

1	COMBINED INDEPENDENT AUDIO SYSTEMS	13.22	...Magnetic field generating circuit
2	.Changeover between audio systems	13.23	....Conductor coil
3	..Fading between plural signals	13.24	..Light beam generation
4	.Combining signals to form composite (e.g., mixing)	13.25	...Overwriting
5	.One of systems having plural concurrent signals (e.g., stereophonic)	13.26	...Setting light beam power level
		13.27	....Based on referenced test signal
		13.28	...Multiple light beams
6	.Radio	13.29	...Polarized light beam
7	..Including recording from radio	13.3	....Plural polarization
8	..Oscillator modulated by retrieved information signal	13.31	....Linear polarization
9	..Mechanical phonograph	13.32	...Light beam transducer assembly
10	..With common cabinet for cartridge or cassette	13.33	....Near field optic
11	..Including separable assembly	13.34	..In compact size assembly
12	..Cabinet details	13.35	..Specific detail of recording medium
13.01	STORAGE OR RETRIEVAL BY SIMULTANEOUS APPLICATION OF DIVERSE TYPES OF ELECTROMAGNETIC RADIATION	13.36	...In protective jacket
		13.37	...Tape or card
		13.38	...Specific detail of layer (e.g., bias or initializing layers, etc.)
13.02	.Magnetic field and light beam	13.39	....Plural distinct storage layers
13.03	..Initializing		
13.04	..Erasing	13.4	....Plural layers having particular order
13.05	..Reading		
13.06	...By transferring magnetic domain between layers	13.41	....Plural magnetic layers (e.g., recording and reproducing layers)
13.07	....Three or more magnetic layers		
13.08	....Changing size of magnetic domain	13.42	....Three or more magnetic layers (e.g., recording, intermediate, and reproducing layers, etc.)
13.09	....Changing size of magnetic domain		
13.1	..Three or more magnetic states	13.43	.....In-plane magnetization layer
13.11	..Positioning of transducer assembly for storage or retrieval	13.44	.....Exchange-coupling magnetization layer
13.12	..Relative positioning of transducer assemblies	13.45	.....Rare earth or metal alloy
		13.46	.....Temperature or coercivity
13.13	..Integral transducers	13.47	.....Magnetic domain wall
13.14	..Magnetic field generation	13.48	.....In-plane magnetization layer
13.15	..Leakage magnetic field	13.49	.....Exchange-coupling magnetization layer
13.16	..Overwriting		
13.17	..Magnetic field transducer assembly	13.5	.....Rare earth or metal alloy
		13.51	.....Temperature or coercivity
13.18	....Permanent magnet	13.52	.....Magnetic domain wall
13.19	.....Rotating magnet	13.53	....Thickness of layer
13.2	....Operative location	13.54	...Recording mark dimension
	positioning of transducer assembly	13.55	...Land or groove track
13.21	.....During load and unload of storage medium	13.56	STORAGE DIFFERENT FROM RETRIEVAL (E.G., OPTICAL RECORDING AND MAGNETIC REPRODUCTION)
		300	DETAIL OF OPTICAL SLIDER PER SE

14	SIMULTANEOUS DIVERSE TYPES OF STORAGE OR RETRIEVAL	30.07	....Specified contents information modification processing
15	ALTERNATIVE DIVERSE TYPES OF STORAGE OR RETRIEVAL	30.08	....Designating particular order of contents (e.g., sequential playing back by playlist)
16	MECHANICAL PRODUCTION OF OPTICAL STORAGE TRACK	30.09	....Specified order of contents information modification processing
17	TRACK CONVERSION	30.1	...Transducer movement control using recorded information indicative of location of information (e.g., track address)
18	OPTICAL READING OF MECHANICAL RECORD	30.11	...Location information correction
	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.	30.12	...Particular track portion
	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.	30.13	...Counting tracks traversed by transducer
		30.14	....Count correction
		30.15	...Multiple movement control modes
		30.16	....Specific detail of terminating
19	CONTROL BY TIMER OR EXTERNAL EXTRANEOUS CONDITION	30.17	...Transducer velocity control
20	..By diverse art device	30.18	...Electrical information signal processing
21	..In vehicle or elevator	30.19	...Copying or editing
22	..Audible indicator	30.2	...Plural storage medium elements
23	...Talking clock	30.21	...Monitoring signal error or verification
24.01	INFORMATION LOCATION OR REMOTE OPERATOR ACTUATED CONTROL	30.22	....Correction of error
25.01	..Dictation or transcribing	30.23	...Buffering
26.01	..Privacy	30.24	...Abnormal condition or changing mode of system
27.01	..With access to or marking of specified location (e.g., indexing)	30.25	...Auxiliary information
28.01	...By stored additional signal (e.g., tone)	30.26	...Remote operating mode control
29.01	..Remote station	30.27	...Electrical control signal processing
29.02	..Portable device	30.28	...Plural storage medium elements
30.01	..Selective addressing of storage medium (e.g., programmed access)	30.29	....Matching control signal
30.02	..Novelty device (e.g., talking doll)	30.3	....Of information indicative of contents or particular order of contents
30.03	..Of optical storage medium	30.31	....For operation of storage medium gripper, accessor, or transfer member
30.04	..Using recorded information indicative of storage medium contents	30.32	....For record medium loading or ejecting
30.05Copying or editing	30.33For radial array positioning of unitary plural storage medium carrier
30.06Plural storage medium elements (e.g., "juke box")		

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

- 30.9Having particular mechanism or slot for transferring disc into changer from outside
- 30.91Of carousel changer
- 30.92Plural trays
- 30.93One tray for multiple discs
- 30.94Loading mechanism
- 30.95Chucking mechanism
- 30.96Locking mechanism
- 30.97Positioning mechanism
- 30.98Having single motor that drives multiple mechanisms
- 30.99One tray for single disc
- 31.01Having 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
- 43 **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
- 44.16Flat flexible support (e.g., parallel leaf spring, etc.)
- 44.17 ...Optical head element with rotary motion
- 44.18Rotary head wheel or scanner (e.g., for use with arcuate, transverse or slant tracks, etc.)
- 44.19Head element pivots on arm (e.g., optical head disc arm etc.)
- 44.21Lens 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
- 44.24Means 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
- 44.31Recording
- 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
- 47.1 **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

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| 47.17 | ..For removal of unwanted signal component | 47.44 | ...Responsive to abnormal condition |
| 47.18 | ..For interpolating or drop-out correcting | 47.45 | ...By a selected relative motion error signal |
| 47.19 | ..For modulating or demodulating | 47.46 | ...By information signal characteristic |
| 47.2 | ..For multiplexing or demultiplexing | 47.47 | ...By program or address signal |
| 47.21 | ...Of sub-code information | 47.48 | ...By synchronous signal |
| 47.22 |Having location identification information | 47.49 | ..Control of transducer assembly mechanism |
| 47.23 | ..For sequencing or switching | 47.5 | ...Power control for energy producing device |
| 47.24 | ..Between alternative processing channels | 47.51 |For storage |
| 47.25 | ..For gain processing | 47.52 |During multiple system modes |
| 47.26 | ..Within a frequency band | 47.53 |Stored and retrieved testing signal |
| 47.27 | ..Using a reproduced information of specified preformat, header, or reference area | 47.54 | ...By program or address signal |
| 47.28 | ..For phase, timing, or rate processing | 47.55 | ..During initialization or start-up or changing system mode |
| 47.29 | ...During retrieval at dynamic retrieval rate different from storage rate | 52.1 | CONTROL STRUCTURE ON STORAGE MEDIUM SENSED BY OTHER THAN TRANSDUCER SUPPORT (E.G., CONDUCTIVE STRIP, NOTCHED EDGE SENSOR) |
| 47.3 | ...While changing of system mode or dynamic retrieval rate | 53.1 | CONDITION INDICATING, MONITORING, OR TESTING |
| 47.31 | ..Using program or address signal | 53.11 | ..Including radiation storage or retrieval |
| 47.32 | ...Including static memory accessing | 53.12 | ..Having abnormal condition indicating |
| 47.33 |Including static memory fill level monitoring or controlling | 53.13 | ...Due to unwanted operational condition of record carrier |
| 47.34 |Including static memory write address controlling | 53.14 | ...Eccentricity or warp |
| 47.35 | ..For sampling, digital to analog or analog to digital converting | 53.15 |Defect |
| 47.36 | ..Mechanism control by the control signal | 53.16 |Including storage or retrieval of auxiliary signal |
| 47.37 | ..Control of spiral track spacing (e.g., signal variable pitch) | 53.17 |Defect location indicating |
| 47.38 | ..Control of relative motion producing mechanism | 53.18 | ...System disturbance |
| 47.39 | ...During initialization or start-up | 53.19 | ...Relative transducer to medium misalignment (e.g., relative tilt) |
| 47.4 | ...Responsive to change in transduced location | 53.2 | ..Of record carrier |
| 47.41 | ...Responsive to change in transduced information characteristic | 53.21 | ...For protection |
| 47.42 | ...Responsive to stand-by or pause mode operation | 53.22 | ...By detection of storage medium incident radiation |
| 47.43 | ...Having different storage and retrieval relative motion | 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 |

53.29	...Transduced location indicating	59.26	.Binary signal processing of sectioned information
53.3	..Of relative motion producing mechanism	59.27	.Binary signal multiplexing or demultiplexing
53.31	..Of storage or retrieval information signal	60.01	SIGNAL PROCESSING BY STORAGE AND SUBSEQUENT RETRIEVAL (E.G., FREQUENCY SHIFT, DELAY, ETC.)
53.32	...Dropout indicating	61	STORAGE OF DIRECTLY RETRIEVABLE MODULATED R.F. OR SUPERAUDIBLE CARRIER SIGNAL
53.33	...Unwanted signal component indicating	62	STORAGE OF SIGNAL MODULATING COMPONENT
53.34	...Time based parameter	63	SOUND REPRODUCTION FOR TOY OR NOVELTY DEVICE (E.G., TALKING DOLL)
53.35	...Signal error correcting or detecting	64	.With electrical information signal processing
53.36	...During storage	65	.Indexing to track (e.g., consecutive)
53.37	..Initialization or start-up mode or changing system mode:	66	..By chance
53.38	.Of transducer assembly mechanism	67	.With beginning or end of cycle stylus return
53.39	..Transducer location indicating	68	.Manual motion application (e.g., novelty card, hand-held stylus)
53.4	..Positioning adjunct	69	SYSTEMS OR SUBSYSTEMS COMBINED WITH DIVERSE ART DEVICE
53.41	.Of record carrier	70	.For control of diverse art device
53.42	.Having abnormality condition indicating	71	WITH STYLUS CLEANING OR TREATMENT (E.G., GRINDING)
53.43	.Of relative motion producing mechanism	72	WITH STORAGE MEDIUM CLEANING OR ELECTROSTATIC CHANGE NEUTRALIZATION
53.44	.Of storage or retrieval information signal	73	.By charge leakage (e.g., ionized particles)
53.45	.Initialization or start-up mode or changing system mode	74	.By tone arm attachment
59.1	BINARY PULSE TRAIN INFORMATION SIGNAL	75.11	WITH PARTICULAR CABINET STRUCTURE
59.11	.Binary signal processing for controlling recording light characteristic	75.21	.With mechanism to place disc on a turntable
59.12	..Pulse forming by adjusting binary signal phase or shifting binary signal pulse	76	.With electrical information signal processing
59.13	.Selecting from a plurality of binary processing types	77.11	.Slotted for edgewise insertion of storage disc
59.14	.Changing a system mode	77.21	..Having disc stored in protective jacket
59.15	.Binary signal gain processing	78	.With lid-mounted transducer assembly carrier
59.16	..Within a frequency band	79	.With closure-operated interlock or braking actuator
59.17	.Binary signal level detecting using a reference signal	80	.Particular acoustical structure (e.g., baffle)
59.18	..Plural reference signals	81	..Having collapsible or expandable acoustic path
59.19	.Binary signal detecting using a clock signal	82	..Having parallel acoustic paths
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		

83	EDITING OF STORED INFORMATION	109.02	...Plural elements with distinct diffractive characteristics
84	DUPLICATION OR COPYING (E.G., RERECORDING)	110.01	..Polarization of or by storage medium information element
85	..To diverse type of storage medium	110.02	...Separation into plural polarization component beams
86	STORAGE OR RETRIEVAL OF SPATIALLY RELATED ACOUSTIC SIGNALS (E.G., STEREO)	110.03	...By diffraction
87	..Simulated spatial effect (e.g., pseudo-stereo)	110.04	...Using plural polarized or polarizing optical elements
88	..With transformation or intentional distortion of information signal (e.g., preemphasis)	111	..Spiral or helical track
89	..Quadraphonic	112.01	..Having particular optical element or particular placement thereof in radiation beam path to or from storage medium
90	..Including modulated subchannel signal	112.02	...Crystal (e.g., liquid, elasto-optic, photo-refractive, etc.)
91	..Having distinct electrical channels	112.03	...Diffractive
92	..Including distinct storage tracks on record medium	112.04	...Plural distinct diffractive optical elements
93	SYSTEMS HAVING PLURAL PHYSICALLY DISTINCT INDEPENDENT TRACKS ON A SINGLE STORAGE MEDIUM SURFACE	112.05	...In radiation beam path to storage medium
94	..Having layered storage medium	112.06	.....Sectioned optical element
95	..Common time base (i.e., simultaneous)	112.07	.....Plural diffractive sections
96	..Continuous consecutive storage or retrieval of interrupted track for single signal (e.g., automatic reversal)	112.08	.....Lens section
97	..Tracks transverse to a motion component	112.09	.....Prism, mirror, or waveguide section
98	..Indexing to discrete signal tracks (e.g., consecutive, by chance)	112.1	.....Holographic
99	SPECIFIC DETAIL OF INFORMATION HANDLING PORTION OF SYSTEM	112.11	...Sectioned optical element
100	..Radiation beam modification of or by storage medium	112.12	...Plural diffractive sections
101	..Invisible radiation (e.g., electron beam or X-ray)	112.13	...Lens section
102	..Multiplex	112.14	...Prism, mirror, or waveguide section
103	..Holographic	112.15	...Holographic
104	..Ribbon light modulator	112.16	...Polarized or polarizing
105	..Penumbra or push-pull optical system	112.17	...Plural distinct polarized optical elements
106	..Optical feedback	112.18	...Sectioned optical element
107	..Ground noise suppression, signal envelope, or plural optical modulation	112.19	...Plural polarizing sections
108	..Color	112.2	...Lens section
109.01	..Diffractive storage medium information element	112.21	...Prism, mirror, or waveguide section
		112.22	...Particular optical filter
		112.23	...Particular lens
		112.24	...Plural distinct lenses
		112.25	...Sectioned element
		112.26	...Plural lens sections
		112.27	...Waveguide
		112.28	...Prism
		112.29	...Mirror
		113	..With medium contacting drum or gate in optical system (e.g., sound head)
		114	...Movable roller support for optical path

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

155	..Mechanical conversion to or from sound	189	..Turntable speed control
156	...Including fluid coupling in force linkage	190	...By sensing of disc (e.g., disc or hole size)
157	...Sound box with mounting structure	191.1	..Storage disc fed to and removed from turntable
158	...Acoustical tone arm	192.1	...Plural disc holder having unitary separating structure
159	....Having plural acoustical paths	193	...Grouped removal with sequential feed
160	...Sound box	194	...Coplanar storage
161	...With interchangeable styli	195	...Both sides of disc used
162	...Including stylus pivoted from fixed casing	196	..Separate motors operate turntable and disc change mechanism
163	...With sound modification	197	..Plural turntables
164	...Convertible between lateral and perpendicular modulation modes	198	...Plural tone arms
165	...Perpendicular mechanical modulation	199	..Both sides of disc used
166	....Recording	200	...By inverting disc
167	....With mechanical amplification (e.g., frictional coupling)	201	..Discs sequentially removed from turntable
168	....Floating weight	202	..Discs sequentially fed to turntable
169	...Lateral mechanical modulation	203	...Tone arm set down adjustment
170	..Stylus holder or shield	204	...By edge controlled feeding of disc
171	..With structure to interchange styli	205	...With feed cooperating structure on spindle
172	...By replacement	206	...By center hold feeding of disc (e.g., spindle drop)
173	..Stylus	207	...Support mechanism adapter for large hole records on small hole spindles
174	..Including signal modification	208	...Having specified spindle structure
175	..Frequency dependent (e.g., separation)	209	....Umbrella type
176	DYNAMIC MECHANISM SUBSYSTEM	210	....Having shoulder and ejector lever
177	..Having stationary storage medium	211	....With edge stabilizer
178.01	..Access of multiple storage elements (e.g., record changer)	212	..Auxiliary structure (e.g., shut-off preventer, disc spacer)
179	..Cylindrical storage element	213	..Additional motion of storage element support to effect tracking
180	..Flexible disc	214	..Cylindrical storage element
181	..Stack height adjustment for tone arm or turntable	215.1	..Having power driven transducer assembly
182	..Numerical count shut-off	216	..Having tone arm set-down control
183	..Cam shaft transverse to turntable spindle axis of record changer	217	...By disc sensing (e.g., by sensed disc or hole size)
184	..Tone arm position control by sensing of disc (e.g., disc or hole size)	218	..Having groove engaging driving element
185	..Disc size sensor on or using tone arm	219.1	..With drive transverse to storage track
186	...Stepped tone arm stop element		
187	...Disc size sensor in feed path		
188	...Disc size sensor at turntable position		

220	...Controlled by transducer assembly support	250	..Pivoted arm with tracking path compensation
221	..With additional drive (e.g., scanning, restoring, or return)	251	..Having application of counterbalancing force
222	...Having pivoted tone arm	252	...Lateral (e.g., antiskating)
223	..By lead screw	253	...By resilient force element (e.g., spring)
224	..With passive linear tracking	254	...Specified weight mounting
225	..Restoring after passive tracking	255	..Having specified bearing structure
226	..Responsive to transducer support condition (e.g., movement or position)	256	..Mechanical details of cartridge mounting
227	...Numerical count replay	257	..Rest
228	...Controllable position	258.1	.Specific detail of storage medium support or motion production
229	...Turntable mounted template		
230	..Power cueing (i.e., engage/disengage)	259	..For endless web looped about plural rotatable mounts (e.g., belt)
231	.Mechanism responsive to control structure on storage medium sensed by transducer assembly support (e.g., trip device)	260	..For cylinder
232	..With turntable braking (e.g., velocity or reverse responsive)	261	..For pliable (e.g., floppy) disc
233	.Mechanism condition or storage medium responsive control	262	..With storage medium removal adjunct
234	..With turntable braking (e.g., tone arm position responsive)	263.1	..Mounting structure for support or motion producing assembly (e.g., vibration damping)
235	...With stopping of motor	264	..Turntable
236	...Adjustable	265	...With auxiliary turntable
237	...With electrical control of brake	266	...Driving mechanism
238	...End limit sensor coupled with tone arm	267	...Speed changing
239	..Speed	268	...Braking
240	..Variable radius compensation (e.g., constant interaction speed)	269	...Bearing structure
241	...Self-responsive (e.g., governor)	270.1	...Disc holding or locating (e.g., spindle structure)
242	..Antiskating	271.1	...With detail of storage medium contact structure on turntable surface
243	..Energizing circuit	272.1	STORAGE MEDIUM STRUCTURE
244.1	.Specified detail of transducer assembly support structure	273	.Combined with diverse art structure
245	..With manual tone arm displacement adjunct (e.g., cueing)	274	.Composite (e.g., package with preview record)
246	..With viscous limiting of motion (e.g., rate damping)	275.1	.Optical track structure (e.g., phase or diffracting structure, etc.)
247.1	..Vibration or resonance suppression	275.2	..Erasable, reversible or re-recordable
248	..By viscous damping	275.3	..Track data format/layout
249.1	..Having linear guide	275.4	..Pit/bubble/groove structure specifies
		275.5	..Protection (e.g., preventing damage to medium, etc.)
		276	.Electrical track structure
		277	.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
- 292 **MISCELLANEOUS**
- 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)**

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)

- ..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)

- 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)
- DYNAMIC MECHANISM SUBSYSTEM (369/176)**
- 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 (369/263)
- FOR 152 ...Disc holding or locating (e.g., spindle structure) (369/270)
- FOR 153With detail of storage medium contact structure on turntable surface (369/271)
- FOR 154 **STORAGE MEDIUM STRUCTURE (369/272)**
- FOR 155 .Adjuncts 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)