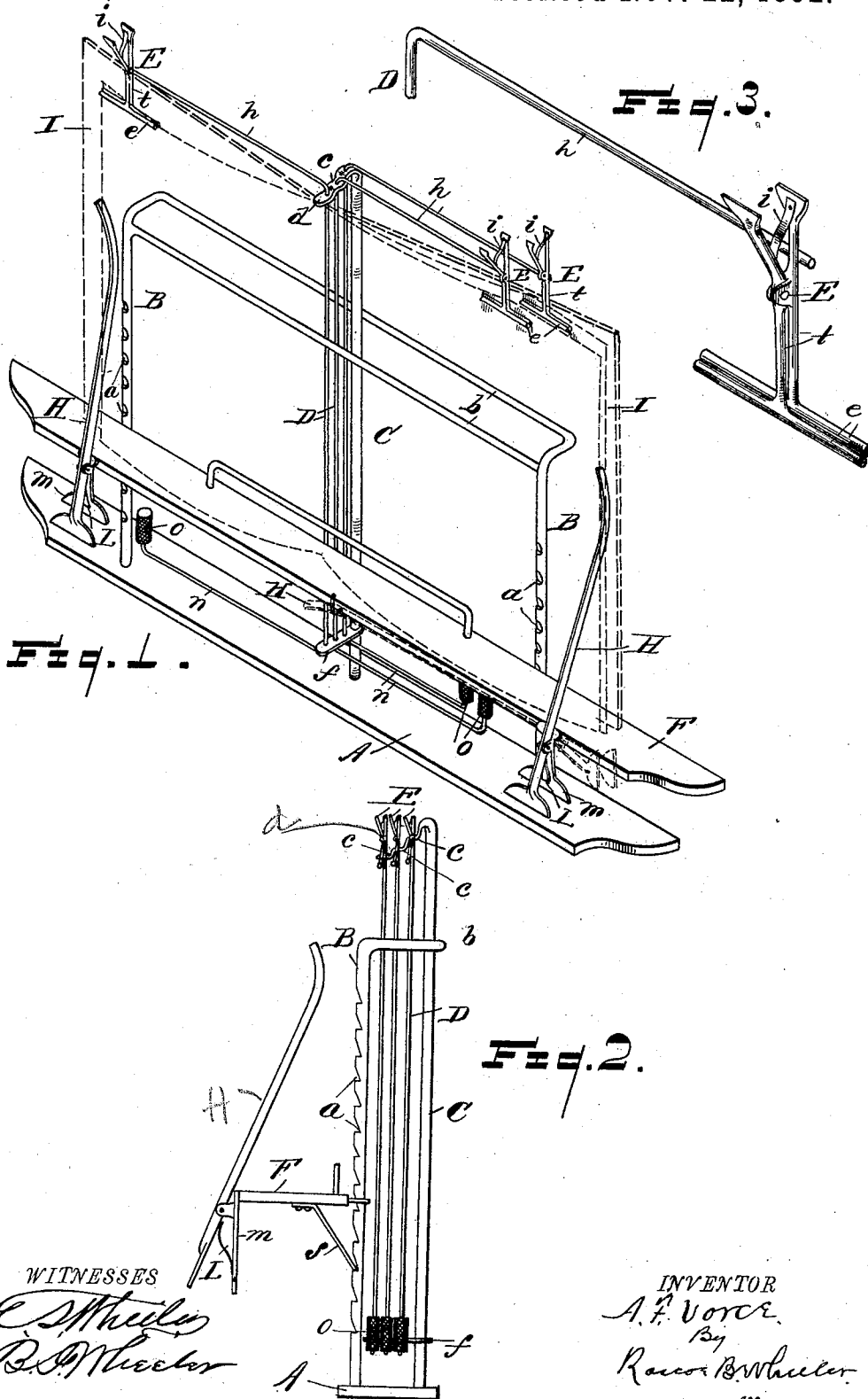


(No Model.)

A. F. VORCE.
MUSIC LEAF TURNER.

No. 486,573.

Patented Nov. 22, 1892.



WITNESSES
E. Wheeler
R. B. Wheeler

INVENTOR
A. F. Vorce
By
Raice B. Wheeler
Attorney.

UNITED STATES PATENT OFFICE.

ALBERT F. VORCE, OF FRANKFORT, MICHIGAN.

MUSIC-LEAF TURNER.

SPECIFICATION forming part of Letters Patent No. 486,573, dated November 22, 1892.

Application filed May 22, 1891. Serial No. 393,787. (No model.)

To all whom it may concern:

Be it known that I, ALBERT F. VORCE, a citizen of the United States, residing at Frankfort, in the county of Benzie and State of Michigan, have invented certain new and useful Improvements in Music-Leaf Turners; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in music-leaf turners; and it consists in a certain construction and arrangement of parts, as hereinafter fully set forth, the essential features of which are pointed out particularly in the claims.

The object of the invention is to produce a device for turning the leaves of music, either in sheet or book form, that is simple and effective and in which the arrangement is such that when executing a piece of music the operator may quickly and easily turn the leaves without interruption to the piece being played. This object is attained by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of my improved device, showing by dotted lines a book of music mounted thereon. Fig. 2 is an end elevation of Fig. 1. Fig. 3 is an enlarged perspective view of one of the swinging arms and the clamp carried at its free end.

Referring to the letters of reference, A indicates the base, which is made, preferably, of wood, and in which is secured the lower ends of the vertical end rods B of the supporting-frame, the upper ends of said rods being connected by the parallel horizontal bars b.

C designates the central vertical rod of the frame, whose lower end is secured in the base A and which extends upward between the horizontal bars b. The upper end of said rod is provided with the forwardly-extending arm d, made declinatory through a series of graduations c, the lower end of the rod C being provided with the horizontal bar or plate

f, rigidly secured thereto at some distance above the base A and which stands in a vertical line with the arm d.

D designates a series of vertical rods that pass between the bars b of the frame and are journaled in their upper and lower ends in the arm d and plate f, respectively. The upper ends of said rods are provided with the horizontal swinging arms h, carrying at their ends the spring-clamps E, composed of the pivoted fingers t, having at one end the horizontal jaws e, adapted to engage the leaves of the music and the spring i between their opposite ends, by the force of which said jaws are held in contact, as clearly shown in Fig. 3. The lower ends of said rods D are provided with the bent right-angled portions n, carrying at their outer ends the knobs o, by means of which said rods are actuated to swing the arms h. It will be seen that the right-angled portions n of the rods D are of decreasing lengths, whereby their knobs o do not stand in line, which renders them easily accessible and obviates turning two at a time, and it will also be seen that the upper ends of the rods D are journaled in the graduated declinations c of the arm d, whereby the arms h of said rods are caused to stand one above the other, permitting them to swing independently.

F designates an adjustable rest that supports the music-book or sheet-music. Said rest is slidingly mounted on the vertical end rods of the frame and is provided at each end with a leg or brace s, adapted to engage in the notches a in said rods and support said rest at any desired elevation, so as to bring the upper edges of the leaves of the music within reach of the jaws of the clamps E.

Mounted on the rest F, near each end thereof, are the spring-pressure arms H, the upper ends of which are adapted to bear against the margin of the cover or against the leaves of the music not being played to retain the music in place, said arms being held in contact with the book or music by the pressure of the springs L, located between their lower ends and the plates m, to which they are pivoted, said plates being in turn pivoted to the rest F, whereby when not in use said arms

may be swung down to a horizontal position, as shown by the dotted lines H' at the right of Fig. 1.

In employing this improved leaf-turner the book or sheet-music is placed upon the rest F, as shown by dotted lines I. The upper edges of the leaves containing the music to be played are placed consecutively between the jaws of the clamps E of the swinging arms *h* in successive order, said arms and clamps so arranged all standing to the right. In playing the music when it is desired to turn a leaf the corresponding knob *o* is swung to the left, which actuates the rod D, swinging to the left the arm *h* and turning the leaf, which is securely held between the jaws of the clamp E, as shown at the left of Fig. 1, the succeeding leaves being turned in the same manner, by which means the leaves of the music may be readily and quickly turned, so as not to interfere with the execution of the music.

While in the drawings I have shown but three swinging arms *h* and corresponding rods D, I do not limit myself to the number used, and in practice will probably use six or more of said arms and rods with their right-angled base portions and actuating-knobs.

Having thus fully set forth my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a music-leaf turner, the combination

of the supporting-frame having the central vertical rod provided at its upper end with the horizontally-extending graduated arm, a series of vertical rods journaled in the graduations of said arm, said rods having horizontal swinging arms carrying a clamp at their free ends, and means for actuating said rods and arms, substantially as specified. 35

2. In a music-leaf turner, the combination of the frame having a central vertical support provided at its upper end with a horizontally-extending graduated arm and at its lower end with the horizontally-extending plate in a vertical line with said arm, the series of leaf-actuating angle-rods journaled in the graduations of said arm and in said plate and carrying a clamp at their upper horizontal ends, substantially as specified. 40 45

3. In a device for the purpose set forth, the combination of the supporting-frame, the rest slidably mounted on said frame, the depending plates pivoted to the ends of said rest, the pressure-arms pivoted to said plates, and the spring interposed between said arms and plates, substantially as specified. 50 55

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

ALBERT F. VORCE.

Witnesses:

E. S. WHEELER,
O. B. BAENZIGER.