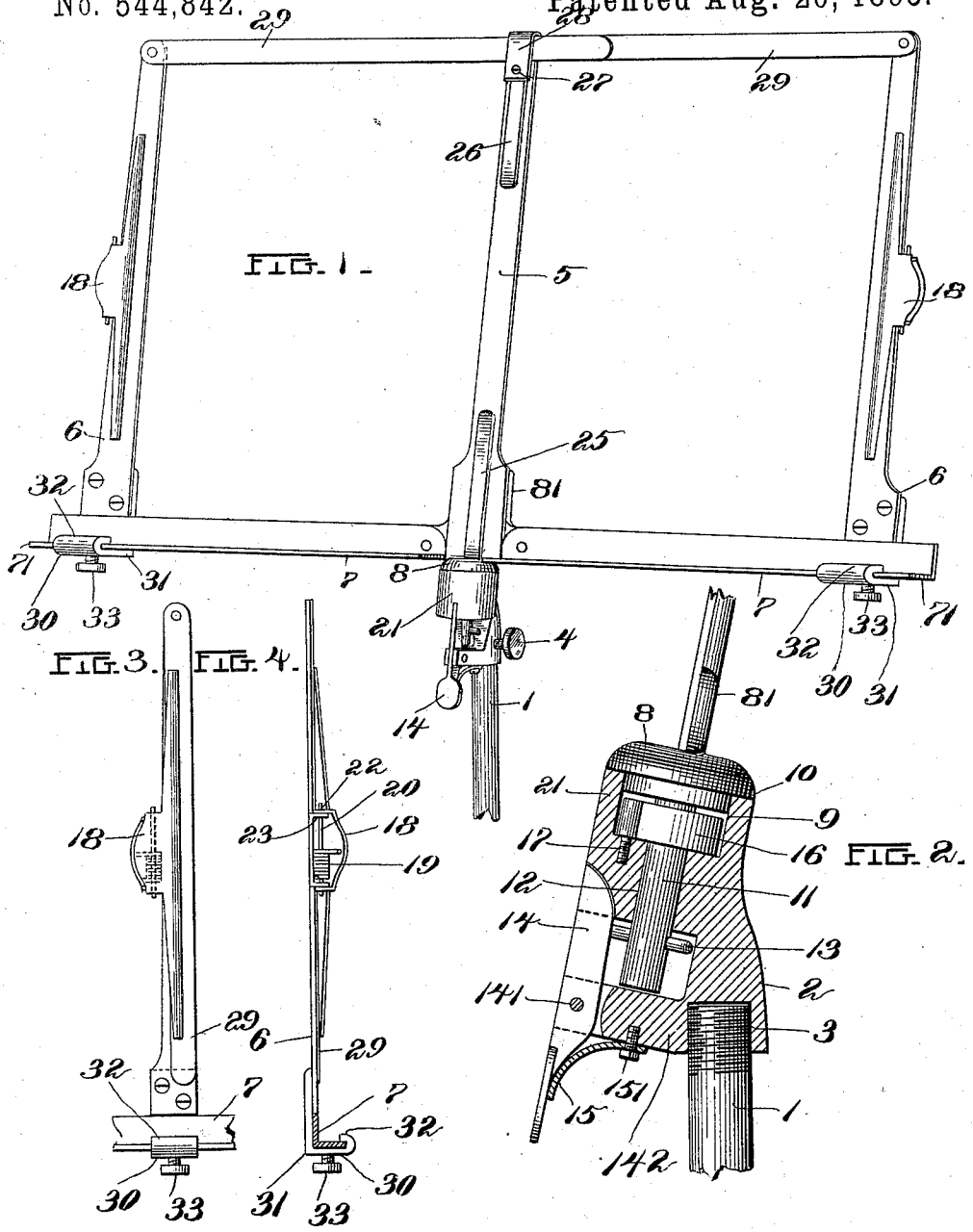
(No Model.)

E. G. BUTTERFIELD.

MUSIC HOLDER AND TURNER.

No. 544,842. Patented Aug. 20, 1895.



Witnesses.
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UNITED STATES PATENT OFFICE.

EDWIN G. BUTTERFIELD, OF LOWELL, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO JAMES F. PRESTON, OF SAME PLACE.

MUSIC HOLDER AND TURNER.

SPECIFICATION forming part of Letters Patent No. 544,842, dated August 20, 1895.

Application filed November 22, 1894. Serial No. 529,559. (No model.)

To all whom it may concern:

Be it known that I, EDWIN G. BUTTERFIELD, a citizen of the United States, residing at Lowell, in the county of Middlesex and State of Massachusetts, have invented certain new and useful Improvements in Music Holders and Turners, of which the following is a specification, reference being had therein to the accompanying drawings.

The object of my invention is to provide a simple, inexpensive, and convenient form of music holder or rack, and more especially to facilitate the reversing or turning of an open sheet of music so as to present the opposite side thereof to view.

The invention consists in a music holder or rack of novel and improved character onto which a sheet of music may be laid in an open condition, the said holder or rack being provided with clips for engagement with the outer edges of the sheet, and being arranged to rotate about an axis, so as to reverse the sheet when required.

The invention will be described first with reference to the accompanying drawings, in which latter is represented the best embodiment which I have yet devised, after which the characteristic features thereof will be particularly pointed out, and distinctly defined in the claims at the close of this specification.

Figure 1 of the drawings is a perspective of a music-holder embodying my invention, the standard being only partly shown. Fig. 2 is a vertical section through the head. Figs. 3 and 4 are respectively a front and side view of one of the side pieces of the frame with its attached clip.

At 1 is shown part of an upright or standard, which in practice is intended to be secured to a suitable base or support.

2 is a head on which is mounted the rotatable sheet-holding rack or frame which is presently to be described, the said head being adapted for connection or attachment to the said upright or standard. The drawings show the said head formed with a hole or socket 3, into which fits the upper end of the upright or standard, the parts being correspondingly screw-threaded, if desired, as indicated. If desired, the head may be locked on the said upper end of the upright or standard by a clamping-screw 4, which fits a threaded hole through the head and bears at its inner end or point against the upper end of the upright or standard. The precise manner of connecting and securing the head to the upright or standard is not material to the invention, and the connection may be effected in any desired and practicable manner.

The sheet-holding rack or frame comprises the middle piece 5, the two side pieces 6 6, the base-pieces 7 7, and the hub 8, these parts being constructed, equipped, and united to one another in the manner which now will be set forth. The middle piece 5 and hub 8 are connected together rigidly. The base-pieces 7 7 are hinged or pivoted at the lower end of the said middle piece on opposite sides of the latter, as shown, Fig. 1, so as to enable them to be turned up against the middle piece. The middle piece 5 is shown as riveted to a web 81, extending upward from the hub 8, and the base-pieces 7 7 are pivoted to lateral lugs on said web. The side pieces 6 6 are removable and are applied to the base-pieces in a manner which enables them to be set at any required distance from the middle piece. The hub 8 is mounted rotatably in the upper part of the head 2 on an inclined axis, so as to support the rack or frame in a backwardly-inclined position and present the music which is placed thereon conveniently to the eye of the musician.

The cylindrical upper portion 21 of the head 2 is formed with a circular cavity 9, to receive the lower portion of the hub 8, which is of reduced diameter to enter and fit said cavity. A flange 10 of the hub rests upon the head at the outer end of the cavity. A pin or journal 11, extending centrally from the hub, passes through a bearing 12, formed by boring a central hole in continuation of the cavity aforesaid. The free end of the pin or journal 11 extends below the cylindrical portion 21 and has driven therethrough the pin 13, the ends of which project and prevent the withdrawal of the pin or journal 11. These ends also constitute projections to be engaged by

the thumb latch or lever 14, which latter is pivoted at 141 to a lug 142 of the head 2 and acted upon by a spring 15, whereby it is held normally in position to prevent the rack or frame from rotation. Spring 15 is secured to the lug 142 at one end by the screw 151. Within the cavity 9 is placed a spring 16, one end of which is connected to the pin or journal 11 and the other to the interior of the head 2, a screw 17 being shown as making the latter connection. Each side piece 6 is furnished with a clip 18 for engagement with the corresponding edge of the sheet of music that is applied to the rack or frame, the said clip being pivoted to the side piece by a pin 20 passing through ears or lugs 22 23 on the side piece and clip, respectively, the long edge of the clip being borne toward the surface of the side piece by means of a spring 24.

25 is a blade-spring, which has its lower end secured to either the web of the hub 8 or the lower end of the middle piece 5. The lower edge of the middle part of the sheet of music is slipped between the spring 25 and the middle piece 5, and thereby clamped in place. The upper end of the said middle piece has applied thereto a blade-spring 26, the free end of which projects downwardly in a manner which enables the upper edge of the middle part of a sheet of music to be slipped beneath the same. This blade-spring clamps the said portion of the sheet against the upper end of the middle piece 5. The upper extremity of the middle piece is bent over and fastened down by the screw or rivet 27, which also holds the spring 26 to form a loop 28, into which may be passed the free ends of the side pieces 6 6. The base-pieces 7 7 are L-shaped in cross-section. Their forwardly-projecting flanges constitute a support on which the lower edge of the sheet of music may rest. The lower ends of the side pieces 6 6 are riveted to slides 30 30, which also are made L-shaped to conform to the cross-section of the base-pieces, such slides fitting upon the latter. The forwardly-projecting portion 31 of each slide has a lip 32, which engages with the free edge of the flange 71 of the corresponding base-piece, as shown, while the lower end of the side piece 6 contacts with the upper edge of the upright portion of the base-piece. In this manner each slide is held to its base-piece with capacity to slide thereon and to be passed off or onto the end thereof. For the purpose of securing the slides at the desired points in the length of the base-pieces I provide clamping-screws 33, which pass through threaded holes in the slides and bear at their inner ends against the base-pieces.

In using my invention, the side pieces 6 6 are set upon the base-pieces at a distance apart corresponding with the length of the opened-out sheet of music that is to be placed on the rack or frame. The strips 29 29 may be placed in the positions which are represented in Fig. 1, if desired, or may be swung down onto the surface of the side pieces beneath the clips 18 18. In the latter position they are out of the way, and are overlaid by the side edges of the sheet of music. The clips 18 18 hold the said side edges of the sheet to the side pieces 6 6. The locking-lever 14 holds the rack or frame from rotating until such lever is pressed upon to disengage it from the projections on the journal or pin 11. When it is thus disengaged the spring 16 communicates rotary movement to the rack or frame. In this way a half-revolution is given to the rack or frame and the opened-out sheet of music spread thereon, thereby presenting to view the other side of such sheet. In some cases I contemplate omitting the spring and rotating the rack or frame by hand through the half-revolution just referred to. When the device is not in use the side pieces 6 6 may be removed and the base-pieces 7 7 folded up against the middle piece 5.

As indicated at the outset herein, the construction which is shown in the accompanying drawings, and described in the foregoing description, is the best that has yet been devised by me. As will be perceived readily, however, the principles of my invention may be differently embodied, without the omission of any essential. Hence, I wish it to be understood clearly that I do not restrict myself to any of the particulars of construction here shown and described, but reserve the right to alter and modify the same to the extent which is justified by the following claims.

I claim as my invention—

1. The music rack or holder having side pieces constituting supports for the lateral edges of a sheet of music and provided with clips to engage with the said edges, and having between said side pieces a support on which it is rotatable, whereby an opened-out sheet of music having its edges held by said clips may have its reverse side presented to view, substantially as described.

2. The music rack or holder having side pieces provided with clips to engage with the edges of the opposite sides of a sheet of music, and having between said side pieces a support on which it is rotatable, whereby an opened-out sheet of music having its edges held by said clips may be reversed, a spring whereby to rotate the rack or holder, and a detent for holding it from rotation, substantially as described.

3. The music rack or holder having a supporting-piece base pieces provided with supports for the lower edge of a sheet of music, and pivoted to opposite sides of said supporting piece, side pieces removably applied to said base pieces and adjustable thereon and clips on said side pieces for engaging with the side edges of a sheet of music and holding it in a spread-out condition, substandially as described.

4. The music rack or holder having a supporting-piece, base pieces provided with supports for the lower edge of a sheet of music, and pivoted to opposite sides of said supporting piece, side pieces removably applied to said base pieces and adjustable thereon, clips on said side pieces for engaging with the side edges of a sheet of music and holding it in a spread-out condition, and a mounting between said side pieces on which said supporting piece is arranged to rotate, substantially as described.

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

EDWIN G. BUTTERFIELD.

Witnesses:

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