W. T. MOORE.

Music-Leaf Turner.

No. 217,473. Patented July 15, 1879.

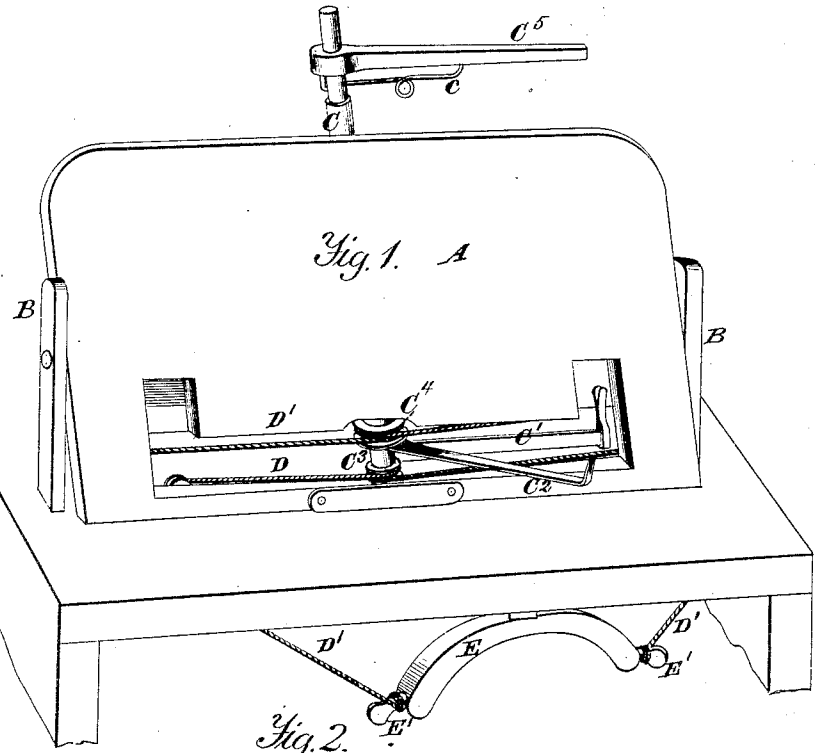


Fig. 1.

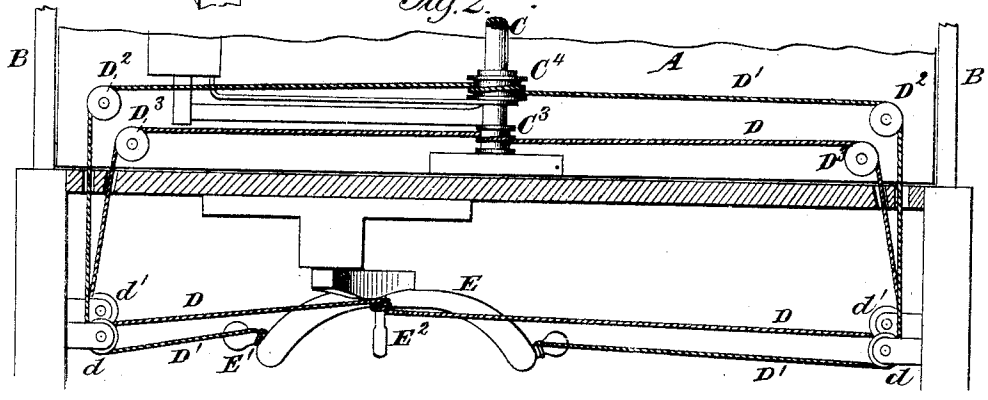
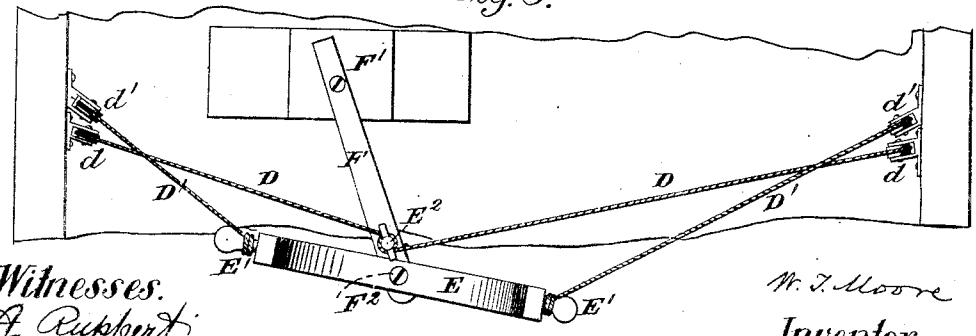


Fig. 2.

Fig. 3.



Witnesses.
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UNITED STATES PATENT OFFICE.

WILLIAM T. MOORE, OF BROWNVILLE, NEBRASKA.

IMPROVEMENT IN MUSIC-LEAF TURNERS.

Specification forming part of Letters Patent No. **217,473**, dated July 15, 1879; application filed April 25, 1879.

To all whom it may concern:

Be it known that I, WILLIAM T. MOORE, of Brownville, in the county of Nemaha and State of Nebraska, have invented a new and useful Improvement in Music-Turners, of which the following is a specification.

My invention consists of an apparatus to be attached to a piano, organ, or other like instrument, so constructed with arms and levers that the leaves of the music, which is held by arms, can be turned by the performer's knees working on levers which are placed under the keyboard of the instrument.

In the annexed drawings, making a part of this specification, Figure 1 is a perspective view. Fig. 2 is a vertical section. Fig. 3 is a bottom view.

The same letters are employed in all the figures in the indication of identical parts.

A is the music-board, against which is placed the music. It is supported on pivots between the upright posts B B, so that it may be turned down when not in use. C is an upright shaft turning in bearings on the rear side of the music-board. The music-board A is cut away near its lower edge to allow the working of the arms C^1 C^2, the ends of which are forked to receive the leaves of the music. The arm C^1 is secured to the shaft C and is made to work with it, while the arm C^2 is attached to a loose sleeve on the shaft and works independently of it. These arms are operated by the ropes D D^1, respectively, which pass around the shaft C and spool C^4, over the pulleys D^2 D^2 D^3 D^3 on the rear side of the music-board, and then down over the pulleys *d d d' d'*, and the ends are attached to the thumb-screws E^1 E^1 E^2, respectively. The thumb-screws E^1 E^1 are attached to the ends of the yoke E, which is pivoted to the free end of the lever F, which works on a pivot on the under side of the key-board of the instrument. The thumb-screw E^2, to which the ends of the rope D are attached, works on the under side of the lever F.

The upright shaft C is made with a hinge, or is jointed, so as to allow the music-board to be turned down. Above the hinge or joint in the shaft is attached an arm, C^5, made so that it can be raised or lowered, and is held at any desired height by means of a spring, *c*, attached to the arm. This arm, like C^1, is made to turn with the shaft, and is only used when large sheets of music are to be turned.

The operation of the apparatus is as follows: Music being placed against the board and the leaves placed in the forks of the arms C^1 C^2, the first leaf being in the fork of the lower arm, C^1, the second in that of the upper arm, C^2, the lever F, by means of the knee of the performer, is moved to the right, tightening the rope D, which passes around the shaft C, thus turning the shaft, and with it the arm C^1, attached to it, the slack of the rope D on the other side being taken up by the thumb-screw E^2. At the same time that the lever is turned the yoke E is turned slightly, so as not to materially tighten the other rope, D^1. The first leaf being turned, to turn the second you move the yoke E on its pivot, so that as the rope D^1 tightens, the spool C^4 and the arm C^2, attached to it, will be revolved, thus turning the second leaf, the slack of the rope on the other side being taken up by the thumb-screw E^1.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. In a music-leaf turner, the music-board A, swinging on pivots B B, and cut away near its bottom, in combination with the shaft C and arms C^1 C^2, constructed with forked ends, all arranged to operate substantially as set forth.

2. In combination with the board A, the shaft C, and arms C^1 C^2, ropes D D^1, lever F, and yoke E, all arranged to operate as and for the purposes set forth.

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

WILLIAM T. MOORE.

Witnesses:

ELIZABETH R. MOORE,

ISABELLE A. PARIS.