Aug. 13, 1940. H. E. HUSSEY 2,211,425

AUTOMATIC PHONOGRAPH

Filed May 14, 1938 4 Sheets-Sheet 1

Fig. 1.

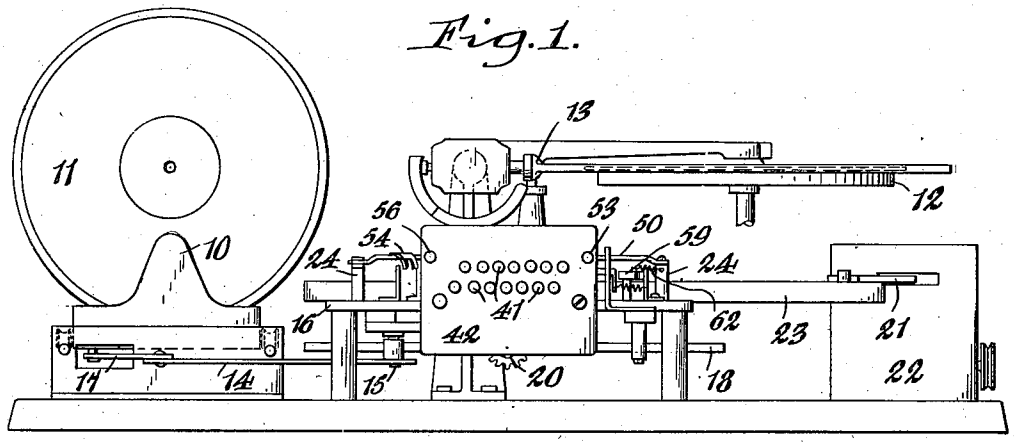
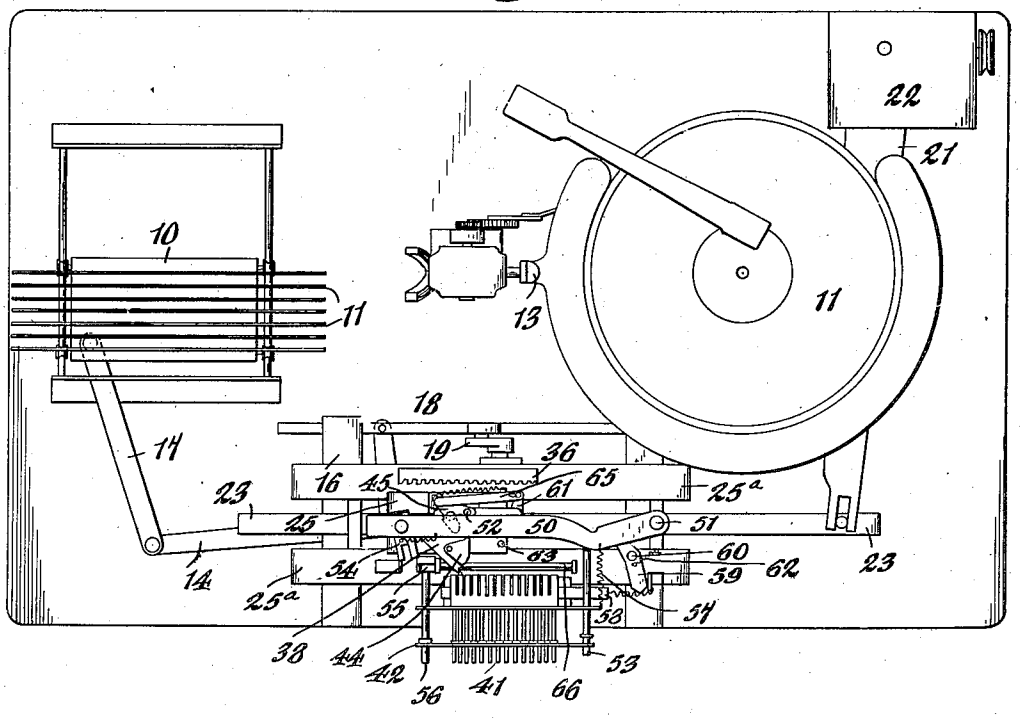


Fig. 2.



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AUTOMATIC PHONOGRAPH

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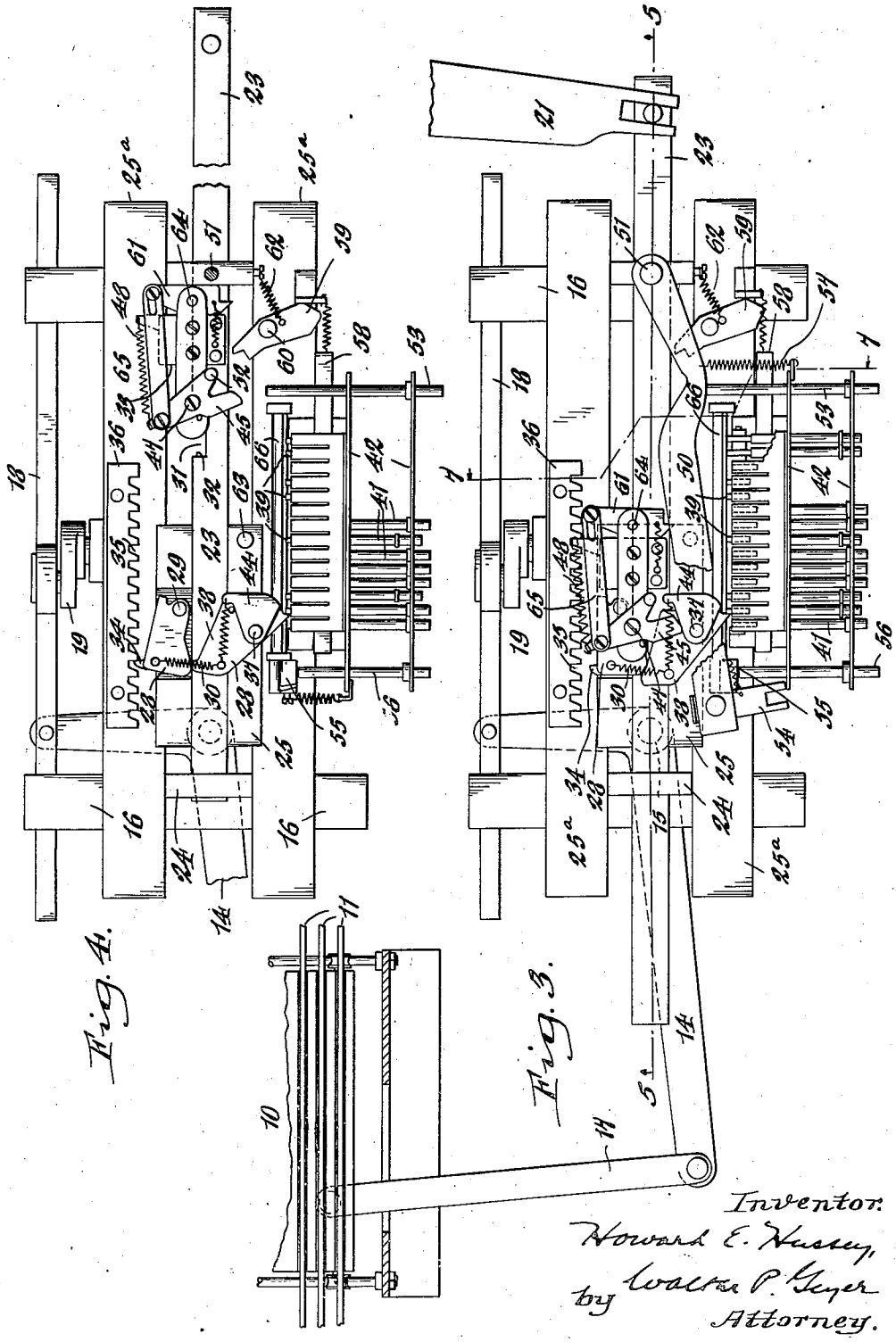


Fig. 4.

Fig. 3.

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AUTOMATIC PHONOGRAPH

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Fig. 5.

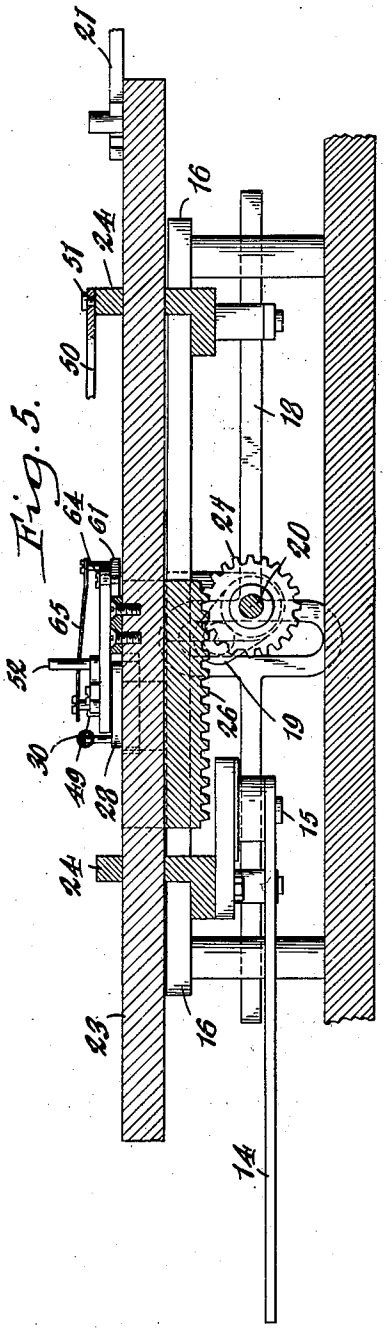
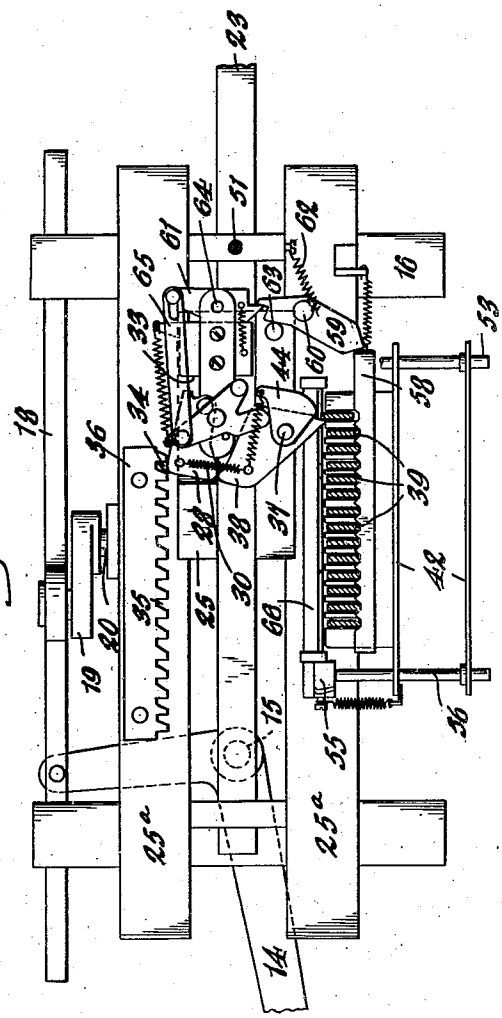


Fig. 6.



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Aug. 13, 1940. H. E. HUSSEY 2,211,425

AUTOMATIC PHONOGRAPH

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Fig. 7.

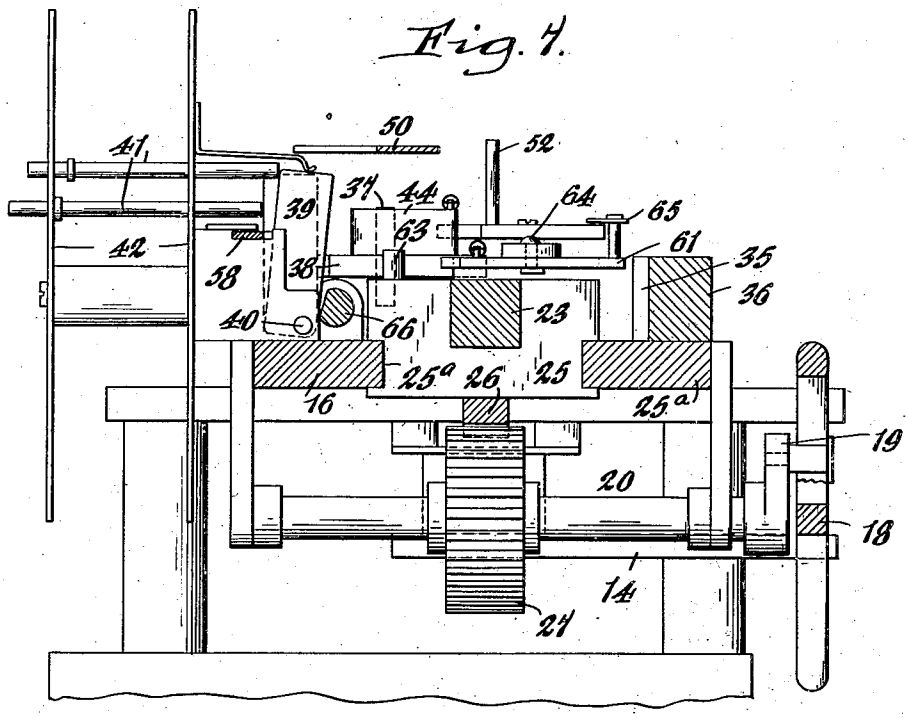


Fig. 9.

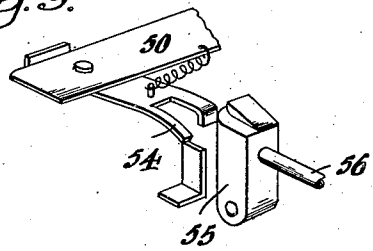


Fig. 8.

Fig. 10.

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Patented Aug. 13, 1940

2,211,425

UNITED STATES PATENT OFFICE

2,211,425

AUTOMATIC PHONOGRAPH

Howard E. Hussey, Elkhart, Ind., assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y., a corporation of Ohio

Application May 14, 1938, Serial No. 208,008

16 Claims. (Cl. 274—10)

This invention relates generally to automatic phonographs but more particularly to a selecting mechanism therefor.

It has for one of its objects to provide a selective mechanism for automatic phonographs which is so designed and constructed as to simultaneously select a plurality of records at one time and to thereupon effect the playing of such plurality of selected records in predetermined sequence.

Another object of the invention is to provide a selector mechanism including means for effecting its adjustment to repeat any record desired without disturbing any other selections which may be also desired and which were previously pre-selected.

A further object is the provision of means for automatically setting the selector mechanism for playing the records successively in rotation.

A still further object of the invention is to provide a multi-selector mechanism for automatic phonographs which is simple and compact in construction and reliable in operation and which is adaptable to different types of record changers.

Other features of the invention reside in the construction and arrangement of parts hereinafter described and particularly pointed out in the appended claims.

In the accompanying drawings:

Figure 1 is a front elevation of a phonograph chassis showing my improved selecting mechanism associated therewith. Figure 2 is a top plan view thereof. Figure 3 is an enlarged fragmentary top plan view of the selector mechanism showing the parts in the initial stage of selective adjustment. Figure 4 is a view similar to Figure 3 showing the parts in the final stage of selective adjustment. Figure 5 is a fragmentary longitudinal section taken substantially in the plane of line 5—5, Figure 3. Figure 6 is a fragmentary top plan view showing the means for automatically setting the selector elements in selective position for playing the records in rotation. Figure 7 is an enlarged cross section taken on line 7—7, Figure 3. Figure 8 is a detailed perspective view of the driving and driven members of the selector mechanism, together with their associated parts. Figure 9 is a fragmentary perspective view of the repeat-release and cancellation control assembly. Figure 10 is a fragmentary perspective view showing the arrangement for effecting the automatic projection of several selector elements to select position.

Similar characters of reference indicate corresponding parts throughout the several views.

In its general organization this invention comprises a record-changing mechanism of appropriate construction, for example, a record magazine adapted to support a plurality of records to be played and mounted for movement to a plurality of record-selecting positions, whereby in each position of adjustment the record is adapted to be removed from the magazine and delivered to a position over the turntable for playing and, after playing, the record returned to the magazine; means for actuating the magazine to its respective selective positions; and means for selectively controlling such actuating means to predetermine a given selective position of the magazine, said controlling means including a driving member, a driven member adapted for operative engagement with the magazine-actuating means, a plurality of record-selector elements corresponding in number to the records borne by the magazine for simultaneously selecting a plurality of records to be played, and a releasable clutching or latching assembly associated with the driving and driven members and governed by said selector elements for controlling the adjustable setting of the magazine in accordance with the record selections made by the selector elements. In addition to this general structure, there is also provided means for restoring each selector element to its initial non-selecting position immediately after the corresponding selected position of the magazine has been effected, and should it be desired to repeat any given record I provide a means for preventing the restoration of each selector element to its initial non-selecting position, whereby the cycle of operations of the mechanism is repeated to accordingly select and repeat the same record. There is also provided means for automatically controlling the selection of all the records of the magazine by simultaneously projecting all of the selector elements to their operative positions at a predetermined time in the cycle of operations of the mechanism.

Referring now to the drawings showing a preferred embodiment of my invention, which is directed more particularly to a multi-selective control for automatic phonographs, the numeral 10 indicates a horizontally-movable magazine or platform supported for fore and aft movement in any appropriate fashion and adapted to support the records 11 edgewise in spaced relation, whereby the records may be delivered from the magazine to the turntable 12 and vice versa through the medium of a vertically-swinging, swiveled transfer arm 13. This record transfer mechanism forms no part of the present inven-

tion and further disclosure thereof is therefore deemed unnecessary. This magazine is adapted to be selectively positioned relatively to the transfer arm and for this purpose may be actuated by a horizontally-swinging bell crank lever 14 or the like pivoted at 15 to the supporting base 16 on which the working parts of the mechanism are mounted, said lever being connected at one end by a link 17 with the magazine 10 while its other end is connected to a connecting rod or pitman 18 actuated by a crank 19 driven by a shaft 20, whereby when said shaft is turned in one direction the magazine is shifted from an initial position to a predetermined selective position, and after the playing of the selected record and its return to the magazine is effected, the shaft is turned in the opposite direction to return the magazine to its initial position preparatory to being actuated to another selected position.

The means for selectively-controlling the actuation of the magazine to and from its selective positions of adjustment is preferably constructed as follows:

The numeral 21 indicates an actuating member which is adapted to be reciprocated in a horizontal plane from a suitable source of power indicated generally by the numeral 22 and which is connected at its free end to a selector driving member in the form of a horizontally-reciprocating bar 23 suitably guided in bearings 24 rising from the base 16. Operatively associated with this driving member and the magazine-operating shaft 20 is a driven member in the form of a sliding cross-head or block 25 guided on ways 25a in relative sliding relation with and adapted to be releasably coupled or clutched to the driving member 23 during predetermined times in its operative and return strokes to in turn transmit motion to the shaft 20 for accordingly actuating the magazine 10 to and from selective positions of adjustment. This cross-head is provided on its underside with a gear rack 26 which is adapted to mesh with a pinion 27 fixed on the shaft 20 so that when the cross-head 25 is shifted in one direction or the other motion is accordingly transmitted to the shaft and thence to the magazine. The means for releasably coupling or clutching the driven member 25 with the driven member 23 consists of a clutch dog 28 pivoted at 29 to the driven member and normally urged by a spring 30 to swing to a clutching position in a direction toward the opposing side edge of the driving member 23. In such edge the driving member has a notch 31 providing an abutment shoulder 32 with which the dog is adapted to engage for coupling the driven member to the driving member during a predetermined time of the selective or operative stroke of the latter in one direction, as when effecting the adustment of the magazine 10 to a given record-selecting position, after which time the dog is automatically released to uncouple such members to thereby arrest the further movement of the driven member 25 and permit the idle or independent movement of the driving member 25 for the balance of its stroke. At a predetermined time in the return stroke of the driving member, an abutment 33 thereon is adapted to engage the clutch dog 28 to that when the driving member notch 31 comes opposite the dog, said abutment swings said dog in a direction into coupling engagement with the driving member, whereby the driven member is returned to its initial position to accordingly return the magazine to a like position. The point of such re-coupling of the driven member with the driving member is at the selected point at which the driven member was previously released. In order to positively arrest the movement of the driven member at such time as its coupling dog 28 is released from the driving member, as well as to retain such driven member and the magazine in a selective adjusted position, the dog is provided at its outer edge with a tooth or projection 34 which is adapted to register with one or another of a longitudinal row of notches 35 formed in a bar 36 fixed to the base frame along the path of travel of the driven member, as shown in Figure 4. In the latched or clutched position of the coupling dog, seen in Figure 3, the tooth 34 thereof is disengaged from and clear of the companion notches 35 so that the dog is free to move idly with its driven member.

Pivotally mounted at 37 on the driven member 25 is a detent 38 which is operatively associated with the clutch dog 28 for selectively actuating such dog to a released position at pre-selected times in the operative stroke of the driving member to thereby uncouple the driven member from the driving member and latch the former and the magazine 10 in a given position, whereupon, through the medium of suitable control means (not shown), a given selected record is transferred by the arm 13 to a playing position and after playing returned to the magazine. This detent is connected to the dog by the spring 30 and is disposed in juxtaposition to and abuts the free end of the dog for governing its release and is adapted, in so doing, to be tripped by one or another of a plurality of individual selector elements or levers 39 disposed in a row along the path of travel of the driven member and pivoted on a common horizontal pivot rod 40 for selective, individual propection to a position in the path of travel of the detent 38. These selector elements are adapted to be selected at the will of the user and for this purpose a plurality of push rods 41 are provided which are operatively associated with the respective selector elements for propecting such elements to selective positions of adjustment. These push rods may be suitably mounted and frictionally guided in supporting plates 42 and each may be provided with a number or like identifying characteristic corresponding to a companion record contained in the magazine 10. Whenever one or more of the push rods is projected to a selective position, as shown in Figures 3 and 4, the companion selector element 39 is swung to a position in the path of travel of a tooth or projection 43 on the detent, so that during the operative stroke of the driving and driven members this detent encounters the first selected element 39 in its path, as seen in Figure 3, and accordingly trips the detent to the positions shown in Figure 4, swinging it about its pivot in a direction to release the clutch dog 38 from the notch 31 in the driving member 23, the tooth 34 of such dog at the same time interlocking with a registering notch 35 in the bar 36 to positively retain the driven member, together with the magazine, in its selected position of adjustment. During its operative stroke, the driven member, through the medium of the parts 17, 18, 19, 20, 26 and 27, actuates the magazine to a record-selecting position, such position being determined by the companion propected selector element 39.

It might be stated here, that, after the driven member 25 is adjusted to a given record-selecting position and latched in such position in the manner heretofore described, the driven member 23

continues on to the end of its operating stroke as determined by its actuating member 21. After the playing of the record and its return to the magazine 10 is effected, the actuating member 21 returns the driven member to its initial position and at a predetermined time during the stroke the driven member 25 is clutched thereto in the manner heretofore described to return the magazine to its initial position preparatory to the next selecting cycle.

Upon the driven member 25 assuming a given selective position of adjustment determined by a projected selector element 39, means are provided for restoring that selector element to its initial, inoperative or non-selecting position. To this end, I provide a restoring detent 44 pivoted on the detent-pivot 37 and adapted to be tripped at a predetermined time in the forward stroke of the driving member 23 to momentarily and smartly engage the adjoining projected selector element for restoring it to its initial position. Applied to the driving member 23 is a tappet 45 which is normally disposed to engage the restoring detent 44 at a predetermined time in the selecting cycle and swing it in the direction to restore the selector element 39 and its companion abutting push rod 41 to initial position. A spring 46 connected to the restoring detent normally urges it in its normal retracted position where it clears any projected selector elements. The tappet 45 is pivoted at 47 to the driving member and a spring 48 connected thereto normally urges it against a stop pin 49 where it is in position to actuate the detent 44 when called upon to do so.

Should it be desired to repeat a given record, means are provided for rendering the tappet 45 inoperative to restore the companion selector element 39 of that record, whereby upon the next selecting cycle of operations the driven member 25 and magazine 10 will be readjusted to the same selected position. For this purpose, I provide an actuating lever 50 pivoted at 51 which is adapted to engage a pin or projection 52 rising from the tappet 45 for swinging said tappet to a position where it will be inactive to trip the detent 44 to a restoring position. The movement of the lever 50 to a repeat position is effected by a push rod 53 guided in the plates 42, a suitable latch means 54, 55 being provided for latching the lever in such position. When it is desired to restore the lever 50 to its initial position for rendering the tappet 45 operative to restore a given selector element to a non-selective position, the latch means 54, 55 is released and for this purpose I provide a push rod 56 likewise supported in the plates 42 and functioning, when depressed, to release the latch means, a spring 57 connected to the lever 50 thereupon returning it to its initial position.

Should it be desired to effect the automatic selection of the records for playing them in rotation or successively, rather than by individual selection, I provide a means for automatically projecting the plurality of selector elements 39 to their record-selecting positions after the last record in the magazine has been played. To this end there is provided a common actuating bar 58 guided for longitudinal movement in juxtaposition to the selector elements and having teeth thereon which are adapted to register with the companion selector elements when such bar is moved in one direction to simultaneously shift such elements to record-selecting position. The movement of this bar in a direction to selectively project the selector elements to operative position is effected by a trip lever 59 pivoted at 60 in adjoining relation to one end of the bar 58, such lever being adapted to be tripped at a predetermined time in the selecting cycle by a tappet 61 mounted on the driving member 23. This trip lever is normally held by spring 62 clear of operative relation with the tappet 61 and is adapted, at a predetermined time in the adjusted movement of the driven member 25, to be projected by a pin 63 borne by the driven member to a position in the path of such tappet. By this construction, when the pin 63 projects the trip lever 59 into the path of the tappet 61, the latter swings the trip lever in a direction to actuate the bar 58 to a position to simultaneously select the several selector elements 39. In its normal position the bar 58 clears the several elements and does not interfere with their individual movements to and from selective positions.

The tappet 61 is pivoted at 64 to the driving member 23 and it is connected by a link 65 with the tappet 45 associated with the restoring detent 44, so that when the tappet 45 is projected by the actuating lever 50 to its repeat position, the tappet 61 is accordingly shifted to a position where it is ineffective to actuate the trip lever 59.

Should the user, after selecting a given record or records by depressing the push rods 41, desire to effect their cancellation, this may be effected by depressing the push rod 56 whose latch element 55 is fixed on an oscillating cam element 66 arranged in juxtaposition to the selector elements 39. By this construction, on depressing the push rod 56 the cam member is rocked in a direction to swing any of the projected selector elements 39 to their initial retracted position.

Briefly described, the operation of the selector mechanism is as follows:

Assume that the user depresses the selector push rods for playing four desired records. By this act the companion selector elements 39 are projected into a path for successively tripping the detent 38 during each selective operating cycle of the driven member 25. When so tripped the detent releases the clutch dog 28 from the driving member and at the same time latches the dog with a registering notch 35 in the bar 36, thereby arresting further movement of the driven member and retaining the magazine 10 in its proper record-selected position. Thereafter the driving member continues on to the end of its stroke during the initial portion of which stroke the detent 44 is tripped to restore the then-engaged selector element to its inoperative position, following which the transfer arm 13 picks up the selected record and transfers it to the turntable for playing. After the record is played, it is returned to the stack by the transfer arm and thereafter the driving member 23 is returned to its initial position. During such return stroke its abutment 33 projects the clutch dog 28 into the recess 31 of the driving member and causes the simultaneous return of the driven member and magazine 10 to their initial position, after which the selecting cycle is repeated to play the records selected.

I claim as my invention:

1. In an automatic phonograph, a record magazine movable to a plurality of record-selecting positions, a reciprocating driven member operatively connected to said magazine for actuating it, a plurality of record selector elements projectable to positions along the path of travel of said reciprocating member for predetermining the corresponding selective positions of said magazine, means for actuating said driven member, and releasable means applied to said re-

ciprocating member in normal coupling engagement with said actuating means and disposed for releasable engagement with a projected selector element for accordingly governing the movement of such member and the magazine to a corresponding record-selecting position.

2. In an automatic phonograph, a record magazine movable to a plurality of record-selecting positions, a reciprocating driven member operatively connected to said magazine for actuating it, a plurality of record selector elements projectable to positions along the path of travel of said reciprocating member for predetermining the corresponding selective positions of said magazine, a reciprocating driving member releasably engageable with said reciprocating driven member, and means for normally latching said members for movement in unison to actuate said magazine to and from record-selecting positions, said selector elements when projected to operative positions cooperating with said latching means to unlatch said members and arrest the movement of the driven member relative to the driving member.

3. In an automatic phonograhh, a record magazine movable to a plurality of record-selecting positions, a reciprocating driven member operatively connected to said magazine for actuating it, a plurality of record selector elements projectable to positions along the path of travel of said reciprocating member for predetermining the corresponding selective positions of said magazine, a reciprocating driving member operatively engageable with said reciprocating driven member for actuating the latter during a selecting cycle, and a releasable operating connection applied to one of the members and engageable with the other member for coupling said members to move in unison during such cycle and for uncoupling said members to permit an independent movement of the driving member relative to the driven member at another time, said selector elements when projected constituting trip elements for effecting the release of said operating connection at companion selected positions.

4. In an automatic phonograph, a record magazine movable to a plurality of record-selecting positions, a reciprocating driven member operatively connected to said magazine for actuating it, a plurality of record selector elements projectable to positions along the path of travel of said reciprocating member for predetermining the corresponding selective positions of said magazine, a reciprocating driving member releasably engageable with said reciprocating driven member and having a fixed latching element thereon, a companion movable latching element on said driven member normally engaging the latching element of the driving member to clutch such members for joint movement, and a detent applied to said driven member in operative engagement with said movable latching element and disposed for tripping engagement by one or another of the projected selector elements to unlatch the driven member from said driving member.

5. In an automatic phonograph, a record magazine movable to a plurality of record-selecting positions, a reciprocating driven member operatively connected to said magazine for actuating it, a plurality of record selector elements projectable to positions along the path of travel of said reciprocating member for predetermining the corresponding selective positions of said magazine, a reciprocating driving member releasably engageable with said reciprocating driven member and having a fixed latching element thereon, a companion movable latching element on said driven member normally engaging the latching element of the driving member to clutch such member for joint movement, a detent applied to said driven member in operative engagement with said movable latching element and disposed for tripping engagement by one or another of the projected selector elements to unlatch the driven member from said driving member, and means engageable with a projected selector element for restoring it to its initial position subsequent to its having tripped said movable latching element to its unlatched position.

6. In an automatic phonograph, a record magazine movable to a plurality of record-selecting positions, a reciprocating driven member operatively connected to said magazine for actuating it, a plurality of record selector elements projectable to positions along the path of travel of said reciprocating member for predetermining the corresponding selective positions of said magazine, a reciprocating driving member releasably engageable with said reciprocating driven member and having a latching shoulder thereon, a latch plate disposed adjacent the path of travel of said driven member and having a row of locking notches therein, a latching element applied to said driven member and normally engageable in one position with said latching shoulder for coupling said members for unitary movement and adapted for engagement, in its released position, with said latch plate for holding said driven member in a selected position of adjustment of the magazine, and a detent applied to said driven member for controlling the release of said latching element from said driving member and the engagement thereof with said latch plate, said detent being disposed for abutting engagement with one or another of the projected selector elements to actuate the detent to such position.

7. In an automatic phonograph, a record magazine movable to a plurality of record-selecting positions, a reciprocating driven member operatively connected to said magazine for actuating it to a selective position of adjustment when said member is moved in one direction and for returning the magazine to its initial position when said member is moved in the opposite direction, a reciprocating driving member releasably engageable with said driven member, latching mechanism associated with said members for coupling the driven member with the driving member at predetermined times, and a plurality of projectible selector elements disposed along the path of travel of said members and for operative engagement, when projected to select position, with said latch mechanism for governing the release thereof at predetermined times in the selective stroke of the driving member to uncouple the driven member from said driving member, the latter having means thereon engageable with the latch mechanism on its return stroke for restoring such mechanism in coupling engagement with the driven member to effect the return of the magazine from its selected position to its initial position.

8. In an automatic phonograph, a record magazine movable to a plurality of record-selecting positions, a reciprocating driven member operatively connected to said magazine for actuating it to a selective position of adjustment when said member is moved in one direction and for re-

turning the magazine to its initial position when said member is moved in the opposite direction, a reciprocating driving member releasably engageable with said driven member, a plurality of projectible selector elements disposed longitudinally along the path of travel of said members, and a latching mechanism associated with said members for normally coupling them for unitary movement and releasably governed by said selector elements, said latch mechanism including a detent applied to said driven member and engageable with a projected selector element during the selective stroke of such member for actuating said mechanism to released position.

9. In an automatic phonograph, a record magazine movable to a plurality of record-selecting positions, a reciprocating driven member operatively connected to said magazine for actuating it to a selective position of adjustment when said member is moved in one direction and for returning the magazine to its initial position when said member is moved in the opposite direction, a reciprocating driving member releasably engageable with said driven member, a plurality of projectible selector elements disposed longitudinally along the path of travel of said members, a latching mechanism associated with said members for normally coupling them for unitary movement and releasably governed by said selector elements, said latch mechanism including a detent applied to said driven member and engageable with a projected selector element during the selective stroke of such member for actuating said mechanism to released position, and a trip element on said driving member adapted for engagement at a predetermined time in its return stroke with said latching mechanism for actuating it to its latched position.

10. In an automatic phonograph, a record magazine movable to a plurality of record-selecting positions, a reciprocating driven member operatively connected to said magazine for actuating it, a plurality of record selector elements projectable to positions along the path of travel of said reciprocating member for predetermining the corresponding selective positions of said magazine, a reciprocating driving member releasably engageable with said reciprocating driven member and having a fixed latching element thereon, a companion movable latching element on said driven member normally engaging the latching element of the driving member to clutch such members for joint movement, a detent applied to said driven member in operative engagement with said movable latching element and disposed for tripping engagement by one or another of the projected selector elements to unlatch the driven member from said driving member, restoring means applied to said driven member for selective registering engagement with the selector elements for individually returning them to their initial positions subsequent to their having selectively tripped the movable latching element to its unlatched position, and a trip member applied to the driving member and engageable at a predetermined time in its selective stroke with said restoring means for actuating the latter to a position for projecting a companion registering selector element to non-selecting position.

11. In an automatic phonograph, a record magazine movable to a plurality of record-selecting positions, a reciprocating driven member operatively connected to said magazine for actuating it, a plurality of record selector elements projectable to positions along the path of travel of said reciprocating member for predetermining the corresponding selective positions of said magazine, a reciprocating driving member releasably engageable with said reciprocating driven member and having a fixed latching element thereon, a companion movable latching element on said driven member normally engaging the latching element of the driving member to clutch such members for joint movement, a detent applied to said driven member in operative engagement with said movable latching element and disposed for tripping engagement by one or another of the projected selector elements to unlatch the driven member from said driving member, restoring means applied to said driven member for selective registering engagement with the selector elements for individually returning them to their initial positions subsequent to their having selectively tripped the movable latching element to its unlatched position, a trip member applied to the driving member and engageable at a predetermined time in its selective stroke with said restoring means for actuating the latter to a position for projecting a companion registering selector element to non-selecting position, and a manually-controlled element disposed for operative engagement with said trip member for moving it in an inoperative, non-tripping position whereby to render the restoring means inactive to return a projected selector element to its initial position and permitting the subsequent re-selection of the magazine to a position companion to such selector element.

12. In an automatic phonograph, a record magazine movable to a plurality of record-selecting positions, a reciprocating driven member operatively connected to said magazine for actuating it, a plurality of record selector elements projectable to positions along the path of travel of said reciprocating member for predetermining the corresponding selective positions of said magazine, a reciprocating driving member releasably engageable with said reciprocating driven member and having a fixed latching element thereon, a companion movable latching element on said driven member normally engaging the latching element of the driving member to clutch such members for joint movement, a detent applied to said driven member in operative engagement with said movable latching element and disposed for tripping engagement by one or another of the projected selector elements to unlatch the driven member from said driving member, restoring means applied to said driven member for selective registering engagement with the selector elements for individually returning them to their initial positions subsequent to their having selectively tripped the movable latching element to its unlatched position, a trip member applied to the driving member and engageable at a predetermined time in its selective stroke with said restoring means for actuating the latter to a position for projecting a companion registering selector element to non-selecting position, a manually-controlled element disposed operative engagement with said trip member for moving it in an inoperative, non-tripping position whereby to render the restoring means inactive to return a projected selector element to its initial position and permitting the subsequent re-selection of the magazine to a position companion to such selector element, and means for governing the movements of said control element including an actuating member and latching device for projecting and

retaining said control element in its non-tripping position and a second actuating member operatively engageable with said latching device for releasing it from said control element to restore the same to tripping position.

13. In an automatic phonograph, a record magazine movable to a plurality of record-selecting positions, a reciprocating driven member operatively connected to said magazine for actuating it to a selective position of adjustment when said member is moved in one direction and for returning the magazine to its initial position when said member is moved in the opposite direction, a reciprocating driving member releasably engageable with said driven member, a plurality of manually-projectible selector elements disposed along the path of travel of said members, latching mechanism normally coupling said driven member with said driving member and including a detent disposed for engagement with a projected selector element during the selective stroke of said members for effecting the release of said mechanism at such selector-governed position, a trip element on said driving member adapted for engagement at a predetermined time in its return stroke with said latching mechanism for actuating it to its latched position, a shiftable member common to and operatively engageable with said selector elements for simultaneously moving them to projected positions for successively controlling, in rotation, the selective positioning of the respective records in the magazine, an actuating member disposed for engagement with said shiftable member, and a trip device on said driving member engageable with said actuating member at a predetermined time in the selective stroke thereof for moving the same in a direction to automatically operate the selector elements to selective positions.

14. In an automatic phonograph, a record magazine movable to a plurality of record-selecting positions, means for actuating the magazine to its respective selective positions, including a driving member, a driven member releasably engageable therewith for movement to different selective positions and operatively connected to the magazine, a plurality of record-selector elements individually movable to selective governing positions along the path of travel of said driven member and corresponding in number to the records borne by the magazine, means disposed along the path of travel of the driven member and having a row of latching elements thereon, and releasable coupling means operatively associated with said driving and driven members and governed by the selector elements for controlling the movement of the magazine in accordance with the record-selections made by the selector elements, the latter constituting trip elements for effecting the release of said coupling means at companion selected positions, said coupling means including a part engageable with one or another of the elements of said latching means in the released position of the coupling means for latching the driven member in a companion record-selecting position.

15. In an automatic phonograph, a record magazine movable to a plurality of record-selecting positions, a recoprocatory driving member, a driven member operatively connected to said magazine and adapted to be releasably coupled to said driving member during predetermined times in its reciprocatory movements for actuating the magazine to and from selective positions of adjustment, releasable means for normally coupling said driven member to said driving member, and means for selectively controlling the release of said coupling means to govern the selective movements of said driven member and the selective positions of said magazine.

16. In an automatic phonograph, a turntable, a record magazine adjoining the turntable and movable to a plurality of record-selecting positions, means operable between the magazine and the turntable for transferring the records to and from a playing position, means operatively connected to said magazine for actuating it to its selective positions, and means for selectively controlling said actuating means to predetermine a given selective position of the magazine, said controlling means including a driving member, a driven member adapted for operative engagement with the magazine-actuating means, a plurality of record-selector elements corresponding in number to the records borne by the magazine, a releasable clutching assembly associated with said driving and driven members and governed by said selector elements for controlling the adjustable setting of the magazine in accordance with the record selections made by the selector elements, and interengageable means including a part of such clutch assembly and a part disposed along the path of travel of said driven member for latching the latter in a given selective position when said clutch assembly is released.

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