COMBINED INDEPENDENT AUDIO SYSTEMS

1. Changeover between audio systems
2. Fading between plural signals
3. Combining signals to form composite (e.g., mixing)
4. One of systems having plural concurrent signals (e.g., stereophonic)
5. Radio
6. Including recording from radio
7. Oscillator modulated by retrieved information signal
8. Mechanical phonograph
9. With common cabinet for cartridge or cassette
10. Including separable assembly
11. Cabinet details
12. Storage or retrieval by simultaneous application of diverse types of electromagnetic radiation
13.01 Magnetic field and light beam
13.02 Initializing
13.03 Erasing
13.04 Reading
13.05 By transferring magnetic domain between layers
13.06 Three or more magnetic layers
13.07 Changing size of magnetic domain
13.08 Changing size of magnetic domain
13.09 Three or more magnetic states
13.10 Positioning of transducer assembly for storage or retrieval
13.11 Relative positioning of transducer assemblies
13.12 Integral transducers
13.13 Magnetic field generation
13.14 Leak magnetic field
13.15 Overwriting
13.16 Permanent magnet
13.17 Rotating magnet
13.18 Operative location positioning of transducer assembly
13.19 During load and unload of storage medium
13.20 Magnetic field generating circuit
13.21 Conductor coil
13.22 Light beam generation
13.23 Overwriting
13.24 Setting light beam power level
13.25 Based on referenced test signal
13.26 Multiple light beams
13.27 Polarized light beam
13.28 Linear polarization
13.29 Light beam transducer assembly
13.30 Near field optic
13.31 In compact size assembly
13.32 Specific detail of recording medium
13.33 In protective jacket
13.34 Tape or card
13.35 Specific detail of layer (e.g., bias or initializing layers, etc.)
13.36 Plural distinct storage layers
13.37 Plural layers having particular order
13.38 Plural magnetic layers (e.g., recording and reproducing layers)
13.39 Three or more magnetic layers (e.g., recording, intermediate, and reproducing layers, etc.)
13.40 In-plane magnetization layer
13.41 Exchange-coupling magnetization layer
13.42 Rare earth or metal alloy
13.43 Temperature or coercivity
13.44 Magnetic domain wall
13.45 In-plane magnetization layer
13.46 Exchange-coupling magnetization layer
13.47 Rare earth or metal alloy
13.48 Temperature or coercivity
13.49 Magnetic domain wall
13.50 Thickness of layer
13.51 Recording mark dimension
13.52 Land or groove track

STORAGE DIFFERENT FROM RETRIEVAL (E.G., OPTICAL RECORDING AND MAGNETIC REPRODUCTION)

DETAIL OF OPTICAL SLIDER PER SE
14 SIMULTANEOUS DIVERSE TYPES OF STORAGE OR RETRIEVAL
15 ALTERNATIVE DIVERSE TYPES OF STORAGE OR RETRIEVAL
16 MECHANICAL PRODUCTION OF OPTICAL STORAGE TRACK
17 TRACK CONVERSION
18 OPTICAL READING OF MECHANICAL RECORD

Class 360 is an integral part of this Class (Class 369), as shown by the position of this box, and follows the schedule hierarchy of this Class, retaining all pertinent definitions and Class lines of this class.

Class 720 is an integral part of this class (369), as shown by the position of this box, and follows the schedule hierarchy of this class, retaining all pertinent definitions and class lines of this class.

19 CONTROL BY TIMER OR EXTERNAL EXTRANEOUS CONDITION
20 .By diverse art device
21 ..In vehicle or elevator
22 ..Audible indicator
23 ...Talking clock
24.01 INFORMATION LOCATION OR REMOTE OPERATOR ACTUATED CONTROL
25.01 .Dictation or transcribing
26.01 ..Privacy
27.01 ..With access to or marking of specified location (e.g., indexing)
28.01 ...By stored additional signal (e.g., tone)
29.01 ..Remote station
29.02 ..Portable device
30.01 .Selective addressing of storage medium (e.g., programmed access)
30.02 ..Novelty device (e.g., talking doll)
30.03 ..Of optical storage medium
30.04 ...Using recorded information indicative of storage medium contents
30.05 ....Copying or editing
30.06 ....Plural storage medium elements (e.g., "juke box")

30.07 ....Specified contents information modification processing
30.08 ....Designating particular order of contents (e.g., sequential playing back by playlist)
30.09 .....Specified order of contents information modification processing
30.1 ...Transducer movement control using recorded information indicative of location of information (e.g., track address)
30.11 .....Location information correction
30.12 ....Particular track portion
30.13 ....Counting tracks traversed by transducer
30.14 ....Count correction
30.15 ....Multiple movement control modes
30.16 .....Specific detail of terminating
30.17 ....Transducer velocity control
30.18 .....Electrical information signal processing
30.19 ....Copying or editing
30.2 ....Plural storage medium elements
30.21 ....Monitoring signal error or verification
30.22 .....Correction of error
30.23 ....Buffering
30.24 .....Abnormal condition or changing mode of system
30.25 ....Auxiliary information
30.26 .....Remote operating mode control
30.27 ....Electrical control signal processing
30.28 ....Plural storage medium elements
30.29 .....Matching control signal
30.3 ....Of information indicative of contents or particular order of contents
30.31 .....For operation of storage medium gripper, accessor, or transfer member
30.32 .....For record medium loading or ejecting
30.33 .....For radial array positioning of unitary plural storage medium carrier

June 2005
30.34 .....For linear array positioning of unitary plural storage medium carrier (e.g., horizontal or vertical positioning)
30.35 .....For relative positioning between storage medium elements
30.36 .....Abnormal condition or changing mode of system
30.37 .....Of particular order of contents
30.38 .....Plural optical storage media in library system
30.39 .....Modular library system
30.4 .....Plural media are discs stored in cartridges
30.41 .....Having specified disc rack
30.42 .....Having particular removable magazine
30.43 .....Having specified picker
30.44 .....Of carousel library system
30.45 .....Picker support structure (i.e., mechanism for moving picker)
30.46 .....Having specified disc drive
30.47 .....Drive moves into alignment with disc
30.48 .....Having particular mechanism or slot for transferring disc into library from outside
30.49 .....Linear vertical or horizontal array
30.5 .....Carousel array
30.51 .....Plural media are unprotected (i.e., discs that are not in cartridges)
30.52 .....Having specified disc rack
30.53 .....Having particular removable magazine
30.54 .....Mounting or locking magazine to library system
30.55 .....Having specified picker
30.56 .....Of carousel library system
30.57 .....Picker support structure detail (i.e., mechanism for moving picker)
30.58 .....Having specified disc drive
30.59 .....Drive moves into alignment with disc
30.6 .....Having particular mechanism or slot for transferring disc into library from outside
30.61 .....Linear vertical or horizontal array
30.62 .....Carousel array
30.63 .....Having particular cabinet
30.64 .....Plural optical storage media in disc changer
30.65 .....Plural media are discs stored in cartridges
30.66 .....Having specified stocker or internal magazine
30.67 .....Stocker or internal magazine is adjustable or movable
30.68 .....Having particular removable magazine
30.69 .....Mounting or locking magazine to disc changer
30.7 .....Having particular internal transfer mechanism for transferring disc while disc is inside of disc changer
30.71 .....Of carousel changer
30.72 .....Having particular internal support structure for internal transfer mechanism
30.73 .....Having specified drive
30.74 .....Movable drive
30.75 .....Having particular mechanism or slot for transferring disc into changer from outside
30.76 .....Plural media are unprotected (i.e., discs that are not in cartridges)
30.77 .....Having specified stocker or internal magazine
30.78 .....Stocker or internal magazine is adjustable or movable
30.79 .....In carousel changer
30.8 .....Positioning mechanism
30.81 .....Having disc reproduced while entirely in magazine
30.82 .....Having disc reproduced while partially in magazine
30.83 .....Having particular removable magazine
30.84 .....Mounting or locking magazine to disc changer
30.85 .....Having particular internal transfer mechanism for transferring disc while disc is inside of disc changer
30.86 .....Of carousel changer
30.87 .....Having specified internal support structure for internal transfer mechanism
30.88 .....Having specified drive
30.89 .....Movable drive

June 2005
30.9 .....Having particular mechanism or slot for transferring disc into changer from outside
30.91 ......Of carousel changer
30.92 ......Plural trays
30.93 ......One tray for multiple discs
30.94 ......Loading mechanism
30.95 ......Chucking mechanism
30.96 ......Locking mechanism
30.97 ......Positioning mechanism
30.98 ......Having single motor that drives multiple mechanisms
30.99 ......One tray for single disc
31.01 ....Having particular cabinet
32.01 ..Specified electrical information signal processing
33.01 ..Specified electrical control signal processing
34.01 ...Plural storage medium elements
35.01 ..Plural nontranslating storage elements (e.g., in situ)
36.01 ..Unitary plural record carrier
37.01 ...Radial array
38.01 ...Moving linear array
39.01 ...Scanning turntable
40.01 ..By manually actuated mechanism for movement of tone arm
41.01 ..Of track on single storage medium
42.01 .By mechanical linkage

WITH SERVO POSITIONING OF TRANSDUCER ASSEMBLY OVER TRACK COMBINED WITH INFORMATION SIGNAL PROCESSING
44.11 ..Optical servo system
44.12 ..Solid state optical element with plural dissimilar optical components (e.g., using I.C. block, etc.)
44.13 ..Dithering or wobbling the beam or track
44.14 ..Optical head servo system structure
44.15 ...Elastic, flexible, pliant or spring support of lens or mirror
44.16 ....Flat flexible support (e.g., parallel leaf spring, etc.)
44.17 ...Optical head element with rotary motion
44.18 ....Rotary head wheel or scanner (e.g., for use with arcuate, transverse or slant tracks, etc.)
44.19 ....Head element pivots on arm (e.g., optical head disc arm etc.)
44.21 ....Lens or mirror pivots off center (e.g., on a shaft, etc.)
44.22 ...Lens or mirror floats, (e.g., magnetic field support or lens/mirror can freely float and pivot about its own axis, etc.)
44.23 ...Structure for shaping beam or causing astigmatic condition
44.24 ....Means to mask or shield a portion of the beam
44.25 ..Servo signal compared to a reference signal
44.26 ..Servo system operation related to disc structure information format
44.27 ..Initialization/start-up or changing modes of system
44.28 ...While track jumping or crossing
44.29 ...Servo loop gain/switching control
44.31 ....Recording
44.32 ..Means to compensate for defect or abnormal condition
44.33 ...Recording (e.g., inhibit recording upon defect, etc.)
44.34 ..Sampling servo system
44.35 ..Servo loop gain/switching control
44.36 ...Variable gain
44.37 ..Plural incident beams
44.38 ...Recording
44.39 ..Recording
44.41 ..Arithmetic operation using plural photodetectors
44.42 ...Beam or detector is not rectangular or circular

CONTROL OF STORAGE OR RETRIEVAL OPERATION BY A CONTROL SIGNAL TO BE RECORDED OR REPRODUCED
47.11 ..Control of initiation of pause mode
47.12 ..For copying
47.13 ..For editing
47.14 ..By medium defect indicative control signal
47.15 ..Control of information signal processing channel
47.16 ..Of plural interrelated channels
47.17..For removal of unwanted signal component
47.18..For interpolating or drop-out correcting
47.19..For modulating or demodulating
47.2..For multiplexing or demultiplexing
47.21...Of sub-code information
47.22....Having location identification information
47.23..For sequencing or switching
47.24...Between alternative processing channels
47.25..For gain processing
47.26...Within a frequency band
47.27...Using a reproduced information of specified preformat, header, or reference area
47.28..For phase, timing, or rate processing
47.29...During retrieval at dynamic retrieval rate different from storage rate
47.3...While changing of system mode or dynamic retrieval rate
47.31...Using program or address signal
47.32...Including static memory accessing
47.33....Including static memory fill level monitoring or controlling
47.34....Including static memory write address controlling
47.35..For sampling, digital to analog or analog to digital converting
47.36..Mechanism control by the control signal
47.37..Control of spiral track spacing (e.g., signal variable pitch)
47.38..Control of relative motion producing mechanism
47.39...During initialization or start-up
47.4...Responsive to change in transduced location
47.41...Responsive to change in transduced information characteristic
47.42...Responsive to stand-by or pause mode operation
47.43...Having different storage and retrieval relative motion
47.44...Responsive to abnormal condition
47.45...By a selected relative motion error signal
47.46...By information signal characteristic
47.47...By program or address signal
47.48...By synchronous signal
47.49..Control of transducer assembly mechanism
47.5...Power control for energy producing device
47.51....For storage
47.52......During multiple system modes
47.53......Stored and retrieved testing signal
47.54...By program or address signal
47.55..During initialization or start-up or changing system mode

52.1 CONTROL STRUCTURE ON STORAGE MEDIUM SENSED BY OTHER THAN TRANSDUCER SUPPORT (E.G., CONDUCTIVE STRIP, NOTCHED EDGE SENSOR)

53.1 CONDITION INDICATING, MONITORING, OR TESTING
53.11..Including radiation storage or retrieval
53.12..Having abnormal condition indicating
53.13....Due to unwanted operational condition of record carrier
53.14....Eccentricity or warp
53.15....Defect
53.16......Including storage or retrieval of auxiliary signal
53.17......Defect location indicating
53.18....System disturbance
53.19..Relative transducer to medium misalignment (e.g., relative tilt)
53.2..Of record carrier
53.21....For protection
53.22...By detection of storage medium incident radiation
53.23....Derived focusing or tracking related signal
53.24...Having unrecorded location indicating
53.25..Of transducer assembly mechanism
53.26...Energy producing device
53.27....By detection of storage medium incident radiation
53.28...Focusing or tracking servo

June 2005
53.29 ...Transduced location indicating
53.3  ...Of relative motion producing
      mechanism
53.31 ...Of storage or retrieval
      information signal
53.32 ...Dropout indicating
53.33 ...Unwanted signal component
      indicating
53.34 ...Time based parameter
53.35 ...Signal error correcting or
      detecting
53.36 ...During storage
53.37 ...Initialization or start-up mode
      or changing system mode:
53.38 ...Of transducer assembly mechanism
53.39 ...Transducer location indicating
53.4 ...Positioning adjunct
53.41 ...Of record carrier
53.42 ...Having abnormality condition
      indicating
53.43 ...Of relative motion producing
      mechanism
53.44 ...Of storage or retrieval
      information signal
53.45 ...Initialization or start-up mode
      or changing system mode

59.1  BINARY PULSE TRAIN INFORMATION
      SIGNAL
59.11 ...Binary signal processing for
      controlling recording light
      characteristic
59.12 ...Pulse forming by adjusting
      binary signal phase or
      shifting binary signal pulse
59.13 ...Selecting from a plurality of
      binary processing types
59.14 ...Changing a system mode
59.15 ...Binary signal gain processing
59.16 ...Within a frequency band
59.17 ...Binary signal level detecting
      using a reference signal
59.18 ...Plural reference signals
59.19 ...Binary signal detecting using a
      clock signal
59.2 ...Binary signal phase processing
59.21 ...Including sampling or A/D
      converting
59.22 ...By interpolating or maximum
      likelihood detecting
59.23 ...Having specific code or form
      generation or regeneration
      processing
59.24 ...During storage
59.25 ...Format arrangement processing
      for auxiliary information
59.26 ...Binary signal processing of
      sectioned information
59.27 ...Binary signal multiplexing or
      demultiplexing

SIGNAL PROCESSING BY STORAGE AND
SUBSEQUENT RETRIEVAL (E.G.,
FREQUENCY SHIFT, DELAY, ETC.)

STORAGE OF DIRECTLY RETRIEVABLE
MODULATED R.F. OR SUPERAUDIBLE
CARRIER SIGNAL

STORAGE OF SIGNAL MODULATING
COMPONENT

SOUND REPRODUCTION FOR TOY OR
NOVELTY DEVICE (E.G., TALKING
DOLL)

...With electrical information
      signal processing
...Indexing to track (e.g.,
      consecutive)
...By chance
...With beginning or end of cycle
      stylus return
...Manual motion application (e.g.,
      novelty card, hand-held
      stylus)

SYSTEMS OR SUBSYSTEMS COMBINED
WITH DIVERSE ART DEVICE

...For control of diverse art
device

WITH STYLUS CLEANING OR TREATMENT
(E.G., GRINDING)

WITH STORAGE MEDIUM CLEANING OR
ELECTROSTATIC CHARGE
NEUTRALIZATION

...By charge leakage (e.g., ionized
      particles)
...By tone arm attachment

WITH PARTICULAR CABINET STRUCTURE

...With mechanism to place disc on
      a turntable
...With electrical information
      signal processing
...Slotted for edgewise insertion
      of storage disc
...Having disc stored in
      protective jacket
...With lid-mounted transducer
      assembly carrier
...With closure-operated interlock
      or braking actuator
...Particular acoustical structure
      (e.g., baffle)
...Having collapsible or
      expandable acoustic path
...Having parallel acoustic paths

June 2005
EDITING OF STORED INFORMATION
DUPLICATION OR COPYING (E.G., RERECORDING)
To diverse type of storage medium
STORAGE OR RETRIEVAL OF SPATIALLY RELATED ACOUSTIC SIGNALS (E.G., STEREO)
Simulated spatial effect (e.g., pseudo-stereo)
With transformation or intentional distortion of information signal (e.g., preemphasis)
Quadraphonic
Including modulated subchannel signal
Having distinct electrical channels
Including distinct storage tracks on record medium
SYSTEMS HAVING PLURAL PHYSICALLY DISTINCT INDEPENDENT TRACKS ON A SINGLE STORAGE MEDIUM SURFACE
Having layered storage medium
Common time base (i.e., simultaneous)
Continuous consecutive storage or retrieval of interrupted track for single signal (e.g., automatic reversal)
Tracks transverse to a motion component
Indexing to discrete signal tracks (e.g., consecutive, by chance)
SPECIFIC DETAIL OF INFORMATION HANDLING PORTION OF SYSTEM
Radiation beam modification or by storage medium
Invisible radiation (e.g., electron beam or X-ray)
Multiplex
Holographic
Ribbon light modulator
Penumbra or push-pull optical system
Optical feedback
Ground noise suppression, signal envelope, or plural optical modulation
Color
Diffractive storage medium information element

Plural elements with distinct diffractive characteristics
Polarization of or by storage medium information element
Separation into plural polarization component beams
By diffraction
Using plural polarized or polarizing optical elements
Spiral or helical track
Having particular optical element or particular placement thereof in radiation beam path to or from storage medium
Crystal (e.g., liquid, elasto-optic, photo-refractive, etc.)
Diffractive
Plural distinct diffractive optical elements
In radiation beam path to storage medium
Sectioned optical element
Plural diffractive sections
Lens section
Prism, mirror, or waveguide section
Holographic
Sectioned optical element
Plural diffractive sections
Lens section
Prism, mirror, or waveguide section
Holographic
Polarized or polarizing
Plural distinct polarized optical elements
Sectioned optical element
Plural polarizing sections
Lens section
Prism, mirror, or waveguide section
Particular optical filter
Particular lens
Plural distinct lenses
Sectioned element
Plural lens sections
Waveguide
Prism
Mirror
With medium contacting drum or gate in optical system (e.g., sound head)
Movable roller support for optical path

June 2005
<table>
<thead>
<tr>
<th>Class 369 DYNAMIC INFORMATION STORAGE OR RETRIEVAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>115  ...With driving or stabilizing mechanism</td>
</tr>
<tr>
<td>116  ...Light intensity adjustment or maintenance</td>
</tr>
<tr>
<td>117  ...Having movable shutter or light gate</td>
</tr>
<tr>
<td>118  ...With detail, configuration, or adjunct of element having slit or aperture in radiation path</td>
</tr>
<tr>
<td>119  ...With movement of optical beam (e.g., galvanometer)</td>
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<tr>
<td>120  ...Having particular radiation sensor</td>
</tr>
<tr>
<td>121  ...With particular light source (e.g., laser, CRT with phosphor)</td>
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<tr>
<td>122  ...Solid state</td>
</tr>
<tr>
<td>123  ...Glow lamps</td>
</tr>
<tr>
<td>124.01 ...With details of electrical signal processing</td>
</tr>
<tr>
<td>124.02 ...With transducing multiple tracks</td>
</tr>
<tr>
<td>124.03 ...With transducing using plural beams</td>
</tr>
<tr>
<td>124.04 ...Modulating or demodulating</td>
</tr>
<tr>
<td>124.05 ...Integrating or sampling</td>
</tr>
<tr>
<td>124.06 ...Compressing or decompressing</td>
</tr>
<tr>
<td>124.07 ...Auxiliary information arrangement processing (e.g., block headers, subcode, or interpolated information, etc.)</td>
</tr>
<tr>
<td>124.08 ...Sectioned information processing (e.g., lengths, frames, or blocks, etc.)</td>
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<tr>
<td>124.09 ...Multiplexing or demultiplexing</td>
</tr>
<tr>
<td>124.1  ...Gain processing</td>
</tr>
<tr>
<td>124.11 ....Of retrieved signal</td>
</tr>
<tr>
<td>124.12 .....Of signals obtained from photo-detector components</td>
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<tr>
<td>124.13 .....With specific frequency or frequency range</td>
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<tr>
<td>124.14 ...Rate, phase, or transient processing</td>
</tr>
<tr>
<td>124.15 ...Level detecting using reference signal</td>
</tr>
<tr>
<td>125  ...Having photographic storage medium (e.g., variable density or area)</td>
</tr>
<tr>
<td>126  .Electrical modification or sensing of storage medium (e.g., capacitive, resistive, electrostatic charge)</td>
</tr>
<tr>
<td>127  .Mechanical modification or sensing of storage medium</td>
</tr>
<tr>
<td>128  ...With electrical information signal processing</td>
</tr>
<tr>
<td>129  ...From information modulated oscillator</td>
</tr>
<tr>
<td>130  ...Sensing of elastic deformation or relaxation of storage medium (e.g., skid type)</td>
</tr>
<tr>
<td>131  ...Bidirectional information flow (e.g., record/replay switching)</td>
</tr>
<tr>
<td>132  ...Recording</td>
</tr>
<tr>
<td>133  ...With transformation or intentional distortion of information signal (e.g., compensation for velocity variation with diameter)</td>
</tr>
<tr>
<td>134  ...With particular amplification characteristic or signal control circuitry (e.g., muting)</td>
</tr>
<tr>
<td>135  ...Specified structure of electrical transducing assembly</td>
</tr>
<tr>
<td>136  ...Multichannel (stereo cartridge)</td>
</tr>
<tr>
<td>137  ...By stress application to solid transducing element (e.g., piezoelectric)</td>
</tr>
<tr>
<td>138  .....With adjustable or replaceable stylus coupling structure</td>
</tr>
<tr>
<td>139  .....With details of damping or compliance</td>
</tr>
<tr>
<td>140  ...Plural styli</td>
</tr>
<tr>
<td>141  ...Plural alternative or with signal handling adjunct</td>
</tr>
<tr>
<td>142  ...Stylus controlled optical element</td>
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<tr>
<td>143  ...Electron tube</td>
</tr>
<tr>
<td>144  ...Electret or piezoelectric</td>
</tr>
<tr>
<td>145  ...Semiconductive</td>
</tr>
<tr>
<td>146  ...Magnetic field variation (e.g., magnetostrictive)</td>
</tr>
<tr>
<td>147  .....Moving signal coil</td>
</tr>
<tr>
<td>148  .....Variable reluctance</td>
</tr>
<tr>
<td>149  .....Fixed coil surrounding fixed part of magnetic path</td>
</tr>
<tr>
<td>150  ...Capacitive or electrolytic liquid</td>
</tr>
<tr>
<td>151  ...Electrostatic or capacitive</td>
</tr>
<tr>
<td>152  ...Variable resistance</td>
</tr>
<tr>
<td>153  ....Including treatment to facilitate storage (e.g., storage medium softening)</td>
</tr>
<tr>
<td>154  ...Heating (e.g., heated stylus)</td>
</tr>
</tbody>
</table>

June 2005
155. Mechanical conversion to or from sound
156. Including fluid coupling in force linkage
157. Sound box with mounting structure
158. Acoustical tone arm
159. Having plural acoustical paths
160. Sound box
161. With interchangeable stylus
162. Including stylus pivoted from fixed casing
163. With sound modification
164. Convertible between lateral and perpendicular modulation modes
165. Perpendicular mechanical modulation
166. Recording
167. With mechanical amplification (e.g., frictional coupling)
168. Floating weight
169. Lateral mechanical modulation
170. Stylus holder or shield
171. With structure to interchange styli
172. By replacement
173. Stylus
174. Including signal modification
175. Frequency dependent (e.g., separation)

DYNAMIC MECHANISM SUBSYSTEM
176. Having stationary storage medium
177. Access of multiple storage elements (e.g., record changer)
178. Cylindrical storage element
179. Flexible disc
180. Stack height adjustment for tone arm or turntable
181. Numerical count shut-off
182. Cam shaft transverse to turntable spindle axis of record changer
183. Tone arm position control by sensing of disc (e.g., disc or hole size)
184. Disc size sensor on or using tone arm
185. Stepped tone arm stop element
186. Disc size sensor in feed path
187. Disc size sensor at turntable position
188. Turntable speed control
189. By sensing of disc (e.g., disc or hole size)
190. Storage disc fed to and removed from turntable
191. Plural disc holder having unitary separating structure
192. Grouped removal with sequential feed
193. Coplanar storage
194. Both sides of disc used
195. Separate motors operate turntable and disc change mechanism
196. Lateral mechanical modulation
197. Plural turntables
198. Plural tone arms
199. Both sides of disc used
200. By inverting disc
201. Discs sequentially removed from turntable
202. Discs sequentially fed to turntable
203. Tone arm set down adjustment
204. By edge controlled feeding of disc
205. With feed cooperating structure on spindle
206. By center hold feeding of disc (e.g., spindle drop)
207. Support mechanism adapter for large hole records on small hole spindles
208. Having specified spindle structure
209. Umbrella type
210. Having shoulder and ejector lever
211. With edge stabilizer
212. Auxiliary structure (e.g., shut-off preventer, disc spacer)
213. Additional motion of storage element support to effect tracking
214. Cylindrical storage element
215. Having power driven transducer assembly
216. Having tone arm set-down control
217. By disc sensing (e.g., by sensed disc or hole size)
218. Having groove engaging driving element
219. With drive transverse to storage track

June 2005
...Controlled by transducer assembly support
...With additional drive (e.g., scanning, restoring, or return)
...Having pivoted tone arm
...By lead screw
...With passive linear tracking
...Restoring after passive tracking
...Responsive to transducer support condition (e.g., movement or position)
....Numerical count replay
....Controllable position
...Turntable mounted template
..Power cueing (i.e., engage/disengage)
.Mechanism responsive to control structure on storage medium sensed by transducer assembly support (e.g., trip device)
..With turntable braking (e.g., velocity or reverse responsive)
.Mechanism condition or storage medium responsive control
..With turntable braking (e.g., tone arm position responsive)
...With stopping of motor
...Adjustable
...With electrical control of brake
...End limit sensor coupled with tone arm
..Speed
...Variable radius compensation (e.g., constant interaction speed)
...Self-responsive (e.g., governor)
..Antiskating
..Energizing circuit
.Specified detail of transducer assembly support structure
..With manual tone arm displacement adjunct (e.g., cueing)
...With viscous limiting of motion (e.g., rate damping)
...Vibration or resonance suppression
...By viscous damping
..Having linear guide
.Pivoted arm with tracking path compensation
.Having application of counterbalancing force
...Lateral (e.g., antiskating)
...By resilient force element (e.g., spring)
...Specified weight mounting
..Having specified bearing structure
..Mechanical details of cartridge mounting
..Rest
..Specific detail of storage medium support or motion production
..For cylinder
..For pliable (e.g., floppy) disc
..With storage medium removal adjunct
.Mounting structure for support or motion producing assembly (e.g., vibration damping)
..Turntable
...With auxiliary turntable
...Driving mechanism
....Speed changing
...Braking
...Bearing structure
...Disc holding or locating (e.g., spindle structure)
....With detail of storage medium contact structure on turntable surface
.COMBINED WITH DIVERSE ART STRUCTURE
...Optical track structure (e.g., phase or diffracting structure, etc.)
..Erasable, reversible or re-recordable
..Track data format/layout
..Pit/bubble/groove structure specifies
..Protection (e.g., preventing damage to medium, etc.)
..Special groove (e.g., particular groove shape)
278 ...Groove acts as control system signal
279 ...Guide during storage or retrieval
280 .Specific disc profile
281 ...With interdisc coupling
282 ...Specified center hole or locating structure
283 ...Layered (e.g., permanent protective layer)
284 ...Radiation beam modified or controlling (e.g., photosensitive, optical track)
285 ...With mask
286 ...Laminated or unified discrete layers
287 ...Flexible
288 ...Specified material
289.1 ...Adjuncts or adapters
290.1 ...For central area of disc (e.g., hole size or drive sticker)
291.1 ...Protectors

FOREIGN ART COLLECTIONS

FOR 000 CLASS-RELATED FOREIGN DOCUMENTS

Any foreign patents or non-patent literature from subclasses that have been reclassified have been transferred directly to FOR Collections listed below. These Collections contain ONLY foreign patents or non-patent literature. The parenthetical references in the Collection titles refer to the abolished subclasses from which these Collections were derived.

FOR 100 SIGNAL PROCESSING BY STORAGE AND SUBSEQUENT RETRIEVAL (E.G., FREQUENCY SHIFT, DELAY, ETC.) (369/60)
SPECIFIC DETAIL OF INFORMATION HANDLING PORTION OF SYSTEM (369/99)
...Radiation beam modification of or by storage medium (369/100)
FOR 101 ...With details of electrical signal processing (369/124)

FOR 102 CONTROL OF STORAGE OR RETRIEVAL BY A SIGNAL TO BE RECORDED OR REPRODUCED (369/47)
FOR 103 ...Control of information signal channel (369/48)
FOR 104 ...Of plural interrelated channels (369/49)
FOR 105 ...Mechanism control by information signal (e.g., voice responsive) (369/50)
FOR 106 ...Control of spiral track spacing (e.g., signal variable pitch) (369/51)

FOR 107 CONTROL STRUCTURE ON STORAGE MEDIUM SENSED BY OTHER THAN TRANSDUCER SUPPORT (E.G., CONDUCTIVE STRIP, NOTCHED EDGE SENSOR) (369/52)
FOR 108 WITH CONDITION INDICATING (E.G., MONITORING) OR TESTING (369/53)
FOR 109 ...With radiation storage or retrieval (369/54)
FOR 110 ...Of transducer (369/55)
FOR 111 ...Location on storage medium (369/56)
FOR 112 ...Positioning adjunct (e.g., indexing) (369/57)
FOR 113 ...Of record carrier (369/58)

FOR 114 WITH BINARY PULSE TRAIN INFORMATION SIGNAL (369/59)
SPECIFIC DETAIL OF INFORMATION HANDLING PORTION OF SYSTEM (369/99)
...Radiation beam modification of or by storage (369/100)
FOR 115 ...With diffraction (e.g., pits, grating (369/109)
FOR 116 ...By polarization (369/110)
FOR 117 ...With particular imaging element (369/112)

FOR 118 STORAGE DIFFERENT FROM RETRIEVAL (E.G., OPTICAL RECORDING AND MAGNETIC REPRODUCTION) (369/13)
FOR 119 OPERATOR-ACTUATED REMOTE CONTROL OR INFORMATION LOCATION (369/24)
FOR 120 ...Dictation or transcribing (369/25)
FOR 121 ...Privacy (369/26)
FOR 122 ...With access to or marking of specified location (e.g., indexing) (369/27)

June 2005
CLASS 369 DYNAMIC INFORMATION STORAGE OR RETRIEVAL

FOR 123 ...By stored additional signal (e.g., tone) (369/28)
FOR 124 ..Remote station (e.g., multiple stations or recording devices) (369/29)
FOR 125 .Selective addressing of storage medium (e.g., programmed access, "juke box") (369/30)
FOR 126 ..Novelty device (e.g., talking doll) (369/31)
FOR 127 ..With specified electrical information signal processing (369/32)
FOR 128 ..With specified electrical control signal processing (369/33)
FOR 129 ...Plural storage medium elements (369/34)
FOR 130 .Plural nontranslating storage elements (e.g., in situ) (369/35)
FOR 131 ..With unitary plural disc carrier (369/36)
FOR 132 ...Radial array (369/37)
FOR 133 ...Moving linear array (369/38)
FOR 134 ...Scanning turntable (369/39)
FOR 135 ..By manually actuated mechanism for movement of tone arm (369/40)
FOR 136 .Of track on single storage medium (369/41)
FOR 137 .By mechanical linkage (369/42)
FOR 138 .Access of multiple storage elements (e.g., record changer) (369/178)
FOR 139 WITH PARTICULAR CABINET STRUCTURE (369/75.1)
FOR 140 .With mechanism to place disc on a turntable (369/75.2)
FOR 141 .Slotted for edgewise insertion of storage disc (369/77.1)
FOR 142 ..Having disc stored in protective jacket (369/77.2)
FOR 143 ..Storage disc fed to and removed from turntable (369/191)
FOR 144 ...Plural disc holder having unitary separating structure (369/192)
FOR 145 .Having power driven transducer assembly (369/215)
FOR 146 ..With drive transverse to storage track during storage or retrieval (369/219)
FOR 147 .Specific detail of transducer assembly support structure (e.g., tone arm) (369/244)
FOR 148 ..Vibration or resonance suppression (e.g., damping) (369/247)
FOR 149 ..Having linear guide (369/249)
FOR 150 .Specific detail of storage medium support or motion production (369/258)
FOR 151 ..Mounting structure for support or motion producing assembly (e.g., vibration damping assembly (369/263)
FOR 152 ...Disc holding or locating (e.g., spindle structure) (369/270)
FOR 153 ....With detail of storage medium contact structure on turntable surface (369/271)
FOR 154 STORAGE MEDIUM STRUCTURE (369/272)
FOR 155 .Adjudants or adapters (369/289)
FOR 156 ..For central area of disc (e.g., hole size or drive sticker) (369/290)
FOR 157 ..Protectors (369/291)

June 2005