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CABINET OR HOLDER FOR DISK RECORDS AND THE LIKE.
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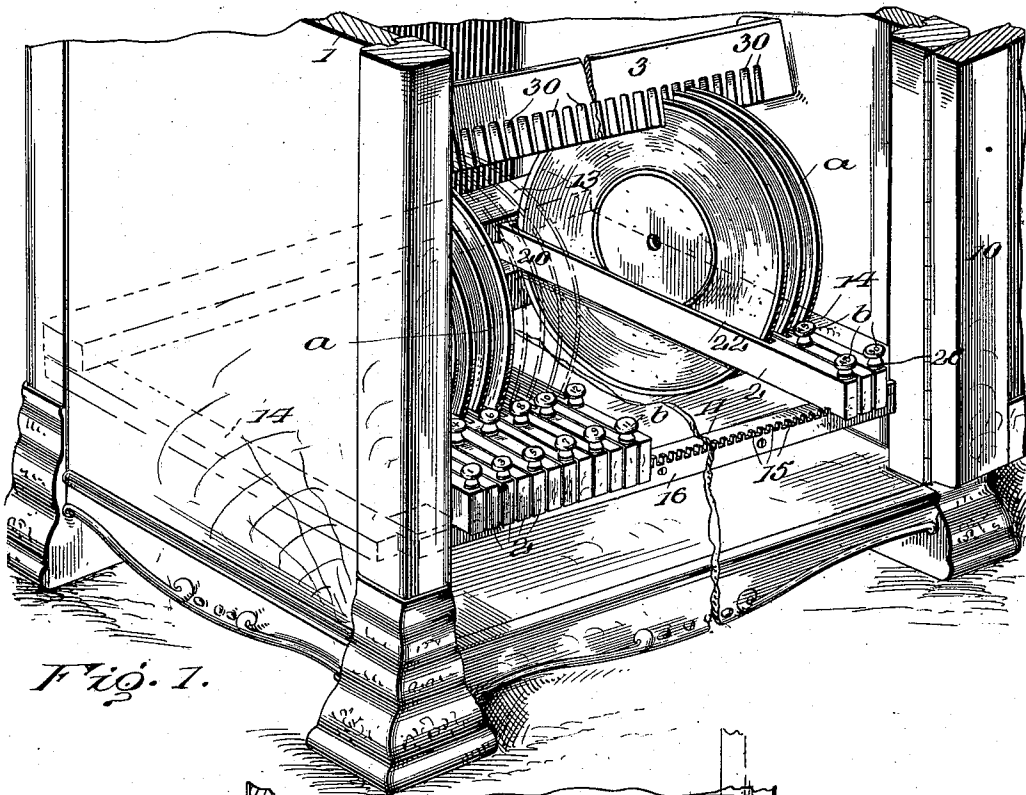


Fig. 1.

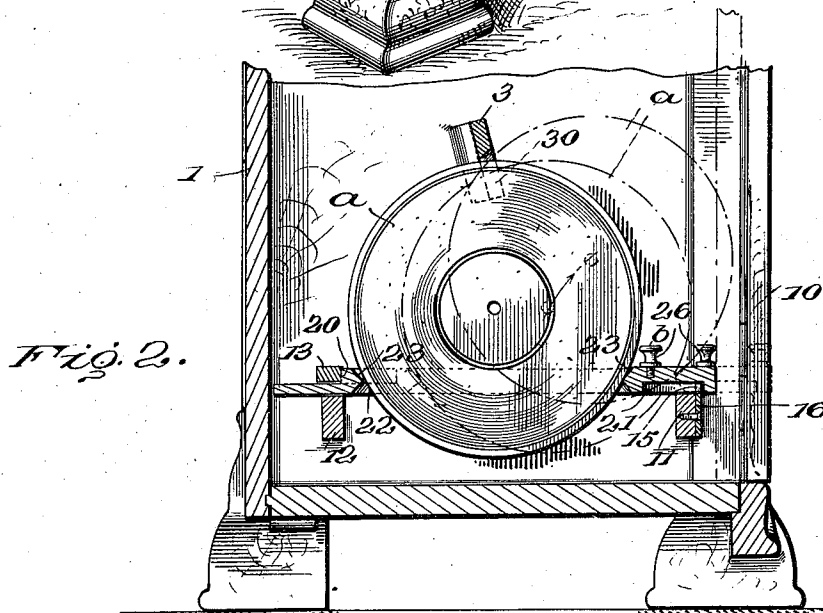


Fig. 2.

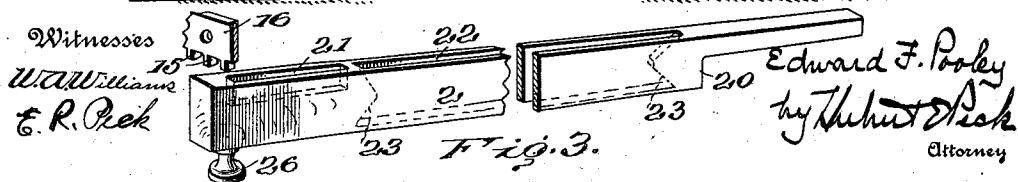


Fig. 3.

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CABINET OR HOLDER FOR DISK RECORDS AND THE LIKE.

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To all whom it may concern:

Be it known that I, EDWARD F. POOLEY, a citizen of the United States, residing at New York city, county of New York, State of New York, have invented certain new and useful Improvements in and Relating to Cabinets or Holders for Disk Records and the Like; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to certain improvements in and relating to cabinets or holders for disk records and the like; and the objects and nature of the invention will be readily understood by those skilled in the art in the light of the following explanation of the accompanying drawings illustrating what I now consider to be my preferred embodiment from among other formations and arrangements within the spirit and scope of my invention.

An object of the invention is to provide improved means for receiving and holding a number of disk records, or similar objects, in such manner that the records will be individually carried and readily accessible so that any record can be easily and quickly identified and removed independently of the remaining records and can be as readily restored to its proper holder and position.

A further object of the invention is to provide means for storing or inclosing a plurality of disk records, or the like, embodying series of individual supports for the records, one support for each record, each support being independently movable to and from position to deliver and receive its record, each support being provided with visual means for indicating or identifying the record carried thereby.

A further object of the invention is to provide a holder for disk records and the like, slotted to hold the record therein in an upright or vertical position and movable to and from delivery position to permit the record to be lifted therefrom or dropped thereinto.

A further object of the invention is to provide certain improvements in arrangements of parts and details of construction whereby a highly efficient and improved cabinet for disk records, and the like, will be produced.

The invention consists in certain novel features in constructions and in combinations and arrangements as more fully and particularly pointed out and specified hereinafter.

Referring to the accompanying drawings;—Figure 1, is a perspective view showing a disk record cabinet embodying my invention, the cabinet being partially broken away, the door being shown in opened position and partially broken away, a number of disk holders and disks being shown in normal position in the cabinet, the remaining holder being removed to show parts which would be otherwise hidden. Fig. 2, is a vertical section through the cabinet, the cabinet being partially broken away, the door being shown in opened position in full lines and in closed position by dotted lines, dotted lines indicating one of the holders with its disk, in withdrawn or delivery or receiving position. Fig. 3, is a detail perspective of one of the holders in reversed position and partially broken away, a portion of the toothed plate being also shown in reversed position.

In the drawings, 1, is any suitable cabinet or housing having an open front and any suitable means for closing the front. For instance, I show a hinged door 10, for closing the open front of the cabinet. Within this housing and behind said door and front opening, I arrange a row of closely arranged separate holders for disk records, or other disk-like articles or objects. The holders usually extend from front to rear of the housing and are usually horizontally arranged in parallelism, and are independently movable so that any holder can be moved out, when the door is open, to separate its disk from the remaining disks whereby said disk can be readily removed from or placed in said withdrawn or advanced holder.

Various means and arrangements can be provided for supporting the holders. For instance, in the example illustrated, I show a front rail or cross bar 11, fixed in the housing in rear of the front door, and a rear rail or cross bar 12, also fixed in the housing a distance in advance of the rear wall of the housing. A cross bar 13, is also fixed in the housing parallel with the rear bar 12, and arranged above the same and spaced a distance therefrom to form a guard or stop

as hereinafter recited. If so desired, parallel side strips 14, can be provided along the housing sides and secured to the ends of said several rails and extending from front to rear.

In the particular example illustrated, each disk holder consists of a slide at its front end portion resting on the front rail 11, and at its rear portion resting on the rear rail 12, and arranged under the stop bar 13; said slides being supported by said rails and traversing the top edges thereof in sliding adjustment, while the stop bar 13, confines the rear ends of the slides down to normal operative position on the rails, and can also serve to limit the rearward movement of the holder slides. To this end, I show the rear ends of the holder slides reduced to pass under the stop bar and to form the rearwardly facing shoulders 20, to engage the front edge of said bar and thereby limit the rearward movement of said slides.

Various means can be provided for spacing the front ends of the holders or maintaining the same in the desired relative arrangement and vertical planes. For instance, I show a series of fixed vertical pins 15, projecting upwardly above the horizontal plane of the top edge of the front rail and entering longitudinal grooves 21 in the bottom edges of the front end portions of the holders, respectively. One pin 15, is provided for each holder, and the spacing of the pins determines the spacing of the front ends of the holders. The grooves or slots 21, loosely receive the pins to permit the holders to freely slide on the pins, and the sliding or reciprocating movement of the holders can be determined and limited by the length of the grooves so that the outward movement of a slide will be limited by the engagement of the end wall of its groove with the fixed pin entering said groove. If so desired, the inward movement of the slides can be also thus determined and limited instead of by the shoulders 20. The pins 15, can be formed and secured in any desirable manner. For instance, I show a metal plate 16, secured to the front edge of the front rail and carrying said upwardly projecting fixed pins.

In the example illustrated, the various holders are all alike in dimensions and formation, and each consists of an elongated comparatively thin or narrow straight bar 2, having parallel flat longitudinal side faces, and a longitudinal slot 22, extending vertically through the bar and opening through its top and bottom longitudinal edges and terminating at stop seats or shoulders 23, forming the end walls of the slot. This slot is of a width to vertically somewhat snugly receive the disk record (a) to be held by the holder and is of a length to permit a substantial portion of the record to extend through and depend below the holder with

opposite portions of its edge resting on the shoulders 23, whereby the record is upheld in the holder, while the flat vertically wide sides of the holder, forming the side walls of the slot, hold the disk in a vertical upright position in the holder, and against substantial lateral tilting. Any suitable number of these closely arranged parallel holders can be arranged in a row. For instance, I often arrange fifty such holders in a row, adapted to carry fifty records. To provide means whereby the disk record carried by each holder can be identified and indicated without pulling forward the holder and removing and examining the record carried thereby, I provide each holder with a visible indication *b*, usually located at the upper portion of the front end thereof. For instance, I show the holders numbered consecutively from "1" on up to the total number in the row. An index can then be prepared giving the titles of the various records and the indicating numbers of the holders carrying such records. This index will thus indicate the particular holder carrying any particular record desired. Such holder can thus be readily located, and then drawn forward to advance its disk to an accessible position beyond the row of closely adjacent disks, and where the disk can be easily lifted from the holder. After being used, the disk can be readily dropped back into the slot in the holder and the holder then pushed back to normal position in the cabinet.

As means to afford finger holds or handles, whereby the holders can be readily pulled forward to delivery position, I show knobs 26, secured on the top edges of the front ends of the holders, and if so desired, these knobs can bear the indicating numbers. Also if so desired, these knobs can be arranged on the rows of holders to break joints, that is, every alternate knob is arranged near the outer extremity of its holder, and the intervening knobs a distance inward from the outer ends of the holders about equal to the range of longitudinal movement of the holders. By providing this arrangement, the finger when engaging a knob and pulling forward a holder will not move past and engage the knobs of the two immediately adjacent holders.

If so desired, means can be provided for guiding and spacing the top or upper portions of the closely adjacent disk records in the holders, and holding the records down in the holders when in their normal rearward positions. For instance, I show a fixed elevated cross bar 3, arranged a distance above the row of holders, and having a corresponding series of transverse usually tapered notches or slots 30, one slot for each holder, each slot being in line with or in the vertical plane of the disk receiving slot of its corresponding holder to receive the top edge

portion of the disk record carried by such holder when in normal rearward position. The depending fingers formed by the slots 30, extend between the side faces of the upper portions of the disks and hold the disks spaced apart and against lateral tilting, while the bar 3, forms a stop above the long row of disks, preventing movement of any disk from its holder while the holders are in their normal rearward positions.

The door 10, when closed is arranged to engage, or about engage, the front ends of the holders and hold and lock the same against forward movement. By this arrangement, it will be noted that the disks will be separately held and spaced in the holders and against movement therefrom, or therein, when the door is closed, even though the cabinet be tilted or reversed so that the cabinet can be moved and transported without damage to the load of records carried thereby.

When the door is opened, any holder can be drawn forward to delivery position, advancing the record carried thereby from its locked position beneath the elevated slotted or fingered locking and spacing bar, so that the record can be readily grasped by the fingers and lifted from its holder without disturbing the remaining holders and records carried thereby. The emptied holder is allowed to remain in its advanced position, to indicate the particular holder in which the record belongs and to readily receive the record. The fingered elevated bar also serves as means to guide the records when being placed in the advanced holders. However, I do not wish to limit all features of my invention to the provision of a notched or fingered bar to form separating and spacing as well as guiding means for the upper portions of the disks as other arrangements might be provided for this purpose.

It is evident that various changes, modifications and variations might be resorted to, and that features or elements might be omitted without departing from the spirit and scope of my invention as defined by the claims, and hence I do not wish to limit myself to the exact disclosures hereof.

What I claim is:—

1. Means for holding a series of closely and vertically arranged independently-carried record disks in a horizontal row, comprising a cabinet having cross bars, a row of closely arranged parallel individual disk holders mounted on and slidable transversely of said cross bars and maintained in a common horizontal plane, and means whereby said holders are confined and limited to independent sliding movement to and from normal and disk delivering positions.

2. In combination, supporting and confining means, a series of elongated slides each formed to vertically and longitudinally re-

ceive a disk and maintain the same in upright position, each slide being independently movable longitudinally, and means for spacing the disks carried by the slides.

3. Means for holding record disks, comprising a row of independent, movable, closely-arranged, parallel, disk-carrying bars, and supporting and confining means maintaining said bars when in normal position in a common horizontal plane and in an elevated position to permit the disk carried thereby to depend therefrom, said bars being independently movable to and from normal and disk delivering positions, each bar being straight and longitudinally elongated and intermediate its length having an elongated single-disk-receiving socket opening vertically therethrough and having end disk supporting walls and side disk upholding walls, the disk resting on said end walls by gravity and depending from and extending above said bar.

4. Means for holding a series of record disks, comprising a row of parallel closely-arranged individual-disk holders, each consisting of an elongated bar having a vertical socket arranged longitudinally thereof and opening vertically therethrough to vertically receive a disk and uphold and carry the same in upright position, said bars being independently movable to and from normal and disk delivering positions, and end supports common to all of said bars and arranged at the front and rear portions thereof and between which the disks carried by the bars depend.

5. Means for holding a series of record disks vertically disposed and closely adjacent, comprising a series of independent parallel bars each having a disk-receiving slot opening vertically therethrough and arranged longitudinally thereof and terminating short of the ends of the bar to form disk supporting ends walls, the side walls of the slot adapted to uphold the disk in vertical position, said bars being separately and independently movable to and from normal and disk delivering positions, the ends of said bars extending forwardly in advance of said slots and provided with handles projecting upwardly from the top edges thereof, the handles of alternating bars being arranged out of line with the handles of the intervening bars.

6. In combination, supporting means, a series of slides formed to carry disks in vertical positions, each slide being independently movable to and from normal and disk delivering positions, and a cross bar arranged above the row of upright disks carried by the slides when in normal position and provided with guide fingers depending between the upper portions of the disks, each slide on being moved to disk delivery position carrying its disk forward beyond

operative relation with respect to said bar but retaining the same in operative relation with respect to said fingers.

7. A disk record cabinet, comprising supporting means, a series of parallel bars, each having a vertical socket formed to vertically receive a disk, said socket arranged longitudinally of the bar with side and end stops therein to maintain and uphold a disk in upright position, said bars being longitudinally slidable independently of each other to and from normal and disk delivering positions, and means limiting the sliding movement of said bars.

8. Means for holding a series of record disks, comprising a row of parallel individual-disk-holding slides, and means supporting and confining said slides in a row and rendering them independently and longitudinally slidable to and from normal and disk delivering positions.

9. Means for holding a series of record disks and for delivering any disk from the series, comprising a row of independent, manually-movable, closely-arranged, parallel, individual-disk carrying holders each formed to vertically receive and support a disk in upright position, said holders be-

ing separately and independently movable to and from normal and disk delivering positions, each holder provided with means whereby the same can be manually moved to delivering position and whereby the same can be manually moved from delivering position to normal position, and supporting and confining means for said holders maintaining each holder in the delivering position when moved thereto and until manually moved therefrom to the normal position.

10. In combination in a disk cabinet, cross supports, a series or horizontally disposed disk holding slides supported by and slidable on said supports, said slides being confined to said supports and slidable longitudinally and independently of each other and having longitudinal grooves, and a series of fixed vertical pins projecting into said grooves to guide the slides in their sliding movement.

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

EDWARD F. POOLEY.

Witnesses:

W. F. WAGNER,
W. S. PRICE.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."