940,219.

E. E. VAN DINE.

MUSIC TURNER.

APPLICATION FILED SEPT. 30, 1908.

Patented Nov. 16, 1909.

2 SHEETS—SHEET 1.

Fig. 1.

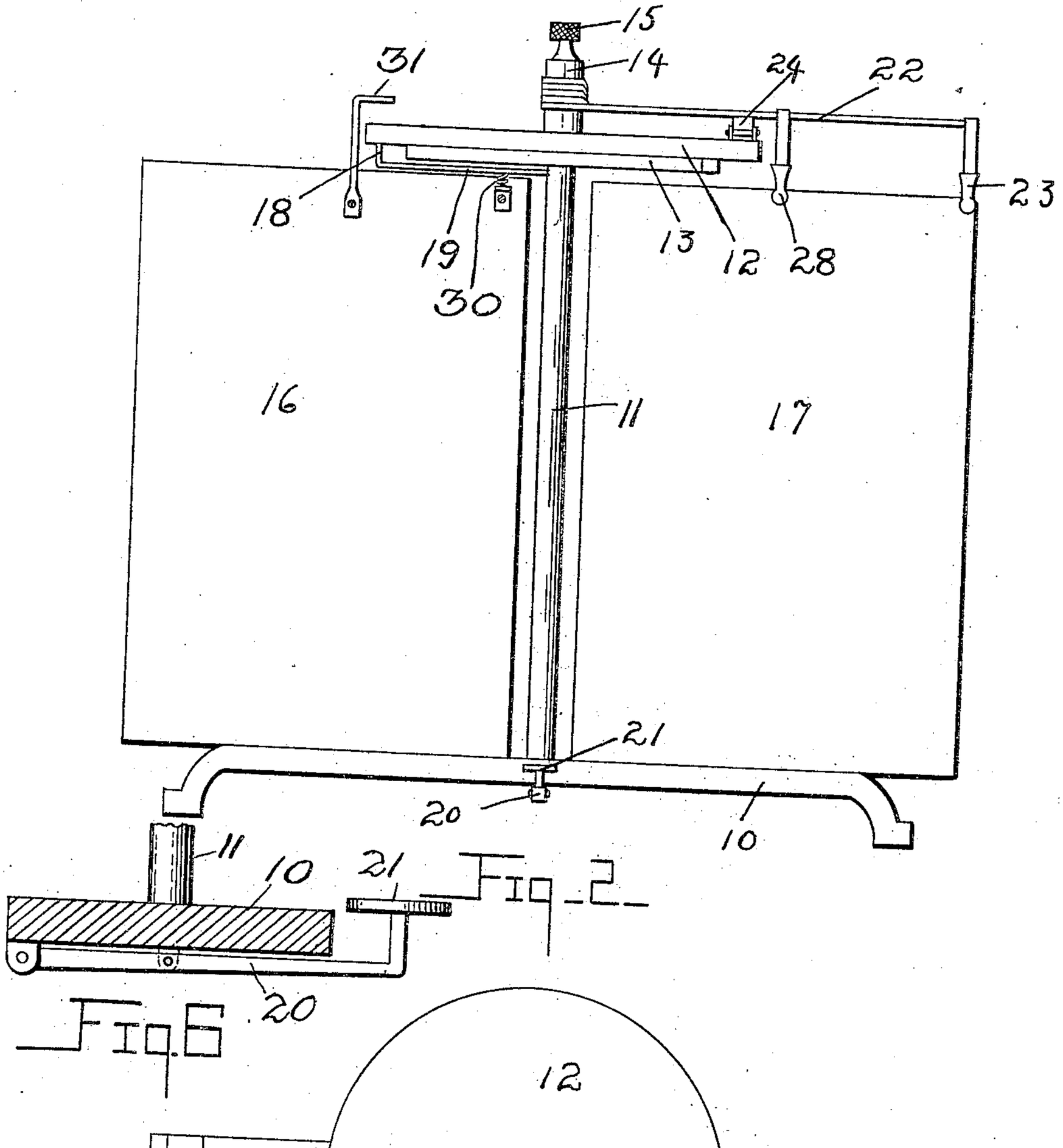
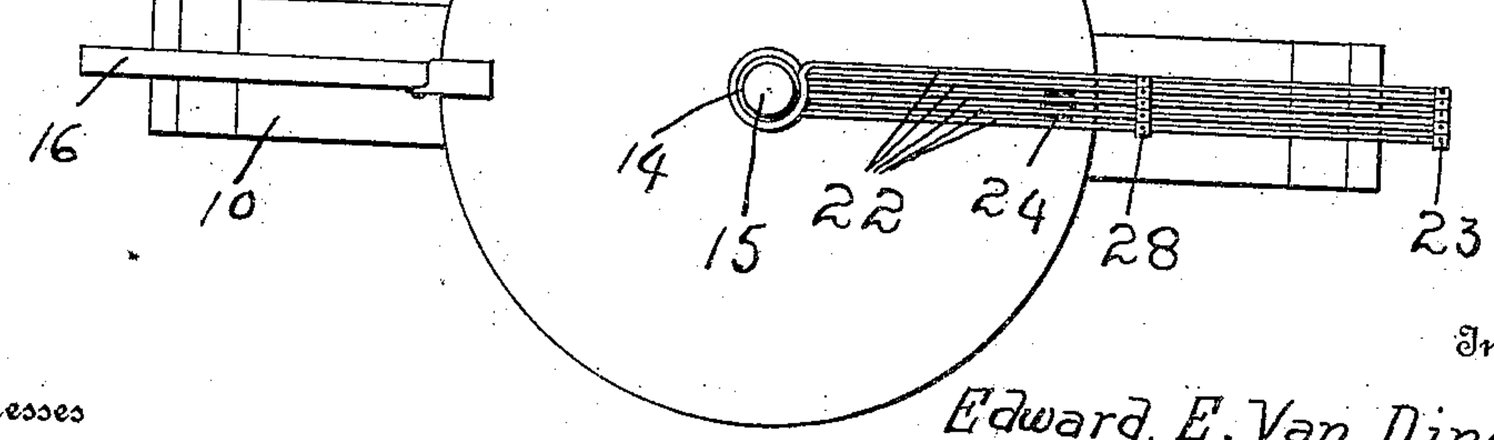


Fig. 2.

Fig. 6.



Witnesses

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2 SHEETS—SHEET 2.

Fig. 4.

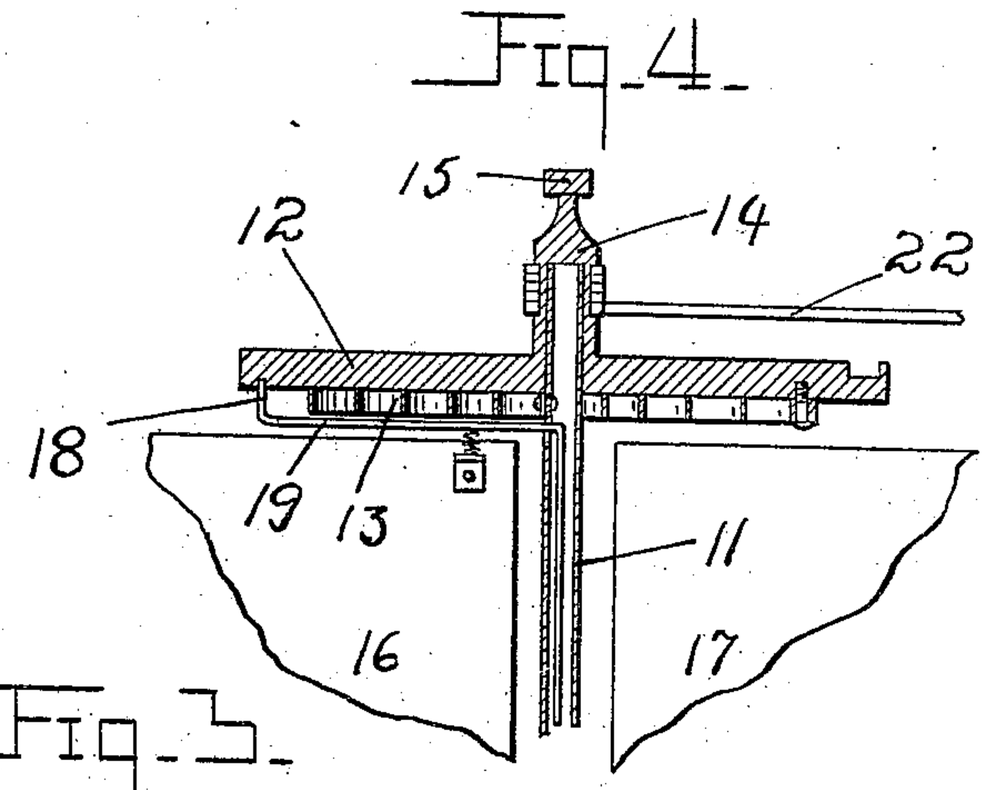

Fig. 5.

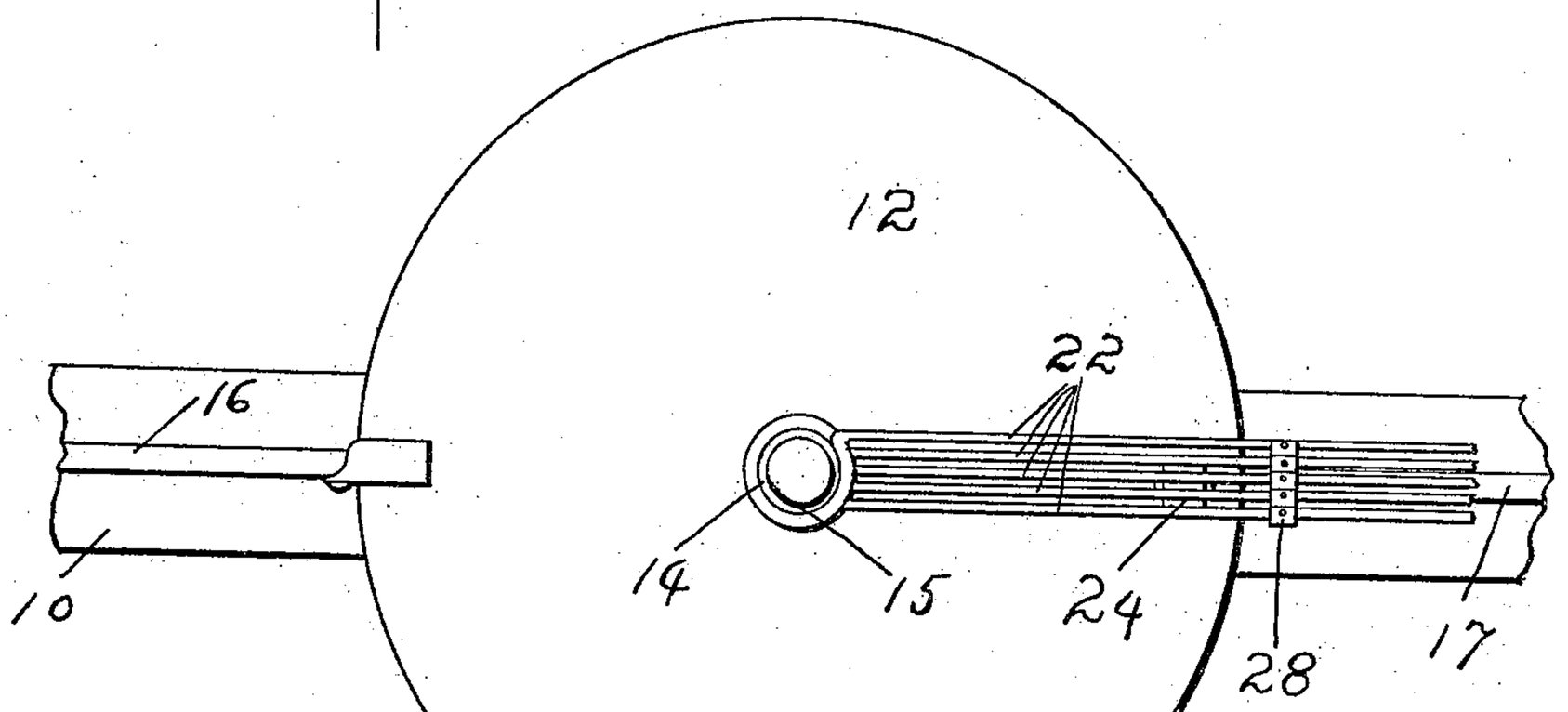

Fig. 5.

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UNITED STATES PATENT OFFICE.

EDWARD E. VAN DINE, OF ELMIRA, NEW YORK.

MUSIC-TURNER.

940,219. Specification of Letters Patent. Patented Nov. 16, 1909.

Application filed September 30, 1908. Serial No. 455,431.

To all whom it may concern:

Be it known that I, EDWARD E. VAN DINE, a citizen of the United States, residing at Elmira, in the county of Chemung and State of New York, have invented certain new and useful Improvements in Music-Turners, of which the following is a specification.

This invention relates to music sheet holders and refers especially to music leaf turners.

An object of this invention is to construct a device for holding sheets of music which will turn the same very quickly at the will of the operator for the purpose of facilitating the reading of the music by obviating the necessity of employing the hands for the manipulation of the sheets thereof.

Another object of this invention is the provision of means for accomplishing the above enumerated results which are simple, easy and positive of action, producing a mechanism which will be more adaptable to the public use than any device heretofore devised.

Other objects and advantages will be apparent from the following description, and it will be understood that changes in the specific structure shown and described may be made within the scope of the claims without departing from the spirit of the invention.

In the drawings forming a portion of this specification, and in which like numerals of reference indicate similar parts, in the several views, Figure 1 is a front elevation of the complete device, Fig. 2 is a top plan view of the same, Fig. 3 is a detailed view, an enlarged view of the operating disk and arms actuated thereby, Fig. 4 is a transverse section through the disk, showing the position of the operating spring therefor, Fig. 5 is a detailed view of the pawl disposed upon the disk for engagement with the operating arms, Fig. 6 is a detail view of the lever and connected parts in side elevation.

Referring now to the drawings, 10 designates a base which intermediately supports a vertically disposed tube 11 which loosely carries upon its upper extremity a disk 12. The disk 12 is secured to one end of a coil spring 13 which surrounds the tube 11 directly beneath the disk 12 and is rigidly engaged thereto at its opposite extremity. The disk 12 carries a sleeve 14 upon its upper face which engages about the upper extremity of the tube 11 and upon which is positioned a thumb piece 15 by means of which the operator is enabled to wind the spring 13. Between the base 10 and the opposite sides of the tube 11 are backs 16 and 17 against which sheets of music are adapted to rest and which also serve as a support for a trip lever 18 which is disposed upon the upper edge of the back 16 immediately beneath the disk 12. The trip lever 18 is provided with a depending rod 19 which extends downwardly through the tube 11 where it is pivotally secured to the middle of a lever 20 hingedly supported at its rear extremity to the base 10 and which extends forwardly where a disk attachment 21 is positioned for the purpose of actuating said lever. The rod 19 is provided with a spring 30 beneath the lower face thereof for the purpose of tensionally holding the same in an upward position, which spring 30 is carried upon the upper edge of the back 16 directly beneath the rod 19 and serves the purpose of normally holding the same in an upward position to lock the disk 12 at each complete revolution.

Disposed about the sleeve 14 are a number of operating arms 22 which extend from the sleeve 14 and carry at their outer extremities depending clamps 23 for the purpose of engaging the upper edges of sheets of music disposed against the backs 16 and 17. The disk 12 is apertured near the outer edge thereof in which is pivotally disposed an automatic catch 24 which is adapted to engage the foremost arm 22 when the trip lever 18 is engaged against the disk 12. The engaging member 24 comprises a small portion of metal which has a rectangular aperture in its upper edge to form shoulders therein for the reception of the arms 22 and it is also provided with a beveled forward upper edge 25 to allow the member to pass beneath the arms 22 which are disposed backwardly on the device and to prevent the engagement of the same in the member 24. A spring 26 is mounted about the pivot pin 27 for engagement with the member 24 of the disk 12 for the purpose of normally and tensionally holding the same in an upward position.

It will be noted from the top plan view of the device, that the arms 22 are flattened at their inner extremities and are curved centrally proportionately to their relative

positions from the sleeve 14. With this construction the arms 22 are disposed in parallel and a second clasp 28 may be employed intermediately disposed upon the arms 22 for engagement with the opposite sides of the sheets of music. The arms 22 are held in their normal inoperative position by the weight of the leaves attached thereto together with their own relative weights.

The operation of the device is as follows:—Sheets of music are positioned in the clamps 23 and 28 and are disposed upon one another upon the back 17 so that when the operator desires to read the opposite sides of the sheets, it is necessary only to depress the member 21 which draws the lever 20 downwardly and releases the trip 18 through the connecting rod 19 and allows the spring 13 to rotate the disk half a revolution when the engaging member 24 will be stopped by the bracket 31. As the engaging member 24 is released and allowed free circular motion it passes forwardly beneath the arms 22 allowing the beveled portion 25 only to contact with the lower faces of the arms 22 until the last or foremost arm is reached when the beveled face portion 25 is released and allowed upward movement under the tension of the spring 26 to engage the shoulder formed in the upper edge thereof about the foremost arm 22.

What is claimed is:—

1. In a music leaf turner the combination of a base, backs upwardly extended from said base, a tube upwardly extended from said base between said backs, a disk pivotally secured about the upper extremity of said tube, a spring carried by said tube and extended about the same connected to said disk, a plurality of arms pivotally and concentrically disposed above said disk, a spring disposed against said disk, an engagement member disposed upon the upper face of said disk to carry said spring for abutment with said arms for the purpose of actuating said arms separately upon the rotation of said disk, a rod disposed through said tube for locking engagement with said disk, a spring carried by one of said backs engaged with said rod to normally hold the same in engagement with said disk and a lever pivotally disposed upon said base and connected to said rod for depressing the same at times.

2. In a music leaf turner the combination with a base and backs upwardly disposed on said base, of a tube carried by said base positioned between said backs, a disk pivotally disposed about the upper extremity of said tube, a spring disposed between said tube and said disk for rotating said disk, a plurality of radially extended arms disposed on said tube above said disk, an engagement member carried by said disk for locking engagement with the foremost of said arms to rotate the same upon the actuation of said disk, a lever carried by said base, a rod disposed through said tube having locking engagement with said disk and connected to said lever for releasing said disk and a stop upwardly extended from one of said backs for preventing the complete rotation of said arms.

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

EDWARD E. VAN DINE.

Witnesses:

J. Q. Ingham,

Blanche E. MacDonald.