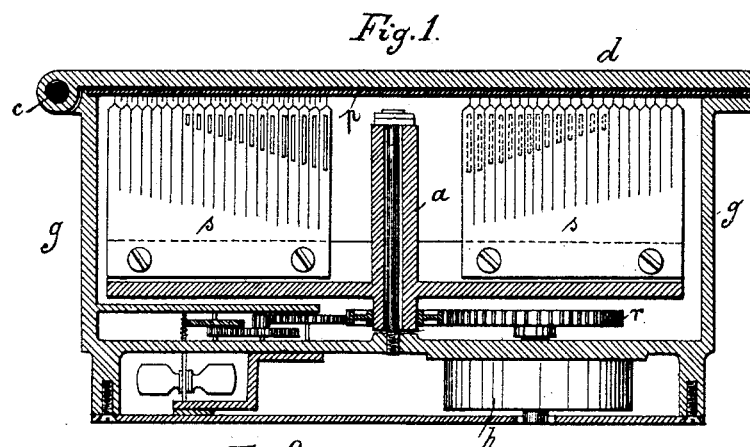
(No Model.)

P. LOCHMANN.

MUSICAL BOX.

No. 346,757.

Patented Aug. 3, 1886.



*Witnesses:*  
*C. Sedgwick*  
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# UNITED STATES PATENT OFFICE.

PAUL LOCHMANN, OF GOHLIS, NEAR LEIPSI, SAXONY, GERMANY.

## MUSICAL BOX.

SPECIFICATION forming part of Letters Patent No. 346,757, dated August 3, 1886.

Application filed October 10, 1885. Serial No. 179,504. (No model.)

*To all whom it may concern:*

Be it known that I, PAUL LOCHMANN, a subject of the King of Prussia, residing at Gohlis, near Leipsic, in the Kingdom of Saxony, German Empire, have invented new and useful Improvements in Musical Boxes, of which the following is a specification.

The invention forming the object of the present application for Letters Patent consists of an improved construction of musical box or mechanical musical instrument.

In my improved music-box I employ a plate provided with pegs or pins and a two-part comb, which pins or pegs are so arranged that those pins or pegs of one half of the plate engage with the corresponding half or part of the comb, and those of the other half or part of the plate avoid the aforesaid half or part of the comb and engage with the other part or half of the comb.

My invention is shown in the annexed drawings.

Figure 1 is a vertical section of the musical box, and Fig. 2 a view of the cover with the pin-plate fixed thereupon.

Upon the steel axle *a*, placed centrally on the bottom of the case *g*, the sounding-comb *s*, divided into two parts, is placed, so that the same can be set in rotary motion by the driving-wheel *r* by means of a spring placed in the box *h*. A note peg-plate, *p*, is employed, which is simply placed upon the inner side of the lid *d*, which folds back by means of the hinge *c*. The pegs are inserted in niches according to the notes of the piece to be played, so that the half of the plate-circle only can be reached by the corresponding half of the comb, while the pegs of the other half of the circle-plate avoid the teeth of that comb and correspond to those of the other comb.

In the drawings, Fig. 1 shows the left side of the comb struck by the various pegs corresponding to it. The pegs visible between the teeth of the comb of the second half of the plate will come in contact with the teeth of the other comb on the completion of a half-turn of the peg-plate. The number of combs may be increased, say, to four or eight by placing them radially around the axis at different positions with regard to the fixed peg-plate.

The music can be stopped immediately at

any time by raising the lid, and be altered by replacing the peg-plate by another.

It is obvious that the combs might be fixed and the pin-plate arranged to rotate without departing from the principle of this invention.

I am aware that it is not new to employ a revolving disk provided with radial grooves containing teeth adapted to engage with teeth of a stationary or fixed comb; also to employ a fixed or stationary disk having perforations adapted to actuate key-levers having pins engaging with the perforations of said levers.

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is—

1. The musical-box mechanism having the plate provided with pegs or pins and the two-part comb, the said pins or pegs being so arranged that those of one half of the plate engage with the corresponding part or half of the comb, and those pins or pegs of the other half of said plate avoid the said half or part of the comb and engage with the other part or half of the comb, substantially as and for the purpose specified.

2. In a musical-box mechanism, the plate having the pegs or pins and the two-part comb mounted upon a support having a central sleeve or hub inserted upon a shaft or spindle, the lower or one end of said sleeve or hub being geared to a driving-spring, and a bellows or blower, substantially as and for the purpose specified.

3. In a musical-box mechanism, the fixed plate having pendent pegs or pins inserted in niches therein, in combination with the revolving two-part comb, the said pins or pegs being so arranged that those of one half of the plate engage with the corresponding part or half of the comb, and those of the other half or part of the plate avoid the said half or part of the comb and engage with the other half or part of the comb, substantially as and for the purpose set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

PAUL LOCHMANN.

Witnesses:

HUGO TELLER,  
ROBERT FISCHER.