

F. H. POST.
MUSIC LEAF TURNER.
APPLICATION FILED DEC. 20, 1910.

1,014,173.

Patented Jan. 9, 1912.

2 SHEETS—SHEET 1.

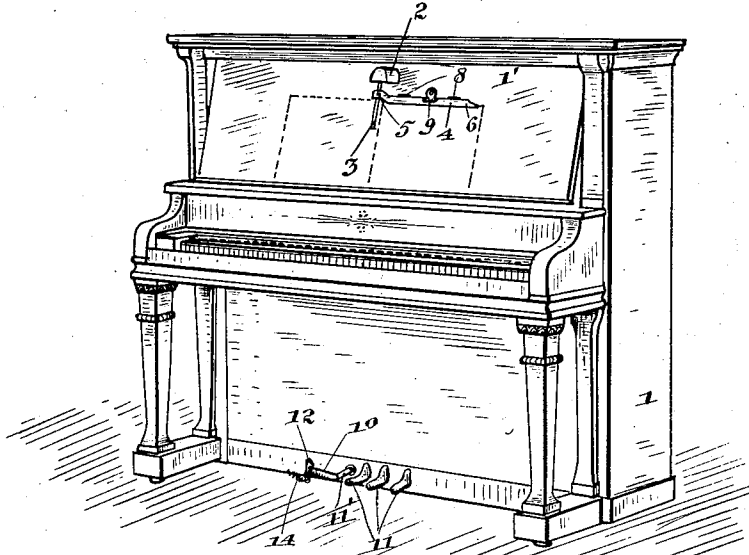


Fig. 1.

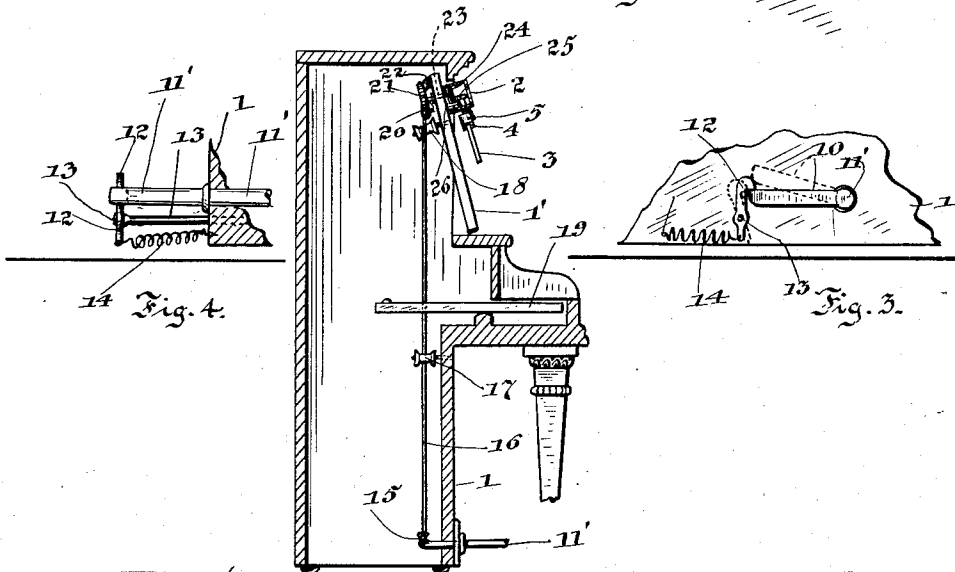


Fig. 4.

Fig. 3.

Fig. 2.

Witnesses
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2 SHEETS—SHEET 2.

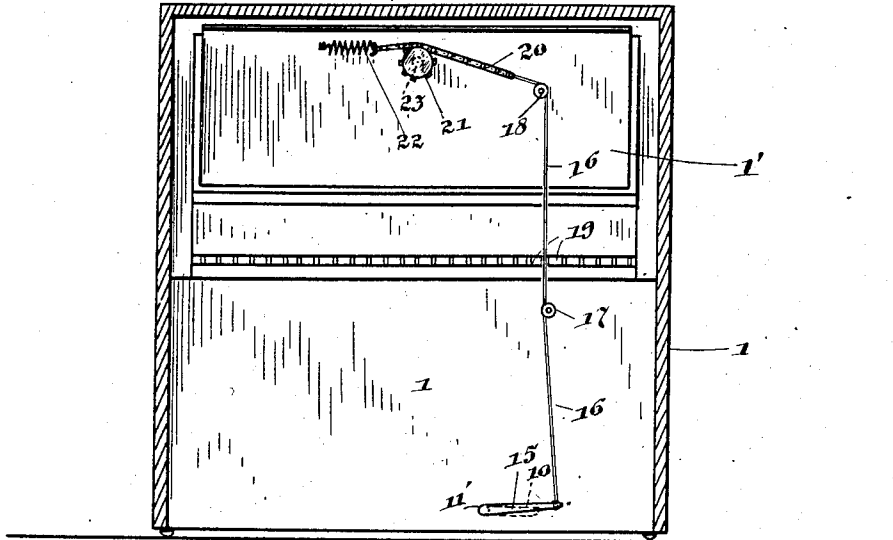


Fig. 5.

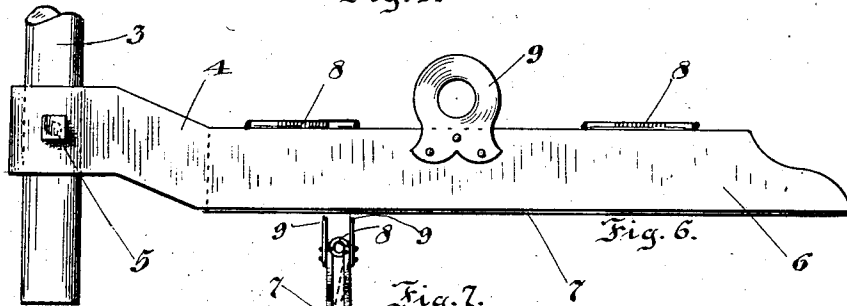


Fig. 6.

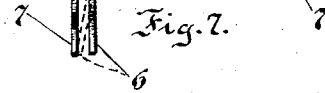


Fig. 7.

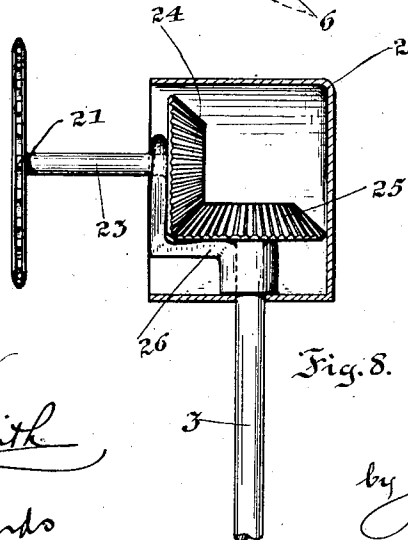


Fig. 8.

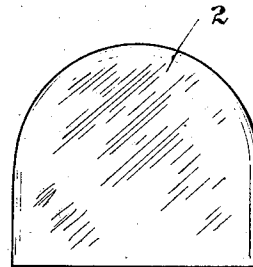


Fig. 9.

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UNITED STATES PATENT OFFICE.

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MUSIC-LEAF TURNER.

1,014,173.

Specification of Letters Patent.

Patented Jan. 9, 1912.

Application filed December 20, 1910. Serial No. 598,338.

To all whom it may concern:

Be it known that I, FRANK H. POST, a citizen of the United States, residing at Webb, county of Clay, and State of Iowa, have invented certain new and useful Improvements in Music-Leaf Turners, of which the following is a specification.

My invention relates to improvements in music leaf turners for pianos and has for its object the production of a device of this character which shall be inexpensive of manufacture and efficient in its operation.

A further object of my invention is to provide a leaf turner which shall be adapted to turn a single leaf of music in either direction.

Other objects will appear hereinafter.

With these objects in view my invention consists in the novel construction and arrangement of parts as will be hereinafter fully described and particularly pointed out in the appended claims.

My invention will be more readily understood by reference to the accompanying drawings forming a part of this specification, and in which,

Figure 1 is a perspective view of a piano embodying my invention, Fig. 2 is a vertical section of a piano case showing the main operative parts of the leaf turner, Fig. 3 is a detail front elevation showing the operating pedal and means for locking the same, Fig. 4 is a transverse section showing a portion of the pedal shaft in elevation, Fig. 5 is a vertical section showing the top and front of the piano in rear elevation, Figs. 6 and 7 are detail views of the music clip used in the device, Fig. 8 is a detail elevation of the geared connection and a section of a housing therefor, and Fig. 9 is a front elevation of said housing.

Referring now to the drawings, 1 designates a piano case and 1' the top front thereof. Centrally arranged adjacent the upper edge of the top front 1' is a gear housing 2 and depending therefrom is an upright shaft 3 to which the music clip 4 is secured by means of the set screw 5. The music clip comprises two hinged members 6 and 7 between which a leaf of music is inserted, said members being hinged together by means of the spring hinges 8. Handles 9 are provided and secured to the hinged members for the purpose of releasing a sheet of music secured between said members. The operating pedal 10 is arranged adjacent

the ordinary pedals 11 and is integral with the pedal shaft 11'. This pedal is shown in detail in Fig. 3, the normal position being as indicated by dotted lines. When the pedal 10 is depressed for turning the music clip 4 the pawl 12 automatically engages the outer end thereof and holds the pedal in this position until said pawl is moved to the dotted line position. The pawl 12 is pivoted to a horizontally disposed shaft 13 which is secured in the piano case as indicated in Fig. 4, the tension helical spring 14 being provided to maintain said pawl in the normal or engaging position. An arm 15 substantially coplanar with the pedal 10 is provided on the inner end of the pedal shaft 11', the same being on the same side of said shaft as said pedal. Attached to the arm 15 and extending upwardly therefrom is a tape 16 which travels over rollers 17 and 18, as clearly shown in Fig. 5, said rollers being so mounted as to direct the tape between the keys 19 in a manner to prevent contact therewith. The chain 20 is adapted to travel over the sprocket wheel 21 and to one end of said chain the tape 16 is attached and to the other the tension helical spring 22, the latter being adapted to return the operative parts of the device to their normal position after the pedal 10 is released. The sprocket wheel 21 is mounted on the inner end of the shaft 23 which is journaled in the top front 1' of the piano case. The outer end of this shaft is provided with a bevel gear 24 which meshes with the bevel gear 25 mounted at the upper end of the upright shaft 3. The upright shaft 3 and the shaft 23 are journaled in the substantially L-shaped member 26 which is contained within the housing 2.

The operation of the device is as follows: The normal position of the music sheet clip 4 is as shown in Fig. 1 and the normal position of the pedal 10 is indicated by dotted lines in Fig. 3. In order to turn the clip 4 one hundred eighty degrees or to the other side of the upright shaft 3 the pedal 10 is depressed to the full line position. When in this position the pawl 12 automatically engages with the pedal and holds the same in the depressed position until the pawl is moved to the dotted line position by means of the toe of the player when the music sheet will return to the normal position.

From the foregoing description it is apparent that a single leaf of music may be

easily turned in either direction at any moment desired by the player.

While I have shown what I deem to be the preferable form of my music leaf turner, I do not wish to be limited thereto as there might be various changes made in the details of construction and arrangement of parts described without departing from the spirit of my invention, and hence I desire to avail myself of such changes and alterations as fairly fall within the scope of the appended claims.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

1. In combination with an upright piano case, a shaft journaled in the top front of said piano adjacent the upper edge thereof, an upright shaft carrying a music clip and geared to said first named shaft at the outer end thereof, a sprocket wheel mounted on the inner end of said first named shaft, a chain traveling over said sprocket, a tension spring connecting one end of said chain with the inner surface of said top front, a tape connected to the other end of said chain, rollers mounted in the piano case on which said tape is adapted to travel, and a pedal shaft journaled in the piano case carrying an interior arm connected to said tape and an exterior pedal, said pedal when depressed causing said music clip to move in one direction and said spring to return said clip to the normal position, substantially as described.

2. In a leaf turner, the combination with a piano case, of a shaft transversely journaled in the top front of the piano case adjacent the top and in the center thereof, an upright shaft having bevel gear connection to said transverse shaft, a music clip arm secured to said upright shaft, a sprocket wheel secured to the inner end of said transverse shaft, a chain traveling over said sprocket wheel, a tension helical spring connecting one end of said chain with the inner surface of said top front, a tape connected to the other end of said chain and passing between the piano keys, rollers mounted in the case over which said tape is passed for preventing the same from contacting with said keys, a pedal shaft journaled in the piano case adjacent the bottom thereof and carrying an interior arm and an exterior pedal, said tape being connected to said interior arm, and automatic means for locking said pedal in its lowermost position, substantially as described.

3. In a leaf turner, the combination with a piano case, of a shaft transversely journaled in the top front of the piano case adjacent the top and in the center thereof, an upright shaft having bevel gear connection to said transverse shaft, a music clip secured to said upright shaft, a sprocket wheel secured to the inner end of said transverse shaft, a chain traveling over said sprocket wheel, a tension helical spring connecting one end of said chain with the inner surface of said top front, a tape connected to the other end of said chain and passing between the piano keys, rollers mounted in the case over which said tape passed, a pedal shaft journaled in the piano case adjacent the bottom thereof and carrying an interior arm and an exterior pedal, said tape being connected to said interior arm, and automatic means for locking said pedal in its lowermost position comprising a pivoted pawl engaging the end of said pedal, substantially as described.

4. In a leaf turner, the combination with a piano case, of a shaft transversely journaled in the top front of the piano case adjacent the top thereof, an upright shaft having bevel gear connection to said transverse shaft, a music clip secured to said upright shaft, a sprocket wheel secured to the inner end of said transverse shaft, a chain traveling over said sprocket wheel, resilient means connecting one end of said chain with the inner surface of said top front, a tape connected to the other end of said chain and passing between the piano keys, rollers mounted in the case over which said tape is passed, a pedal shaft journaled in the piano case adjacent the bottom thereof and carrying an interior arm and an exterior pedal, said tape being connected to said interior arm, and automatic means for locking said pedal in its lowermost position comprising a pivoted pawl engaging the end of said pedal and resilient means for maintaining said pawl in engaging position, said pedal being substantially coplanar with said interior arm and projecting from the same side of said pedal shaft, substantially as described.

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

FRANK H. POST.

Witnesses:

E. A. RUST,
D. S. MARKER.