

J. W. Mellor,

Music Leaf Turner.

No. 107,519.

Patented Sep. 20. 1870.

Fig. 1.

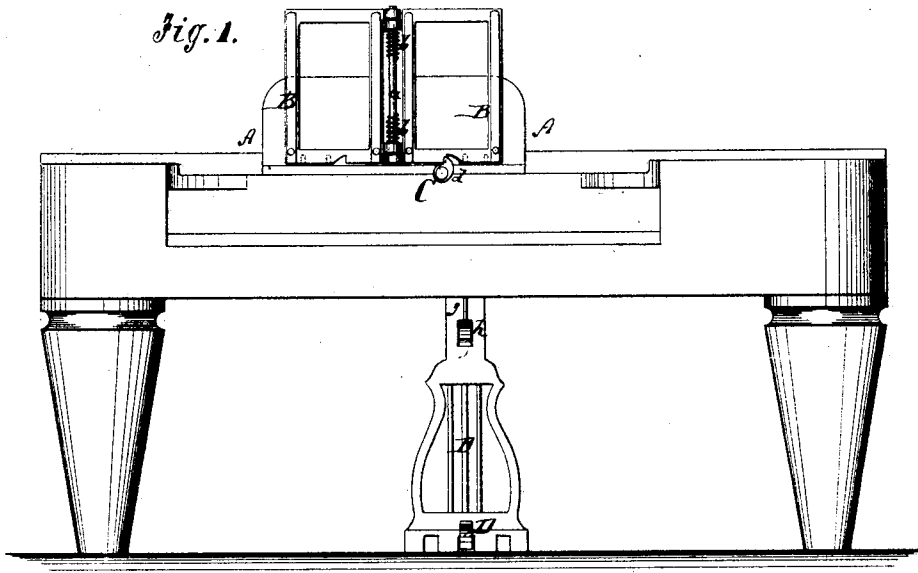


Fig. 2.

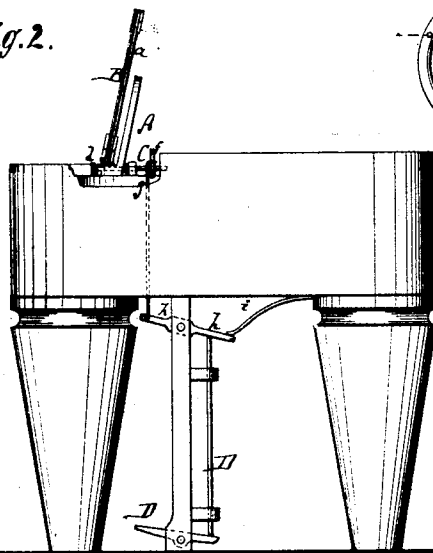
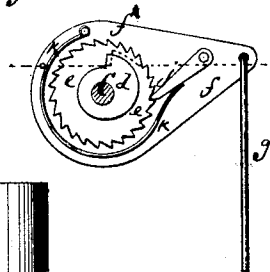


Fig. 3.



Witnesses.

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JAMES W. MELLOR, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 107,519, dated September 20, 1870.

IMPROVEMENT IN MUSIC LEAF-TURNERS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JAMES W. MELLOR, of Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a new and Improved Music Leaf-Turner; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification.

Figure 1 represents a front elevation of a piano that is provided with my improved leaf-turner.

Figure 2 is a side elevation of the same.

Figure 3 is a detail sectional view, on an enlarged scale, of the arbor carrying the cam and ratchet-wheel, and its connections employed thereon.

Similar letters of reference indicate corresponding parts.

This invention relates to a new apparatus for holding the leaves of music on a piano, or other musical instrument, and for turning the same by the action of a foot on a pedal.

The main object of this invention is to simplify the construction of a music leaf-turner, so that the same can be cheaply constructed, and not readily get out of order.

A in the drawing represents the frame of a pianoforte, behind and above the key-board of the same.

This frame serves to support an upright pin or arbor, *a*, on which the leaves B B, that hold the music, are pivoted.

The leaves B are of suitable construction, and contain suitable springs, fingers, or other devices, for holding the leaves.

Springs, *b b*, which are connected with the several leaves respectively, tend to swing them to the left side.

C is a horizontal transverse arbor, fitted through the frame A. It contains at its front end a cam, *d*, which has a projecting arm bearing against the front faces of the leaves B, for holding said springs on the right-hand side, against the action of their springs.

Upon the rear end of the arbor C is mounted a ratchet-wheel, *e*.

f is a lever or crank, turning loose on the rear part of the arbor C, and connected by a rod, *g*, with a lever, *h*, that is pivoted to the lower frame of the piano.

The treadle D is connected with the lever *h*.

A spring, *i*, applied to the lever *h*, serves to hold the treadle up, and also the crank *f*.

To the face of the crank *f* is pivoted a pawl, *j*, which is, by a spring, *k*, held in contact with the ratchet-wheel *e*.

Each leaf B has a notch cut into its upper part, which notch is so placed and shaped that the arm of the cam *d*, when in a certain position, will fit it and clear the leaf B, allowing the spring *b* to swing it to the left.

The notches in the several leaves are so placed that the cam can only fit one at a time, requiring successive motion in the same direction for successively releasing the leaves to the action of the springs *b*.

The operation is as follows:

The leaves, when swung to the right, are all held in position by the cam *d*, and hold the music-leaves to the right too.

The cam is so placed that one motion of the pedal, carrying the ratchet-wheel around by the pawl, will bring it in line with the first notch of the leaf B, allowing the spring *b* to throw the same to the left.

The next motion of the pedal will bring the cam in line with the notch of the second leaf, and so on; every successive motion of the pedal releasing another leaf, until they have all been swung to the left.

The leaves can be locked again under the cam by carrying them all over to the right, and turning the cam into the proper position.

It is evident that in place of notches in the leaves, and a projecting arm on the cam, there may be projecting pins on the leaves, and a notch or notches in the cam, or its equivalent.

Having thus described my invention,

I claim as new and desire to secure by Letters Patent—

The combination, with the ordinary arbor *a*, of pivoted leaves B, springs *b*, and spring-fingers of the horizontal transverse arbor C, cam *d*, ratchet device *k*, lever *f*, rod *g*, spring lever *h* *i*, and treadle D D, all arranged and operating together, as and for the purpose described.

JAMES W. MELLOR.

Witnesses:

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