

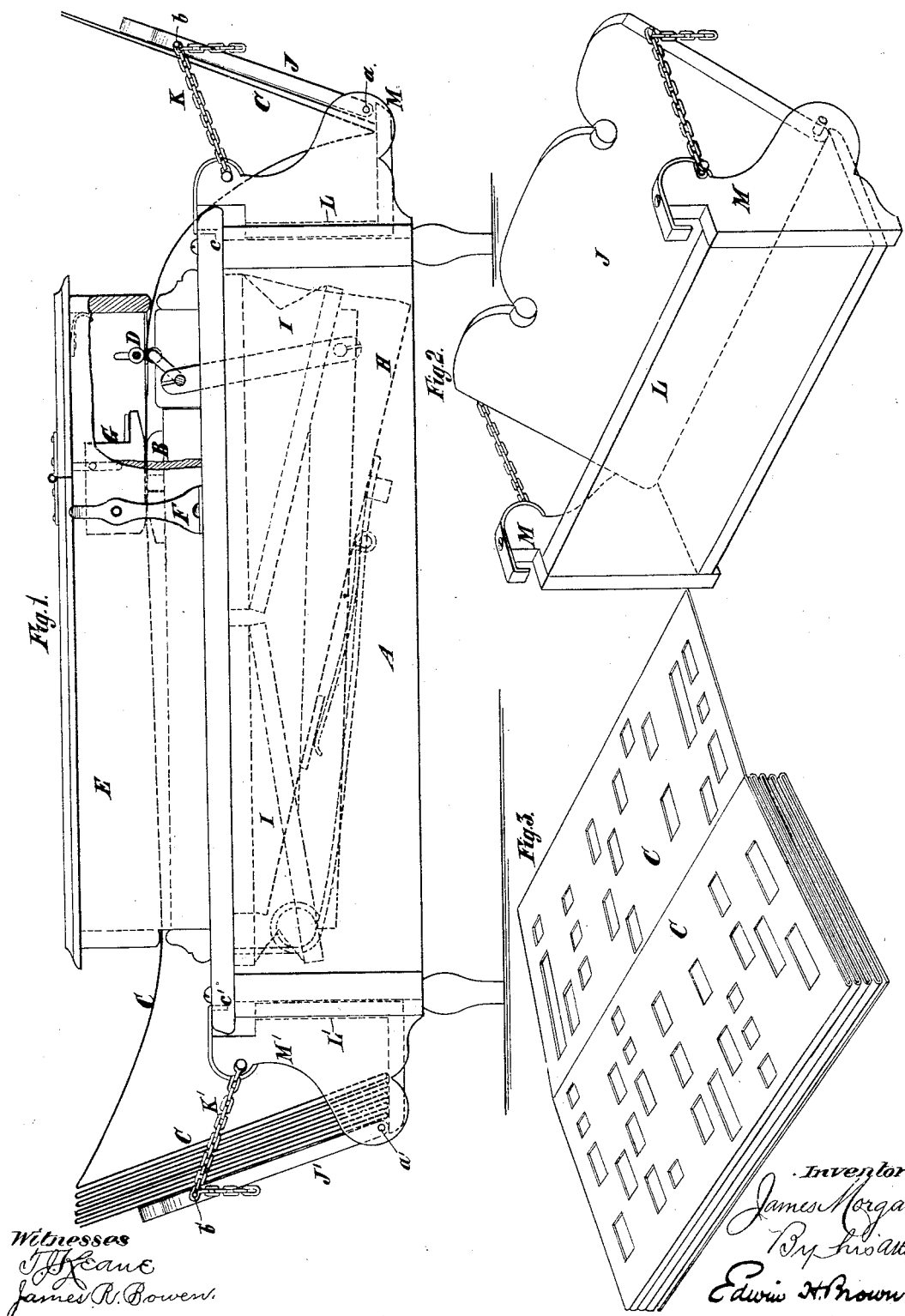
(No Model.)

J. MORGAN.

MECHANICAL MUSICAL INSTRUMENT.

No. 263,295.

Patented Aug. 22, 1882.



UNITED STATES PATENT OFFICE.

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MECHANICAL MUSICAL INSTRUMENT.

SPECIFICATION forming part of Letters Patent No. 263,295, dated August 22, 1882.

Application filed March 23, 1882. (No model.)

To all whom it may concern:

Be it known that I, JAMES MORGAN, of Brooklyn, in Kings county, and the State of New York, have invented a certain new and useful Improvement in Mechanical Musical Instruments, of which the following is a specification.

My improvement consists in the combination, with a mechanical musical instrument having feed-rollers for moving along a music-sheet, of a pocket detachably connected with the instrument at one side of these rollers for the reception of the music-sheet after it has done its duty. Preferably I employ a pocket at each side of the feed-rollers—one for holding the music-sheet before it is passed through the musical instrument and another for receiving it after it has performed its duty in the instrument. I intend generally to employ a music-sheet which is so constructed that it can be folded lengthwise, and to so dispose the receiving-pocket that the music-sheet, after leaving the feed-rollers, will, on striking it, be automatically folded up. I do not wish to confine myself to the use of a pocket for holding or collapsing the music-sheet after it leaves the feed-rollers, as I may employ a suitably-inclined board alone to accomplish the desired result. I shall preferably so construct the pocket or pockets, or the board or boards used in lieu thereof, in such manner that they will have out-boards capable of adjustment as may be desirable.

In the accompanying drawings, Figure 1 is a partly-sectional side view of a mechanical musical instrument embodying my improvement. Fig. 2 is a perspective view of a pocket which forms part of or is used in conjunction with said instrument, and Fig. 3 is a perspective view of the music-sheet which is used in such instrument.

Similar letters of reference designate corresponding parts in all the figures.

A designates the body of the mechanical musical instrument. It may be of any suitable material and construction. The instrument has a rest, B, over which a music-sheet, C, is made to travel by means of a pair of feed-rollers, D, the lower of which is operated

through the agency of a hand-crank. A top frame, E, removably connected to the body A by catches F, arranged one on each side of the instrument, carries the upper of the feed-rollers D and a reed-chest, G. Both the upper feed-roller and this reed-chest are impelled downward by springs. The reed-chest is arranged directly over the rest B, and the music-sheet passes between it and this rest. The music-sheet thus controls the communication of the air-ducts of the reed-board with an aperture or a series of apertures which communicate with a receiver or equalizer, H.

Bellows I communicate with a receiver or equalizer, and are operated by links connected with cranks on the lower feed-roller. In the instrument, as here shown, suction-bellows are intended to be used; but, so far as my improvement is concerned, it is immaterial whether the instrument have suction or force bellows. Either may be used if the position of the reeds is suitably changed.

I wish it also to be understood that my improvement is not confined to use with a perforated music-sheet, for it is applicable to music-sheets which are furnished with projections for operating valves comprised in the instrument. The music-sheet shown consists of paper creased so that it can be readily folded lengthwise into compact form; but it may be composed of a number of cards or tablets united by flexible joints.

Having given this general description of the musical instrument and its music-sheet, I will now describe my improvement specifically.

J designates a board arranged on that side of the feed-rollers D to which the music-sheet is passed after having done its duty in the instrument. It is disposed at such an angle that when fed against it the music-sheet will automatically fold up into compact form. Preferably it is hinged or pivoted in place at or near the bottom edge, as shown at *a*, and is supported at or near the upper edge by such means as will admit of its adjustment at different angles. The means I have shown for this purpose consist of chains K, adapted to be fastened at different points to the board—as, for instance, by slipping a different link over a pin

or nail, *b*. In this way I provide for adjusting the board at any desired angle to better adapt it for use with music-sheets of different kinds and lengths, or to enable it to fulfill its functions the better from time to time as the folds of the music-sheet accumulate against it. A board, *J'*, similar to the board *J*, is arranged at the other side of the feed-rollers *D*. It is preferably hinged or pivoted in place at or near the bottom edge, as shown at *a'*, and chains *K'* are adapted to be fastened at different points to a pin or nail, *b'*. As here shown, the boards *J J'* have respectively combined with them boards *L L'*, which bear against the ends of the musical instrument and end pieces, *M M'*, affixed thereto and extending beyond the ends of the musical instrument in line with the rails, which are employed therein to guide the music-sheet over the rest *B*. The boards *J J'* and *L L'*, with the end pieces, *M M'*, and the chains *K K'*, form pockets, and the boards *J J'* are obviously adjustable out-boards thereof. As here shown, the end pieces, *M M'*, are provided with hooks of metal or other suitable material, which are adapted to engage with recesses *c c'* in the top board of the body *A* of the musical instrument, and, owing to the employment of this means of connection, the pockets may be removed and replaced at pleasure.

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

1. The combination, with a mechanical musical instrument having feed-rollers for moving

along a music-sheet, of a pocket detachably connected with the instrument at one side of the rollers for the reception of the music-sheet after it has done its duty, substantially as specified.

2. The combination, with a mechanical musical instrument having feed-rollers for moving along a music-sheet, of a pocket or pockets arranged at either or both sides of the feed-rollers for holding the music-sheet, and having an adjustable out-board or out-boards, substantially as specified.

3. The combination, with a mechanical musical instrument, of a pocket comprising the adjustable out-board *J*, the chains *K*, for supporting said out-board, the board *L*, and end pieces, *M*, all substantially as specified.

4. The combination, with a mechanical musical instrument, of a pocket consisting of the boards *J L*, end pieces, *M*, and chains *K*, having an adjustable connection with the board *J*, substantially as specified.

5. The combination, with a mechanical musical instrument having feed-rollers for moving along a music-sheet, of a board arranged at one side of the feed-rollers for folding or collapsing the music-sheet, and means whereby it may be adjusted at different angles, substantially as specified.

JAMES MORGAN.

Witnesses:

T. J. KEANE,
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