1	COMBINED INDEPENDENT AUDIO	13.22	Magnetic field generating circuit
2	Changeover between audio systems	13.23	Conductor coil
2	Eading between plural signals	13.24	Light beam generation
1	Combining signals to form	13.25	Overwriting
-	composite (e.g., mixing)	13.26	Setting light beam power level
5	One of systems having plural	13.27	Based on referenced test
3	concurrent signals (e.g.,		signal
	stereophonic)	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	13.31	Linear polarization
-	retrieved information signal	13.32	Light beam transducer assembly
9	Mechanical phonograph	13.33	Near field optic
10	With common cabinet for	13.34	In compact size assembly
20	cartridge or cassette	13.35	Specific detail of recording
11	Including separable assembly		medium
12	Cabinet details	13.36	In protective jacket
13.01	STORAGE OR RETRIEVAL BY	13.37	Tape or card
10.01	SIMULTANEOUS APPLICATION OF	13.38	Specific detail of laver
	DIVERSE TYPES OF		(e.g., bias or initializing
	ELECTROMAGNETIC RADIATION		layers, etc.)
13.02	.Magnetic field and light beam	13.39	Plural distinct storage
13.03	Initializing		layers
13.04	Erasing	13.4	Plural layers having
13.05	Reading		particular order
13.06	By transferring magnetic	13.41	Plural magnetic layers (e.g.,
	domain between layers		recording and reproducing
13.07	Three or more magnetic layers		layers)
13.08	Changing size of magnetic	13.42	Three or more magnetic
	domain		layers (e.g., recording,
13.09	Changing size of magnetic		intermediate, and reproducing
	domain		layers, etc.)
13.1	Three or more magnetic states	13.43	In-plane magnetization
13.11	Positioning of transducer		layer
	assembly for storage or	13.44	Exchange-coupling
	retrieval		magnetization layer
13.12	Relative positioning of	13.45	Rare earth or metal alloy
	transducer assemblies	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
13.16	Overwriting		magnetization layer
13.17	Magnetic field transducer	13.5	Rare earth or metal alloy
	assembly	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	13.55	Land or groove track
	assembly	13.56	STORAGE DIFFERENT FROM RETRIEVAL
13.21	During load and unload of		(E.G., OPTICAL RECORDING AND
	storage medium	2.0.0	MAGNETIC REPRODUCTION)
		300	DETAIL OF OPTICAL SLIDER PER SE

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14	SIMULTANEOUS DIVERSE TYPES OF
	STORAGE OR RETRIEVAL
1 5	

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
20.05	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
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
20 20	processing
30.20	olomonts
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

30.34	For linear array positioning of unitary plural storage	30.62 30.63	Carousel array Having particular cabinet
	medium carrier (e.g., horizontal or vertical	30.64	Plural optical storage media in disc changer
	positioning)	30.65	Plural media are discs stored
30.35	For relative positioning		in cartridges
	between storage medium elements	30.66	Having specified stocker or internal magazine
30.36	Abnormal condition or	30.67	Stocker or internal magazine
	changing mode of system	00007	is adjustable or movable
30.37	Of particular order of	30 68	Having particular removable
	contents	50.00	magazine
30.38	Plural optical storage media	30 69	Mounting or locking magazino
	in library system	50.09	to disc changer
30.39	Modular library system	20 7	Uning portigular internal
30.4	Plural media are discs stored	50.7	Having particular internal
50.1	in cartridges		transferring diag while diag
30 /1	Having specified disc rack		is incide of disc while disc
30.42	Having particular removable	20 71	
30.42		30.71	
20 12	Mayazine	30.72	Having particular internal
30.43	Having specified picker		support structure for internal
30.44	Of carousel library system		transfer mechanism
30.45	Picker support structure	30.73	Having specified drive
	(i.e., mechanism for moving	30.74	Movable drive
20.46	picker)	30.75	Having particular mechanism
30.46	Having specified disc drive		or slot for transferring disc
30.47	Drive moves into alignment		into changer from outside
	with disc	30.76	Plural media are unprotected
30.48	Having particular mechanism		(i.e., discs that are not in
	or slot for transferring disc		cartridges)
	into library from outside	30.77	Having specified stocker or
30.49	Linear vertical or		internal magazine
	horizontal array	30.78	Stocker or internal magazine
30.5	Carousel array		is adjustable or movable
30.51	Plural media are unprotected	30.79	In carousel changer
	(i.e., discs that are not in	30.8	Positioning mechanism
	cartridges)	30.81	Having disc reproduced while
30.52	Having specified disc rack		entirely in magazine
30.53	Having particular removable	30.82	Having disc reproduced while
	magazine		partially in magazine
30.54	Mounting or locking magazine	30.83	Having particular removable
30.55	Having specified picker	30 84	Mounting or locking magazine
30.56	Of carousel library system	50.04	to disc changer
30 57	Picker support structure	30 85	Having particular intornal
30.37	detail (i e mechanism for	50.05	transfor mochanism for
	moving picker)		transferring disc while disc
30 58	Having specified disc drive		is inside of disc changer
30.50	Drive meyod into alignment	30 86	of garougol ghanger
30.39	Drive moves into arighment	20.00	
30 6	WILLI UISC	30.07	aupport atructure for internal
0.02	aving particular mechanism		transfor machanism
	or slot for transferring disc	20 00	uransier mechanism
20 (1	Linco Library from outside	30.88	Having specified drive
30.6T	Linear vertical or	30.89	Movable drive
	norizontal array		

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30.9	Having particular mechanism or slot for transferring disc into changer from outside
30.91	Of carousel changer
30.92	Plural travs
30 93	One tray for multiple discs
30 9/	Loading mechanism
30.05	Chucking mechanism
30.95	
30.90	Locking mechanism
30.97	Positioning mechanism
30.98	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
10 01	Ry manually actuated mochanism
40.01	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.
11 12	Diock, etc.)
44.13	or track
44.14	Optical head servo system
44.15	Elastic, flexible, pliant or
11110	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.)

	(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,
44 22	etc.)
44.23	Structure for shaping beam or
11 21	Causing astigmatic condition
44.24	Means to mask or shield a
11 25	Sorve signal compared to a
44.20	reference signal
11 26	Serve system operation related
11.20	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
4/.1	CONTROL OF STORAGE OR RETRIEVAL
	OPERATION BY A CONTROL SIGNAL
17 11	TO BE RECORDED OR REPRODUCED
4/.11	.control of initiation of pause
17 10	For conving
±/•⊥∠ /7 1२	For editing
47.1J 17 11	Pu modium defect indicative
±/•14	control signal
47.15	Control of information signal
±1•10	processing channel
47.16	Of plural interrelated channels

44.19Head element pivots on arm

47.17	For removal of unwanted signal	47.44	Re
47.18	For interpolating or drop-out	47.45	Ву
17 10	correcting		er
47.19	For modulating or demodulating	47.46	Ву
4/.2	For multiplexing or		ch
17 01	demultiplexing	47.47	Ву
47.21	Of sub-code information	47.48	Ву
4/.22	Having location	47.49	Con
45 00	identification information		me
47.23	For sequencing or switching	47.5	Po
47.24	Between alternative processing		pr
48 05	channels	47.51	ŀ
47.25	For gain processing	47.52	
47.26	Within a frequency band	47.53	••••
47.27	Using a reproduced information		si
	of specified preformat,	47.54	Ву
45 00	header, or reference area	47.55	Dur
47.28	For phase, timing, or rate		up
	processing	52.1	CONTR
47.29	During retrieval at dynamic		ME
	retrieval rate different from		TR.
	storage rate		CO
47.3	While changing of system mode	F2 4	SE
	or dynamic retrieval rate	53.1	CONDI
47.31	Using program or address	50 44	OR
	signal	53.11	.Incl
47.32	Including static memory	50.40	re
	accessing	53.12	Hav
47.33	Including static memory fill	F0 40	in
	level monitoring or	53.13	Du
	controlling		CO
47.34	Including static memory write	53.14	E
45 05	address controlling	53.15	D
47.35	For sampling, digital to analog	53.16	
	or analog to digital	/ _	re
48 26	converting	53.17	
47.36	.Mechanism control by the control	53.18	Sy
	signal	53.19	Re
47.37	Control of spiral track spacing		mi
47 20	(e.g., signal variable pitch)		ti
4/.38	Control of relative motion	53.2	Of
45 20	producing mechanism	53.21	Fo
47.39	During initialization or	53.22	Ву
	start-up		in
47.4	Responsive to change in	53.23	D
	transduced location		re
47.41	Responsive to change in	53.24	На
	transduced information		in
	characteristic	53.25	Of
47.42	Responsive to stand-by or		me
	pause mode operation	53.26	En
47.43	Having different storage and	53.27	B
	retrieval relative motion		me
		53 28	FO

47.44	Responsive to abnormal
47.45	By a selected relative motion
47.46	By information signal
17 17	Di program or oddrogg gignol
4/.4/	
47.40	By Synchronous Signal
47.49	Control of transducer assembly
	mechanism
4/.5	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
0212	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
55.22	incident radiation
53 23	Derived focusing or tracking
55.25	related signal
53 21	Having unrecorded location
55.24	indicating
53 25	Of transducer accombly
	mechanism
53 26	Enorgy producing device
53.20 52.07	Energy producing device
12.در	by detection of storage
	mealum inclaent radiation
JJ.28	Focusing or tracking servo

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53.29 53.3	Transduced location indicating Of relative motion producing	59.26	.Binary signal processing of sectioned information
53 31	mechanism	59.27	.Binary signal multiplexing or
JJ.JT	information gignal	60 01	STONAL PROCESSING BY SECONDER AND
	Decementaria di settica	00.01	SIGNAL PROCESSING BI STORAGE AND
53.32	Dropout indicating		SUBSEQUENT RETRIEVAL (E.G.,
53.33	Unwanted signal component	C 1	FREQUENCY SHIFT, DELAY, ETC.)
	indicating	61	STORAGE OF DIRECTLY RETRIEVABLE
53.34	Time based parameter		MODULATED R.F. OR SUPERAUDIBLE
53.35	Signal error correcting or		CARRIER SIGNAL
	detecting	62	STORAGE OF SIGNAL MODULATING
53.36	During storage		COMPONENT
53.37	Initialization or start-up mode	63	SOUND REPRODUCTION FOR TOY OR
	or changing system mode:		NOVELTY DEVICE (E.G., TALKING
53.38	.0f transducer assembly mechanism		DOLL)
53.39	Transducer location indicating	64	.With electrical information
53.4	Positioning adjunct		signal processing
53 /1	Of record carrier	65	.Indexing to track (e.g.,
53 12	Having abnormality condition		consecutive)
JJ.42	indicating	66	By chance
FD 40		67	With beginning or end of cycle
53.43	. Of relative motion producing	0,	stylus return
FO 44	mechanism	68	Manual motion application (o g
53.44	.Of storage or retrieval	00	.Manual motion application (e.g.,
	information signal		novercy card, nand-nerd
53.45	.Initialization or start-up mode	60	Stylus)
	or changing system mode	69	SYSTEMS OR SUBSYSTEMS COMBINED
59.1	BINARY PULSE TRAIN INFORMATION		WITH DIVERSE ART DEVICE
	SIGNAL	70	.For control of diverse art
59.11	.Binary signal processing for		device
	controlling recording light	71	WITH STYLUS CLEANING OR TREATMENT
	characteristic		(E.G., GRINDING)
59.12	Pulse forming by adjusting	72	WITH STORAGE MEDIUM CLEANING OR
	binary signal phase or		ELECTROSTATIC CHANRGE
	shifting binary signal pulse		NEUTRALIZATION
59.13	Selecting from a plurality of	73	.By charge leakage (e.g., ionized
00,10	binary processing types		particles)
59 1/	Changing a system mode	74	.By tone arm attachment
50 15	Pinary gignal gain progogging	75.11	WITH PARTICULAR CABINET STRUCTUR
59.15 E0 16	Within a framework hand	75.21	With mechanism to place disc on
J9.10	Discuss size a level determine		a turntable
59.17	.Binary signal level detecting	76	With electrical information
	using a reference signal	70	signal processing
59.18	Plural reference signals	77 11	Clatted for adapting incontion
59.19	.Binary signal detecting using a	//•⊥⊥	. Stotled for edgewise insertion
	clock signal	77 01	of storage disc
59.2	.Binary signal phase processing	//.21	Having disc stored in
59.21	.Including sampling or A/D		protective jacket
	converting	78	.With lid-mounted transducer
59.22	By interpolating or maximum		assembly carrier
	likelihood detecting	79	.With closure-operated interlock
59.23	.Having specific code or form		or braking actuator
-	generation or regeneration	80	.Particular acoustical structure
	processing		(e.g., baffle)
59.24	During storage	81	Having collapsible or
59 25	Format arrangement processing		expandable acoustic path
	for auxiliary information	82	Having parallel acoustic paths
	TOT GUNTITUTY THEOTHIGCTON		

59.26	.Binary signal processing of sectioned information
59.27	.Binary signal multiplexing or demultiplexing
60.01	SIGNAL PROCESSING BY STORAGE AND
	SUBSEQUENT RETRIEVAL (E.G., FREQUENCY SHIFT, DELAY, ETC.)
61	STORAGE OF DIRECTLY RETRIEVABLE
	MODULATED R.F. OR SUPERAUDIBLE
	CARRIER SIGNAL
62	STORAGE OF SIGNAL MODULATING
	COMPONENT
63	SOUND REPRODUCTION FOR TOY OR
	NOVELTY DEVICE (E.G., TALKING DOLL)
64	.With electrical information
	signal processing
65	.Indexing to track (e.g.,
	consecutive)
66	By chance
67	.With beginning or end of cycle
	stylus return
68	.Manual motion application (e.g.,
	novelty card, hand-held
<u> </u>	Stylus)
69	SYSTEMS OR SUBSYSTEMS COMBINED
70	For control of divorso art
10	device
71	WITH STYLUS CLEANING OR TREATMENT
· -	(E.G., GRINDING)
72	WITH STORAGE MEDIUM CLEANING OR
	ELECTROSTATIC CHANRGE
	NEUTRALIZATION
73	.By charge leakage (e.g., ionized
	particles)
74	.By tone arm attachment
75.11	WITH PARTICULAR CABINET STRUCTURE
75.21	.With mechanism to place disc on
	a turntable
76	.With electrical information
77 11	signal processing
//.⊥⊥	.Stotled for edgewise insertion
77 21	Having disc stored in
11.21	protective jacket
78	With lid-mounted transducer
10	assembly carrier
79	With closure-operated interlock
-	or braking actuator
80	.Particular acoustical structure
	(e.g., baffle)
81	Having collapsible or
	expandable acoustic path
0.0	Hawing parallel acquetic paths

83	EDITING OF STORED INFORMATION	10
84	DUPLICATION OR COPYING (E.G.,	
	RERECORDING)	11
85	.To diverse type of storage	
	medium	11
86	STORAGE OR RETRIEVAL OF SPATIALLY	
	RELATED ACOUSTIC SIGNALS	11
	(E.G., STEREO)	11
87	.Simulated spatial effect (e.g.,	
	pseudo-stereo)	11
88	.With transformation or	11
	intentional distortion of	
	information signal (e.g.,	
	preemphasis)	
89	.Quadraphonic	
90	Including modulated subchannel	11
	signal	
91	.Having distinct electrical	11
	channels	11
92	.Including distinct storage	
-	tracks on record medium	11
93	SYSTEMS HAVING PLURAL PHYSICALLY	
	DISTINCT INDEPENDENT TRACKS ON	11
	A SINGLE STORAGE MEDIUM	11
	SURFACE	11
94	.Having layered storage medium	11
95	.Common time base (i.e.,	
	simultaneous)	11
96	.Continuous consecutive storage	11
	or retrieval of interrupted	11
	track for single signal (e.g.,	11
	automatic reversal)	11
97	Tracks transverse to a motion	<u> </u>
	component	11
98	.Indexing to discrete signal	11
	tracks (e.g., consecutive, by	11
	chance)	± ±
99	SPECIFIC DETAIL OF INFORMATION	11
	HANDLING PORTION OF SYSTEM	11
100	.Radiation beam modification of	11
	or by storage medium	11
101	Invisible radiation (e.g.,	ΤT
	electron beam or X-ray)	1 1
102	Multiplex	11
103	Holographic	11
104	Ribbon light modulator	11
105	Penumbra or push-pull optical	11
	system	11
106	Optical feedback	11
107	Ground noise suppression,	11
-	signal envelope, or plural	11
	optical modulation	11
108	Color	
109.01	Diffractive storage medium	
	information element	ΤŢ

109.02	Plural elements with distinct
110.01	Polarization of or by storage
	medium information element
110.02	Separation into plural
	polarization component beams
110.03	By diffraction
110.04	Using plural polarized or
	polarizing optical elements
111	Spiral or helical track
112.01	Having particular optical
	placement thereof in radiation
	beam path to or from storage
	medium
112.02	Crystal (e.g., liquid, elasto-
	optic, photo-refractive, etc.)
112.03	Diffractive
112.04	Plural distinct diffractive
	optical elements
112.05	In radiation beam path to
110 00	storage medium
112.06	Sectioned optical element
112.07	Long agation
112.00	Prism mirror or waveguide
112.09	section
112.1	Holographic
112.11	Sectioned optical element
112.12	Plural diffractive sections
112.13	Lens section
112.14	Prism, mirror, or waveguide
	section
112.15	Holographic
112.16	Polarized or polarizing
112.1/	optical elements
112 18	Sectioned optical element
112.19	Plural polarizing sections
112.2	Lens section
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
⊥⊥∠.∠У 113	With modium contracting drum an
TTO	gate in optical system (e a
	sound head)
114	Movable roller support for
	optical path

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115	With driving or stabilizing mechanism	128
116	Light intensity adjustment or maintenance	129
117	Having movable shutter or light gate	130
118	With detail, configuration, or adjunct of element having slit	131
119	or aperture in radiation path With movement of optical beam	122
120	(e.g., galvanometer) Having particular radiation	132
121	With particular light source (e.g., laser, CRT with	
122	phosphor) Solid state	134
123 124.01	Glow lamps With details of electrical	
124.02	signal processingWith transducing multiple	135
124.03	tracks With transducing using plural	10.5
124.04	beams Modulating or demodulating	136
124.05 124.06	Integrating or sampling	137
124.07	Auxiliary information arrangement processing (e.g., block headers, subcode, or	138
	interpolated information, etc.)	139
124.08	Sectioned information processing (e.g., lengths, frames, or blocks, etc.)	140 141
124.09 124.1	Multiplexing or demultiplexingGain processing	142
124.11	Of retrieved signal	143
124.12	photo-detector components	144
124.13	With specific frequency or	145 146
124.14	frequency range Rate, phase, or transient	140
124.15	processing Level detecting using	148
-	reference signal	149
125	Having photographic storage medium (e.g., variable density or area)	150
126	.Electrical modification or	151
	sensing of storage medium	152
	(e.g., capacitive, resistive, electrostatic charge)	153
127	.Mechanical modification or sensing of storage medium	154

128	With electrical information
129	From information modulated
	oscillator
130	Sensing of elastic deformation
	or relaxation of storage
	medium (e.g., skid type)
131	Bidirectional information flow
	(e.g., record/replay
	switching)
132	Recording
133	With transformation or
100	intentional distortion of
	information signal (o g
	compondation for volocity
	wariation with diamotor)
124	Variation with diameter)
134	with particular amplification
	characteristic or signal
	control circuitry (e.g.,
	muting)
135	Specified structure of
	electrical transducing
	assembly
136	Multichannel (stereo
	cartridge)
137	By stress application to
	solid transducing element
	(e.g., piezoelectric)
138	With adjustable or
	replaceable stylus coupling
	structure
139	With details of damping or
	compliance
140	Plural styli
141	Plural alternative or with
T T T	cignal handling adjunct
110	Signal mandring aujunce
142	Stylus controlled optical
1 4 2	element
143	Electron tube
144	Electret or piezoelectric
145	Semiconductive
146	Magnetic field variation
	(e.g., magnetostrictive)
147	Moving signal coil
148	Variable reluctance
149	Fixed coil surrounding fixed
	part of magnetic path
150	Capacitive or electrolytic
	liquid
151	Electrostatic or capacitive
152	Variable registance
152	Including treatment to
TJJ	facilitato storaco (o c
	atorage modium coftoning)
1 5 4	Storage meatum Soltening)
104 104	неаттиу (e.g., neated stylus)

155	Mechanical conversion to or	189	Turntable speed control
	from sound	190	By sensing of disc (e.g., disc
156	Including fluid coupling in		or hole size)
	force linkage	191.1	Storage disc fed to and removed
157	Sound box with mounting		from turntable
	structure	192.1	Plural disc holder having
158	Acoustical tone arm		unitary separating structure
159	Having plural acoustical	193	Grouped removal with
160	Sound how	19/	Conlanar storage
161	With interchangeable styli	195	Roth sides of disc used
162	Including stylug piyotod from	196	Concrete metera operate
102	fixed casing	190	turntable and disc change
163	With sound modification	107	mechanism
164	Convertible between lateral	197	Plural turntables
	and perpendicular modulation	198	Plural tone arms
	modes	199	Both sides of disc used
165	Perpendicular mechanical	200	By inverting disc
	modulation	201	Discs sequentially removed from
166	Recording		turntable
167	With mechanical	202	Discs sequentially fed to
	amplification (e.g.,		turntable
	frictional coupling)	203	Tone arm set down adjustment
168	Floating weight	204	By edge controlled feeding of
169	Lateral mechanical modulation		disc
170	Stylus holder or shield	205	With feed cooperating
171	With structure to interchange		structure on spindle
	styli	206	By center hold feeding of disc
172	By replacement		(e.g., spindle drop)
173	Stylus	207	Support mechanism adapter for
174	.Including signal modification		large hole records on small
175	Frequency dependent (e.g.,		hole spindles
	separation)	208	Having specified spindle
176	DYNAMIC MECHANISM SUBSYSTEM		structure
177	Having stationary storage medium	209	Umbrella type
178 01	Access of multiple storage	210	Having shoulder and ejector
1/0.01	elements (e.g., record	210	lever
	changer)	211	With edge stabilizer
179	Cylindrical storage element	212	Auxiliary structure (e.g.,
180	Flexible disc		shut-off preventer, disc
181	Stack height adjustment for		spacer)
	tone arm or turntable	213	.Additional motion of storage
182	Numerical count shut-off		element support to effect
183	Cam shaft transverse to		tracking
	turntable spindle axis of	214	Cylindrical storage element
	record changer	215.1	.Having power driven transducer
184	Tone arm position control by		assembly
	sensing of disc (e.g., disc or hole size)	216	Having tone arm set-down control
185	Disc size sensor on or using	217	By disc sensing (e.g., by
	tone arm		sensed disc or hole size)
186	Stepped tone arm stop element	218	Having groove engaging driving
187	Disc size sensor in feed path		element
188	Disc size sensor at turntable	219.1	With drive transverse to
	position		storage track

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221 With additional drive (e.g., 251 Baving application of counterbalancing force return) 222 By lead screw 253 By resilient force element (e.g., antiskating) 223 By lead screw 253 By resilient force element (e.g., antiskating) 224 With passive linear tracking 254 Specified weight mounting 225 Restoring after passive 255 Baving specified bearing structure 226 Restoring after passive 255 Maving specified bearing structure 226 Responsive to transducer support condition (e.g., mounting structure 256 Restoring after passive interplay 227 Nomerical count replay 258.1 Rest Rest 228 Rotrollable position production production 230 Purtable mounted template production For cylinder 231 Mechanism condition or storage medium responsive to control For cylinder For support 232 With turntable braking (e.g., vibration damping) motiom responsive control For plable (e.g., floppy) disc 233 Kethanism condition or storage For plate (e.g., floppy) disc	220	Controlled by transducer assembly support	250	Pivoted arm with tracking path compensation
return) 252Lateral (e.g., antiskating) 224By lead screw (e.g., spring) 224By lead screw (e.g., spring) 224By messive linear tracking 251By resilient force element (e.g., spring) 225Bestoring after passive 255Baving specifid bearing tracking 251Bestoring after passive 255Bearing tructure support condition (e.g., movement or position) 226Besponsive to transducer 256Bearing tructure 228Controllable position medium support or motion 229Turntable mounted template 250Bearing tructure on storage medium sensed by transducer assembly 261For cylinder support (e.g., trip device) 262With storage medium removal adjunct responsive) 231With turntable braking (e.g., velocity or reverse responsive) 233But init sensor coupled with 234With turntable braking (e.g., 265With auxiliary turntable tone arm position responsive control 266Driving mechanism 235With storage medium contact structure for support 236With storage on control 267Speed changing 237With electrical control of 268Bearing structure or utmable 238Bud limit sensor coupled with 239Speed 271.1With detail of storage medium 239Speed 271.1With detail of storage medium 239Speed 271.1With detail of storage medium 230With storage structure 231With auxiliary turntable for end 232With storage tructure (e.g., pindle structure) 233Bud limit sensor coupled with 234With auxil componation 235Bud limit sensor coupled with 236Bud limit sensor coupled with 237With addial of transducer 238Bud limit sensor coupled with 239Speed 271.1With detail of storage medium 230Speed 271.1With detail of storage medium 231With auxil there art 232With auxil there art 233Bud limit sensor coupled with 234With viscous limiting of 235Frasable, reversible or re- 236With avid lone arm 237With auxil cone arm 238Buergizing circuit 239Specified detail	221	With additional drive (e.g., scanning, restoring, or	251	Having application of counterbalancing force
222 Raying pivoted tone arm 253 By lead screw (e.g., spring) 224 With passive linear tracking 254 Specified weight mounting 225 Restoring after passive 254 Specified bearing 226 Responsive to transducer 256 Mechanical details of cartridge 227 Numerical count replay 258.1 .Specific detail of storage 228 Controllable position 257 Rest 229 For enclass web looped about pucular lotatable mounts (e.g., support (e.g., trip device) 230 Pewer cueing (i.e., engage/ 259 For enclass web looped about 231 .Mechanism responsive to control For cylinder For cylinder 232 With turntable backing (e.g., trip device) For cylinder For support (e.g., trip device) 233 .Mechanism condition or storage For cylinder For support (e.g., trip device) 233 With turntable backing (e.g., constain (e.g., speed) For support (e.g., trip device) 234 With turntable backing (e.g., constain interaction For cylinder 235 With turuntable backing (e.g., const		return)	252	Lateral (e.g., antiskating)
224With passive linear tracking254Specified weight mounting225Restoring after passive254Specified weight mounting226Responsive to transducer256Mechanical details of cartridge mounting227Numerical count replay257Rest228Controllable position257Rest229Controllable position257Rest230Forwer cueing (i.e., engage/ disengage)258.1.Specific detail of storage231Mechanism responsive to control structure on storage medium sensed by transducer assembly velocity or reverse responsive)260For cylinder adjunct232With turntable braking (e.g., velocity or reverse medium responsive control264With auxiliary turntable (e.g., vtrip dension)234With stopping of motor tone arm position responsive267Specified detail of storage medium responsive control235With electrical control of brake269Driving mechanism contact structure (e.g., constant interaction governor)266Driving mechanism contact structure)241Self-responsive (e.g., governor)271.1With detail of storage medium composite (e.g., package with preview record)243For pliable271.1With detail of storage (e.g., constant interaction governor)244Self-responsive (e.g., governor)273.1Driving mechanism constant interaction governor)245With maula tone arm d	222 223	Having pivoted tone arm	253	By resilient force element
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249.1Having linear guide 277 .Special groove (e.g., particular groove shape)	248	By viscous damping	276	.Electrical track structure
	249.1	Having linear guide	277	.Special groove (e.g., particular

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.,		
	photosensitve, 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		

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 .0f 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)

369 - 12 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) 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)