

(No Model.)

R. W. PAIN.
ADJUSTABLE TAKE-UP MUSIC ROLL FOR MECHANICAL MUSICAL
INSTRUMENTS.

No. 601,162.

Patented Mar. 22, 1898.

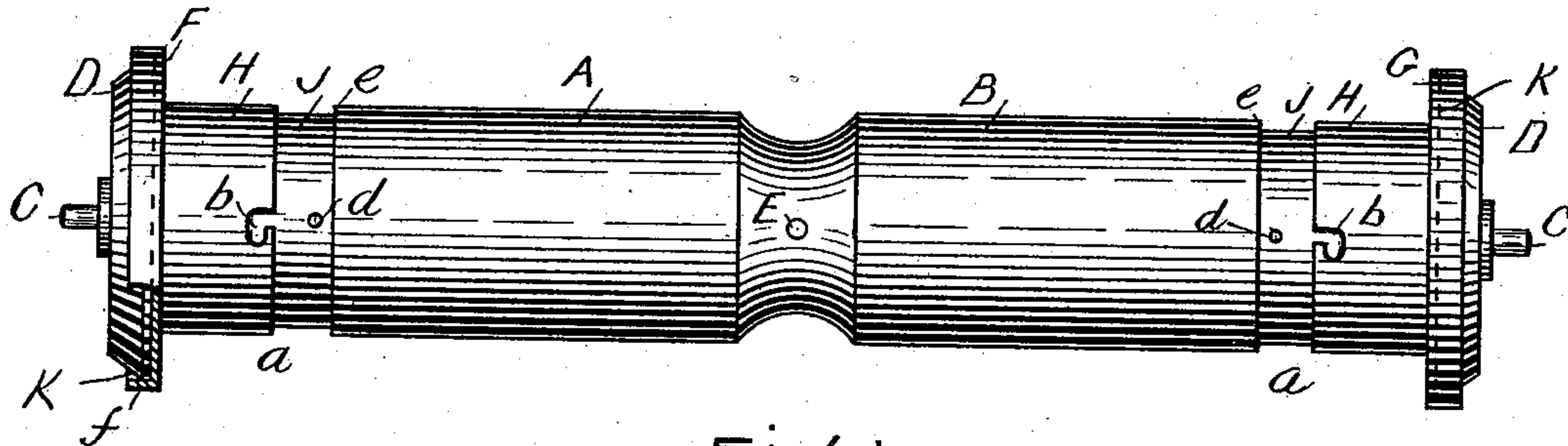


Fig. 1.

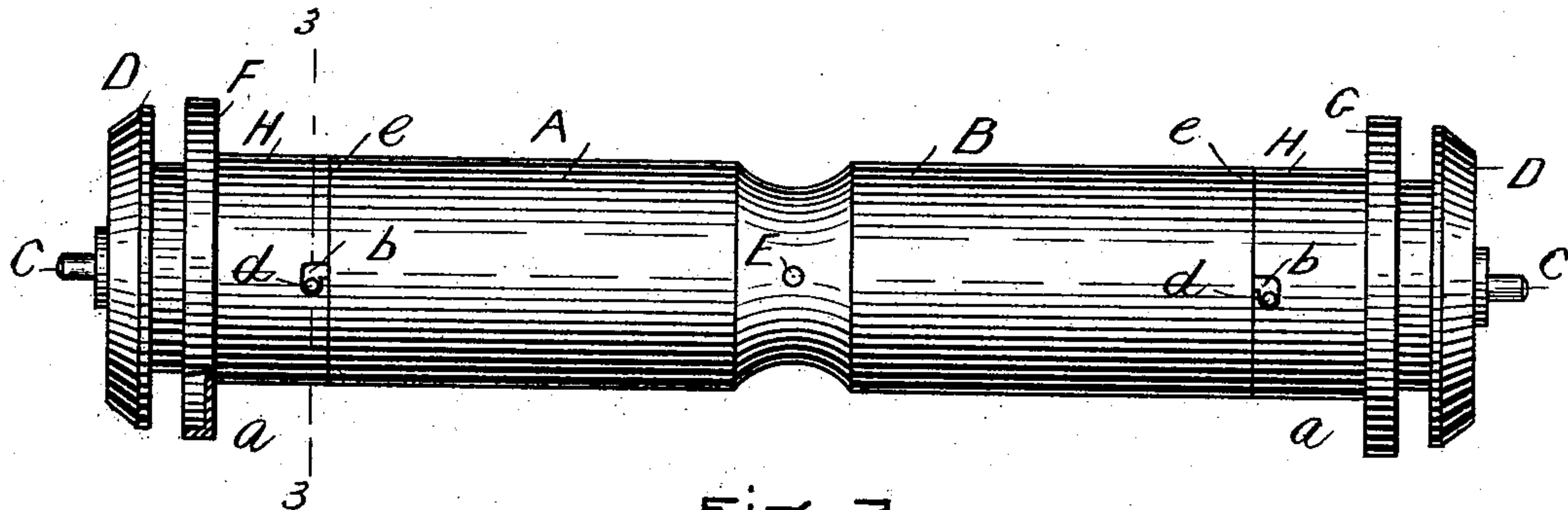


Fig. 2.

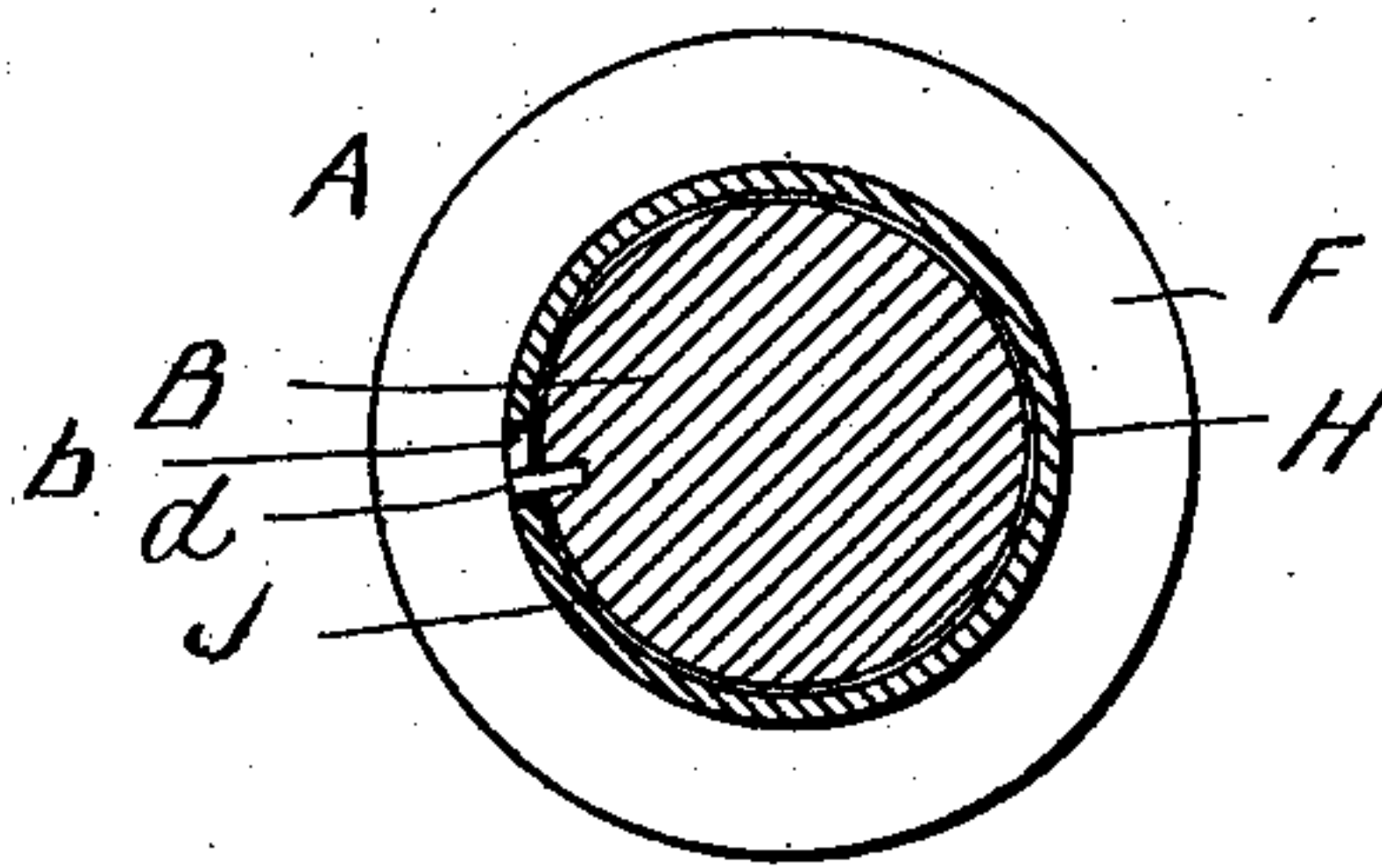


Fig. 3.

WITNESSES

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ADJUSTABLE TAKE-UP MUSIC-ROLL FOR MECHANICAL MUSICAL INSTRUMENTS.

SPECIFICATION forming part of Letters Patent No. 601,162, dated March 22, 1898.

Application filed April 12, 1897. Serial No. 631,787. (No model.)

To all whom it may concern:

Be it known that I, ROBERT W. PAIN, of New York, in the county of New York and State of New York, have invented certain
5 new and useful Improvements in Adjustable Take-Up Music-Rolls for Mechanical Musical Instruments, of which the following is a full, clear, and exact description.

The length of a music or take-up roll for
10 a mechanical musical instrument on which is wound the perforated music-sheet is the distance between the flanges or two heads of the music-roll, which distance is determined by the width of the perforated music-sheet to be
15 wound thereon, as it is preferable and necessary for the practical and satisfactory guiding and winding of the perforated music upon the roll that the flanges be only a sufficient distance apart to freely receive between them
20 the music-sheet as it is wound thereon in order to control the laying of the music-sheet properly on the roll; and the object of this invention is to provide a take-up music-roll for mechanical musical instruments that can be adjusted longitudinally, especially as to the distance between the two flanges or heads of the roll, in a simple and practical manner, so that
25 different widths of perforated music-sheets can be wound thereon and be disposed properly within the space between the two heads or flanges; and the invention consists of a take-up music-roll for a mechanical musical instrument constructed and arranged so it can be adjusted as to length for the proper
30 reception of different widths of perforated music-sheets for such instrument.

Figure 1 is a side view of the take-up roll adapted to receive a perforated music-sheet of the full width of the length of the roll.

40 Fig. 2 is a side view of the take-up roll adapted to receive a perforated music-sheet of less width than the music-roll shown in Fig. 1. Fig. 3 is a cross-section on line 3 3, Fig. 2.

45 In the drawings, A represents a take-up music-roll for a mechanical musical instrument on which the perforated music-sheet is wound as the instrument is being played formed of a spindle B, having journal-pins C, flanged permanent heads D, and a central
50 pin E for securing the perforated music-

sheet by its end to the roll-spindle, all as usual in take-up music-rolls for such instruments and needing no more particular description herein. F G are two other heads
55 between the permanent heads and adapted to be moved within certain limits along the spindle B of the roll by means of each being secured to a separate sleeve H, which freely fits over a portion J of the spindle at each
60 end, of a little less diameter than the body of the spindle on which the sleeve slides, and each sleeve is provided at its end *a* with an angular groove *b*, adapted to fit over, when in position therefor, a pin *d*, secured to the
65 side of the spindle, and to be locked thereto by turning the sleeve in proper direction, as shown at *e* in Fig. 1, substantially in the manner of a bayonet-joint.

Each movable head on its outer side has a
70 recess or depression K of a diameter large enough to fit over the permanent head nearest thereto to partially extend over the head when in position therefor, as shown at *f* in Fig. 1 more particularly.

75 In the position of the two movable heads F G, as shown in Fig. 2, the take-up roll is adapted for a narrow width of music-sheet to fit in between the two movable heads and properly wind upon the roll; but when desir-
80 ous of making the roll suitable to receive the wider music-sheet the two movable heads F G are turned so as to unlock their sleeves, with their respective pins *d*, and moved from each other to the outer ends of the roll, which
85 makes the roll of proper length to receive the wide music-sheet, as shown in Fig. 1, the permanent heads preventing farther movement outward of the movable heads by their abutment against them. Thus by this arrange-
90 ment the take-up roll is adapted to be practically changed from a long to a short one, and vice versa, and thus adapted to receive and have wound thereon a corresponding
95 wide or narrow music-sheet.

Although the invention is described and shown for only two different widths of perforated music-sheets, obviously by having a longer reduced portion J of the take-up roll and two or more angular slots *b* of different
100 lengths the roll can be adapted to receive other widths of music-sheets.

The permanent heads can be dispensed with, using the movable heads alone, which can be adapted to move over the spindle portion and secured at any desired position thereon in any suitable manner for the different widths of music-sheets. It is preferable, however, to have a permanent head on each end, the movable heads between them operated substantially as described.

10 The movable heads can be arranged in any suitable manner to be moved along the spindle and to be secured thereto when in position, although it is well to have some means by which it can be done quickly, conveniently, 15 and without much trouble, substantially as is herein described and shown. Heads are necessary for these music-rolls in order that the music-sheet will be properly wound thereon. There need be only one movable head, 20 which might answer in some cases, although it is preferable to have two in order to keep the various widths of perforated music-sheets that may be used in the same central longitudinal line in the instrument.

25 Having thus described my invention, what I claim is—

1. A take-up music-roll for a mechanical

musical instrument, consisting of a spindle, a head at each end, a sleeve at each end adapted to be moved back and forth along 30 the spindle and to be locked in position thereon, a head secured to each sleeve, a depression or recess in the outer side of each sleeve-head adapted to fit over the permanent head of the roll nearest thereto.

35 2. A take-up music-roll for a mechanical musical instrument, consisting of a spindle, a head at each end, the spindle reduced in diameter part way from each head, a sleeve at each end adapted to freely fit the reduced 40 portion of the spindle at its respective end and to be moved back and forth and to be locked in position thereon, a depression or recess in the outer side of each sleeve-head adapted to fit over the permanent head of the 45 roll nearest thereto.

In testimony whereof I have hereunto set my hand in the presence of two subscribing witnesses.

ROBERT W. PAIN.

Witnesses:

OWEN WARD,
C. R. COMÉS.