

(No Model.)

J. CRANNELL.

REPEATING CHECK FOR MUSIC SHEETS OF MECHANICAL MUSICAL
INSTRUMENTS.

No. 379,887.

Patented Mar. 20, 1888.

Fig. 1.

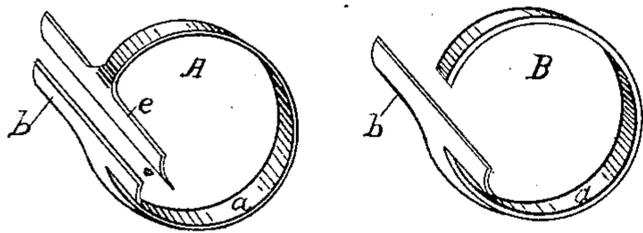
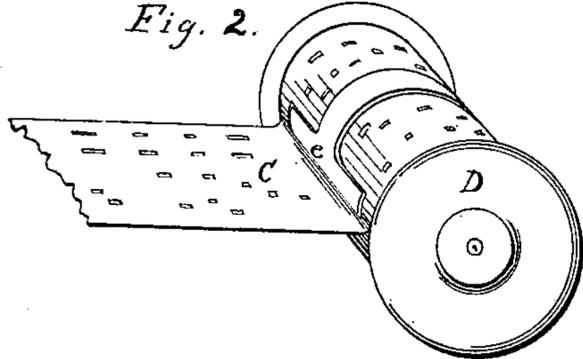


Fig. 2.



WITNESSES:

L. M. Bartlett.
A. P. Vandewater.

INVENTOR,

Jesse Crannell.

BY

W. A. Bartlett

ATTORNEY.

UNITED STATES PATENT OFFICE.

JESSE CRANNELL, OF TROY, NEW YORK.

REPEATING-CHECK FOR MUSIC-SHEETS OF MECHANICAL MUSICAL INSTRUMENTS.

SPECIFICATION forming part of Letters Patent No. 379,887, dated March 20, 1888.

Application filed October 8, 1887. Serial No. 251,830. (No model.)

To all whom it may concern:

Be it known that I, JESSE CRANNELL, residing at Troy, in the county of Rensselaer and State of New York, have invented certain new and useful Improvements in Repeating-Checks for Music-Sheets of Mechanical Musical Instruments, of which the following is a specification, reference being had therein to the accompanying drawings.

10 In the accompanying drawings, Figure 1 is a perspective view of two of the repeating-checks, the first having two check-bars and the second having a single check-bar; and Fig. 2 is a perspective showing a perforated
15 music-sheet partly wound upon a roller to which the repeating-check is applied.

In a mechanical musical instrument which is operated by means of a perforated music-sheet the music-sheet is wound from a delivery-roll
20 onto a take-up roller, and then rewound from the take-up roller onto its spool or delivery-roller. It is often the case that the music sheet or strip is sufficiently long to contain several tunes, and to commence playing at the beginning of
25 any tune, except the first on the sheet, it is necessary to first wind that part of the sheet which precedes the tune onto the take-up roller. The desired tune is then played. If
30 it is then desired to rewind this tune quickly to repeat it, the operator is liable to rewind more of the sheet than that which contains the tune, and thus render it difficult to adjust the sheet again to commence at the beginning of the proper tune. To avoid this difficulty I
35 use a clamp to prevent the sheet from unwinding farther than the beginning of the desired tune. This clamp I call a "repeating-check," which may be made and applied in different
40 ways to the roller and sheet to prevent the sheet unwinding from the roll beyond a predetermined and adjusted limit.

The gist of the invention is the application of a clamp or stop to the music-roll at the beginning of a tune or passage to be repeated, so
45 that the roll cannot be unwound beyond such check unless it is removed.

A simple and cheap form of my repeating-check is shown in Fig. 1. It consists of a ring
50 of thin spring material open at one side, and having at one or both ends a bar at right angles to the plane of the ring. The ring being

open at one side and being made of thin and very flexible spring material, can be easily applied to rolls differing in diameter, or the music-roll having more or less of the music-sheet wound upon it, as D, in Fig. 2, in which
55 *a* represents the spring-ring and *e* the clamping-bar. The bar *e* is made long enough to prevent the sheet from tearing if subjected to a sudden jerk when checking the rewind. Two
60 bars, *b* and *e*, may be used, if desired, as represented in the first example, A, of Fig. 1.

In constructing this repeating-check I either stamp out from a single piece of spring material the entire device, the spring and bar being
65 in one piece, and then bend the spring to shape, or I make the spring and bar separately and attach them together.

This check can be used either on the delivery-roll or on the take-up roll, as the case may
70 require. When used on the delivery-roll, its object is to limit the playing at a desired place to stop, and if used on the take-up roll it is to limit the rewind at a desired place in the music-sheet. That portion of the sheet which
75 is not clamped to the roller by the ring is wound onto the roller outside the ring and bar. The material of the ring and bar being very thin, however, does not materially disturb the regular winding of the roll of music.
80

What I claim as my invention is—

1. The combination, with the music-sheet roller of a mechanical musical instrument and a music-sheet therefor, of an adjustable check applied to the roll to prevent the music-sheet
85 from unwinding beyond a limit determined by the adjustment of the check.

2. A check consisting of a ring of elastic material, as *a*, having a clamping-bar, as *e*, for application to a mechanical music sheet roll,
90 substantially as and for the purpose specified.

3. A check consisting of a ring of elastic material, as *a*, and having two clamping-bars, as *e* and *b*, substantially as and for the purpose
95 specified.

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

JESSE CRANNELL.

Witnesses:

JOHN P. ALBERTSON,
SAMUEL P. McCLELLAN.