

E. WIEDEMER.
MUSIC LEAF TURNER.
APPLICATION FILED JAN. 8, 1910.

973,831.

Patented Oct. 25, 1910.

4 SHEETS-SHEET 1.

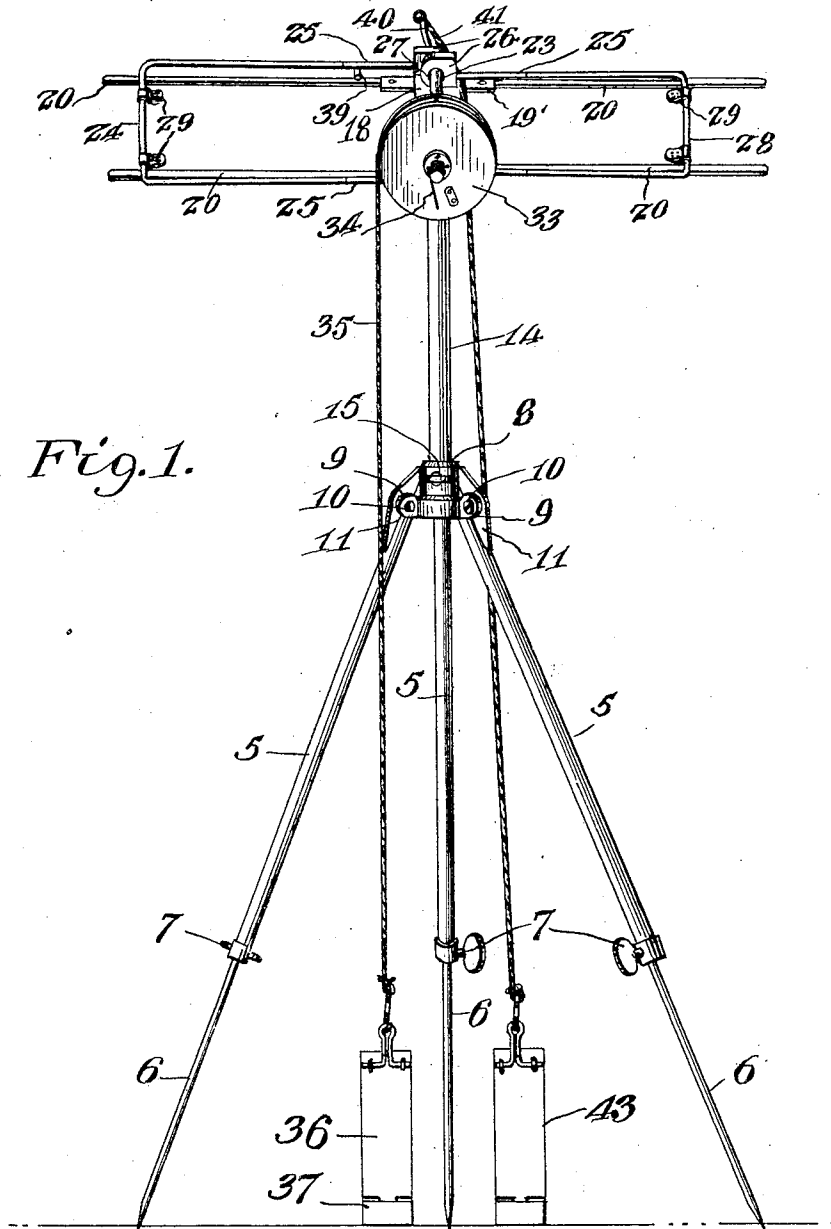


Fig. 1.

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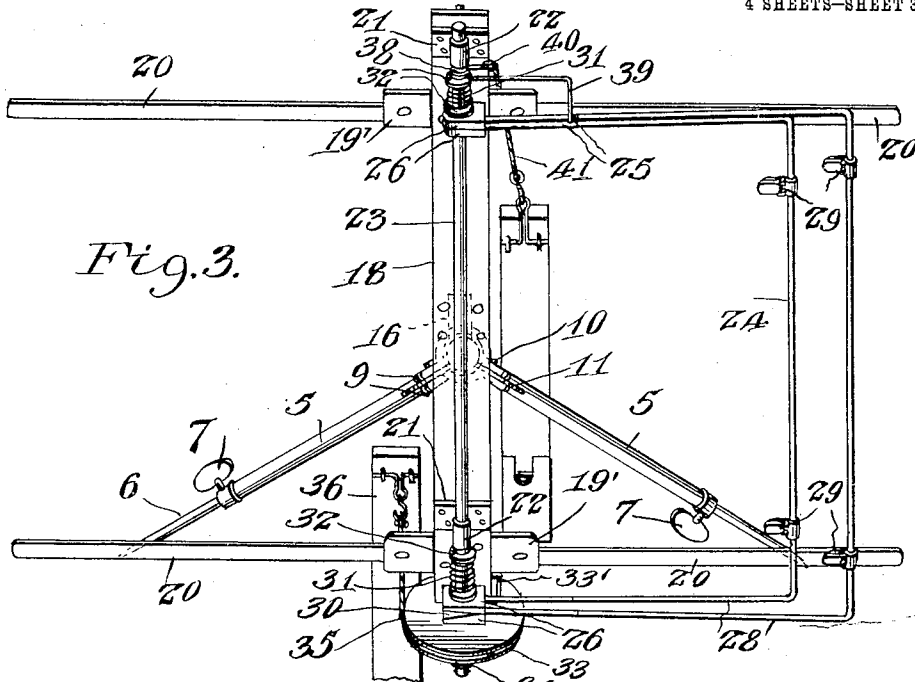
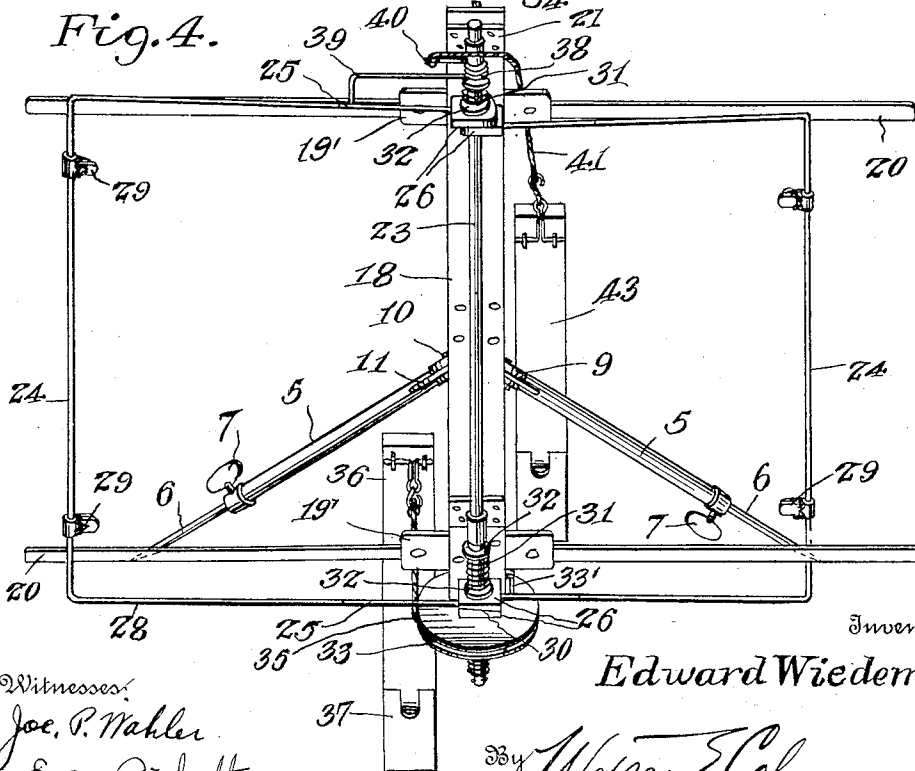


Fig. 4.



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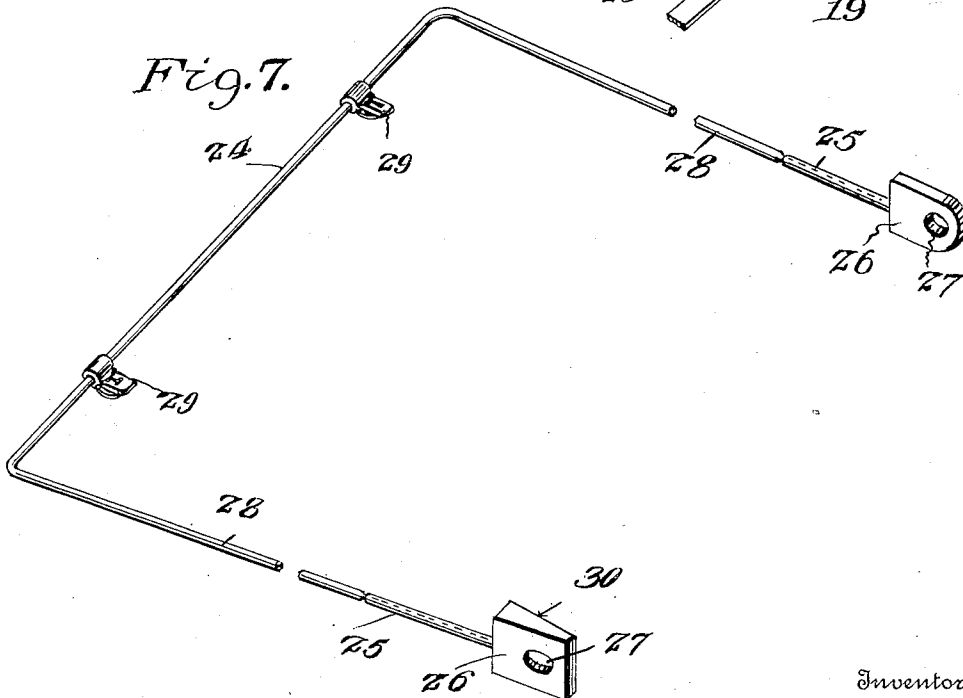
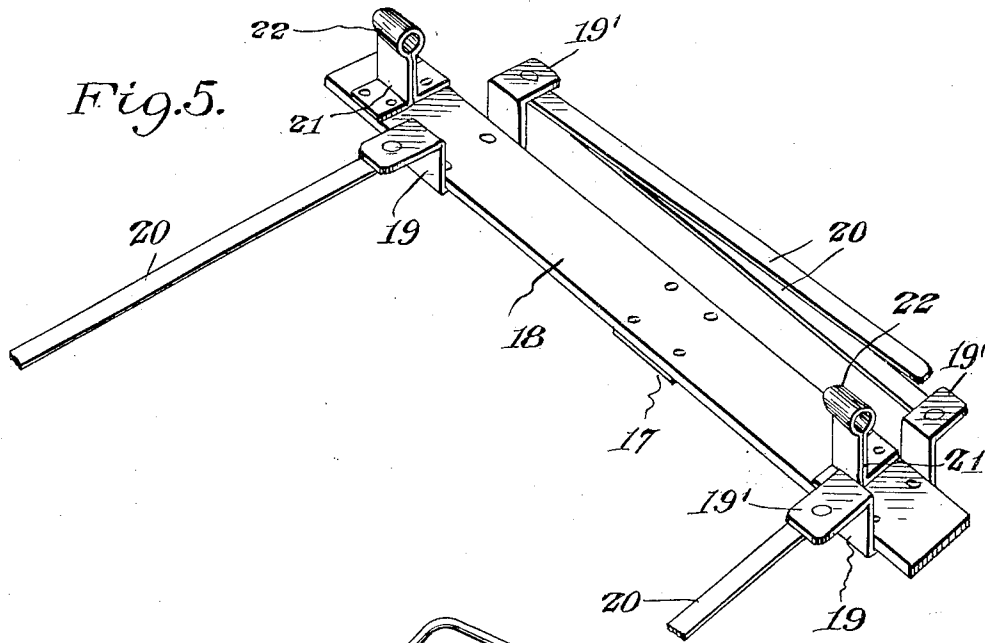
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4 SHEETS-SHEET 4.



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UNITED STATES PATENT OFFICE.

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MUSIC-LEAF TURNER.

973,831.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, EDWARD WIEDEMER, a citizen of the United States, residing at Atlantic City, in the county of Atlantic and State of New Jersey, 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 certain new and useful improvements in music leaf turners and has for its object to provide a device of this character which is light, of simple construction and may be quickly set up into position for use.

Another object is to provide a device for turning the leaves of sheet music without requiring that the musician remove his hands from the instrument, the device being so constructed and arranged as to permit of its positive actuation by the foot of the operator.

A further object of the invention resides in the provision of means for engaging and moving the sheet holding frames and to provide means for moving said frames into position to be successively engaged by the actuating means.

With the above and other objects in view, the invention consists of the novel features of construction and the combination and arrangement of parts hereinafter fully described and claimed, and illustrated in the accompanying drawings, in which—

Figure 1 is a front elevation of a music leaf turner constructed in accordance with the present invention; Fig. 2 is a side elevation thereof; Fig. 3 is a top plan view; Fig. 4 is a similar view showing the position of the parts after one of the leaves has been turned; Fig. 5 is a detail perspective view of the supporting frame; Fig. 6 is a similar view of the tripod head and the frame standard secured therein; and Fig. 7 is a detail perspective view of the sheet carrying frame.

Referring to the drawings 5 indicates the supporting tripod legs which are preferably formed in two telescoping sections, the movable section 6 being secured in its adjusted position by means of the set screw 7. The upper ends of these legs are pivoted between the ears 9 integrally formed with the head 8, the pivot pins 10 extending through said ears and through a web plate 11 formed upon the upper ends of the supporting legs. The head 8 is provided adjacent to its upper

end with a plurality of parallel recesses 12, as clearly shown in Fig. 6. These recesses are adapted to provide seats for the upper inner edge of the web plates 11 and serve to effectively prevent any lateral movement of said web plates which would otherwise occur owing to the loose pivotal mounting of the same between the spaced ears 9. Thus a very rigid and substantial support is provided, the supporting legs, of course, being formed of suitable diameter and the movable leg sections 6 having their lower ends pointed to obviate the possibility of the same moving upon the floor or other surface.

The tripod head 8 is formed with a central opening 13 which is adapted to receive the cylindrical rod 14. This rod is loosely disposed in the head 8 and is adjustable therein, a set screw 15 being carried by the head and threaded into binding engagement upon the rod to secure the same in its adjusted position. At its upper end the rod is formed with the laterally and angularly disposed flattened shank 16. When the device is arranged in operative position, this shank extends rearwardly away from the operator and is adapted to be received in a bracket plate 17 secured to the under side of the central longitudinal bar of the frame 18. This bar 18 carries adjacent to each of its ends the laterally disposed U-shaped plates 19. As clearly shown in Fig. 5, the intermediate portion of the plate 19 is disposed beneath the central frame bar 18 and secured thereto by means of rivets or other suitable fastening devices. The extremities of the plates 19 are disposed at right angles from the vertical side portions thereof, as indicated at 19', and have pivotally secured thereto the inner ends of the arms 20. These arms are adapted to support the sheet carrying frames, as will more clearly hereinafter appear.

Mounted upon the central frame bar 18 adjacent to the opposite ends thereof are the short vertical standards 21, the upper ends of which are formed with the bearing sleeves 22 in which the longitudinally disposed rod 23 is rigidly secured. Upon this rod the sheet carrying frames 24 are adapted to be loosely mounted. Any desired number of these frames may be provided in carrying out my invention, and they each consist of the short tubular sections 25, the inner ends of which are integrally formed with the blocks 26. These blocks are preferably

formed of metal and are provided with the openings 27 through which the rod 23 is loosely disposed. The tubular sections 25 are adapted to receive the reduced extremities of the U-shaped frame sections 28. These frame sections, shown in detail in Fig. 7, are arranged to overlap each other so that the clamps 29 which are carried by the frames adjacent to their opposite ends may be engaged with the edge of the music leaves.

It will be noted that the blocks 26, carried by the inner ends of the tubular frame sections, are of different forms. The blocks which are positioned adjacent to the bottom of the supporting frame are provided with the opposed beveled faces 30. These beveled faces are normally disposed in different planes at an angle to each other and are engaged on that side of the rod 23 on which the frames 24 are disposed, as shown in Fig. 3. Between the lower bearing sleeves 22 and the blocks 26 a coil spring 31 is arranged upon the rod which is adapted to retain these blocks in their proper relative positions. This spring is preferably disposed between the collars 32 slidably mounted upon the rod. A similar spring is arranged upon the upper end of the rod 23 between the blocks 26 and the upper supporting standard 21. A grooved wheel 33 is rotatably mounted upon the lower end of the rod 23 and is yieldably held by a spring 34 loosely coiled upon the rod and secured thereto at one end, the other end of said spring being secured to the wheel. This spring is adapted to return the wheel to its normal position after the same has been rotated, as will be later set forth.

To the inner face of the wheel 33 an arm 33' is secured which extends beyond the periphery of the wheel and has its extremity inwardly disposed for engagement with the lower arms of the sheet carrying frames whereby the same may be turned when the wheel is rotated. A cord or cable 35 is secured in the peripheral groove of this wheel and at its lower end it is attached to one end of a pivoted foot treadle 36. The lower end of the treadle may be pivoted upon a base block 37, or, if desired, the bearing of the ends of the treadle upon the floor surface may act as a fulcrum therefor and the block eliminated. This treadle would preferably be detachably connected to the operating cord for convenience in folding and packing the device.

Upon the upper end of the stationary rod 23 between the spring collar and the bearing sleeve, a heavy wire 38 is loosely coiled. The end of this wire is extended and inwardly bent to form an arm 39 which is disposed within the path of movement of the sheet carrying frames. The opposite end of the wire is extended, as shown at 40, and has connected thereto one end of the

cord or cable 41. The lower end of this cord is connected to a foot treadle 43 similar to the treadle 36.

In the operation of the device, the sheets of music are placed upon the laterally extending frame arms 20 and the clamps 29 carried by the frame 24 are secured to the outer edges of the sheets adjacent to the top and bottom thereof. When it is desired to turn one of the pages of the music, the musician places his foot upon the treadle 36 and upon pressure being brought to bear, the grooved wheel 33 is revolved upon the stationary rod 23, and the outwardly extending arm 33' brought into engagement with the lowermost sheet carrying frame 24. Thus this frame will be lifted and swung over upon the oppositely extending frame arms 20, carrying the sheet of music with it. When this action takes place, the inwardly extending extremity of the wire 38 upon the upper end of the rod 23 is engaged by the frame and the crank end 40 thereof is moved upwardly, drawing the cable or rope 41 through the opening in the frame bar 18 and raising the other foot treadle 43. After the first leaf has been turned, the spring 34 which has been placed under tension by the initial rotative movement of the wheel, returns said wheel to its normal position. When the sheet carrying frame is turned, the beveled face of the block at the lower end thereof is disposed parallel to the beveled face of the next adjacent block, whereupon the spring 31 will force the frame which carries the next sheet of music downwardly upon the rod 23, so that the same may be engaged by the arm 33' upon the next operation of the foot treadle.

When it is no longer desired to employ the device, the laterally extended pivoted arms 20 may be swung inwardly upon each other parallel with the central frame bar 18, and the outer telescoping sections of the sheet carrying frames removed. The standard 14 may then be readily removed from the tripod head, and the legs of the tripod folded after removing the movable sections 6. The frame 17 may then be removed from the upper flattened end of the supporting rod 14, and the various parts of the device compactly arranged together and packed in a suitable case for transportation.

From the foregoing it is believed that the operation and many advantages of my invention will be readily understood without necessitating a more extended description. It is very positive in its action, and relieves the musician of the necessity of constantly removing his hands from the instrument which he is playing to turn the sheets of music.

The construction of the device is simple, its manufacture inexpensive and it is extremely durable and highly efficient in use.

While I have shown and described what I believe to be the preferable form of the invention, it will be understood that various minor modifications may be resorted to without departing from the spirit or sacrificing any of the advantages thereof.

Having thus described the invention what is claimed is:

10 A music leaf turner comprising an adjustable standard, an angularly positioned frame removably disposed upon the upper end of said standard, said frame consisting of a central bar and a plurality of laterally extending arms pivotally supported upon
15 opposite sides thereof, a plurality of blocks loosely mounted upon said rod adjacent to its ends, a sheet carrying frame adjustably connected to each of said blocks, the blocks on the lower end of said rod having their
- 20 opposite faces beveled, said beveled faces being normally disposed in different planes, a

grooved wheel loosely mounted on the lower end of said rod, an operating cable secured thereto at one end and having its other end attached to a foot treadle, a spring supported upon said rod having one end secured to said wheel and adapted to return the same to its normal position, means carried by said wheel engaging with said sheet carrying frames to turn the same, a laterally and inwardly extending arm loosely mounted upon the upper end of said rod and operating means connected to said arm to actuate the same to simultaneously return all of said sheet carrying frames to their normal positions.

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

EDWARD WIEDEMER.

Witnesses:

ELLWOOD BUCKLEY,
V. C. BRÜCKMANN.