O. I. SEARLES.

MUSIC LEAF TURNER.

APPLICATION FILED NOV. 8, 1911.

1,036,917.

Patented Aug. 27, 1912.

Fig. 1.

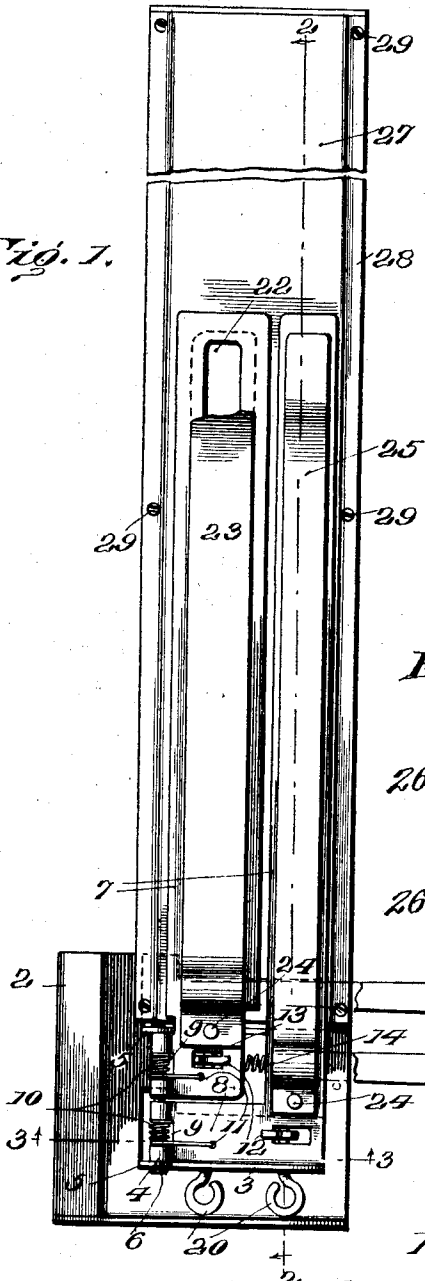


Fig. 2.

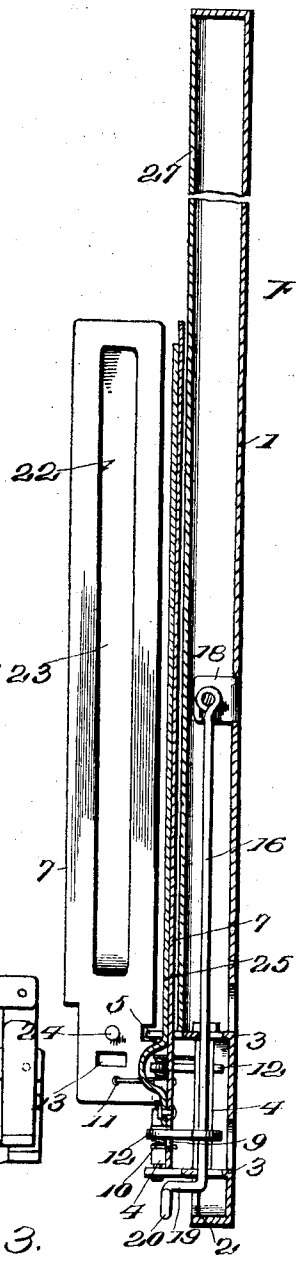


Fig. 4.

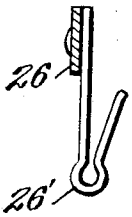
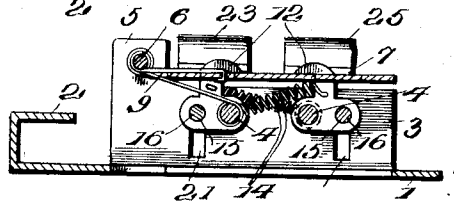


Fig. 3.



Witnesses

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MUSIC-LEAF TURNER.

1,036,917. Specification of Letters Patent. Patented Aug. 27, 1912.

Application filed November 8, 1911. Serial No. 659,111.

To all whom it may concern:

Be it known that I, ORREN I. SEARLES, a citizen of the United States, residing at Joplin, in the county of Jasper and State of Missouri, have invented certain new and useful Improvements in Music-Leaf Turners, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to new and useful improvements in music leaf turners and has for its object to provide improved mechanism for operating the arms which turn the leaves, so that each will act independently of the other.

Another object of the invention is to provide a leaf turner which will possess advantages in points of efficiency and durability, is inexpensive of manufacture and at the same time is simple in construction and operation.

With the above and other objects in view the invention consists in the novel features of construction and the combination and arrangements of parts hereinafter more fully described, pointed out in the claims and shown in the accompanying drawings, in which—

Figure 1 is a front elevation of my invention ready for use, portions of leaf-engaging fingers, hereinafter specifically described, being shown in dotted lines in order to avoid concealing parts which lie behind them. Fig. 2 is a sectional view on the line 2—2 of Fig. 1, one of the sheet turning arms being shown swung out from its support, and Fig. 3 is a sectional view on the line 3—3 of Fig. 1. Fig. 4 is a detail sectional view through one of the leaf-engaging fingers and shows in edge view, the spring clip carried thereby.

Referring more particularly to the drawings 1 indicates the base plate formed of a sheet metal strip of the desired length and breadth and having an enlarged portion 2 formed on one end and disposed at right angles to the body portion. Struck up from the end 2 of the base plate are the flanges 3 arranged in parallel relation and disposed transversely of said base, said flanges being held in position by means of the rods 4, disposed between and secured to each of said flanges. Formed at one end of the flanges 3 are the ears 5 in which is mounted the pivot rod 6, and mounted on this rod 6 are the longitudinal arms 7, said arms having a right angle portion 8 which is bifurcated as shown at 9 and then bent and mounted on the pivot rod 6. Mounted on the rod 6 and disposed in the bifurcated ends 8 are the coil springs 10, having one end secured in the opening 11 in the arms and the other end coiled upon one of the rods 4, said springs being adapted to operate the arms 7.

Pivotally mounted on the rods 4 are the catch members 12 adapted to engage in the elongated recesses 13 formed in the arms 7, said catches being held in place by means of the coil springs 14. An opening 15 is formed in one side of the catch members in which are disposed the releasing rods 16, having one end pivotally mounted on the transverse rod 17 mounted in the flanges 18 which are struck up from the base 1. The other ends of said releasing levers are bent twice at right angles as shown at 19 and then coiled to form the finger pieces 20, said rods 16 being adapted to operate in the elongated slots 21 formed in the flanges 3.

The inner one of the arms 7 is formed with a longitudinal slot 22 and a flat leaf spring 23 is disposed over said slot, said spring having one end pivotally connected to the arm, as indicated at 24. A corresponding flat leaf spring 25 is pivoted to the outer one of the arms 7, the pivot point being correspondingly indicated at 24 in Fig. 1. Preferably, fingers 26 are secured to the respective arms 7 and are disposed at right angles to the arms, said fingers being provided at their relatively free ends with right angularly disposed clips 26′ designed for engagement with the lower edge of the leaves of the music, these clips being preferably employed when, owing to the flimsy nature of the paper, the springs 23 and 25 would be insufficient in connection with their arms 7, to properly turn the leaves when the device is operated.

In the practical use of my improved music leaf turner, the music is placed so that the leaves are engaged by the springs 23 and the arms 7 and preferably also by the fingers 26 and their spring clips 26′. When it is desired to turn the first sheet, the finger piece on the left hand side is pressed downwardly so that the catch member is turned sufficiently to release it from the arm 7, whereupon the arm will swing to the left by the action of the coil spring 10 so as to carry

the first leaf over. The other arm will then be released in the same manner.

It will be understood that any number of the arms 7 may be used by enlarging the base plate and constructing them the same as those already described.

The base plate 1 is provided with a covering 27 having a flange 28 formed on its edges and secured to the base plate by means of the rivets 29, said cover being adapted to serve as a rest for the music.

While I have shown and described the preferred form of my invention it will be obvious that various changes in the details of construction and in the proportions may be resorted to for successfully carrying my invention into practice without sacrificing any of the novel features or departing from the scope thereof, as defined in the appended claims.

Having thus described the invention, I claim:

1. A music leaf turner, embodying a base formed with forwardly projecting upper and lower flanges, a pintle rod carried by said flanges, leaf turning arms mounted to swing on said rod and spring pressed in one direction, tie rods connected to the flanges, catches mounted on said tie rods and adapted to engage the leaf turning arms to hold them relatively stationary with their springs under tension, a transversely extending supporting rod connected to the base, the flanges being formed with slots, and releasing rods pivotally mounted at one end on and suspended by the transverse supporting rod, the releasing rods extending downwardly from the supporting rod and extending through the catches and accommodated in the slots of the flanges.

2. A music leaf turner, including a base formed with upper and lower flanges projecting forwardly therefrom and each formed with slots, the flanges being formed at one end with apertured ears, a pintle rod supported in said ears, leaf turning arms pivotally mounted on said rod and spring pressed in one direction, tie rods secured to the flanges, spring pressed catches mounted on said tie rods and each formed with an opening extending therethrough, a transversely extending supporting rod secured to the base above the flanges, and releasing rods pivotally secured at their upper ends on said supporting rod and extending downwardly through the openings of the catches and mounted for engagement in the slots of the flanges.

3. A music leaf turner, including a base formed with upper and lower flanges projecting forwardly therefrom, the flanges being formed at one end with apertured ears, a pintle rod secured in said ears, leaf turning arms pivotally mounted on said pintle rod and spring pressed in one direction, catches spring pressed into engagement with said arms to hold the arms relatively stationary against the action of their springs, supports upon which said catches are pivotally mounted, a transversely extending supporting rod secured to the base above the flanges, the flanges being formed with slots, and releasing rods pivotally suspended at their upper ends from the supporting rod and extending downwardly therefrom through the slots and operatively connected to the catches.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

ORREN I. SEARLES.

Witnesses:
F. M. STRICKLAND,
O. L. KING.