

B. M. ADAMS.

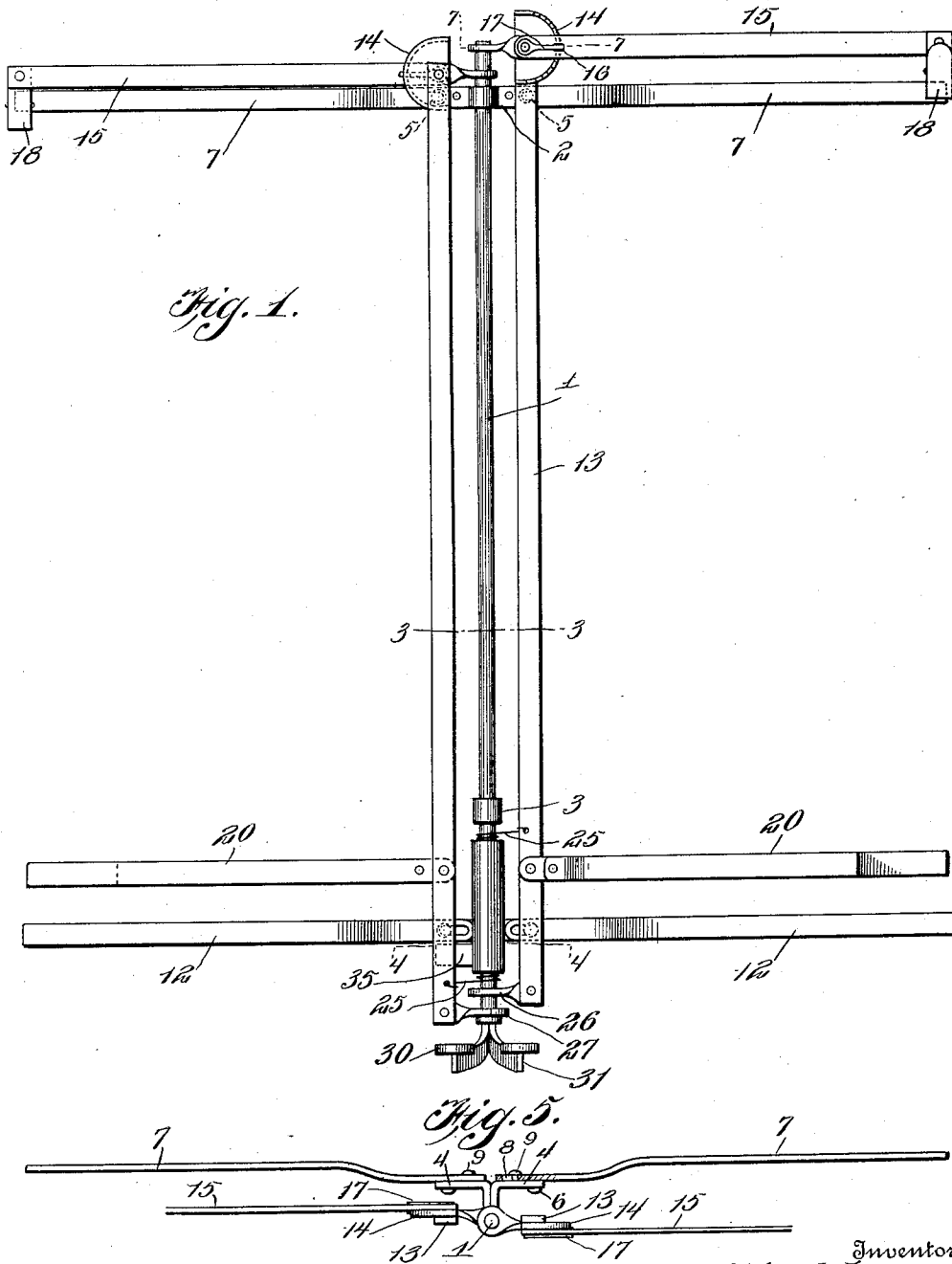
LEAF TURNER.

APPLICATION FILED JAN. 10, 1911.

Patented Mar. 26, 1912.

3 SHEETS-SHEET 1.

1,021,288.



Witnesses

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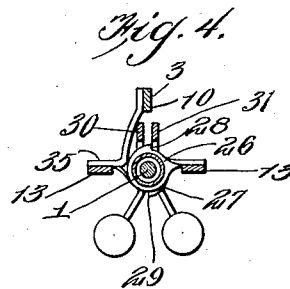
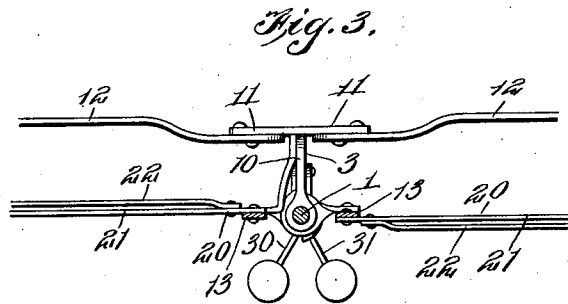
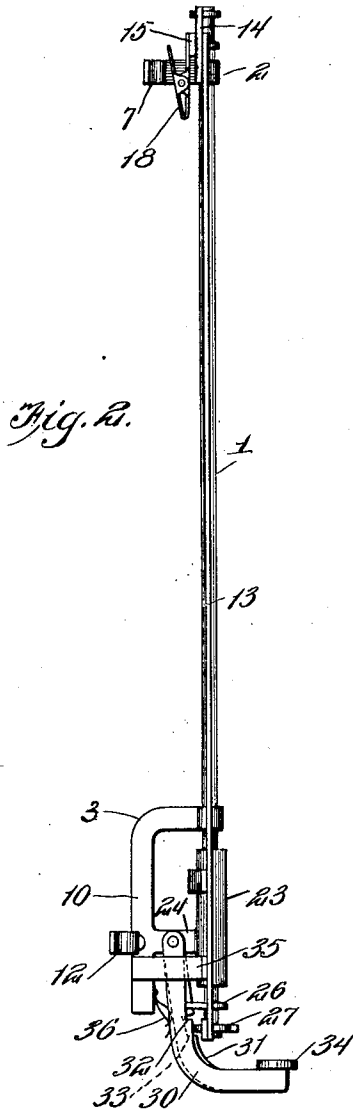
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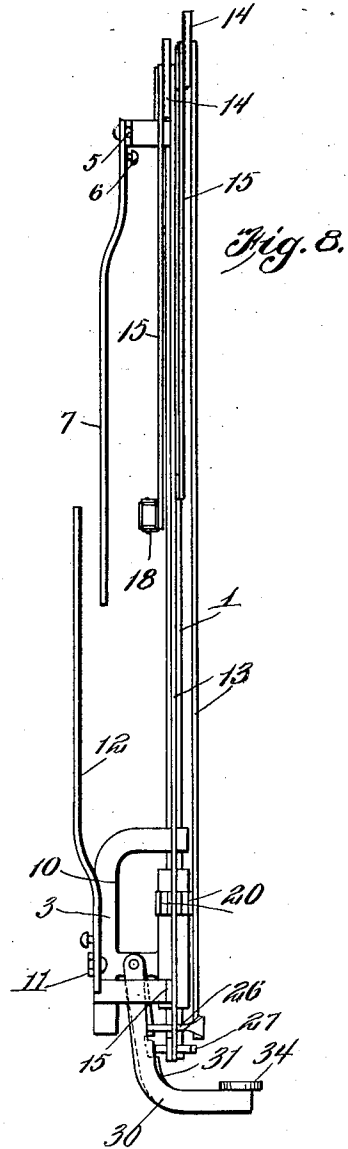
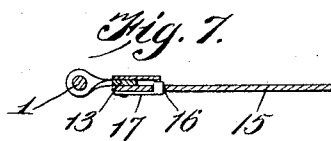
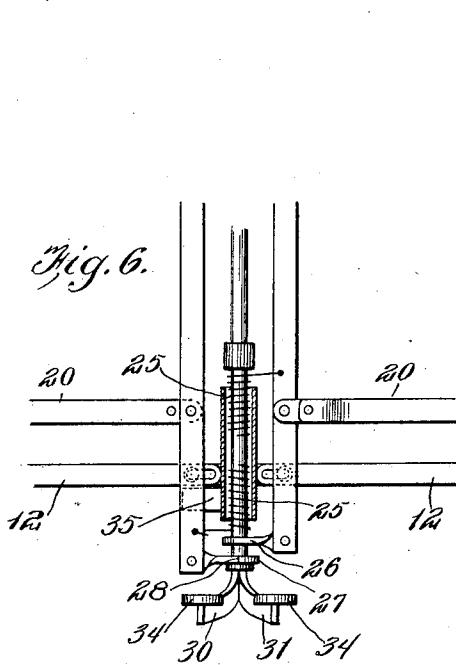
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UNITED STATES PATENT OFFICE.

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LEAF-TURNER.

1,021,288.

Specification of Letters Patent.

Patented Mar. 26, 1912.

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To all whom it may concern:

Be it known that I, BERT M. ADAMS, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented new and useful Improvements in Leaf-Turners, of which the following is a specification.

This invention relates to music leaf turners and one of the objects of the invention is the provision of a device of this character which may be folded into compact form for transportation.

A further object of the invention is the provision of a leaf turner having folding supporting fingers and a single shaft upon which a plurality of turning arms are connected and independently controlled.

A still further object of the invention is the provision of a device of this character having a gravitating sheet support which is adapted to be frequently lengthened with the lower end of the sheet so as to hold the sheet straight irrespective of its size.

Further objects of the invention will appear as the following specific description is read in connection with the accompanying drawings, which form a part of the application, and in which:—

Figure 1 is a front elevation of the device. Fig. 2 is a side elevation of the device. Fig. 3 is a horizontal section taken on the line 3—3 of Fig. 1. Fig. 4 is a detailed horizontal section taken on the line 4—4 of Fig. 1. Fig. 5 is a detailed top plan view. Fig. 6 is a detailed front elevation, partly in section. Fig. 7 is a detailed horizontal section on the line 7—7 of Fig. 1. Fig. 8 is a side elevation showing the device folded.

Referring more particularly to the drawings, 1 represents a shaft which has secured to opposite ends thereof brackets 2 and 3. The bracket 2 is provided with oppositely extending ends 4 having slots 5 therein which are adapted to receive screws or headed studs 6 carried upon the supporting arms 7. These supporting arms are provided with slots 8 which engage the screws or headed studs 9 in the ends 4 so that the arms 7 may be folded parallel with the shaft 1 or extended and held at right angles thereto when the headed studs 6 are positioned in the slots 5. The bracket 3 comprises a substantially L-shaped member 10 having one end provided with laterally extending fingers 11 which are connected to the supporting arms 12 in the manner described for the

arms 7. The supporting arms 7 and 12 hold the device in proper position upon the music rack and may be folded as described, so as to make the device more compact for transportation.

Journaled upon the ends of the shaft 1, which projects beyond the brackets 2 and 3, are leaf turning bars 13 which carry at one end segmental ratchet plates 14 and sheet supporting arms 15. These arms 15 are pivoted on the bars in such a manner as to travel over the segmental plates and are slotted, as at 16, to permit the passage of a spring dog 17 which engages the ratchet and holds the arm 15 in adjusted position. The outer end of each arm carries a clamping member 18 which is adapted to grip the upper end of the sheet and support the same. One of these clamps may be provided at each end with an arm, but it is found in practice that one is sufficient for all purposes.

Adjacent the lower end of the bars 13 there is pivotally mounted on each a sheet holding arm 20 which is composed of two parts 21 and 22, the former constituting an anvil and the latter being constructed of spring material and adapted to clamp the sheet against the anvil. These arms have sufficient weight to hold the sheet in smooth position and prevent wrinkling thereof so as to obscure the notes.

Surrounding the shaft 1 and separated therefrom is a protecting tube 23 which is connected to the bracket 3 by a standard 24, and in this tube and surrounding the shaft are spiral springs 25 which have their inner ends connected to the shaft and their outer ends connected to the respective sheet bars 13. These springs normally bend to throw the sheet bars and their arms toward the left and, in order to prevent this movement until it is desired to turn the sheet, journaling ears 26 and 27 are provided having notches 28 and 29 which are adapted to engage trip levers 30 and 31 respectively. The tripping lever 30 is provided with a cut away portion 32 to permit the passage of the notched portion of the pivoting ear 26, while the tripping lever 31 is provided with a notch 33 to permit the passage of the notched portion of the pivoting ear 27. The outer ends of the levers are provided with operating buttons 34 and the bars 13 are limited in their movement by the spring by a stop 35 carried by the bracket 3. The

levers 30 and 31 are thrown into operative engaging position by suitable springs 36 so that when the bars 13 are thrown over to operative position they are automatically caught in this position by the levers. It will be clearly understood that as many of these bars as are needed may be journaled upon the shaft 1 in the manner described.

In the operation of the device the arms are folded outwardly at right angles to the shaft 1 and the device placed in position upon the music rack. The sheet bars are then turned over to the right until the levers have caught behind the notches in the pivoting ears and the sheet of music inserted with its bottom marginal portion in between the members 21 and 22 of the arms 20. The sheet is then suspended and the arm 15 is moved as so to properly position the clamping member at its end for engagement with the upper marginal edge of the sheet. As the arms 20 are freely pivoted, the weight thereof will keep the sheet smooth at all times.

Having thus described the invention, what I claim as new is:—

1. In a device of the class described, the combination with a shaft, of a plurality of leaf turners mounted thereon, a pivoted sheet holding arm carried by each turner, means to hold said arm in position to engage variable sized sheets, and a pivoting sheet holding device carried by each turner.

2. In a device of the class described, the

combination with a shaft, of a sheet turning member mounted thereon, a ratchet segment carried by said member, a sheet holding arm adapted to operate over said segment, means carried by said arm to frictionally engage the segment and hold the arm in operative position, and a sheet clamp on the outer end of said arm.

3. In a device of the class described, the combination with a shaft, of a leaf turning bar pivotally mounted thereon, a sheet supporting arm pivotally mounted upon the bar, means to adjustably hold said sheet supporting arm in operative position, an arm pivotally mounted upon the bar, and a sheet clamping finger carried by said arm.

4. In a music leaf turner, a shaft, a leaf turning bar pivotally mounted thereon, means to frictionally engage a sheet of music at the bottom thereof, an arm pivoted for horizontal movement on the shaft, said arm being movable in a vertical plane and having a slot, a segment on the bar, and means carried by the arm and passed through the slot therein for engaging the segment to hold the arm in adjusted position.

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

BERT M. ADAMS.

Witnesses:

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WILLIAM TAYLOR.