

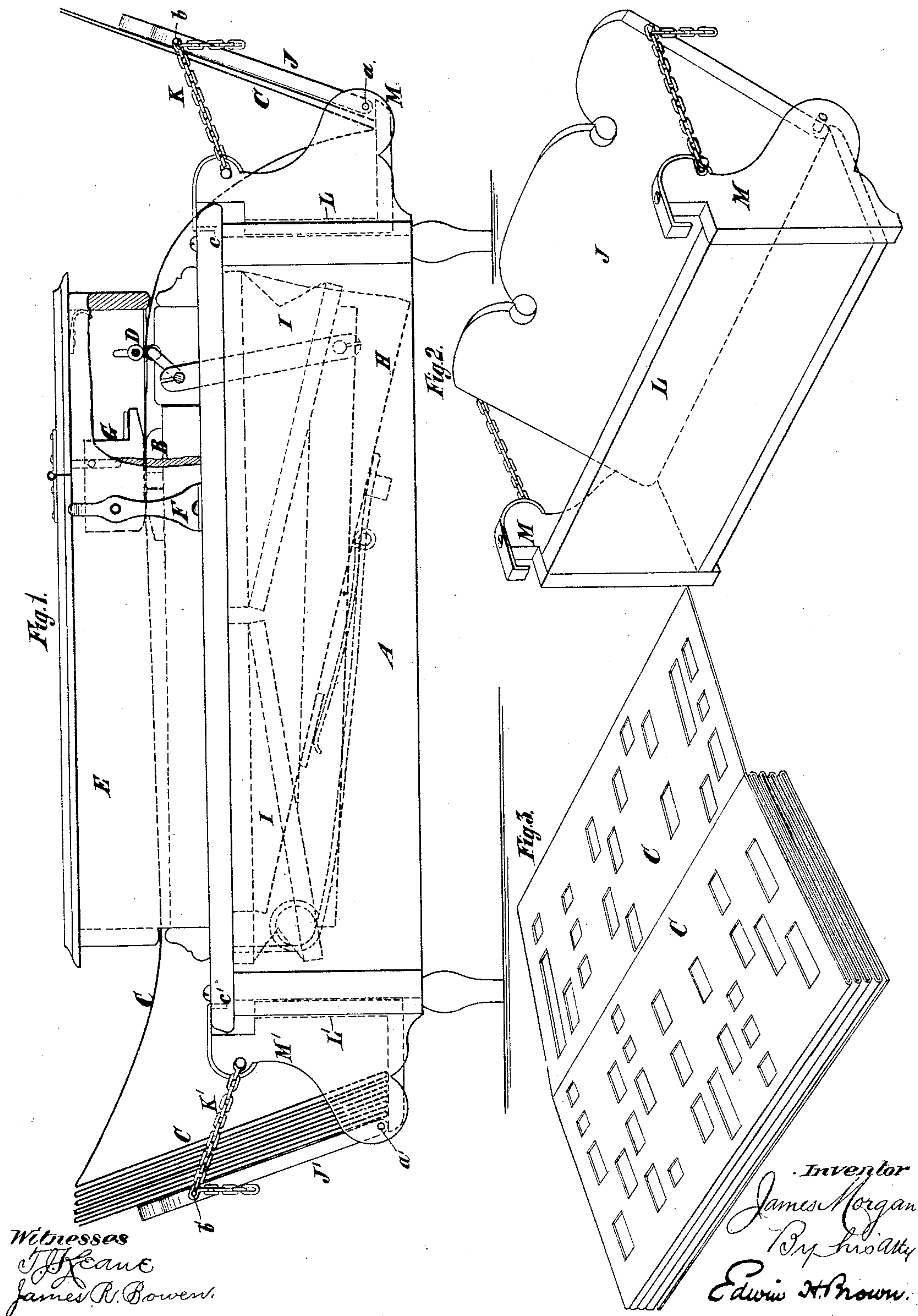
(No Model.)

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 22, 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
5 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
10 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
15 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-
20 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
25 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
30 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
35 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
40 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
45 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
50 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
55 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
60 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
65 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
70 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
75 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
80 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
85 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
90 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
95 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:

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