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APPARATUS FOR STORING, RECORDING, SELECTING, AND DELIVERING PHONOGRAPH RECORDS AND OTHER ARTICLES

Filed May 16, 1928

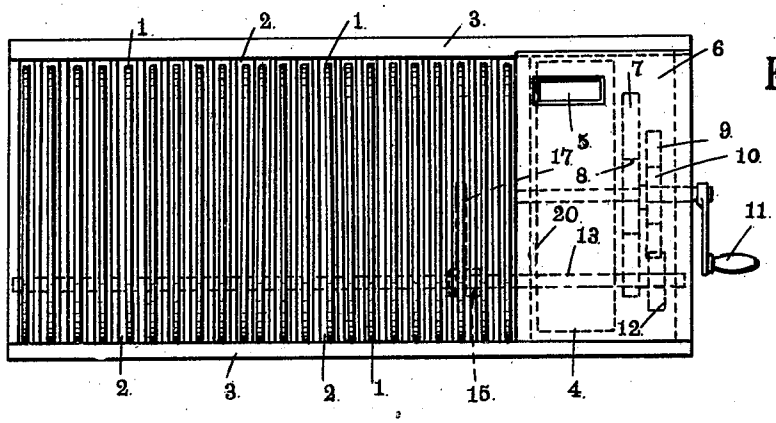


Fig. 1.

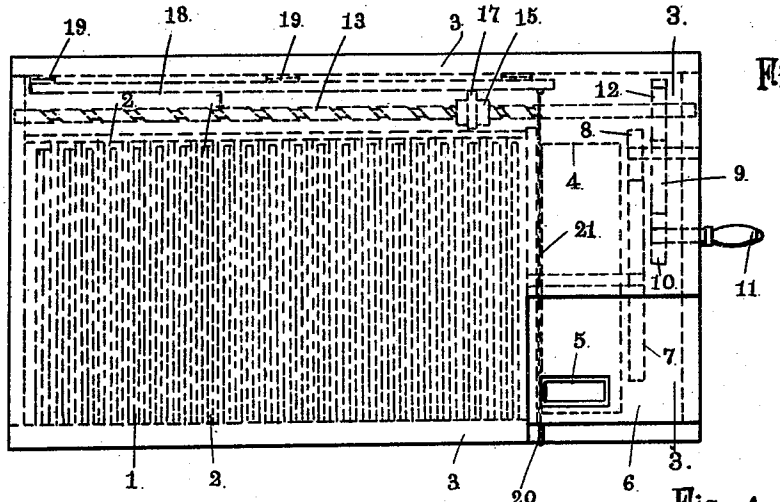


Fig. 2.

Fig. 3.

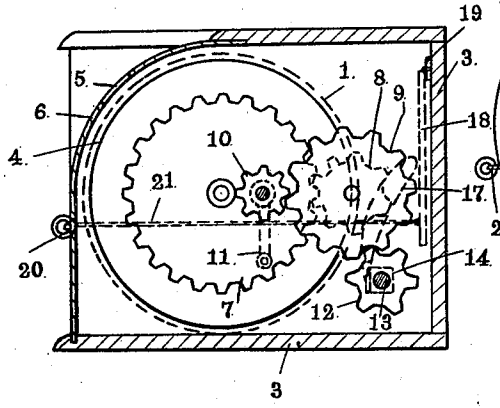
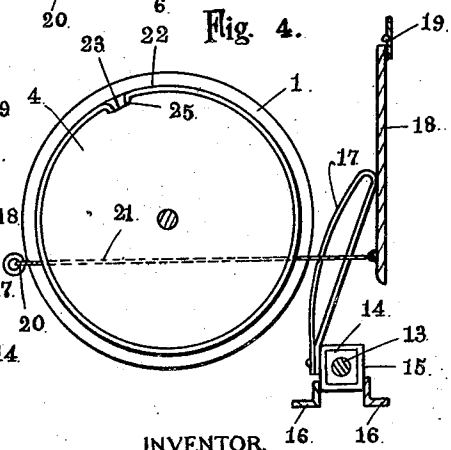


Fig. 4.



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UNITED STATES PATENT OFFICE

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APPARATUS FOR STORING, RECORDING, SELECTING AND DELIVERING PHONOGRAPH RECORDS AND OTHER ARTICLES

Application filed May 16, 1928, Serial No. 278,215, and in Australia March 27, 1928.

My invention provides apparatus for the storage and indexing of disc records for phonographs and other articles and for selecting and delivering any one thereof without interfering with the others.

According hereto a rotatably mounted indexing cylinder carries a sheet of paper, or the like, upon which the titles of phonograph records or names of other articles to be stored and delivered are indexed in circumferential columns.

In the case of phonograph discs having a record upon each side, both titles are used in juxtaposition.

The cylinder has a longitudinal slot with wedges for securing the ends of the index paper therein, and is located within a cabinet or the like having a window through which one of said titles or names is visible.

The discs are independently stored in a row of storage cells and in the same order as the titles upon the index.

Rotation of the cylinder by means, such as hereinafter described, causes horizontal traverse of a selecting block carrying an ejector.

A suspended swing rail contacts when swung forward, with the ejector and causes it to push from its cell the particular disc record to which the ejector is at the time opposite.

In the accompanying drawings:—

Fig. 1 is a front elevation, and

Fig. 2 a plan;

Fig. 3 an end sectional elevation on 3—3 Fig. 2;

Fig. 4 an end sectional elevation on a larger scale.

The phonograph record discs 1 are stored one in each of the vertical storage cells 2 arranged in a horizontal row within the casing 3.

A rotatably mounted indexing cylinder 4 bears in circumferential columns the titles of the disc records in the order in which the discs are located and upon rotation of the cylinder the titles become visible in succession through a window 5 in the casing 6.

A spur wheel 7 fixed upon the end of the cylinder is driven by a pinion 8 which turns with a spur wheel 9 in mesh with a pinion 10 rotatable by a turning handle 11.

A pinion 12 in mesh with wheel 9 is fixed upon the end of a leading screw 13 passing through a nut 14 fixed upon a selecting block 15 which slides between guides 16 and is traversed in either direction by rotation of the screw.

Upon the selecting block is secured an ejector 17 formed preferably of spring ribbon steel of width which permits its easy entrance to the cell.

A swinging rail 18 suspended by hinges 19 from the back of the casing may be drawn forward by a pull handle 20 to which it is connected by a connecting rod 21 and thereby caused to contact with the ejector which pushes the disc to which it is opposed out of the cell in which it is contained.

The resiliency of the ejector causes it to return to its normal position.

Referring more particularly to Fig. 4 the cylinder 4 has a longitudinal slit 25 in which the ends of the index paper 22 are wedged by the rubber wedges 23.

The mechanism and parts are so proportioned and disposed that when the index cylinder has been rotated sufficiently to bring into view a particular title upon the index the selecting block has been simultaneously traversed the distance required to bring the spring ejector opposite the cell containing the disc record corresponding with the title.

I claim:—

1. Apparatus for the purpose indicated comprising in combination a casing, vertical partitions dividing it into a plurality of cells adapted to contain phonograph records, an index cylinder disposed within the casing and adapted to bear the titles of said records, means for rotating the cylinder, a selecting block with means for traversing it coincidentally with the rotation of the cylinder whereby it may be brought into correspondence with any one of the cells, a spring ejector fixed to the selecting block, and a swing rail hinged within the casing with means for operating it whereby it may be brought into contact with said spring ejector as specified.

2. In apparatus for the purpose indicated

the combination of a casing, vertical partitions dividing it into a plurality of cells adapted to contain phonograph records, an index cylinder disposed within the casing and adapted to bear the titles of said records, a toothed wheel upon the end of the cylinder, a pinion in mesh therewith, a spur wheel rotatable with the pinion, a pinion in mesh with said spur wheel, a handle by which it is rotated, a second pinion in mesh with said spur wheel, a leading screw upon which the last mentioned pinion is fixed, a selecting block traversed by the rotation of the screw whereby it may be brought into correspondence with any one of the cells, an ejector fixed upon the selecting block and a swing rail hinged within the casing with means for operating it whereby it may be brought into contact with said ejector as specified.

3. In apparatus for the purpose indicated the combination of a casing, a rotatable index cylinder disposed therein and adapted to bear the titles of phonograph records, means for rotating the cylinder, a selecting block, means for traversing said block coincidentally with the rotation of the cylinder, a spring ejector fixed upon the selecting block, a swing rail hinged to the casing and adapted when operated to contact with the spring ejector, and means for operating said swing board as specified.

4. In apparatus for the purpose indicated in combination a casing, vertical partitions dividing it into a plurality of cells disposed in a row, a selecting block, means for traversing the block behind the cells, a spring ejector fixed upon the selecting block, a swing rail hinged to the casing and adapted when operated to contact with the spring ejector and means for operating said board as specified.

In testimony whereof I have signed my name to this specification.

VICTOR WILLIAM LONGFORD.