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H. A. YEIDER

2,063,573

RECORD HOLDER FOR GRAPHOPHONES

Original Filed Sept. 18, 1930

2 Sheets-Sheet 1

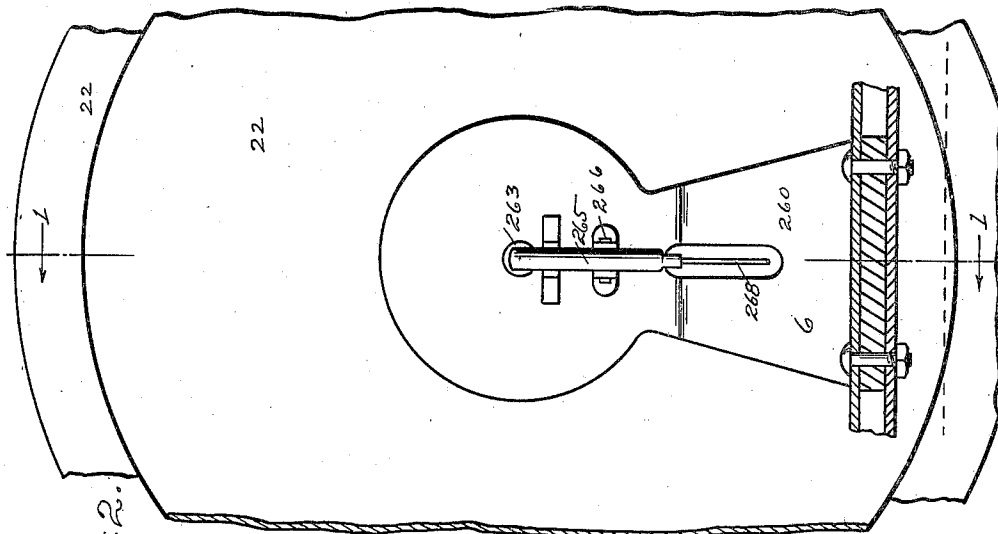


Fig. 2.

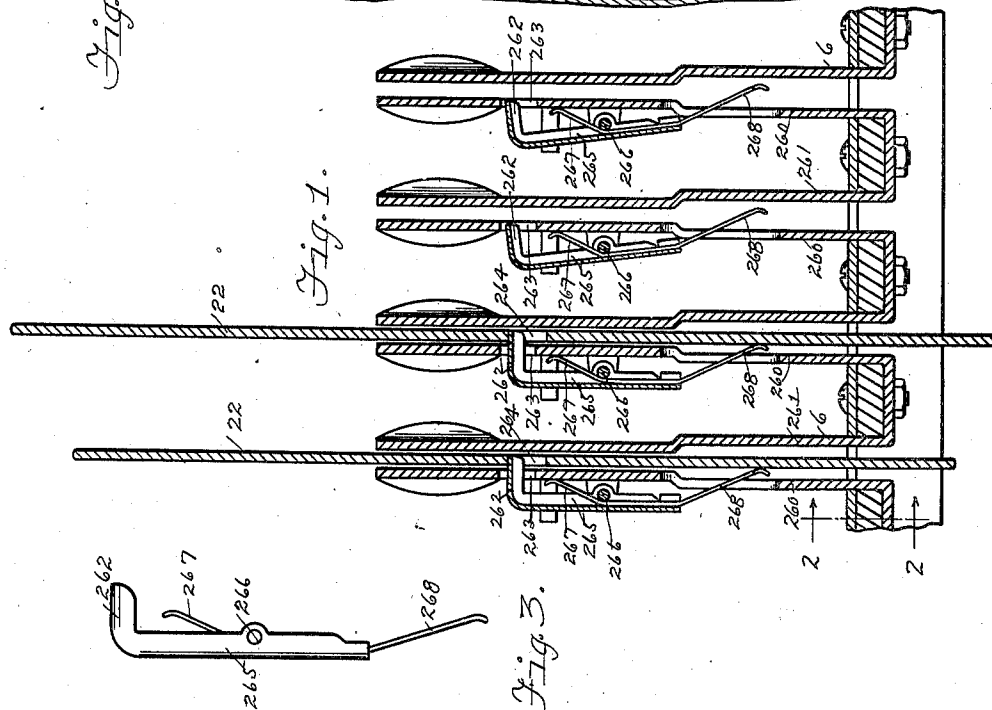


Fig. 1.

Fig. 3.

Witness:
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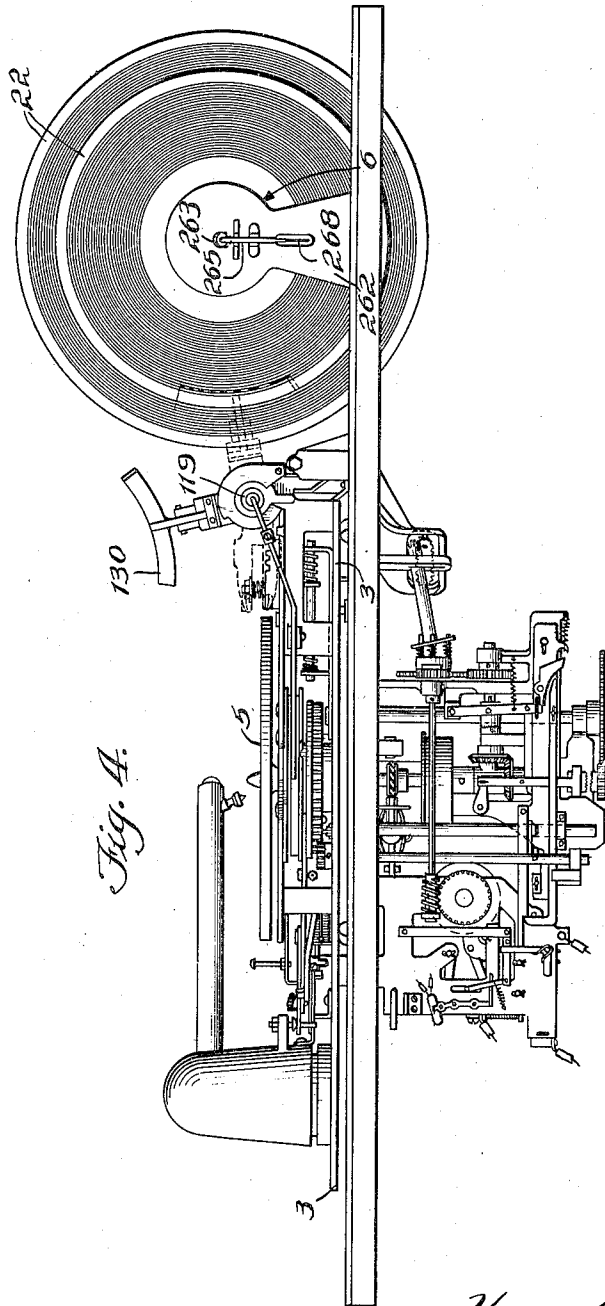
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2 Sheets-Sheet 2



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RECORD HOLDER FOR GRAPHOPHONES

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gan

Original application September 18, 1930, Serial
No. 482,662. Divided and this application
September 2, 1933, Serial No. 687,964

5 Claims. (Cl. 274—1)

The present invention relates to graphophones or sound-reproducing instruments, and particularly to record holders for such mechanisms as are shown in my copending application, Serial Number 482,662, filed September 18, 1930, of which this application is a division. Its object is, generally, to provide an improved holder for disk records to be used with said instrument; and more particularly, to provide such a holder wherein disk records of different diameter may be held; and further, to provide such a holder wherein the disk records are supported by an element movable into and out of the central hole of the record; and further, to provide such an element spring-pressed into said hole by the engagement therewith of the record inserted into the holder.

These and any other and more specific objects hereinafter appearing are attained by, and the invention finds preferable embodiment in, the graphophone record holder particularly described in the body of this specification and illustrated by the accompanying drawings, in which:—

Figure 1 is a vertical sectional view of a holder for disk records, with records therein and operating parts, taken on line 1—1 of Figure 2;

Figure 2 is an elevational end view of portions thereof, partially sectioned on line 2—2 of Figure 1;

Figure 3 is a side view of a record-supporting element of said holder; and

Figure 4 is a side elevation of the graphophone, showing the relation of the record holder of the present invention to the graphophone.

The record disks 22 are held in cooperative relation with a swinging transfer arm 130. In the operation of the machine, as more fully described in said application, a platform 3 is moved to place the transfer arm 130 opposite the desired one of the records 22. The arm 130, rotatably mounted on a horizontal shaft 119, is then swung to the right to engage the record. The arm picks up the record; swings it over to the left to deposit the record on the turntable 5; releases and leaves the record on the turntable until the playing is completed; then reengages the record; in a reverse, clockwise movement, returns the record to the magazine; again releases it and returns to the normal position.

The records disks 22 (of larger and smaller diameters) are held in the record holder designated generally 6 with their central holes in registry with each other. This record holder, as shown in Figure 1, comprises a plurality of compartments—one for each record disk—formed by

spaced upright plates 260, 261 receiving the record disk therebetween.

A finger 262 is moved laterally through an aperture 263, formed in the one plate 260, and engaged in the center hole 264 of the record automatically when the record is inserted, so that the records are supported on the fingers. The fingers are formed at right angles on the upper ends of vertically disposed, sheet metal rock-levers 265 which are pivotally mounted on transverse pins 266, one of which is fixedly mounted on the outer surface of each of the plates 260.

On the under side of each lever 265 is secured a spring 267 which has an inwardly bent portion extending above the pivot pin 266 and pressing against the plate 260 so that, normally, the lever is rotated to withdraw the finger, as shown in the two compartments at the right side of Fig. 1.

The spring extends downward and forms a resilient tail portion 268 which operates through a suitable aperture in the plate and extends into the record receiving space between the plates 260 and 261.

Thus when a record is inserted downwardly between the pairs of plates, the edge of the disk strikes the tail 268 and deflects it so that a pressure is exerted to rotate the lever to project the finger inwardly and enter the center hole when the hole registers with the finger.

The lower sides of the end of the fingers are beveled so that in withdrawing the record by pulling it upwardly, the finger is cammed out of the hole and thus automatically releases the record.

Thus, by mounting the plates and fingers in alignment, the records are supported with their center holes in registration; and the records may be easily inserted or withdrawn with one movement, being latched or unlatched automatically.

I claim:

1. In a graphophone instrument, a record holder comprising: a pair of laterally spaced upright plates one of them having an opening there-through; a lever fulcrumed on said plate having a record-supporting arm longitudinally movable in said opening and into and out of the central hole of a disk record between the plates.

2. A record holder comprising a pair of spaced upright plates, one of them having openings therethrough, a lever pivotally mounted on said plate intermediate its ends having a finger at one end movable in one of said openings and into and out of the central hole of a disk record between the plates, and the other end of the lever having a spring abutting it and extending

through another opening in the plate and between the plates in the path of a record inserted in the holder to move the said finger into the hole of the disk record.

- 5 3. A record holder comprising a pair of spaced upright plates, one of them having openings therethrough, a lever pivoted on said plate having a finger at one end which operates through one opening in the plate for engaging in the center hole of a record, a spring for normally rotating the lever to withdraw the finger and the spring having a resilient tail portion abutting the opposite end of the lever and extending through another opening in the plate for engagement by a record to rotate the lever and move the finger into the center hole of the record as it is being inserted in the holder.

- 10 4. A record holder comprising a pair of laterally spaced upright plates, one of them having an opening therethrough; a lever fulcrumed on said plate having a record supporting arm longitudinally movable in said opening and into

and out of the central hole of a disk record between the plates; and spring means engaging the lever tending to withdraw the arm from the opening.

- 5 5. In a graphophone instrument, a record holder comprising a pair of laterally spaced upright plates, one of them having openings therethrough; a lever fulcrumed on said plate between the openings having a record supporting arm movable into one of said openings and into and out of the central hole of a disk record between the plates; and spring means engaging the lever and tending to press the said arm out of its opening, the said spring also abutting the other end of the lever and extending through another opening into the path of a record inserted between the plates to move the lever against the spring into the central hole of the disc inserted between the plates.

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