No. 718,410. PATENTED JAN. 13, 1903.

F. L. YOUNG.

MUSIC ROLL FOR MECHANICAL MUSICAL INSTRUMENTS.

APPLICATION FILED APR. 9, 1902.

NO MODEL.

Fig. 1,

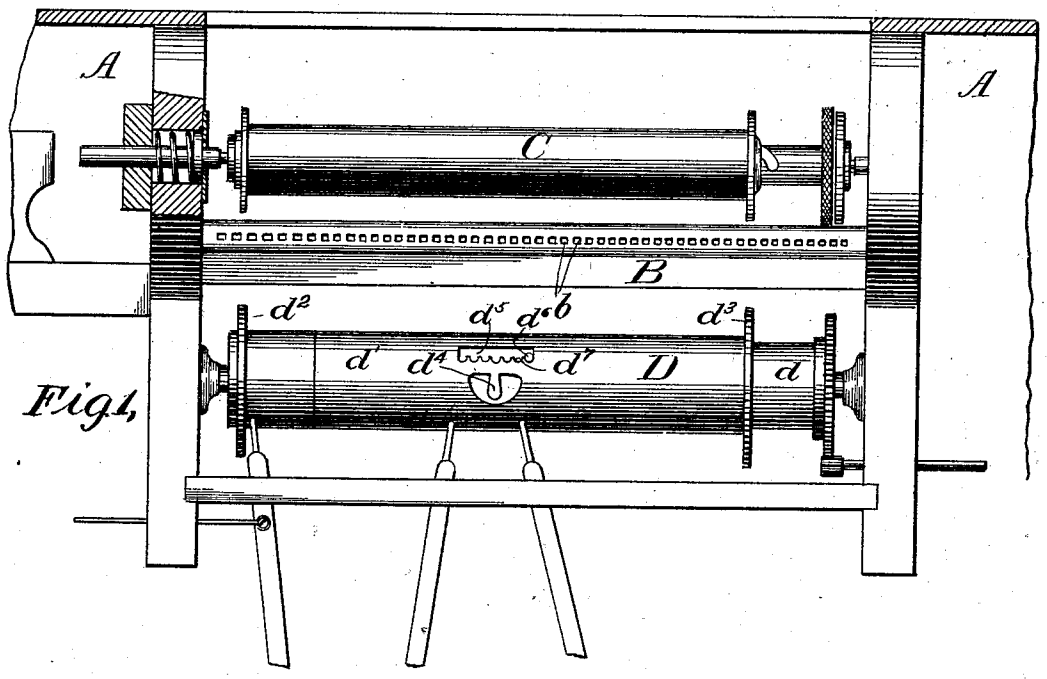


Fig. 2,

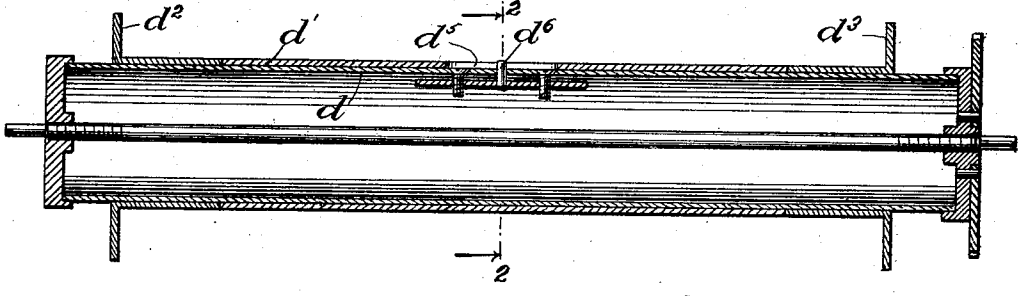
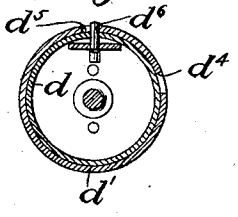


Fig. 3,



WITNESSES:

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UNITED STATES PATENT OFFICE.

FRANCIS LINCOLN YOUNG, OF LONDON, ENGLAND.

MUSIC-ROLL FOR MECHANICAL MUSICAL INSTRUMENTS.

SPECIFICATION forming part of Letters Patent No. 718,410, dated January 13, 1903.

Application filed April 9, 1902. Serial No. 102,002. (No model.)

To all whom it may concern:

Be it known that I, FRANCIS LINCOLN YOUNG, a citizen of the United States, residing in London, England, have invented certain new and useful Improvements in Music-Rolls for Mechanical Musical Instruments, of which the following is a specification.

My invention relates to music-rolls employed in mechanical musical instruments.

The object of my invention is to construct a roll, whereby it can be adjusted to accommodate different widths of perforated music-sheets.

I will describe a roll embodying my invention and then point out the novel features thereof in the claims.

In the accompanying drawings, Figure 1 is a view of a mechanical musical instrument employing a take-up roll embodying my invention. Fig. 2 is a view in elevation of a music-roll. Fig. 3 is a cross-sectional view taken on the line 2 2 of Fig. 1.

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

The accompanying drawings illustrate my invention as being applied to what is termed a "take-up" roll. My invention, however, may be applied to what is termed a "music-roll."

A designates the casing of a mechanical musical instrument of any of the well-known types—that is to say, the casing may contain mechanism for producing musical sounds or it may contain strikers with concomitant parts which actuate the strikers and cause them to operate upon a keyboard musical instrument.

B designates a tracker, here shown as being in the form of a board having a plurality of ducts *b*, and C D the music-roll and take-up roll, respectively.

The music-roll C is provided with its usual trunnions, which are mounted in the usual bearings, one of which is yielding, as shown. The music-roll C may also be provided with means which provide for a movement of the well-known music-sheet, not necessary to be shown, longitudinally and relatively to the tracker-board. These means may be of any desired form—as, for example, those shown and described in my application filed April 9, 1902, Serial No. 102,001.

The take-up spool D is mounted in the usual bearings, which are stationary. One bearing, however, may be yielding, in order that the roll may be removed. The usual mechanism may be provided for rotating the take-up roll, to wind the music-sheet upon it, and also to rewind the music-sheet upon the music-roll.

The take-up roll D is here shown as comprising a body portion *d*, a cylindrical portion *d'*, inclosing a portion of the body *d*, and flanges d^2 d^3. The cylindrical portion *d'* is loosely mounted upon the body portion and is adapted to be moved longitudinally of the body portion. It is provided with the usual hook d^4 for engaging the eye or ring usually provided on the end of the perforated music-sheet carried by the music-roll C. As here shown, the hook d^4 is integral with the portion *d'*. The cylindrical portion *d'* is also provided with a longitudinally-arranged slot d^5, into which a pin d^6 extends. One longitudinal edge of the slot d^5 is provided with a number of recesses d^7, with which the pin d^6 coacts. It will be seen that by reason of the pin d^6 and recesses the cylindrical portion *d'*, and consequently the hook d^4, may be held in any position to which it may be adjusted. The pin and recesses are brought into and out of engagement by slightly rotating the cylindrical portion *d'* on the body *d*. The flanges d^2 d^3 are also adjustable along the body *d*. The music-spool may be similarly constructed—that is to say, it may comprise a body portion, an adjustable cylindrical portion, and an adjustable flange on each side of the cylindrical portion.

What I claim as my invention is—

1. A music-roll for use in mechanical musical instruments, comprising a body portion and an adjustable hook.

2. A music-roll for use in mechanical musical instruments, comprising a body portion, an adjustable hook and an adjustable flange on each side of the said hook.

3. A music-roll for use in mechanical musical instruments comprising a body portion, a cylindrical portion capable of movement on said body portion longitudinally thereof and flanges carried by said body portion and adjustable thereon longitudinally.

4. A music-roll for use in mechanical mu-

sical instruments, comprising a body portion, a cylindrical portion provided with a hook adjustable longitudinally of said body portion, means for holding said cylindrical portion in its adjusted position comprising a pin carried by the body portion and recesses formed in the cylindrical portion, and flanges carried by said body portion.

5. A music-roll used in mechanical musical instruments comprising a body portion, a cylindrical portion capable of movement in said body portion longitudinally thereof, means for holding the cylindrical portion in its adjusted position on the body comprising a projection carried by the body portion, and a plurality of recesses with which said projection is adapted to engage, and flanges carried by said body portion and adjustable thereon longitudinally.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANCIS LINCOLN YOUNG.

Witnesses:

OWEN WARD,

CLARENCE R. CONRÉS.