

983,288.

Fig. 1.

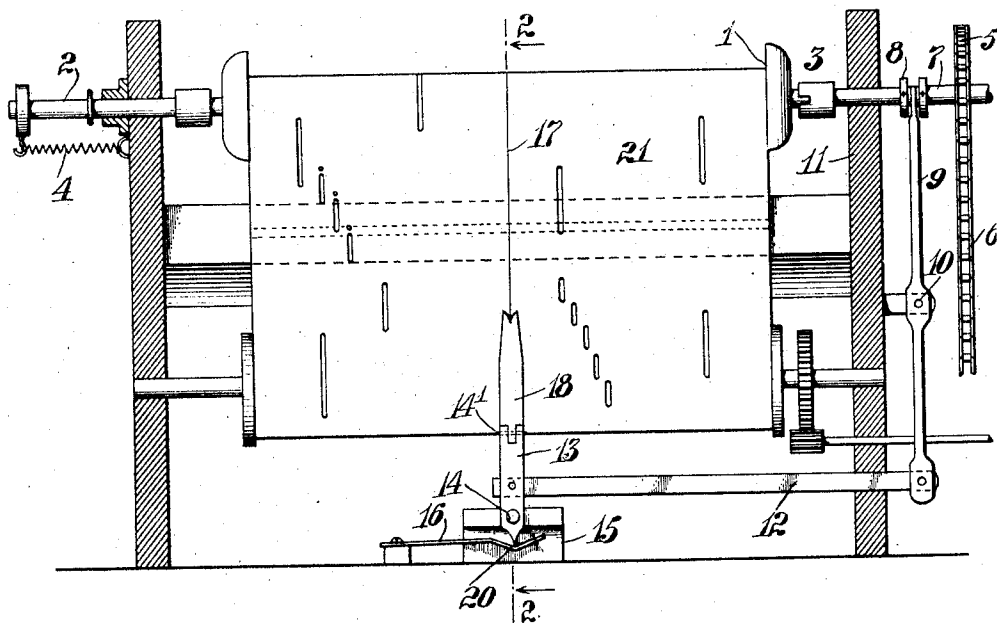
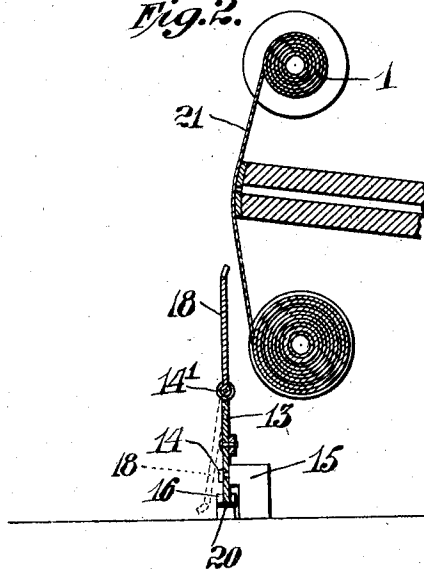


Fig. 2.



Attest:
E. Mitchell
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by *Wm. R. Kelly* Inventor:
Wm. R. Kelly his Atty.

UNITED STATES PATENT OFFICE.

GEORGE B. KELLY, OF JAMAICA PLAIN, MASSACHUSETTS.

ADJUSTING DEVICE FOR PERFORATED NOTE-SHEETS.

983,288.

Specification of Letters Patent.

Patented Feb. 7, 1911.

Application filed October 31, 1910. Serial No. 589,868.

To all whom it may concern:

Be it known that I, GEORGE B. KELLY, a citizen of the United States, and a resident of Jamaica Plain, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Adjusting Devices for Perforated Note-Sheets, of which the following is a specification.

This invention relates to improvements in adjusting devices for perforated note sheets, such, for example, as are used on playing attachments for pianos and organs, and the object of my invention is to provide a new and improved device of this kind which is simple in construction, compact, reliable and effective in action and by means of which the note sheet can be readily and quickly adjusted so that its perforations will always be in exact alinement with the ducts of the tracker.

In the accompanying drawings in which like letters of reference indicate like parts in all the figures: Figure 1 is a front elevation of part of the music box of a piano player showing the music roller, the tracker and my improved adjusting device. Fig. 2 is a vertical transverse sectional view.

The music roll 1 is mounted in the usual manner on the bearings 2 and 3 of which the former is acted upon by a spring 4 which presses it toward the roll and the bearing 3 is provided with the conventional sprocket wheel 5 and the chain 6 for rewinding or with any other well known driving mechanism, as the latter forms no part of the present invention. The shaft 7 of the bearing 3, which is mounted to turn and to slide lengthwise, is provided with a fixed collar 8 having an annular groove into which one end of the lever 9 extends, said lever being pivoted at 10 to the outer face of the right hand end wall 11 of the music box. The lower end of this lever 9 is pivotally connected by a link 12 with a pointer 13 pivoted at 14 to a short standard or block 15 on the bottom of the music box and the lower end of this lever which is tapered or beveled to form an edge rests upon the flat spring 16 secured to the bottom of the music box and the free end part of which is bent in the form of a very obtuse V as shown at 20. The pointer extends upward and its upper end which is preferably provided with a recess as shown, is quite close to the music sheet 21 so as to adapt the upper end of this pointer to be followed by the longitudinal

guide line 17 provided on said sheet. So that the pointer will be out of the way when inserting a perforated music sheet in the music box, the upper half or portion 18 of the pointer is hinged to the lower portion as at 14' so as to permit of swinging it down or out of the way when inserting or removing the sheet and of rapidly raising it for use. Normally the entire pointer is held in vertical position and in register with the line 17, and as the lower end edge of the lever rests in the angle of the V-shaped part 20 it is thus held in this vertical position and when moved to the right or left by hand and then released it is immediately and automatically brought by the action of the spring 16 and its V-shaped part 20, back into this vertical position and in register with the line 17. In case the sheet does not run true and its line 17 does not register with the upper end of the pointer, the operator moves or swings the pointer laterally to one end side or the other until its upper end again coincides with the line 17 and thereby moves the link 12 and the lever 9 in such a manner that these parts shift the shaft 7 of the bearing 3 by means of the collar 8, either to the right or left to such an extent that the note perforations will be again in alinement with the ducts of the tracker, and if after such adjustment the pointer is released the spring 16 as stated brings it into and keeps it in vertical position. If, on account of careless re-rolling or expansion or contraction of the sheet the same shifts to the right or left this is immediately shown by the line 17 which will no longer coincide with the upper end of the pointer and this defect can easily be remedied by shifting the pointer in the manner just stated. For example, if the sheet is run out of alinement to the right, that is to say, that the line 17 will be to the right of the pointer, the operator moves the pointer 13 to the right so that it will be in alinement with the line 17 whereby the lower end of the lever 9 is moved to the right and the upper end is moved to the left, whereby the music roll is also moved to the left, thereby bringing the line 17 from the position to the right of the pointer into alinement with the pointer and so on.

Having described my invention what I claim as new and desire to secure by Letters Patent is:

In a mechanical musical instrument, mak-

ing use of a perforated music sheet, the combination with a roll to which the sheet is attached, of bearings for said roll, which bearings are mounted to move in the direction of their length, an upright pointer pivoted in front of the sheet to extend upwardly over the sheet, a fixed spring having a substantially V-shaped part at its movable end and bearing with its recessed portion against the lower end of the pivoted pointer, and

means for transmitting motion from the pointer to the bearings of the roll, substantially as set forth.

Signed at New York city, in the county of New York, and State of New York, this 27th day of October, A. D. 1910.

GEORGE B. KELLY.

Witnesses:

GEORGE BELLE,
JAMES PURCELL.