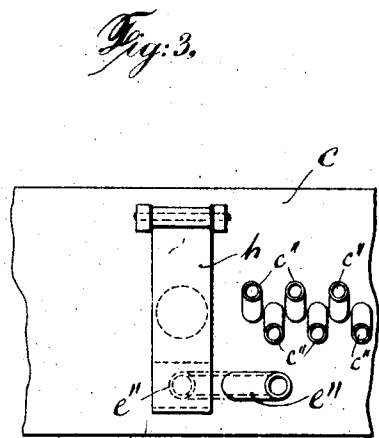
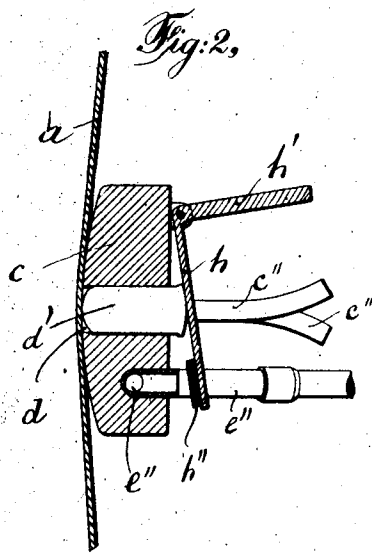
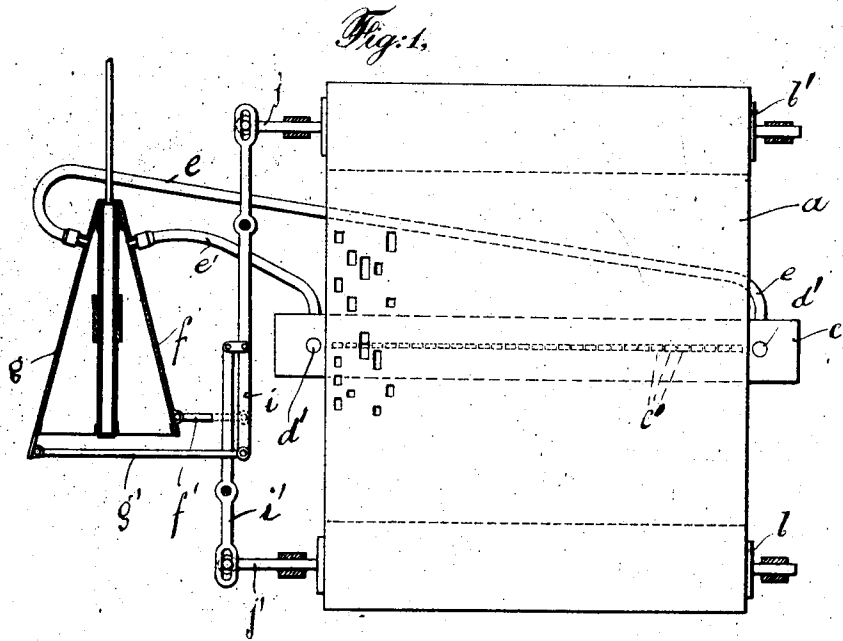


C. FLETTNER.
ADJUSTING DEVICE FOR MUSIC ROLLS.
APPLICATION FILED NOV. 15, 1909.

955,506.

Patented Apr. 19, 1910.



Witnesses:
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UNITED STATES PATENT OFFICE.

CHARLES FLETTNER, OF NEW YORK, N. Y.

ADJUSTING DEVICE FOR MUSIC-ROLLS.

955,506.

Specification of Letters Patent.

Patented Apr. 19, 1910.

Application filed November 15, 1909. Serial No. 528,097.

To all whom it may concern:

Be it known that I, CHARLES FLETTNER, a citizen of the United States of America, residing at No. 537 East One Hundred and Thirty-ninth street, in the city of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Adjusting Devices for Music-Rolls, of which the following is a specification.

The present invention relates to adjusting devices for music rolls, in self-playing musical instruments, and has for its object to provide a device which upon the accidental displacement of the music roll to either side of the music tracker, will instantaneously cause the music roll to adjust itself in proper position.

My invention is illustrated in the accompanying drawing in which similar reference letters denote corresponding parts and in which—

Figure 1 is a front elevation; Fig. 2 a cross section and Fig. 3 a rear view of the device.

In the drawing *a* denotes the music roll, *b*, *b'*, the spools thereof and *c* the pneumatic music tracker. The latter consists of a bar having a series of perforations *c'*, that at the rear terminate in short pipes *c''*, connected to bellows pneumatics of the action (not shown). The spindles *j*, *j'*, of the spools *b*, *b'*, are connected by means of double armed levers *i*, *i'*, and rods *f*, *g*, to bellows *f*, *g*, so that when the latter are caused to contract the spools of the music roll will be drawn into one or the other direction, as the case may be, thereby readjusting the displaced music roll. Thus far, the adjusting device is old.

The novelty of my invention resides in the means for controlling the operation of the bellows *f*, *g*, which I will now proceed to describe.

The bar *c* is provided at its ends with cylindrical bores *d* in which are loosely borne studs *d'*. The forward ends of these studs are rounded off and are adapted to normally project outward of the bar. These studs, of which there are two, are arranged at such points of the bar, that the side edges of the music roll which is fed past the bar, are in close proximity to said studs.

The bellows *f* and *g*, are provided with flexible exhaust pipes *e*, *e'*, which are connected to pipes *e''*, arranged in the bar *c* at both ends of the latter and below the studs *d'*. The open ends of these pipes *e''*, are controlled by valves *h''* that are operated by the studs *d'* the opposite ends of pipes *e''* being connected to the main exhaust. The valves are secured to plates *h* which are hinged to the bar *c* above the studs *d'* and are provided with counterweights *h'*, tending to return the valves into closed position.

The slightest pressure upon the studs *d'* caused by the displacement of the music roll will cause the opening of the valves *h''* permitting the air from the bellows *f* or *g* to exhaust. In consequence thereof the respective bellows will contract and in well known manner instantaneously return the displaced music roll into the proper position.

What I claim and desire to secure by Letters Patent is:—

1. In self-playing musical instruments, the combination with the pneumatic music roll tracker, of a music roll, an adjusting device for the music roll, comprising movable studs in the said tracker at each side of the music roll, bellows operatively connected with the music roll, exhaust pipes leading from the bellows, valves on the tracker connected with said pipes and operated by said studs upon the displacement of the music roll.

2. In self playing musical instruments, the combination with the pneumatic music roll tracker, of a music roll, an adjusting device for the music roll, comprising movable studs in the said tracker, bellows operatively connected with the music roll, exhaust pipes leading from the bellows, valves for said pipes, and counterweighted plates carrying said valves and hinged to said tracker, said plates being operated by the studs upon the displacement of the music roll.

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

CHARLES FLETTNER.

Witnesses:

MAX D. ORDMANN,
ARTHUR D. STRAILL.