

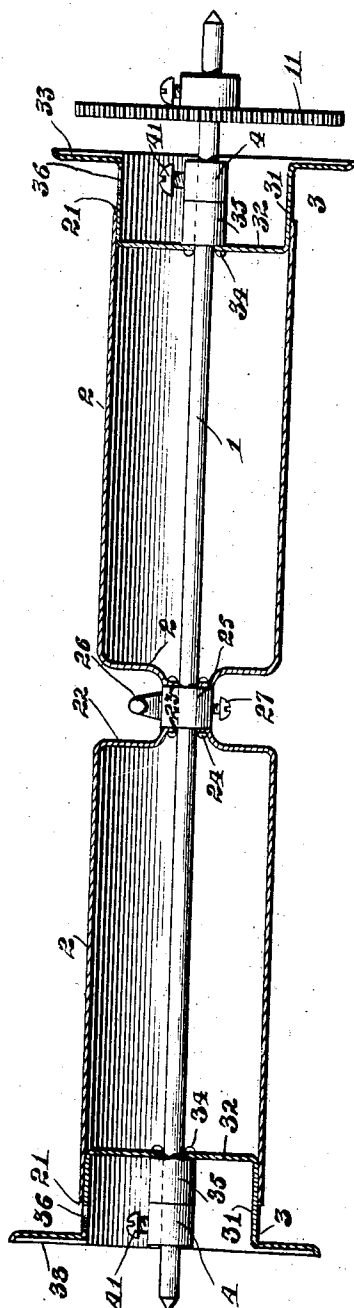
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F. L. WOOD.

TAKE-UP ROLL FOR PERFORATED MUSIC SHEETS.

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Attest:

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UNITED STATES PATENT OFFICE.

FREDERICK L. WOOD, OF WORCESTER, MASSACHUSETTS, ASSIGNOR
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OF CONNECTICUT.

TAKE-UP ROLL FOR PERFORATED MUSIC-SHEETS.

No. 813,607.

Specification of Letters Patent.

Patented Feb. 27, 1906.

Application filed June 17, 1905. Serial No. 265,659.

To all whom it may concern:

Be it known that I, FREDERICK L. WOOD, a citizen of the United States, and a resident of Worcester, Massachusetts, have invented certain new and useful Improvements in Take-Up Rolls for Perforated Music-Sheets; of which the following is a specification.

My invention relates to rolls such as are used on pianola-pianos and similar mechanical musical instruments and mechanical players for musical instruments, and particularly to the take-up roll onto which the music-sheet is wound during the playing of the instrument.

It provides means whereby the roll may be longitudinally adjusted, so that the perforations in the music-sheet may be accurately registered with the ducts in the tracker.

It further provides means for adjusting the heads or ends of the roll to allow for different widths of music-sheets or for variations in the width of the music-sheet.

It further provides an economical and durable roll having other obvious advantages.

In the drawing, 1 designates a central shaft, shown as provided with a gear-wheel 11, which forms a part of the mechanism by which the roll is turned for winding the music-sheet thereon.

2 2 are tubular shells having their outer ends 21 open and their inner ends 22 formed with inturned annular flanges 23, the flanges 23 being secured, as by rivets 24, to a central collar 25, which carries the hook 26, by which the music-sheet is connected and which is also provided with a set-screw 27 for securing the tubular core formed of the shells 2 on the shaft 1.

At each end of the roll is a flanged head 3, shown as having cylindric walls 31, an inner end wall 32, and an out-turned flange 33 at its free end. The wall 32 is pierced to pass over the shaft 1 and is secured, as by rivets 34, to a collar 35, which may have a sliding fit on the shaft 1. The cylindric portion 31 of the head 3 is adapted to fit snugly within the open end 21 of the shell 2. Adjacent to the ends of the shaft 1 are collars 4, provided with set-screws 41 for securing them in position on the shaft

1. As shown, the cylindric wall 31 of each head 3 is provided with an aperture 36 for the insertion of a screw-driver or like tool by which the set-screws 41 may be turned.

The operation of the device will be clearly understood from an inspection of the drawing. It will be seen that the core formed of the shells 2 is longitudinally adjustable on the shaft 1, so as to bring the music-sheet, which in operation is wound upon the core, in exact alinement with the tracker of the instrument. (Not shown.) It will also be seen that the heads 3, which have frictional engagement either with the shaft 1 or shells 2, or both, may be longitudinally adjusted to adapt the roll to sheets of different widths, so as to correctly guide the music-sheet in being wound on the roll, and that the heads 3 when in proper position are secured from accidental outward movement by means of the collars 4.

The parts shown may be advantageously made of metal, the shells 2 and heads 3 being drawn from sheet metal.

It is obvious that various mechanical changes may be made in parts of the device without departing from the invention; but the form shown is the preferred embodiment of the invention.

I claim—

1. A roll for music-sheets comprising a central shaft, a tubular core, the interior diameter of which is considerably greater than the diameter of said shaft so as to be spaced away therefrom, and a head at each end of said core, said core and each of said heads being mounted on said shaft for longitudinal adjustment independently of each other.

2. A roll for music-sheets comprising a central shaft, a tubular core, the interior diameter of which is considerably greater than the diameter of said shaft so as to be spaced away therefrom, a head at each end of said core, said core and each of said heads being mounted on said shaft for longitudinal adjustment independently of each other, and independent means for securing each of said last-named parts on said shaft.

3. A music-roll comprising a central shaft, a tubular core, the interior diameter of which is considerably greater than the diameter of said shaft, said core being longitudinally adjustable on said shaft, and a hollow head on said shaft, said core and said head being constructed and fitted to pass one within the other.

4. A roll for music-sheets comprising a central shaft, and a tubular core the interior di-

ameter of which is considerably greater than the diameter of said shaft, said core being concentric with and longitudinally adjustable on said shaft, said tubular core having a reduced portion intermediate of its ends and a set-screw for engaging said shaft.

5. A roll for music-sheets comprising a central shaft, a tubular core longitudinally adjustable on said shaft, and tubular flanged heads of sheet material on said shaft entering the outer ends of said core.

6. A roll for music-sheets comprising a central shaft, a tubular core longitudinally adjustable on said shaft formed of two tubular shells having their inner ends inturned to form annular flanges, a collar to which said inner ends are secured, and means for detachably securing said collar on said shaft, and flanged heads at the outer ends of said shells.

7. A roll for music-sheets comprising a central shaft, a tubular core formed of two tubular shells having inner ends of reduced diameter, a collar to which said inner ends are secured and means for adjustably securing said collar on said shaft, and flanged heads on said shaft and entering the outer ends of said shells, said heads being longitudinally adjustable on said shaft independently of said core.

8. A roll for music-sheets comprising a central shaft, a tubular core on said shaft, a flanged head on said shaft and entering the end of said core and having frictional engagement with at least one of said parts, and means adjustably secured on said shaft for limiting the outward longitudinal movement of said head.

9. A roll for music-sheets having a central

tubular portion of thin sheet material, heads of like material, each having a flange and a tubular sleeve which is adjustable within the ends of said central tubular portion, and a shaft upon which said central tubular portion is secured separately from said heads.

10. In a roll for music-sheets, a central shaft, a collar adjustably secured to said shaft, a hollow shell and roll section rigidly secured to said collar and adjustable therewith and hollow flanged sleeves at each end of said shell and adjustable on said shaft.

11. In a roll for music-sheets having a central shaft, a tubular shell of sheet material having a reduced portion for connection with the shaft and an enlarged portion extending from said reduced portion, means for centering and securing said reduced portion on the shaft and flanged heads at the ends of said tubular shell.

12. In a roll for music-sheets having a central shaft, a tubular shell of sheet material having a reduced portion for connection with the shaft and an enlarged portion extending from said reduced portion, means for centering and securing said reduced portion on the shaft, said securing means being adjustable to adjust said shell longitudinally and flanged heads at the ends of said tubular shell.

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

FREDERICK L. WOOD.

Witnesses:

ARCHER T. NUTTING,
ALBERT A. WILDER.