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 SHEET ADJUSTING APPARATUS.
 APPLICATION FILED MAR. 2, 1911.

Patented Jan. 27, 1914.

1,085,301.

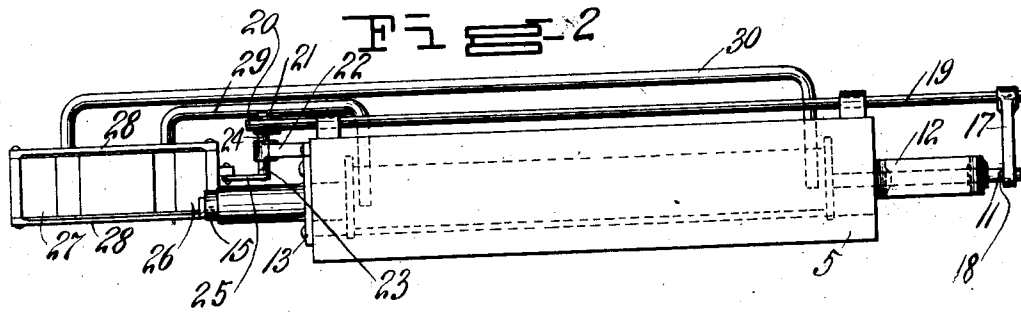
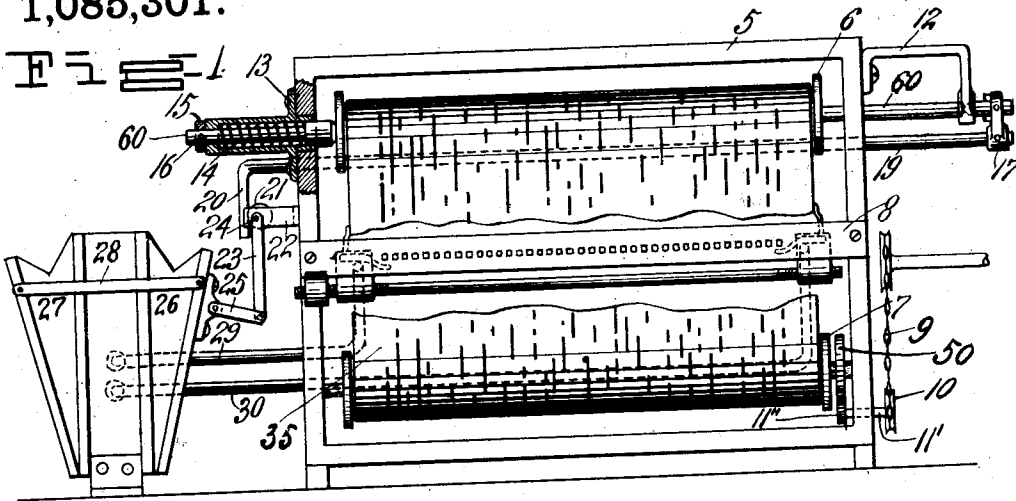


FIG. 3

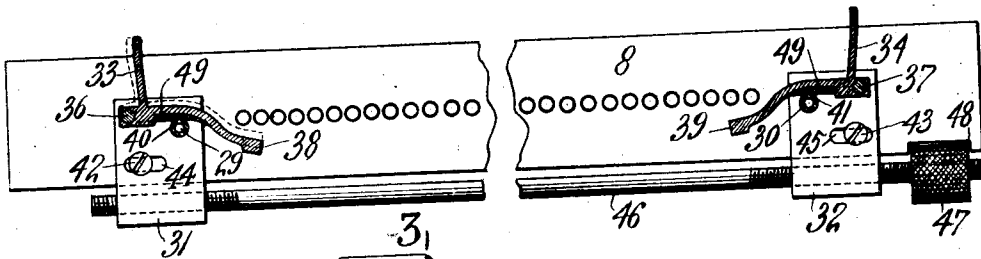
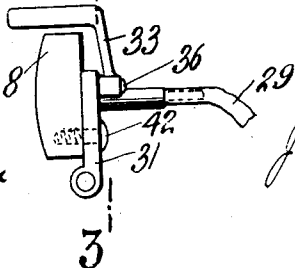


FIG. 4



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SHEET-ADJUSTING APPARATUS.

1,085,301.

Specification of Letters Patent.

Patented Jan. 27, 1914.

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To all whom it may concern:

Be it known that I, JOSE SAMPERE, a citizen of the United States, residing in the borough of Manhattan, in the county of New York and State of New York, have invented certain new and useful Improvements in Sheet-Adjusting Apparatus, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in sheet adjusting apparatus and has particular reference to and is illustrated in the accompanying drawings in its application to a piano player.

Referring to the accompanying drawings, Figure 1 is a front elevation partly in section of an apparatus illustrating an application of my invention. Fig. 2 is a plan view looking downwardly upon the same. Fig. 3 is an enlarged view of the tracker board, and valve mechanism partly in section on the line 3-3 of Fig. 4, looking from the back of the same, and Fig. 4 is a view looking from left to right at Fig. 3.

5 is the outer framework in which the usual spools 6 and 7 are suitably mounted and upon which the tracker board 8 is secured. One of these spools may be driven in any suitable manner as by the chain 9 engaging the sprocket 10 secured to the shaft 11 provided with pinion 11' engaging the gear 12 of the spool. 13 is another bracket in which the other end of the other shaft 60 may be mounted and from which it is forced rightwardly by the coil spring 14, said bearing being retained within the bracket 13 by any suitable means such as the collar 15 held by the pin 16. At the opposite extremity of the shaft 60 is mounted an arm 17. The other end of this arm or bracket is suitably secured to the shaft 19 which is preferably bent at right angles at the opposite extremity serving as a bearing 20 for the cam 21 mounted within the bracket 22, secured to the frame 5. This cam is secured to the lever 23 by the pin 24 so that as the lever 23 is moved, the cam 21 is moved within the bracket 22 thereby causing the shaft 19 to shift the spool 6 rightwardly or leftwardly. The lever 23 is pivoted to the lever 25 which is pivoted to the pneumatic provided with chambers 26-27 connected by the bar 28. 29 and 30 are tubes communicating respec-

tively with each of the chambers 26 and 27 of said pneumatic and the slide pieces 31 and 32 of the valve mechanism. These slide pieces are provided with the movable members 33 and 34 which are L shaped as shown to better advantage in Fig. 4 and project above the surface of the tracker to engage the edges of the perforated sheet 35. These movable members are preferably pivoted to the slide pieces as shown at 36 and 37 and are provided with projections 38 and 39 adapted to cover the openings 40-41 in the tubes 29 and 30 respectively.

42 and 43 are screws or other suitable means serving to guide the slides 31 and 32 respectively provided with the slots 44 and 45. These guides are preferably tapped or threaded to receive the bar 46 which is also tapped or threaded as shown, the threads running in opposite directions and may be provided with a finger piece 47 which may be knurled and secured to said shaft so that upon turning said finger piece, the slides come together or separate as may be required to adjust the movable members 33 and 34 to various widths of perforated sheet music. The tracker board may be cut away as shown at 48 to accommodate the finger piece 47 to allow the bar 46 to lay closely to the side of the tracker board and to keep the same in position, and the projections or arms 38 and 39 may be provided with suitable packing such as leather 49 or the like upon the inner surface where the same closes the openings of the tubes 29 and 30.

From the foregoing it will be understood that when the sheet of music shifts to one side it shifts one of the movable members 33 or 34 thereby opening one of the ports 40 or 41 to the atmosphere and allows air to pass through one of the tubes 29 or 30 to one of the chambers 26 or 27 of the pneumatic. As soon as the air is allowed to enter one side of the pneumatic, that side immediately expands and shifts the lever or bar 25 as aforesaid thereby causing the spool 6 to move rightwardly or leftwardly so as to keep the perforations of the sheet in alinement with the perforations in the tracker board.

Of course it will be readily understood that various modifications may be made without departing from the spirit of the invention as set forth in the claims.

I claim:

1. In a device of the class described, a pair of spools carrying a perforated sheet, a tracker, a pneumatic, valve mechanism adjacent to said tracker adapted to be actuated by the edge of said sheet when said sheet shifts laterally, said valve mechanism normally closed by gravity, tubular connection between said valve mechanism and said pneumatic, means whereby the normal relation between said sheet and said tracker is restored when said valve mechanism is actuated, said valve mechanism having a movable member held in normal position by its own weight, and means cooperating with said movable member and extending beyond the face of the traveling note sheet and adapted to be engaged by the edge of said sheet.
2. In a device of the class described, a pair of spools carrying a perforated sheet, a tracker, a pneumatic, valve mechanism adjacent to said tracker adapted to be actuated by the edge of said sheet when said sheet shifts laterally, tubular connection between said valve mechanism and said pneumatic, means whereby the normal relation between said sheet and said tracker is restored when said valve mechanism is actuated, said valve mechanism having a movable member upon a bearing with an axis transversely of said tracker, said movable member closing said valve mechanism by its own weight when said sheet is running perfectly and a projection from said movable member adapted to be engaged by the edge of said sheet.
3. In a player piano, the combination with a traveling music sheet, of pneumatic means for actuating said sheet transversely of its line of travel, said means including a valve opening, a valve in the form of a bell crank lever having an arm normally extending from the vertical, said extending arm having a valve on the under side thereof, the weight of said arm tending to maintain said valve on said opening to close the same and another arm actuated by the edge of said music sheet.
4. In a device of the class described, a pair of spools carrying a perforated sheet, a tracker, a pneumatic, valve mechanism adjacent to said tracker adapted to be actuated by the edge of said sheet when said sheet shifts laterally, said valve mechanism normally closed by gravity, tubular connection between said valve mechanism and said pneumatic, means whereby the normal relation between said sheet and said tracker is restored when said valve mechanism is actuated, said valve mechanism having a movable member held in normal position by its own weight, and a projection from said
- movable member extending beyond the face of said tracker adapted to be engaged by the edge of said sheet.
5. In a device of the class described, a pair of spools carrying a perforated sheet, a tracker, a pneumatic, valve mechanism adjacent to said tracker adapted to be actuated by the edge of said sheet when said sheet shifts laterally, tubular connection between said valve mechanism and said pneumatic, means whereby the normal relation between said sheet and said tracker is restored when said valve mechanism is actuated, said valve mechanism having a movable member upon a bearing with an axis transversely of said tracker, said movable member closing said valve mechanism by its own weight when said sheet is running perfectly and a projection from said movable member extending beyond the face of said tracker adapted to be engaged by the edge of said sheet.
6. In a device of the class described, a pair of spools carrying a perforated sheet, a tracker, a pneumatic, valve mechanism adjacent to said tracker adapted to be actuated by the edge of said sheet when said sheet shifts laterally, said valve mechanism normally closed by gravity, tubular connection between said valve mechanism and said pneumatic, means whereby the normal relation between said sheet and said tracker is restored when said valve mechanism is actuated, a movable member of said valve mechanism held in position by its own weight, and means cooperating with said movable member and extending beyond the face of the traveling note sheet and adapted to be engaged by the edge of said sheet.
7. In a device of the class described, a pair of spools carrying a perforated sheet, a tracker, a pneumatic, valve mechanism adjacent to said tracker adapted to be actuated by the edge of said sheet when said sheet shifts laterally, tubular connection between said valve mechanism and said pneumatic, means whereby the normal relation between said sheet and said tracker is restored when said valve mechanism is actuated, a movable member of said valve mechanism upon a bearing with an axis transversely of said tracker, said movable member closing said valve mechanism by its own weight when said sheet is running perfectly and a projection from said movable member adapted to be engaged by the edge of said sheet.

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

JOSE SAMPERE.

Witnesses:

LOUISE ENDERLE,
THOMAS A. HILL.