

917,661.

F. C. ROBERTS.
MUSIC RECORD GUIDE.
APPLICATION FILED MAY 18, 1908.

Patented Apr. 6, 1909.

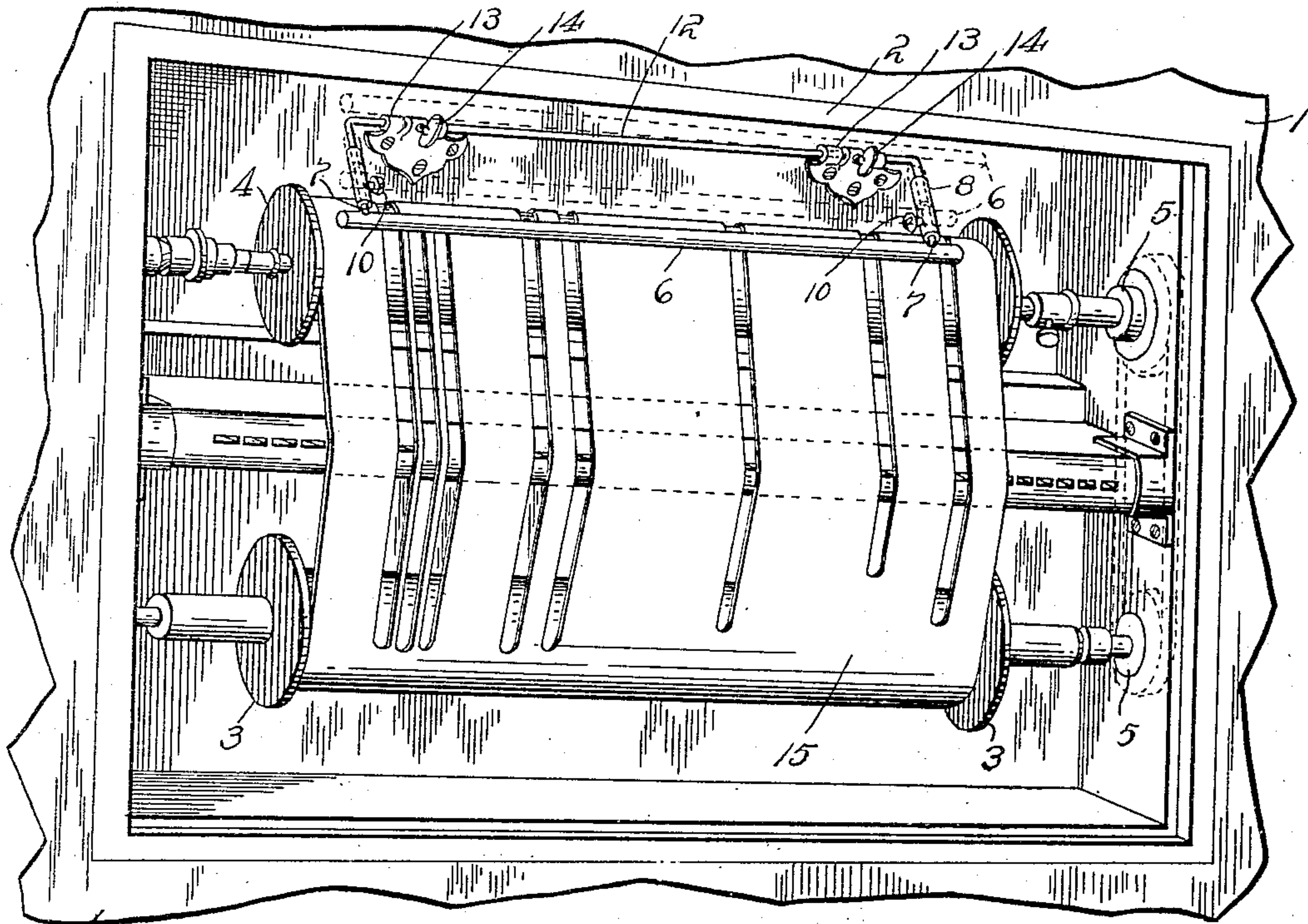


Fig. 1.

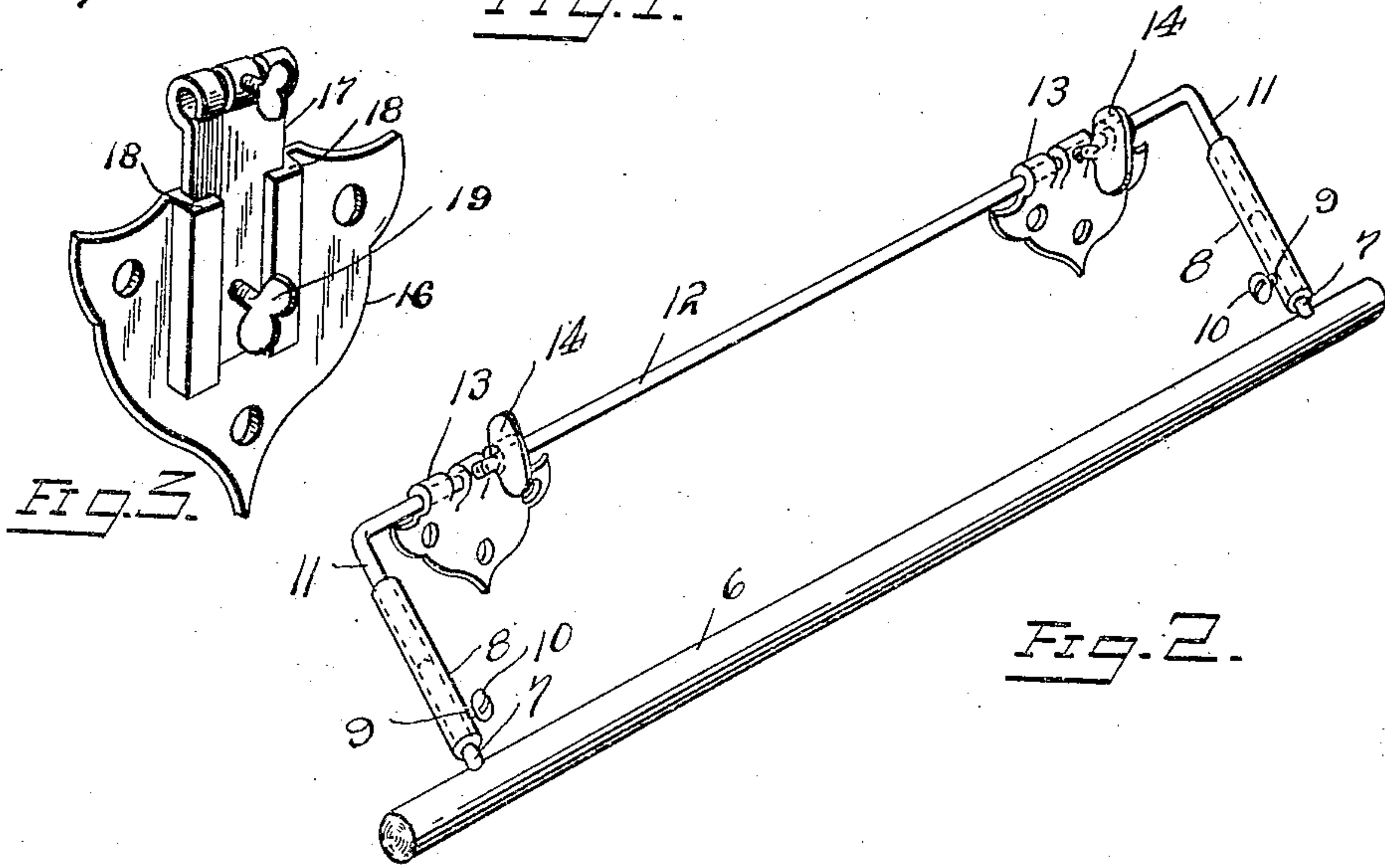


Fig. 2.

WITNESSES:
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ATTORNEYS

UNITED STATES PATENT OFFICE.

FERDINAND C. ROBERTS, OF DETROIT, MICHIGAN.

MUSIC-RECORD GUIDE.

No. 917,661.

Specification of Letters Patent.

Patented April 6, 1909.

Application filed May 18, 1908. Serial No. 433,474.

To all whom it may concern:

Be it known that I, FERDINAND C. ROBERTS, a citizen of the United States of America, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Music-Record Guides, of which the following is a specification, reference being had therein to the accompanying drawings.

10 In winding the records used in mechanical pianos; pianolas or the like, difficulty is found in keeping the flexible band, which constitutes the record and is usually of paper or like material liable to injury, 15 smooth and feeding it to the roll with even tension.

This invention relates to a record guide adapted for use on any instrument of the class or type mentioned, which maintains a 20 constant tension on the record as it is being wound.

The invention consists in the matters hereinafter set forth, and more particularly pointed out in the appended claims.

25 In the drawings, Figure 1 is a view in perspective of the roll case of a pianola or the like, showing the tracker board, feed roller and rewinding roll, with the driving mechanism indicated, together with a record 30 guide embodying features of the invention. Fig. 2 is a view in detail of the guide itself. Fig. 3 is a view of an adjustable bearing.

Referring to the drawings, 1 indicates a casing inclosing the tracker board 2 of a 35 pianola or like instrument, the record or rewinding roller 3, and feed roll 4, together with the usual roll driving spindles or journals 5, all of standard type permitting the removal, if desired, of the record roller. In 40 practice these spindles are rotated positively by any suitable mechanism as by sprockets and chain indicated by the dotted lines at the casing end.

The guide comprises a smooth rounded 45 bar 6 having an arm 7 near each end longitudinally adjustable in tubular sockets 8, set screws 9 with hand burs or butterfly heads 10 clamping the parts in adjusted position. The sockets are secured in the parallel 50 outbent ends 11 of a rod 12 rotatable parallel to the rolls in hinge or bearing brackets 13 suitably fastened to the casing above the roll spindles 5. Thumb screws 14 in the hinges may be used to clamp the bar

in raised position indicated by the dotted 55 lines, when it is desired to remove or replace the record roll. Otherwise it rests on the record strip 15 just before it comes into the record roll when being removed, its weight causing it to smooth out any narrow 60 strips between elongated sound holes or slots, and likewise to prevent the paper overrunning, which otherwise would occur owing to the positive drive connections of the feed and rewinding rolls, which rotate 65 them at constant speed ratio while the varying diameters of the rolls as the record is shifted from one to the other, cause the record strip to oftentimes buckle up, when the feed roll is larger than the rewinding 70 roll. This is prevented by the guide which retards the paper and keeps an even tension on it. Obviously, a spring or weight with means to adjust it may be used to vary the 75 tension.

As indicated in Fig. 3, the bearing brackets may consist of a base 16, adapted to be fastened to the casing 1 permanently, with a hinge plate 17 longitudinally adjustable in parallel guide flanges 18 therein, a 80 clamping thumb-screw 19 binding it in adjusted position in axial alinement with the rolls.

The device is simple and is readily applied to any instrument. Its details of construction 85 may be varied without departing from the spirit of the invention and I do not limit myself to any particular form or arrangement of parts.

What I claim as my invention is:— 90

1. The combination of the record winding rolls, tracker board and casing therefor of a self playing piano or the like with a pair of alined bearings brackets secured to the casing parallel to the rolls, a pivot rod 95 journaled therein having outturned parallel ends, and a presser bar adjustably secured to the rod ends adapted to ride on a record strip passing from roll to roll over the traction board. 100

2. The combination of the record winding rolls, tracker board and casing therefor of a self-playing piano or the like with a pair of alined bearing brackets secured to the casing parallel to the rolls, a pivot rod journaled 105 therein having outturned parallel ends, a presser bar, and parallel arms thereon adjustable longitudinally on the rod ends said

bar being adapted to ride on a record strip passing from roll to roll over the tracker board.

3. The combination of the record winding rolls, tracker board and casing therefor of a self-playing piano or the like with a pair of aligned bearing brackets secured to the casing parallel to the rolls, a pivot rod journaled therein having outturned parallel ends, a presser bar, parallel arms thereon adjustable longitudinally on the rod ends, said bar being adapted to ride on a record strip passing from roll to roll over the tracker board, and thumb screws in the brackets adapted to clamp the rod rigidly in the brackets.

4. The combination of the record winding rolls, tracker board and casing therefor of a self playing piano or the like with a pair of bearing brackets consisting of bases secured to the casing and hinge plates adjustably secured thereon, a pivot rod journaled therein having outturned parallel ends, and

a presser bar adjustably secured to the rod ends adapted to ride on a record strip passing from roll to roll.

5. The combination of the record winding rolls, tracker board and casing therefor of a self playing piano or the like with a pair of bearing brackets consisting of bases secured to the casing and hinge plates adjustably secured thereon, a pivot rod journaled therein having outturned parallel ends, a presser bar, parallel arms thereon adjustable longitudinally on the rod ends, said bar being adapted to ride on a record strip passing from roll to roll over the tracker board, and thumb screws in the brackets adapted to clamp the rod rigidly in the brackets.

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

FERDINAND C. ROBERTS.

Witnesses:

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