U. S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

CLASSIFICATION ORDER 1832

JULY 6, 2004

Project No. E-6321

The following classification changes will be effected by this order:

	Class	Subclass	Art Unit	Ex'r Search Room No.
Abolished:	369	75.1, 75.2, 77.1, 77.2, 191, 192, 215, 219, 244, 247, 249, 258, 263, 270, 271, 272, 289, 290, 291	2655	ELEC 00-00
Established:	369	75.11, 75.21, 77.11, 77.21, 191.1, 192.1, 215.1, 219.1, 244.1, 247.1, 249.1, 258.1, 263.1, 270.1, 271.1, 272.1, 289.1, 290.1, 291.1,	2655	ELEC 00-00
	720 (NEW)	600-746	2655	ELEC 00-00

The following classes are also impacted by this order.

Classes: 74, 84, 106, 206, 226, 312, 428, 430, 463, 492 and 523

This order includes the following:

A. CLASSIFICATION MANUAL CHANGES;

B. LISTING OF PRINCIPAL SOURCE OF ESTABLISHED AND DISPOSITION OF ABOLISHED SUBCLASSES;

C. CHANGES TO THE U.S. - I.P.C. CONCORDANCE;

D. DEFINITION CHANGES AND NEW OR ADDITIONAL DEFINITIONS

CLASSIFICATION ORDER 1832

JULY 6, 2004

Project No. E-6321

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CLASSIFICATION ORDER 1832

JULY 6, 2004

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C. CHANGES TO THE U.S. - I.P.C. CONCORDANCE

U. S.		I. P. C.	
Class	Subclass	Subclass	Notation
369	75.11	G11B	33/02
369	75.21	G11B	33/02
369	77.11	G11B	33/02
369	77.21	G11B	33/02
369	191.1	G11B	17/04
			7/08
369	192.1	G11B	17/04
			17/08
369	215.1	G11B	17/30
			21/02
369	219.1	G11B	17/30
			21/02
369	244.1	G11B	17/00
			21/16
369	247.1	G11B	17/00
			21/16
369	249.1	G11B	17/00
			21/16
369	258.1	G11B	23/00
			25/00
369	263.1	G11B	23/00
			25/00
369	270.1	G11B	23/00
			25/00
369	271.1	G11B	23/00
			25/00
369	272.1	G11B	3/70
			5/84
			7/26
369	289.1	G11B	3/70
			5/84
			7/26
369	290.1	G11B	3/70
			5/84
			7/26
369	291.1	G11B	3/70

CLASSIFICATION ORDER 1832

MARCH 2, 2004

Project No. E-6321

C. CHANGES TO THE U.S. - I.P.C. CONCORDANCE

U. S.		I. P. C.	
Class	Subclass	Subclass	Notation
720	600-616	G11B	17/03
			17/04
			33/02
720	617-629	G11B	17/04
720	630-644	G11B	17/03
			17/04
720	645	G11B	17/04
720	646-647	G11B	33/02
720	648-650	G11B	33/14
720	651	G11B	33/08
			33/14
720	652	G11B	33/12
720	653-656	G11B	17/03
			17/04
720	657	G11B	33/02
720	658-694	G11B	7/08
			7/085
			7/09
720	695-717	G11B	17/028
			17/03
			19/20
720	718-724	G11B	7/24
			23/03
720	725-744	G11B	23/03
720	745	G11B	7/0033
720	746	G11B	7/003

CLASS 369 DYNAMIC INFORMATION STORAGE OR RETRIEVAL

JULY 2004

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

INFORMATION LOCATION OR REMOTE OPERATOR ACTUATED CONTROL

.Dictation or transcribing
..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
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

INFORMATION LOCATION OR REMOTE OPERATOR ACTUATED CONTROL
.Selective addressing of storage medium (e.g., programmed access)
..Of optical storage medium
...Plural optical storage media in disc changer
....Plural media are discs stored in cartridges
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
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
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
44.16 ....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

WITH SERVO POSITIONING OF TRANSDUCER ASSEMBLY OVER TRACK COMBINED WITH INFORMATION SIGNAL PROCESSING
.Optical servo system
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
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
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:

CONDITION INDICATING, MONITORING, OR TESTING
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
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 stylus)
69 SYSTEMS OR SUBSYSTEMS COMBINED WITH DIVERSE ART DEVICE
70 .For control of diverse art 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 signal processing
* 77.11 .Slotted for edgewise insertion of storage disc
* 77.21 ..Having disc stored in protective jacket
78 .With lid-mounted transducer assembly carrier
79 .With closure-operated interlock or braking actuator
80 .Particular acoustical structure (e.g., baffle)
81 ..Having collapsible or expandable acoustic path
82 ..Having parallel acoustic paths
83 EDITING OF STORED INFORMATION
84 DUPLICATION OR COPYING (E.G., RERECORDING)
85 .To diverse type of storage medium
86 STORAGE OR RETRIEVAL OF SPATIALLY RELATED ACOUSTIC SIGNALS (E.G., STEREO)
87 .Simulated spatial effect (e.g., pseudo-stereo)
88 .With transformation or intentional distortion of information signal (e.g., preemphasis)
89 .Quadraphonic
90 ..Including modulated subchannel signal
91 .Having distinct electrical channels
92 .Including distinct storage tracks on record medium
93 SYSTEMS HAVING PLURAL PHYSICALLY DISTINCT INDEPENDENT TRACKS ON A SINGLE STORAGE MEDIUM SURFACE
94 .Having layered storage medium
95 .Common time base (i.e., simultaneous)
96 .Continuous consecutive storage or retrieval of interrupted track for single signal (e.g., automatic reversal)
97 ..Tracks transverse to a motion component
98 .Indexing to discrete signal tracks (e.g., consecutive, by chance)
99 SPECIFIC DETAIL OF INFORMATION HANDLING PORTION OF SYSTEM
100 .Radiation beam modification of or by storage medium
101 ..Invisible radiation (e.g., electron beam or X-ray)
102 ..Multiplex
103 ..Holographic
104 ..Ribbon light modulator
105 ..Penumbra or push-pull optical system
106 ..Optical feedback

SPECIFIC DETAIL OF INFORMATION HANDLING PORTION OF SYSTEM

.Radiation beam modification of or by storage medium

107 ..Ground noise suppression, signal envelope, or plural optical modulation

108 ..Color

109.01 ..Diffractive storage medium information element

109.02 ...Plural elements with distinct diffractive characteristics

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 element or particular 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 storage medium

112.06 .....Sectioned optical element

112.07 ......Plural diffractive sections

112.08 ......Lens section

112.09 ......Prism, mirror, or waveguide 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

112.17 ....Plural distinct polarized 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

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

116 ..Light intensity adjustment or maintenance

117 ..Having movable shutter or light gate

118 ..With detail, configuration, or adjunct of element having slit or aperture in radiation path

119 ...With movement of optical beam (e.g., galvanometer)

120 ..Having particular radiation sensor

121 ..With particular light source (e.g., laser, CRT with phosphor)

122 ...Solid state

123 ...Glow lamps

124.01 ..With details of electrical signal processing

124.02 ...With transducing multiple tracks

124.03 ...With transducing using plural beams

124.04 ...Modulating or demodulating

124.05 ...Integrating or sampling

124.06 ...Compressing or decompressing

124.07 ...Auxiliary information arrangement processing (e.g., block headers, subcode, or interpolated information, etc.)

124.08 ...Sectioned information processing (e.g., lengths, frames, or blocks, etc.)

124.09 ...Multiplexing or demultiplexing

124.1 ...Gain processing

124.11 ....Of retrieved signal

124.12 .....Of signals obtained from photo-detector components

124.13 .....With specific frequency or frequency range

124.14 ...Rate, phase, or transient processing

124.15 ...Level detecting using reference signal

125 ..Having photographic storage medium (e.g., variable density or area)

126 .Electrical modification or sensing of storage medium (e.g., capacitive, resistive, electrostatic charge)

127 .Mechanical modification or sensing of storage medium

128 ..With electrical information signal processing

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 intentional distortion of information signal (e.g., compensation for velocity 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)

SPECIFIC DETAIL OF INFORMATION HANDLING PORTION OF SYSTEM

.Mechanical modification or sensing of storage medium

..Specified structure of electrical transducing assembly

...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 signal handling adjunct

142 ...Stylus controlled optical 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 resistance

153 ..Including treatment to facilitate storage (e.g., storage medium softening)

154 ...Heating (e.g., heated stylus)

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 styli

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)

176 DYNAMIC MECHANISM SUBSYSTEM

177 .Having stationary storage medium

178.01 .Access of multiple storage elements (e.g., record changer)

179 ..Cylindrical storage element

180 ..Flexible disc

181 ..Stack height adjustment for tone arm or turntable

182 ..Numerical count shut-off

183 ..Cam shaft transverse to turntable spindle axis of record changer

184 ..Tone arm position control by sensing of disc (e.g., disc or hole size)

185 ...Disc size sensor on or using tone arm

186 ...Stepped tone arm stop element

187 ...Disc size sensor in feed path

188 ...Disc size sensor at turntable position

189 ..Turntable speed control

190 ...By sensing of disc (e.g., disc or hole size)

* 191.1 ..Storage disc fed to and removed from turntable

* 192.1 ...Plural disc holder having unitary separating structure

193 ...Grouped removal with sequential feed

194 ...Coplanar storage

195 ...Both sides of disc used

196 ..Separate motors operate turntable and disc change mechanism

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

* 215.1 .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

* 219.1 ..With drive transverse to storage track

220 ...Controlled by transducer assembly support

221 ...With additional drive (e.g., scanning, restoring, or return)

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

CLASS 720 DYNAMIC OPTICAL INFORMATION STORAGE OR RETRIEVAL

JULY 2004

* 600 PARTICULAR CABINET STRUCTURE FOR OPTICAL MEDIA
* 601 .Tray or drawer loading or ejecting
* 602 ..Controlling acceleration, deceleration or speed
* 603 ..Tray recess
* 604 ..Clamping or chucking media structure
* 605 ...Pivotable chassis mounted turntable or pickup
* 606 ..Sensing tray position or media loading
* 607 ..Rack or pinion
* 608 ..Single multi-purpose driving source
* 609 ..Manual tray ejector
* 610 ..Tray locking
* 611 ..Damped tray
* 612 ..Pivotal tray or tray holder
* 613 ..Particular tray guide
* 614 ..Multiple trays
* 615 ..Multiple media loading
* 616 ...Of diverse media type (e.g., disc and cartridge)
* 617 .Capable of only accepting unprotected insertable single optical medium
* 618 ..Optical card
* 619 ..Loading of optical medium
* 620 ...Edge loading
* 621 ....Roller mechanism
* 622 ....Guide mechanism
* 623 .....Movable guide
* 624 ...Surface loading (e.g., rollers)
* 625 ....Having non-cylindrical roller
* 626 ..Detecting physical characteristics or location of optical medium
* 630 .Capable of only accepting protected insertable single optical medium
* 631 ..Misinsertion mechanism or sensor
* 632 ..Transferring mechanism
* 633 ...Horizontal transference during insertion
* 634 ...Vertical transference into the play position
* 635 ....Having cam
* 636 ..Ejection mechanism
* 637 ...Having locking mechanism
* 638 ...Having ejection arm
* 639 ..Locking mechanism
* 640 ..Pivotable cartridge holder
* 641 ..Guide mechanism
* 642 ..Surface loading (e.g., rollers)
* 643 ..Shutter opening mechanism
* 644 ...Sliding mechanism
* 627 .Capable of alternatively accepting protected or unprotected insertable single optical medium
* 628 ..Inserted through single slot
* 629 ..Unprotected media inserted protected
* 645 .Detecting physical characteristics and location of optical medium
* 646 .Details of exterior front face
* 647 ..Door mechanism
* 648 .Environmental control
* 649 ..Cooling
* 650 ..EMI shielding or electrical grounding
* 651 ..Vibration suppression
* 652 .Arrangement of internal or external components (e.g., space optimization)
* 653 .Internal component conveyed outside housing
* 654 .Modular mounting
* 655 .Particular cover or lid for enclosing media
* 656 .Reproducing diverse-type media (e.g., cartridge and disc)
* 657 .Locking or latching of cabinet or components within cabinet
* 658 DYNAMIC MECHANISM OPTICAL SUBSYSTEM
* 659 .Having power driven optical transducer assembly
* 660 ..Sensor detecting position of optical transducer
* 661 ..Single motor drives optical transducer and at least one other component
* 662 ..Arcuate transducer assembly movement
* 663 ..Linear transducer assembly movement
* 664 ...Rack gear
* 665 ....Backlash prevention
* 666 ...Voice coil
* 667 ..Turntable moves linearly and simultaneously with the optical transducer assembly
* 668 ..Single optical transducer plays both sides of disc record
* 669 ..Plural transducers for a single disc side
* 670 ...Independently movable transducers
* 671 .Protecting optical transducer
* 672 .Transducer carriage or actuator
* 673 ..Locking of transducer carriage
* 674 ..Adjusting transducer carriage
* 675 ...By guide rail or rod
* 676 ..Supported by linear guide rail or rod
* 677 ...Rail attachment to base
* 678 ...Specific rail matérial
* 679 ...Rail dampening or resonance suppression
* 680 ...Transducer carriage supported by roller bearings
* 681 ..Adjustable objective lens support
* 682 ...Linear leaf springs
* 683 ....Coil or magnet
* 684 ....Dampening or resonance suppression
* 685 ....Electrical connection detail
* 686 ...Circular leaf spring
* 687 ....Dampening or resonance suppression
* 688 ..Vibration or resonance suppression
* 689 .Chassis base supporting transducer carriage
* 690 ..Pivotable into reproducing or recording position
* 691 ..Adjustment of chassis base
* 692 ..Vibration or resonance suppression
* 693 ...Grommet and coil spring
* 694 ...Viscoelastic material

Title Change
* Newly Established Subclass
@ Indent Change
& Position Change

DYNAMIC MECHANISM OPTICAL SUBSYSTEM
* 695 .Optical storage medium support (i.e., turntable or spindle motor)
* 696 ..Spindle motor exterior structure
* 697 ...Mounting detail
* 698 ...Dampening
* 699 ...Multiple disks on one spindle
* 700 ..Turntable adjustment
* 701 ..Having balancer
* 702 ...Having balls
* 703 ..Optical storage disc holding structure
* 704 ...Having centering
* 705 ....Using balls
* 706 ...Details of clamping
* 707 ....Radially extending members
* 708 .....Using balls
* 709 .....Having groove or channel
* 710 ....Magnetic
* 711 ....Clamp for different types of disk
* 712 ....Particular shape
* 713 ....Pivoting mechanism
* 714 ....Linear movement
* 715 ...Optical storage disc contact structure on turntable surface
* 716 ....Having dampening
* 717 ....Reducing eccentricity
* 718 OPTICAL STORAGE MEDIUM STRUCTURE
* 719 .Disk protection
* 720 .Disk adapter
* 721 .Disk hub
* 722 ..Hub material or composition
* 723 ..Including clamping plate
* 724 ..Providing a centering protrusion or projection
* 725 .Disk cartridge
* 726 ..Disk cartridge material
* 727 ..Having reinforcement member
* 728 ..Disc cartridge case or jacket
* 729 ...Having disc identification (e.g., write protect hole or tab)
* 730 ...Preventing cartridge misinsertion
* 731 ....Including misinsertion groove
* 732 ...Movable cartridge case or jacket piece
* 733 ....In a linear direction
* 734 ....In a rotated direction
* 735 .....Including a case or jacket piece locking member
* 736 ...Sealed cartridge
* 737 ..Movement prevention or static reduction (e.g., antirattle, protective sheets)
* 738 ..Shutter member
* 739 ...Having guide slots or projections for movement of shutter
* 740 ...Having shutter locking member
* 741 ...Shutter within disk container
* 742 ...Shutter movement is gear driven
* 743 ...Shutter spring mechanism for opening or closing
* 744 ...Shutter material
* 745 .Optical card record
* 746 .Optical tape record
* **********
* FOREIGN ART COLLECTIONS
* **********
* FOR000 CLASS-RELATED FOREIGN DOCUMENTS

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SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: E6321

New Classification	Number Of ORs	Source Classification	Number Of ORs
206/308.1	1	369/75.1	266
360/137	1	369/75.1	266
360/235.5	1	369/263	102
360/255.1	1	369/244	135
360/265.6	1	369/244	135
360/94	1	369/77.1	217
360/97.01	1	369/77.2	280
360/97.02	1	369/75.1	266
360/99.04	1	369/75.1	266
361/685	1	369/75.1	266
367/138	1	369/77.2	280
369/126	1	369/272	28
369/191.1	66	369/191	100
369/192.1	1	369/192	87
	44	369/192	87
369/215.1	8	369/215	58
369/219.1	1	369/219	128
	22	369/219	128
369/244.1	1	369/244	135
	56	369/244	135
369/247.1	1	369/263	102
	48	369/247	84
369/249.1	25	369/249	41
369/258.1	29	369/258	51
369/263.1	33	369/263	102
369/270.1	63	369/270	202
369/271.1	1	369/270	202
	48	369/271	93
369/272.1	1	369/272	28
	12	369/272	28
	15	369/291	293
369/275.1	1	369/271	93
369/290.1	1	369/291	293
	12	369/289	30
	14	369/290	57
369/30.22	1	369/270	202
369/30.36	1	369/215	58
369/30.39	1	369/192	87
369/30.43	1	369/191	100
369/30.48	1	369/244	135
	1	369/77.2	280
369/30.5	1	369/192	87
369/30.61	1	369/192	87
369/30.63	1	369/75.1	266

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: E6321

New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
369/30.66	2	369/191	100	
369/30.67	1	369/77.2	280	
369/30.7	1	369/191	100	
	1	369/192	87	
369/30.75	1	369/77.2	280	
	2	369/191	100	
369/30.76	1	369/192	87	
369/30.77	1	369/191	100	
369/30.78	1	369/191	100	
	1	369/247	84	
	1	369/270	202	
	2	369/75.2	213	
	2	369/77.1	217	
	7	369/192	87	
369/30.81	1	369/77.2	280	
369/30.82	1	369/244	135	
	2	369/192	87	
369/30.83	1	369/192	87	
	2	369/291	293	
369/30.84	1	369/77.1	217	
369/30.85	1	369/77.1	217	
	1	369/77.2	280	
	4	369/191	100	
	6	369/192	87	
369/30.89	1	369/191	100	
	1	369/192	87	
369/30.9	1	369/191	100	
	1	369/192	87	
	1	369/75.1	266	
	2	369/77.1	217	
369/30.92	1	369/191	100	
369/30.93	1	369/192	87	
369/30.98	2	369/191	100	
369/71	1	369/244	135	
369/75.11	76	369/75.1	266	
369/75.21	1	369/75.1	266	
369/77.11	8	369/77.1	217	
369/77.21	53	369/77.2	280	
430/270.14	1	369/272	28	
700/240	1	369/75.1	266	
720/600	3	369/75.2	213	
	6	369/75.1	266	
	6	369/75.1	266	
720/601	1	369/191	100	

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: E6321

New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
720/601	1	369/192	87	
	1	369/75.1	266	
	1	369/77.2	280	
	1	369/77.2	280	
	2	369/77.1	217	
	3	369/75.2	213	
	12	369/75.2	213	
720/602	1	369/258	51	
	1	369/77.2	280	
	2	369/75.1	266	
	2	369/75.2	213	
	2	369/77.1	217	
	3	369/77.1	217	
720/603	1	369/219	128	
	1	369/75.1	266	
	1	369/77.1	217	
	2	369/75.2	213	
	2	369/77.2	280	
	6	369/75.2	213	
	6	369/77.1	217	
720/604	1	369/271	93	
	1	369/77.2	280	
	1	369/77.2	280	
	2	369/192	87	
	2	369/270	202	
	2	369/75.1	266	
	2	369/77.1	217	
	2	369/77.1	217	
	3	369/75.2	213	
	5	369/75.2	213	
720/605	1	369/75.1	266	
	2	369/77.1	217	
	5	369/75.2	213	
720/606	1	369/258	51	
	1	369/290	57	
	1	369/75.1	266	
	1	369/77.2	280	
	3	369/75.2	213	
	3	369/75.2	213	
	4	369/77.1	217	
720/607	1	369/191	100	
	1	369/192	87	
	1	369/192	87	
	1	369/244	135	

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: E6321

New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
720/607	1	369/77.2	280	
	2	369/75.2	213	
	3	369/75.1	266	
	3	369/77.1	217	
	9	369/77.1	217	
	14	369/75.2	213	
720/608	3	369/75.2	213	
	9	369/77.1	217	
720/609	5	369/75.1	266	
	5	369/77.1	217	
720/610	2	369/75.2	213	
	3	369/75.1	266	
	4	369/75.2	213	
	7	369/77.1	217	
720/611	1	369/263	102	
	1	369/75.1	266	
	1	369/77.1	217	
	1	369/77.1	217	
	2	369/263	102	
	2	369/75.2	213	
720/612	1	369/191	100	
	1	369/192	87	
	1	369/75.1	266	
	1	369/75.2	213	
	1	369/77.1	217	
	2	369/77.1	217	
	3	369/75.1	266	
	7	369/75.2	213	
720/613	1	369/75.1	266	
	1	369/77.1	217	
	3	369/75.1	266	
	3	369/75.2	213	
	3	369/77.1	217	
720/614	1	369/191	100	
	1	369/192	87	
	1	369/75.1	266	
	2	369/191	100	
	2	369/75.1	266	
	4	369/75.2	213	
720/615	1	369/77.1	217	
	1	369/77.2	280	
	3	369/191	100	
	3	369/75.1	266	
	4	369/75.2	213	

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
PROJECT: E6321

New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
720/615	5	369/192	87	
720/616	1	369/191	100	
	1	369/75.1	266	
	1	369/75.2	213	
	1	369/77.1	217	
	3	369/75.2	213	
	5	369/77.2	280	
	8	369/77.1	217	
720/618	1	369/191	100	
	1	369/215	58	
	1	369/258	51	
	1	369/77.1	217	
720/619	1	369/192	87	
	1	369/192	87	
	1	369/219	128	
	1	369/75.1	266	
	2	369/77.2	280	
	3	369/77.1	217	
	5	369/77.1	217	
720/620	1	369/270	202	
	4	369/75.2	213	
	14	369/77.1	217	
720/621	1	369/75.1	266	
	4	369/75.2	213	
	6	369/77.1	217	
	8	369/77.1	217	
720/622	2	369/75.2	213	
	3	369/75.2	213	
	5	369/75.1	266	
	8	369/77.1	217	
720/623	1	369/191	100	
	2	369/77.1	217	
	6	369/75.2	213	
	10	369/77.1	217	
720/624	1	369/191	100	
	1	369/244	135	
	1	369/271	93	
	1	369/75.2	213	
	1	369/77.1	217	
	7	369/77.1	217	
720/625	1	369/75.2	213	
	1	369/77.2	280	
	3	369/77.1	217	
720/626	1	369/270	202	

New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
720/626	1	369/77.1	217	
	2	369/75.1	266	
	2	369/75.2	213	
	2	369/77.2	280	
720/627	1	369/271	93	
	1	369/75.1	266	
	1	369/75.1	266	
	1	369/77.1	217	
	3	369/77.2	280	
720/628	1	369/77.1	217	
	2	369/75.2	213	
	6	369/77.2	280	
720/629	3	369/75.2	213	
	4	369/77.2	280	
720/630	1	369/291	293	
	1	369/77.1	217	
	1	369/77.2	280	
	2	369/75.2	213	
720/631	1	369/291	293	
	1	369/77.1	217	
	2	369/77.2	280	
	13	369/77.2	280	
720/632	1	369/75.2	213	
	1	369/75.2	213	
	2	369/75.1	266	
	4	369/77.2	280	
	21	369/77.2	280	
720/633	1	369/75.2	213	
	3	369/75.2	213	
	10	369/77.2	280	
720/634	1	369/75.1	266	
	1	369/77.1	217	
	2	369/75.2	213	
	3	369/192	87	
	3	369/77.2	280	
720/635	1	369/258	51	
	1	369/75.1	266	
	1	369/75.2	213	
	1	369/75.2	213	
	1	369/77.1	217	
	1	369/77.2	280	
	3	369/77.1	217	
	10	369/77.2	280	
720/636	1	369/75.2	213	

SOURCE CLASSIFICATION(S) OF PATENTS
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New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
720/636	1	369/77.2	280	
	2	369/75.2	213	
	4	369/77.2	280	
720/637	2	369/75.2	213	
	6	369/77.2	280	
720/638	2	369/75.2	213	
	3	369/77.2	280	
	8	369/77.2	280	
720/639	1	369/77.1	217	
	2	369/75.2	213	
	3	369/77.2	280	
720/640	1	369/75.1	266	
	2	369/75.2	213	
	6	369/77.2	280	
720/641	1	369/215	58	
	1	369/75.2	213	
	1	369/77.1	217	
	2	369/75.2	213	
	3	369/77.2	280	
	3	369/77.2	280	
720/642	1	369/75.2	213	
	2	369/77.2	280	
	3	369/77.2	280	
720/643	1	369/291	293	
	3	369/77.2	280	
	4	369/77.2	280	
720/644	1	369/219	128	
	1	369/291	293	
	1	369/75.2	213	
	1	369/77.2	280	
	7	369/77.2	280	
720/645	1	369/258	51	
	1	369/289	30	
	1	369/77.1	217	
	2	369/77.1	217	
	3	369/75.1	266	
	4	369/77.2	280	
720/646	1	369/75.2	213	
	3	369/77.1	217	
	4	369/75.1	266	
	4	369/77.2	280	
	5	369/75.1	266	
720/647	1	369/77.2	280	
	4	369/75.1	266	

New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
720/647	4	369/75.2	213	
	6	369/75.1	266	
	6	369/77.1	217	
	14	369/77.2	280	
720/648	1	369/244	135	
	1	369/270	202	
	1	369/75.1	266	
	1	369/75.2	213	
	1	369/77.1	217	
	1	369/77.1	217	
	1	369/77.2	280	
	3	369/75.2	213	
	4	369/77.2	280	
	5	369/75.1	266	
720/649	1	369/75.2	213	
	3	369/75.1	266	
	3	369/77.1	217	
	4	369/75.1	266	
720/650	2	369/75.1	266	
	3	369/75.1	266	
720/651	1	369/247	84	
	1	369/247	84	
	1	369/263	102	
	1	369/75.2	213	
	2	369/263	102	
	2	369/77.2	280	
	5	369/75.1	266	
	5	369/75.1	266	
720/652	1	369/191	100	
	1	369/263	102	
	1	369/75.1	266	
	3	369/77.2	280	
	7	369/75.1	266	
720/653	1	369/75.1	266	
	1	369/75.2	213	
	1	369/77.1	217	
	6	369/75.2	213	
720/654	1	369/244	135	
	1	369/75.1	266	
	1	369/77.1	217	
	1	369/77.2	280	
	4	369/75.1	266	
720/655	1	369/290	57	
	1	369/291	293	

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
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New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
720/655	1	369/75.2	213	
	1	369/77.1	217	
	3	369/75.1	266	
	3	369/75.2	213	
	7	369/75.1	266	
720/656	1	369/75.1	266	
	1	369/75.2	213	
	3	369/75.1	266	
	3	369/77.2	280	
	4	369/77.1	217	
	7	369/75.2	213	
720/657	1	369/77.1	217	
	2	369/75.1	266	
	3	369/75.2	213	
	4	369/75.1	266	
720/658	3	369/244	135	
720/659	1	369/215	58	
	1	369/263	102	
	1	369/75.1	266	
	1	369/75.2	213	
	1	369/75.2	213	
	1	369/77.2	280	
	3	369/215	58	
	3	369/219	128	
	4	369/75.1	266	
720/660	1	369/244	135	
	1	369/244	135	
	3	369/75.1	266	
720/661	1	369/219	128	
	1	369/258	51	
	1	369/75.1	266	
	4	369/77.2	280	
720/662	1	369/75.2	213	
	3	369/244	135	
	6	369/215	58	
720/663	1	369/219	128	
	1	369/258	51	
	5	369/215	58	
	8	369/219	128	
720/664	1	369/191	100	
	1	369/215	58	
	1	369/219	128	
	1	369/75.2	213	
	2	369/75.2	213	

New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
720/664	2	369/77.1	217	
720/665	1	369/247	84	
	3	369/215	58	
	6	369/219	128	
720/666	1	369/244	135	
	1	369/244	135	
	6	369/215	58	
	9	369/219	128	
720/667	1	369/244	135	
	1	369/270	202	
	2	369/219	128	
	2	369/270	202	
720/668	1	369/192	87	
	1	369/215	58	
	1	369/258	51	
	2	369/249	41	
	3	369/219	128	
720/669	1	369/244	135	
	1	369/75.1	266	
	3	369/219	128	
720/670	6	369/219	128	
720/671	1	369/77.2	280	
	2	369/219	128	
	2	369/244	135	
	3	369/244	135	
720/672	1	369/244	135	
	1	369/75.1	266	
	2	369/219	128	
	2	369/244	135	
	3	369/219	128	
720/673	1	369/219	128	
	1	369/249	41	
	1	369/75.1	266	
	1	369/75.2	213	
	1	369/75.2	213	
	2	369/219	128	
	2	369/77.1	217	
	2	369/77.2	280	
	4	369/263	102	
	5	369/215	58	
	5	369/244	135	
720/674	1	369/249	41	
	1	369/258	51	
	1	369/75.1	266	

New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
720/674	2	369/219	128	
	2	369/244	135	
	3	369/215	58	
	5	369/244	135	
720/675	1	369/215	58	
	1	369/263	102	
	1	369/77.1	217	
	4	369/219	128	
	4	369/249	41	
	14	369/219	128	
720/676	1	369/191	100	
	1	369/215	58	
	1	369/75.2	213	
	1	369/77.2	280	
	2	369/249	41	
	3	369/219	128	
	3	369/75.1	266	
	5	369/219	128	
720/677	1	369/215	58	
	1	369/219	128	
	1	369/247	84	
	1	369/75.1	266	
720/678	1	369/215	58	
	1	369/219	128	
720/679	1	369/219	128	
	1	369/244	135	
	2	369/247	84	
720/680	1	369/75.1	266	
	2	369/215	58	
	2	369/219	128	
	2	369/249	41	
720/681	1	369/215	58	
	1	369/219	128	
	1	369/247	84	
	1	369/247	84	
	1	369/263	102	
	2	369/244	135	
	5	369/244	135	
720/682	1	369/219	128	
	1	369/247	84	
	1	369/249	41	
	2	369/244	135	
	3	369/215	58	
	4	369/244	135	

SOURCE CLASSIFICATION(S) OF PATENTS
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New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
720/683	1	369/75.1	266	
	2	369/219	128	
	2	369/219	128	
	2	369/249	41	
	5	369/244	135	
	6	369/244	135	
720/684	1	369/244	135	
	1	369/249	41	
	3	369/247	84	
	6	369/247	84	
720/685	1	369/75.2	213	
	2	369/219	128	
	5	369/244	135	
720/686	1	369/215	58	
	1	369/244	135	
	1	369/271	93	
720/687	1	369/244	135	
	2	369/247	84	
720/688	1	369/219	128	
	1	369/244	135	
	1	369/263	102	
	1	369/75.1	266	
	1	369/77.2	280	
	3	369/247	84	
720/689	1	369/219	128	
	2	369/75.1	266	
	2	369/77.1	217	
720/690	1	369/75.2	213	
	1	369/77.1	217	
	2	369/77.1	217	
720/691	1	369/215	58	
	1	369/219	128	
	1	369/244	135	
	1	369/247	84	
720/692	1	369/219	128	
	1	369/244	135	
	1	369/247	84	
	1	369/75.2	213	
	1	369/77.2	280	
	2	369/263	102	
	4	369/247	84	
	6	369/263	102	
720/693	1	369/219	128	
	1	369/263	102	

SOURCE CLASSIFICATION(S) OF PATENTS
IN NEWLY ESTABLISHED SUBCLASSES REPORT
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New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
720/693	3	369/247	84	
	3	369/263	102	
720/694	1	369/215	58	
	2	369/247	84	
	6	369/263	102	
720/695	1	369/244	135	
	1	369/258	51	
	1	369/258	51	
	1	369/271	93	
720/696	1	369/263	102	
	1	369/290	57	
	2	369/258	51	
	3	369/270	202	
720/697	1	369/263	102	
	1	369/270	202	
	3	369/219	128	
	4	369/258	51	
720/698	1	369/247	84	
	1	369/263	102	
	1	369/270	202	
	1	369/270	202	
	1	369/271	93	
	9	369/263	102	
720/699	1	369/271	93	
	2	369/270	202	
720/700	1	369/270	202	
	1	369/270	202	
	1	369/271	93	
	1	369/271	93	
	1	369/77.1	217	
	1	369/77.1	217	
720/701	1	369/263	102	
	2	369/263	102	
	2	369/270	202	
720/702	5	369/263	102	
	5	369/263	102	
720/703	1	369/263	102	
	1	369/263	102	
	1	369/270	202	
	1	369/271	93	
	1	369/290	57	
	1	369/291	293	
	1	369/77.2	280	
	2	369/77.1	217	

New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
720/703	2	369/77.2	280	
	3	369/75.2	213	
720/704	1	369/263	102	
	1	369/270	202	
	1	369/289	30	
	1	369/77.1	217	
	5	369/271	93	
	16	369/270	202	
720/705	1	369/270	202	
	2	369/271	93	
720/706	1	369/263	102	
	1	369/290	57	
	1	369/75.1	266	
	2	369/270	202	
	3	369/75.2	213	
	3	369/77.1	217	
	4	369/271	93	
	6	369/270	202	
720/707	1	369/191	100	
	1	369/258	51	
	1	369/271	93	
	1	369/289	30	
	1	369/77.1	217	
	3	369/270	202	
	5	369/271	93	
	16	369/270	202	
720/708	1	369/271	93	
	1	369/271	93	
	2	369/270	202	
720/709	1	369/270	202	
	6	369/270	202	
720/710	1	369/263	102	
	3	369/270	202	
	4	369/271	93	
	22	369/270	202	
720/711	1	369/75.2	213	
	4	369/270	202	
	5	369/271	93	
720/712	1	369/270	202	
	1	369/271	93	
	1	369/290	57	
	7	369/270	202	
720/713	1	369/271	93	
	1	369/77.2	280	

New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
720/713	8	369/270	202	
720/714	1	369/271	93	
	3	369/270	202	
720/715	1	369/75.2	213	
	2	369/270	202	
	2	369/271	93	
720/716	1	369/263	102	
	1	369/263	102	
	1	369/271	93	
	1	369/75.1	266	
	4	369/270	202	
720/717	1	369/263	102	
	1	369/75.2	213	
	2	369/270	202	
720/718	1	369/258	51	
	1	369/270	202	
	1	369/272	28	
	2	369/289	30	
	2	369/290	57	
	2	369/291	293	
	7	369/272	28	
720/719	1	369/272	28	
	1	369/272	28	
	1	369/290	57	
	2	369/290	57	
	2	369/291	293	
	13	369/291	293	
720/720	1	369/289	30	
	1	369/77.1	217	
	1	369/77.1	217	
	1	369/77.2	280	
	2	369/290	57	
	3	369/291	293	
	8	369/291	293	
	12	369/289	30	
720/721	1	369/270	202	
	1	369/272	28	
	1	369/291	293	
	1	369/75.1	266	
	8	369/290	57	
720/722	1	369/270	202	
	6	369/290	57	
720/723	2	369/270	202	
	5	369/290	57	

New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
720/724	1	369/290	57	
	10	369/290	57	
720/725	1	369/272	28	
	1	369/75.1	266	
	2	369/291	293	
	4	369/291	293	
720/726	1	369/263	102	
	8	369/291	293	
720/727	5	369/291	293	
720/728	1	369/272	28	
	1	369/77.2	280	
	4	369/291	293	
	25	369/291	293	
720/729	1	369/77.2	280	
	6	369/291	293	
	11	369/291	293	
720/730	1	369/75.1	266	
	2	369/291	293	
	7	369/291	293	
720/731	1	369/75.1	266	
	1	369/75.2	213	
	2	369/291	293	
	3	369/77.2	280	
	5	369/291	293	
720/732	1	369/75.1	266	
	1	369/75.2	213	
	1	369/77.2	280	
	3	369/291	293	
720/733	1	369/75.1	266	
	18	369/291	293	
720/734	1	369/75.1	266	
	1	369/77.2	280	
	11	369/291	293	
720/735	1	369/291	293	
	20	369/291	293	
720/736	1	369/291	293	
	2	369/291	293	
720/737	3	369/291	293	
	8	369/291	293	
720/738	1	369/75.2	213	
	2	369/75.1	266	
	2	369/77.2	280	
	10	369/291	293	
	13	369/291	293	

SOURCE CLASSIFICATION(S) OF PATENTS
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New Classification	Number Of ORs	Source Classification	Number Of ORs	Comments
720/739	1	369/77.2	280	
	6	369/291	293	
	21	369/291	293	
720/740	6	369/291	293	
	6	369/291	293	
720/741	1	369/291	293	
720/742	1	369/77.2	280	
	2	369/291	293	
	3	369/291	293	
720/743	1	369/291	293	
	1	369/75.2	213	
	1	369/77.2	280	
	11	369/291	293	
720/744	4	369/291	293	
	7	369/291	293	
720/745	1	369/258	51	
	1	369/75.1	266	
720/746	1	369/258	51	
	1	369/258	51	
	1	369/291	293	

DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

PROJECT: E6321

Source Classification	Number Of ORs	New Classification	Number Of ORs
369/191	100	369/191.1	66
		369/30.43	1
		369/30.66	2
		369/30.7	1
		369/30.75	2
		369/30.77	1
		369/30.78	1
		369/30.85	4
		369/30.89	1
		369/30.9	1
		369/30.92	1
		369/30.98	2
		720/601	1
		720/607	1
		720/612	1
		720/614	1
		720/614	2
		720/615	3
		720/616	1
		720/618	1
		720/623	1
		720/624	1
		720/652	1
		720/664	1
		720/676	1
		720/707	1
369/192	87	369/192.1	1
		369/192.1	44
		369/30.39	1
		369/30.5	1
		369/30.61	1
		369/30.7	1
		369/30.76	1
		369/30.78	7
		369/30.82	2
		369/30.83	1
		369/30.85	6
		369/30.89	1
		369/30.9	1
		369/30.93	1
		720/601	1
		720/604	2
		720/607	1
		720/612	1
		720/614	1
		720/615	5

Source Classification	Number Of ORs	New Classification	Number Of ORs
369/192	87	720/619	1
		720/634	3
		720/668	1
369/215	58	369/215.1	8
		369/30.36	1
		720/618	1
		720/641	1
		720/659	1
		720/659	3
		720/662	6
		720/663	5
		720/664	1
		720/665	3
		720/666	6
		720/668	1
		720/673	5
		720/674	3
		720/675	1
		720/676	1
		720/677	1
		720/678	1
		720/680	2
		720/681	1
		720/682	3
		720/686	1
		720/691	1
		720/694	1
369/219	128	369/219.1	1
		369/219.1	22
		720/603	1
		720/619	1
		720/644	1
		720/659	3
		720/661	1
		720/663	1
		720/663	8
		720/664	1
		720/665	6
		720/666	9
		720/667	2
		720/668	3
		720/669	3
		720/670	6
		720/671	2
		720/672	2
		720/672	3

Source Classification	Number Of ORs	New Classification	Number Of ORs
369/219	128	720/673	1
		720/673	2
		720/674	2
		720/675	4
		720/675	14
		720/676	3
		720/676	5
		720/677	1
		720/678	1
		720/679	1
		720/680	2
		720/681	1
		720/682	1
		720/683	2
		720/685	2
		720/688	1
		720/689	1
		720/691	1
		720/692	1
		720/693	1
		720/697	3
369/244	135	360/255.1	1
		360/265.6	1
		369/244.1	1
		369/244.1	56
		369/30.48	1
		369/30.82	1
		369/71	1
		720/607	1
		720/624	1
		720/648	1
		720/654	1
		720/658	3
		720/660	1
		720/662	3
		720/666	1
		720/667	1
		720/669	1
		720/671	2
		720/671	3
		720/672	1
		720/672	2
		720/673	5
		720/674	2
		720/674	5
		720/679	1

Source Classification	Number Of ORs	New Classification	Number Of ORs
369/244	135	720/681	2
		720/681	5
		720/682	2
		720/682	4
		720/683	5
		720/683	6
		720/684	1
		720/685	5
		720/686	1
		720/687	1
		720/688	1
		720/691	1
		720/692	1
		720/695	1
369/247	84	369/247.1	48
		369/30.78	1
		720/651	1
		720/665	1
		720/677	1
		720/679	2
		720/681	1
		720/682	1
		720/684	3
		720/684	6
		720/687	2
		720/688	3
		720/691	1
		720/692	1
		720/692	4
		720/693	3
		720/694	2
		720/698	1
369/249	41	369/249.1	25
		720/668	2
		720/673	1
		720/674	1
		720/675	4
		720/676	2
		720/680	2
		720/682	1
		720/683	2
		720/684	1
369/258	51	369/258.1	29
		720/602	1
		720/606	1
		720/618	1

Source Classification	Number Of ORs	New Classification	Number Of ORs
369/258	51	720/635	1
		720/645	1
		720/661	1
		720/663	1
		720/668	1
		720/674	1
		720/695	1
		720/696	2
		720/697	4
		720/707	1
		720/718	1
		720/745	1
		720/746	1
369/263	102	360/235.5	1
		369/247.1	1
		369/263.1	33
		720/611	1
		720/611	2
		720/651	1
		720/651	2
		720/652	1
		720/659	1
		720/673	4
		720/675	1
		720/681	1
		720/688	1
		720/692	2
		720/692	6
		720/693	1
		720/693	3
		720/694	6
		720/696	1
		720/697	1
		720/698	1
		720/698	9
		720/701	1
		720/701	2
		720/702	5
		720/703	1
		720/704	1
		720/706	1
		720/710	1
		720/716	1
		720/717	1
		720/726	1
369/270	202	369/270.1	63

Source Classification	Number Of ORs	New Classification	Number Of ORs
369/270	202	369/271.1	1
		369/30.22	1
		369/30.78	1
		720/604	2
		720/620	1
		720/626	1
		720/648	1
		720/667	1
		720/667	2
		720/696	3
		720/697	1
		720/698	1
		720/699	2
		720/700	1
		720/701	2
		720/703	1
		720/704	1
		720/704	16
		720/705	1
		720/706	2
		720/706	6
		720/707	3
		720/707	16
		720/708	2
		720/709	1
		720/709	6
		720/710	3
		720/710	22
		720/711	4
		720/712	1
		720/712	7
		720/713	8
		720/714	3
		720/715	2
		720/716	4
		720/717	2
		720/718	1
		720/721	1
		720/722	1
		720/723	2
369/271	93	369/271.1	48
		369/275.1	1
		720/604	1
		720/624	1
		720/627	1
		720/686	1

Source Classification	Number Of ORs	New Classification	Number Of ORs
369/271	93	720/695	1
		720/698	1
		720/699	1
		720/700	1
		720/703	1
		720/704	5
		720/705	2
		720/706	4
		720/707	1
		720/707	5
		720/708	1
		720/710	4
		720/711	5
		720/712	1
		720/713	1
		720/714	1
		720/715	2
		720/716	1
369/272	28	369/126	1
		369/272.1	1
		369/272.1	12
		430/270.14	1
		720/718	1
		720/718	7
		720/719	1
		720/721	1
		720/725	1
		720/728	1
369/289	30	369/290.1	12
		720/645	1
		720/704	1
		720/707	1
		720/718	2
		720/720	1
		720/720	12
369/290	57	369/290.1	14
		720/606	1
		720/655	1
		720/696	1
		720/703	1
		720/706	1
		720/712	1
		720/718	2
		720/719	1
		720/719	2
		720/720	2

Source Classification	Number Of ORs	New Classification	Number Of ORs
369/290	57	720/721	8
		720/722	6
		720/723	5
		720/724	1
		720/724	10
369/291	293	369/272.1	15
		369/290.1	1
		369/30.83	2
		720/630	1
		720/631	1
		720/643	1
		720/644	1
		720/655	1
		720/703	1
		720/718	2
		720/719	2
		720/719	13
		720/720	3
		720/720	8
		720/721	1
		720/725	2
		720/725	4
		720/726	8
		720/727	5
		720/728	4
		720/728	25
		720/729	6
		720/729	11
		720/730	2
		720/730	7
		720/731	2
		720/731	5
		720/732	3
		720/733	18
		720/734	11
		720/735	1
		720/735	20
		720/736	1
		720/736	2
		720/737	3
		720/737	8
		720/738	10
		720/738	13
		720/739	6
		720/739	21
		720/740	6

Source Classification	Number Of ORs	New Classification	Number Of ORs
369/291	293	720/741	1
		720/742	2
		720/742	3
		720/743	1
		720/743	11
		720/744	4
		720/744	7
		720/746	1
369/75.1	266	206/308.1	1
		360/137	1
		360/97.02	1
		360/99.04	1
		361/685	1
		369/30.63	1
		369/30.9	1
		369/75.11	76
		369/75.21	1
		700/240	1
		720/600	6
		720/601	1
		720/602	2
		720/603	1
		720/604	2
		720/605	1
		720/606	1
		720/607	3
		720/609	5
		720/610	3
		720/611	1
		720/612	1
		720/612	3
		720/613	1
		720/613	3
		720/614	1
		720/614	2
		720/615	3
		720/616	1
		720/619	1
		720/621	1
		720/622	5
		720/626	2
		720/627	1
		720/632	2
		720/634	1
		720/635	1
		720/640	1

Source Classification	Number Of ORs	New Classification	Number Of ORs
369/75.1	266	720/645	3
		720/646	4
		720/646	5
		720/647	4
		720/647	6
		720/648	1
		720/648	5
		720/649	3
		720/649	4
		720/650	2
		720/650	3
		720/651	5
		720/652	1
		720/652	7
		720/653	1
		720/654	1
		720/654	4
		720/655	3
		720/655	7
		720/656	1
		720/656	3
		720/657	2
		720/657	4
		720/659	1
		720/659	4
		720/660	3
		720/661	1
		720/669	1
		720/672	1
		720/673	1
		720/674	1
		720/676	3
		720/677	1
		720/680	1
		720/683	1
		720/688	1
		720/689	2
		720/706	1
		720/716	1
		720/721	1
		720/725	1
		720/730	1
		720/731	1
		720/732	1
		720/733	1
		720/734	1

Source Classification	Number Of ORs	New Classification	Number Of ORs
369/75.1	266	720/738	2
		720/745	1
369/75.2	213	369/30.78	2
		720/600	3
		720/601	3
		720/601	12
		720/602	2
		720/603	2
		720/603	6
		720/604	3
		720/604	5
		720/605	5
		720/606	3
		720/607	2
		720/607	14
		720/608	3
		720/610	2
		720/610	4
		720/611	2
		720/612	1
		720/612	7
		720/613	3
		720/614	4
		720/615	4
		720/616	1
		720/616	3
		720/620	4
		720/621	4
		720/622	2
		720/622	3
		720/623	6
		720/624	1
		720/625	1
		720/626	2
		720/628	2
		720/629	3
		720/630	2
		720/632	1
		720/633	1
		720/633	3
		720/634	2
		720/635	1
		720/636	1
		720/636	2
		720/637	2
		720/638	2

Source Classification	Number Of ORs	New Classification	Number Of ORs
369/75.2	213	720/639	2
		720/640	2
		720/641	1
		720/641	2
		720/642	1
		720/644	1
		720/646	1
		720/647	4
		720/648	1
		720/648	3
		720/649	1
		720/651	1
		720/653	1
		720/653	6
		720/655	1
		720/655	3
		720/656	1
		720/656	7
		720/657	3
		720/659	1
		720/662	1
		720/664	1
		720/664	2
		720/673	1
		720/676	1
		720/685	1
		720/690	1
		720/692	1
		720/703	3
		720/706	3
		720/711	1
		720/715	1
		720/717	1
		720/731	1
		720/732	1
		720/738	1
		720/743	1
369/77.1	217	360/94	1
		369/30.78	2
		369/30.84	1
		369/30.85	1
		369/30.9	2
		369/77.11	8
		720/601	2
		720/602	2
		720/602	3

Source Classification	Number Of ORs	New Classification	Number Of ORs
369/77.1	217	720/603	1
		720/603	6
		720/604	2
		720/605	2
		720/606	4
		720/607	3
		720/607	9
		720/608	9
		720/609	5
		720/610	7
		720/611	1
		720/612	1
		720/612	2
		720/613	1
		720/613	3
		720/615	1
		720/616	1
		720/616	8
		720/618	1
		720/619	3
		720/619	5
		720/620	14
		720/621	6
		720/621	8
		720/622	8
		720/623	2
		720/623	10
		720/624	1
		720/624	7
		720/625	3
		720/626	1
		720/627	1
		720/628	1
		720/630	1
		720/631	1
		720/634	1
		720/635	1
		720/635	3
		720/639	1
		720/641	1
		720/645	1
		720/645	2
		720/646	3
		720/647	6
		720/648	1
		720/649	3

Source Classification	Number Of ORs	New Classification	Number Of ORs
369/77.1	217	720/653	1
		720/654	1
		720/655	1
		720/656	4
		720/657	1
		720/664	2
		720/673	2
		720/675	1
		720/689	2
		720/690	1
		720/690	2
		720/700	1
		720/703	2
		720/704	1
		720/706	3
		720/707	1
		720/720	1
369/77.2	280	360/97.01	1
		367/138	1
		369/30.48	1
		369/30.67	1
		369/30.75	1
		369/30.81	1
		369/30.85	1
		369/77.21	53
		720/601	1
		720/602	1
		720/603	2
		720/604	1
		720/606	1
		720/607	1
		720/615	1
		720/616	5
		720/619	2
		720/625	1
		720/626	2
		720/627	3
		720/628	6
		720/629	4
		720/630	1
		720/631	2
		720/631	13
		720/632	4
		720/632	21
		720/633	10
		720/634	3

Source Classification	Number Of ORs	New Classification	Number Of ORs
369/77.2	280	720/635	1
		720/635	10
		720/636	1
		720/636	4
		720/637	6
		720/638	3
		720/638	8
		720/639	3
		720/640	6
		720/641	3
		720/642	2
		720/642	3
		720/643	3
		720/643	4
		720/644	1
		720/644	7
		720/645	4
		720/646	4
		720/647	1
		720/647	14
		720/648	1
		720/648	4
		720/651	2
		720/652	3
		720/654	1
		720/656	3
		720/659	1
		720/661	4
		720/671	1
		720/673	2
		720/676	1
		720/688	1
		720/692	1
		720/703	1
		720/703	2
		720/713	1
		720/720	1
		720/728	1
		720/729	1
		720/731	3
		720/732	1
		720/734	1
		720/738	2
		720/739	1
		720/742	1
		720/743	1

D. CHANGES TO THE DEFINITIONS (Project No. E-6321)

CLASS 74 – MACHINE ELEMENT OR MECHANISM

Subclass 28: Under SEE OR SEARCH CLASS, in the reference to Class 369

Delete:

215+

Insert:

215.1-230

Insert:

720, Dynamic Optical Information Storage or Retrieval, subclasses 659-670 for power driven transducer assembly in a dynamic optical information storage or retrieval device.

D. CHANGES TO THE DEFINITIONS (Project No. E-6321)

CLASS 84 – MUSIC

Subclass 601: Under SEE OR SEARCH CLASS, in the reference to Class 369

Delete:

272+

Insert:

272.1-291.1

Insert:

720, Dynamic Optical Information Storage or Retrieval, subclasses 718-746 for optical storage medium structure.

D. CHANGES TO THE DEFINITIONS (Project No. E-6321)

CLASS 106 – COMPOSITIONS: COATING OR PLASTIC

Class Definition: In REFERENCES TO OTHER CLASSES, under SEE OR SEARCH CLASS, in the reference to class 369

Delete:

272+

Insert:

272.1-291.1

Insert:

720, Dynamic Optical Information Storage or Retrieval, subclasses 718-746 for optical storage medium structure.

Subclass 37: Under SEE OR SEARCH CLASS, in the reference to Class 369

Delete:

272+

Insert:

272.1-291.1

Insert:

720, Dynamic Optical Information Storage or Retrieval, subclasses 718-746 for optical storage medium structure.

D. CHANGES TO THE DEFINITIONS (Project No. E-6321)

CLASS 206 – SPECIAL RECEPTACLE OR PACKAGE

Subclass 307: Under SEE OR SEARCH CLASS, in the reference to Class 369

Delete:

272+

Insert:

272.1-291.1

Insert:

720, Dynamic Optical Information Storage or Retrieval, subclasses 718-746 for optical storage medium structure.

Subclass 308.1: Under SEE OR SEARCH CLASS, in the reference to Class 369

Delete:

272+

Insert:

272.1-291.1

Insert:

720, Dynamic Optical Information Storage or Retrieval, subclasses 718-746 for optical storage medium structure.

D. CHANGES TO THE DEFINITIONS (Project No. E-6321)

CLASS 226 – ADVANCING MATERIAL OF INDETERMINATE LENGTH

Class Definition**:** Under REFERENCES TO OTHER CLASSES, under SEE OR SEARCH CLASS, in the reference to class 369

Delete:

subclass 258

Insert:

subclasses 258.1-271.1

Insert:

720, Dynamic Optical Information Storage or Retrieval, subclasses 718-746 for optical storage medium structure.

D. CHANGES TO THE DEFINITIONS (Project No. E-6321)

CLASS 312 – SUPPORT CABINET STRUCTURE

Class Definition: Under REFERENCE TO OTHER CLASSES, under SEE OR SEARCH CLASS, in the reference to class 369

Delete:

75.1+

Insert:

75.11-82

Insert:

720, Dynamic Optical Information Storage or Retrieval, subclasses 600-657 for a particular cabinet structure for optical media.

Subclass 8.1: Under SEE OR SEARCH CLASS, in the reference to class 369

Delete:

75.1+

Insert:

75.11-82

Insert:

720, Dynamic Optical Information Storage or Retrieval, subclasses 600-657 for a particular cabinet structure for optical media.

Subclass 9.1: Under SEE OR SEARCH CLASS, in the reference to class 369

Delete:

75.1+

Insert:

75.11-82

Insert:

720, Dynamic Optical Information Storage or Retrieval, subclasses 600-657 for a particular cabinet structure for optical media.

D. CHANGES TO THE DEFINTIONS (Project No. E-6321)

CLASS 369 – DYNAMIC INFORMATION STORAGE OR RETRIEVAL

Definitions Abolished:

Subclasses:

75.1, 75.2, 77.1, 77.2, 191, 192,

215, 219, 244, 247, 249, 258,

263, 270, 271, 272, 289, 290, 291

Definitions Modified:

Subclass 12: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

75.1+

Insert:

75.11-82

Subclass 13.21: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

75.2

Insert:

75.21

Subclass 13.36: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

77.1 and 77.2

Insert:

77.11 and 77.21 respectively.

Subclass 36.01: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

192

Insert:

192.1

Subclass 37.01: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

192

Insert:

192.1

Subclass 38.01: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

192

Insert:

192.1

Subclass 39.01: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

192

Insert:

192.1

Subclass 76: Under subclass definition

Delete:

75.1+

Insert:

75.11

Under (1) Note

Delete:

75.1 and 77.1

Insert:

75.11 and 77.11 respectively.

Subclass 78: Under subclass definition

Delete:

75.1

Insert:

75.11

Subclass 79: Under subclass definition

Delete:

75.1

Insert:

75.11

Subclass 80: Under subclass definition

Delete:

75.1

Insert:

75.11

Subclass 135: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

215+ and 244+

Insert:

215.1-230 and 244.1-257 respectively.

Subclass 158: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

244+

Insert:

244.1-257

Subclass 178.01: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

215

Insert:

215.1

Subclass 193**:** Under subclass definition

Delete:

191

Insert:

191.1

Subclass 194: Under subclass definition

Delete:

191

Insert:

191.1

Subclass 195: Under subclass definition

Delete:

191

Insert:

191.1

Subclass 207: Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

290

Insert:

290.1

Subclass 224: Under subclass definition

Delete:

215

Insert:

215.1

Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

249

Insert:

249.1

Subclass 248: Under subclass definition

Delete:

247

Insert:

247.1

Subclass 250: Under subclass definition

Delete:

244

Insert:

244.1

Subclass 251: Under subclass definition

Delete:

244

Insert:

244.1

Subclass 259: Under subclass definition

Delete:

258

Insert:

258.1

Subclass 260: Under subclass definition

Delete:

258

Insert:

258.1

Subclass 261: Under subclass definition

Delete:

258

Insert:

258.1

Subclass 262: Under subclass definition

Delete:

258

Insert:

258.1

Under SEE OR SEARCH THIS CLASS, SUBCLASS

Delete:

77.1 and 191+

Insert:

77.11 and 191.1-195 respectively.

Subclass 264: Under subclass definition

Delete:

258

Insert:

258.1

Subclass 273: Under subclass definition

Delete:

272

Insert:

272.1

Subclass 274: Under subclass definition

Delete:

272

Insert:

272.1

Subclass 275.1: Under subclass definition

Delete:

272

Insert:

272.1

Subclass 276: Under subclass definition

Delete:

272

Insert:

272.1

Subclass 277: Under subclass definition

Delete:

272

Insert:

272.1

Subclass 280: Under subclass definition

Delete:

272

Insert:

272.1

Subclass 282: Under subclass definition

Delete:

272

Insert:

272.1

Subclass 283: Under subclass definition

Delete:

272

Insert:

272.1

Subclass 287: Under subclass definition

Delete:

272

Insert:

272.1

Subclass 288: Under subclass definition

Delete:

272

Insert:

272.1

Definitions Established:

75.11 WITH PARTICULAR CABINET STRUCTURE:
This subclass is indented under the class definition. Subject matter including structural details of an enclosure surrounding the components of the dynamic information storage or retrieval system.

(1) Note. The cabinet structures in this and the indented subclasses must include some specific structure of a dynamic information storage or retrieval system or an element thereof, otherwise such structures classified as a cabinet, per se.

SEE OR SEARCH THIS CLASS, SUBCLASS:

12, for cabinet structure for a radiophonograph combination.

SEE OR SEARCH CLASS:

174, Electricity: Conductors and Insulators, subclasses 50-65G for boxes and housings limited by claimed structure to electrical use but having no characteristic limiting them to particular electrical equipment; and subclasses 250-268 for printed circuit arrangements of general utility.

181, Acoustics, subclasses 148-156 for a diaphragm mounted in a cabinet.

312, Supports: Cabinet Structure, subclasses 9.1-9.64 for cabinets or enclosures especially designed to house phonograph instruments or records.

361, Electricity: Electrical Systems and Devices, subclasses 600-837 for boxes and mountings in combination with electrical apparatus having no significant art limitation, or boxes and mounting in combination with plural diverse electrical apparatus.

720, Dynamic Optical Information Storage or Retrieval, subclasses 600-657 for a particular cabinet structure in a dynamic optical information storage or retrieval device.

75.21 With mechanism to place disc on a turntable:
This subclass is indented under subclass 75.11. Subject matter including a mechanical arrangement normally inside the cabinet which moves to the cabinet exterior to position the record medium element onto a turntable within the cabinet.

SEE OR SEARCH CLASS:

720, Dynamic Optical Information Storage or Retrieval, subclasses 601-616 for tray loading or ejecting in a dynamic optical information storage or retrieval device.

77.11 Slotted for edgewise insertion of storage disc:
This subclass is indented under subclass 75.11. Subject matter where there is a long narrow opening in the cabinet structure which is used to insert or remove a disc shaped storage medium.

SEE OR SEARCH CLASS:

720, Dynamic Optical Information Storage or Retrieval, subclasses 617-644 for insertion of optical storage medium in a dynamic optical information storage or retrieval device.

77.21 Having disc stored in protective jacket:
This subclass is indented under subclass 77.11. Subject matter wherein the disc is surrounded by a protective enclosure when in other than the location at which the information storage or retrieval is performed.

(1) Note. The protective jacket is often removed from the cabinet with the disc remaining therein.

SEE OR SEARCH CLASS:

360, Dynamic Magnetic Information Storage or Retrieval, 99.02-99.03 for a floppy disk loading or ejecting mechanism in a magnetic recorder or reproducer.

191.1 Storage disc fed to and removed from turntable:
This subclass is indented under subclass 178.01. Subject matter having a turntable and a supply of storage discs in which each of the discs is consecutively moved from the supply to the turntable prior to storage or retrieval and subsequently removed from the turntable to another location.

(1) Note. The disc may be turned to the original supply to another group of discs, or to some indeterminate location.

192.1 Plural disc holder having unitary separating structure:
This subclass is indented under subclass 191. Subject matter wherein the disc supply includes a casing having distinct sections in which each disc is mounted, the sections being separated by material structurally integral with said casing.

SEE OR SEARCH THIS CLASS, SUBCLASS:

30.38 through 31.01 and 36.01-39.01, for this subject matter combined with optical or nonoptical storage element designation, respectively.

215.1 Having power driven transducer assembly:
This subclass is indented under subclass 176. Subject matter having a source of power which applies a force to drive the transducer assembly along a desired path.

(1) Note. The driving force is often applied to the tone arm.

(2) Note. The incidental driving force resulting from stylus engagement with an information carrying groove is not classified herein.

SEE OR SEARCH CLASS:

720, Dynamic Optical Information Storage or Retrieval, subclasses 659-670 for power driven transducer assembly in a dynamic optical information storage or retrieval device.

219.1 With drive transverse to storage track:
Subject matter under subclass 215.1 wherein the driving force is applied during storage or retrieval to provide or modify the motion necessary thereto.

244.1 Specified detail of transducer assembly support structure:
Subject matter under subclass 176 having particular detail of structure to maintain the transducer assembly at one or more desired locations.

(1) Note. The holding structure may allow motion of the transducer assembly.

(2) Note. This and indented subclasses may include nominal recitation of information handling structure. However, details of such structure with or without support structure will be classified with the particular information handling structure.

SEE OR SEARCH THIS CLASS, SUBCLASS:

158, for an acoustical tone arm.

SEE OR SEARCH CLASS:

720, Dynamic Optical Information Storage or Retrieval, subclasses 672-688 for details of transducer carriage or actuator.

247.1 Vibration or resonance suppression(e.g., damping):
Subject matter under subclass 244.1 including suppression of undesired mechanical energy incident upon a tone arm.

SEE OR SEARCH CLASS:

720, Dynamic Optical Information Storage or Retrieval, subclasses 679, 684, 687 and 692-694 for various types of vibration or resonance suppression devices.

249.1 Having linear guide:
Subject matter under subclass 244.1 having a structure restricting transducer travel to a path along a straight element.

SEE OR SEARCH CLASS:

720, Dynamic Optical Information Storage or Retrieval, subclasses 676-680 for guide rail or rod for supporting a transducer carriage or actuator.

258.1 Specific detail of storage medium support or motion production:
This subclass is indented under subclass 176. Subject matter having particular detail for maintaining the storage medium at a desired location or condition of motion.

SEE OR SEARCH CLASS:

720, Dynamic Optical Information Storage or Retrieval, subclasses 695-717 for optical storage medium support.

263.1 Mounting structure for support or motion producing assembly (e.g., vibration damping):
This subclass is indented under subclass 258.1. Subject matter with structure for keeping either of (a) the support, or (b) the motion producing assembly, at a particular location.

SEE OR SEARCH CLASS:

720, Dynamic Optical Information Storage or Retrieval, subclasses 698 and 716 for vibration dampening in a dynamic optical information storage or retrieval device.

270.1 Disc holding or locating (e.g., spindle structure):
This subclass is indented under subclass 264. Subject matter including structure to maintain the position of the disc with respect to the turntable.

SEE OR SEARCH CLASS:

720, Dynamic Optical Information Storage or Retrieval, subclasses 696-699 for spindle motor exterior structure support.

271.1 With detail of storage medium contact structure on turntable surface:
This subclass is indented under subclass 270.1. Subject matter including detail of turntable surface which contacts and supports the disc.

SEE OR SEARCH CLASS:

720, Dynamic Optical Information Storage or Retrieval, subclass 703 for optical storage disc holding structure.

272.1 STORAGE MEDIUM STRUCTURE:
This subclass is indented under the class definition. Subject matter wherein the specific structure of the information bearing storage medium is recited.

(1) Note. A blank or starting piece not limited to storage or retrieval is classified elsewhere, appropriate to the actual blank. See search notes below.

(2) Note. Mention of intended use such as in the preamble of the claim is not enough for classification in this subclass.

SEE OR SEARCH CLASS:

206, Special Receptacle or Package, subclasses 307-387.15 for holding a machine readable recording medium, particularly subclass 308.1 for receptacles holding an optical disc.

252, Compositions, appropriate subclasses for surface lubricants.

346, Recorders, appropriate subclasses for a perceptible record blank without grooves.

352, Optics: Motion Pictures, subclasses 92, 102 103 and 232-241 for structure of storage medium structure limited to motion pictures.

360, Dynamic Magnetic Information Storage or Retrieval, 131-136 for structure of record medium limited to magnetic storage.

428, Stock Material or Miscellaneous Articles, subclasses 64.1-66.7 for articles usable as optical record carrier or medium.

720, Dynamic Optical Information Storage or retrieval, subclass 718 for optical storage medium structure.

289.1 Adjuncts or adapters
This subclass is indented under subclass 272.1. This subclass is indented under subclass 272.1. Subject matter having or limited to a separable device for use with a storage medium.

290.1 For central area of disc (e.g., hole size or drive sticker):
This subclass is indented under subclass 289. Subject matter wherein an element is added to the portion of a disc storage medium adjacent the center.

(1) Note. An adapter for making small holes from a large hole is classified here.

(2) Note. Another form classified here is an adhesive device with ridges or bumps for reasons related to a disc storage medium.

SEE OR SEARCH CLASS:

16, Miscellaneous Hardware, 2.1-2.5 for bushings, in general.

384, Bearings, 276-301 for a bearing sleeve, or liner.

720, Dynamic Optical Information Storage or Retrieval, subclass 721 for a disk hub.

291.1 Protectors:
This subclass is indented under subclass 289. Subject matter wherein an element is formed for covering or enclosing a storage medium unit for preventing an undesirable harm.

SEE OR SEARCH CLASS:

206, Special Receptacle or Package, subclasses 307-387.15 for a container under the class definition for removably containing an article which includes machine readable information registered thereon.

220, Receptacles, various subclasses and especially subclasses 200-380 for cans or other casings without the storage medium unit.

229, Envelopes, Wrappers, and Paperboard Boxes, subclasses 68.1-84 for envelopes.

242, Winding, Tensioning, or Guiding, subclasses 324.2, 326-326.4, 335-348.4 for a machine convertible information carrier on or within a housing typically termed cartridge, cassette, or magazine, and subclass 601 for a spool provided with a cover.

720, Dynamic Optical Information Storage or Retrieval, subclasses 725-744 for specific details of an optical disk cartridge.

FOREIGN ART COLLECTIONS

The definitions below correspond to abolished subclasses from which these collections were formed. See the Foreign Art Collection schedule of this Class for specific correspondences. [Note: the titles and definitions for *indented* art collections include all the details of the one(s) that are hierarchically superior.]

FOR 139 WITH PARTICULAR CABINET STRUCTURE:

Foreign art collection including structural details of an enclosure surrounding the components of the dynamic information storage or retrieval system.

(1) Note. The cabinet structures in this and the indented subclasses must include some specific structure of a dynamic information storage or retrieval system or an element thereof, otherwise such structures classified as a cabinet, per se.

FOR 140With mechanism to place disc on a turntable:

Foreign art collection including a mechanical arrangement normally inside the cabinet which moves to the cabinet exterior to position the record medium element onto a turntable within the cabinet.

FOR 141Slotted for edgewise insertion of storage disc:

Foreign art collection where there is a long narrow opening in the cabinet structure which is used to insert or remove a disc shaped storage medium.

FOR 142Having disc stored in protective jacket:

Foreign art collection wherein the disc is surrounded by a protective enclosure when in other than the location at which the information storage or retrieval is performed.

(1) Note. The protective jacket is often removed from the cabinet with the disc remaining therein.

FOR 143Storage disc fed to and removed from turntable:

Foreign art collection having a turntable and a supply of storage discs in which each of the discs is consecutively moved from the supply to the turntable prior to storage or retrieval and subsequently removed from the turntable to another location.

(1) Note. The disc may be turned to the original supply to another group of discs, or to some indeterminate location.

FOR 144Plural disc holder having unitary separating structure:

Foreign art collection wherein the disc supply includes a casing having distinct sections in which each disc is mounted, the sections being separated by material structurally integral with said casing.

FOR 145Having power driven transducer assembly:

Foreign art collection having a source of power which applies a force to drive the transducer assembly along a desired path.

(1) Note. The driving force is often applied to the tone arm.

(2) Note. The incidental driving force resulting from stylus engagement with an information carrying groove is not classified herein.

FOR 146With drive transverse to storage track during storage or retrieval:

Foreign art collection wherein the driving force is applied during storage or retrieval to provide or modify the motion necessary thereto.

FOR 147Specific detail of transducer assembly support structure (e.g., tone arm):

Foreign art collection having particular detail of structure to maintain the transducer assembly at one or more desired locations.

(1) Note. The holding structure may allow motion of the transducer assembly.

(2) Note. This and indented subclasses may include nominal recitation of information handling structure. However, details of such structure with or without support structure will be classified with the particular information handling structure.

FOR 148Vibration or resonance suppression (e.g., damping):

Foreign art collection including suppression of undesired mechanical energy incident upon a tone arm.

FOR 149Having linear guide:

Foreign art collection having a structure restricting transducer travel to a path along a straight element.

FOR 150Specific detail of storage medium support or motion production:

Foreign art collection having particular detail for maintaining the storage medium at a desired location or condition of motion.

FOR 151Mounting structure for support or motion producing assembly (e.g., vibration damping):

Foreign art collection with structure for keeping either of (a) the support, or (b) the motion producing assembly, at a particular location.

FOR 152Disc holding or locating (e.g., spindle structure):

Foreign art collection including structure to maintain the position of the disc with respect to the turntable.

FOR 153With detail of storage medium contact structure on turntable surface:

Foreign art collection including detail of turntable surface which contacts and supports the disc.

FOR 154STORAGE MEDIUM STRUCTURE:

Foreign art collection wherein the specific structure of the information bearing storage medium is recited.

(1) Note. A blank or starting piece not limited to storage or retrieval is classified elsewhere, appropriate to the actual blank. See search notes below.

(2) Note. Mention of intended use such as in the preamble of the claim is not enough for classification in this subclass.

FOR 155Adjuncts or adapters:

Foreign art collection having or limited to a separable device for use with a storage medium.

FOR 156For central area of disc (e.g., hole size or drive sticker):

Foreign art collection wherein an element is added to the portion of a disc storage medium adjacent the center.

(1) Note. An adapter for making small holes from a large hole is classified here.

(2) Note. Another form classified here is an adhesive device with ridges or bumps for reasons related to a disc storage medium.

FOR 157Protectors:

Foreign art collection wherein an element is formed for covering or enclosing a storage medium unit for preventing an undesirable harm.

D. CHANGES TO THE DEFINITIONS (Project No. E-6321)

CLASS 428 – STOCK MATERIAL OR MISCELLANEOUS ARTICLES

Subclass 908: Under SEE OR SEARCH CLASS, in the reference to class 369

Delete:

272

Insert:

272.1

Insert:

720, Dynamic Optical Information Storage or Retrieval, subclasses 718-746 for optical storage medium structure.

D. CHANGES TO THE DEFINITIONS (Project No. E-6321)

CLASS 430 – RADIATION IMAGERY CHEMISTRY: PROCESS, COMPOSITION, OR PRODUCT THEREOF

Class Definition: Under REFERENCES TO OTHER CLASSES, under SEE OR SEARCH CLASS, in the reference to class 369

Delete:

272 and 284+

Insert:

272.1 and 284-285

Insert:

720, Dynamic Optical Information Storage or Retrieval, subclasses 718-746 for optical storage medium structure.

D. CHANGES TO THE DEFINITIONS (Project No. E-6321)

CLASS 463 – AMUSEMENT DEVICES: GAMES

Subclass 43: Under SEE OR SEARCH CLASS, in the reference to class 369

Delete:

272+

Insert:

272.1-291.1

Insert:

720, Dynamic Optical Information Storage or Retrieval, subclasses 718-746 for optical storage medium structure.

D. CHANGES TO THE DEFINITIONS (Project No. E-6321)

CLASS 492 – ROLL OR ROLLER

Class Definition: Under REFERENCES TO OTHER CLASSES, under SEE OR SEARCH CLASS, in the reference to class 369

Delete:

272

Insert:

272.1

Insert:

720, Dynamic Optical Information Storage or Retrieval, subclasses 718-746 for optical storage medium structure.

D. CHANGES TO THE DEFINITIONS (Project No. E-6321)

CLASS 523 – SYNTHETIC RESINS OR NATURAL RUBBERS – PART OF THE CLASS 520 SERIES

Subclass 174: Under SEE OR SEARCH CLASS, in the reference to class 369

Delete:

272+

Insert:

272.1-291.1

Insert:

720, Dynamic Optical Information Storage or Retrieval, subclasses 718-746 for optical storage medium structure.

D. CHANGES TO THE DEFINTIONS (Project No. E-6321)

CLASS 720 - DYNAMIC OPTICAL INFORMATION STORAGE OR RETRIVEAL

SECTION I - CLASS DEFINITION

GENERAL STATEMENT OF THE CLASS SUBJECT MATTER

This is the specific class for apparatus and corresponding processes for the storage and retrieval of variable optical or magneto-optical information based on relative movement between an optical storage carrier or medium and a transducer along a continuous path.

This class also includes apparatus and corresponding processes for making copies or editing of optical records falling within the above definition.

This class also includes the record carrier or medium, per se, having particular information storage structure.

SCOPE OF THE CLASS

(1) Note. This class is an integral part of class 369, Dynamic Information Storage or Retrieval, following subclass 18 and after class 360.

(2) Note. An optical record carrier or medium within the meaning of this class is an element which consists a material which can be sensed optically or is comprised of series of mechanical or thermally induced markings which is intended for the storage of more than a single bit of information.

(3) Note. The record carrier or medium must have continuous physical extent over the path of movement and be able to store a time-varying information signal. Static or discrete storage devices are classified elsewhere. See the SEE OR SEARCH CLASS notes below.

(4) Note. The optical record carrier or medium may include other elements for storing dynamic information, such as a magnetic material.

(5) Note. Storage elements which include discrete optical, magnetic areas, inserts or spots, each intended for the storage of single bits of information, whether or not relative motion is used in transducing that information, are classified elsewhere. See the SEE OR SEARCH CLASS notes below.

(6) Note. This class includes elements forming subcombinations specific to apparatus within the class definition such as record carriers, transducers, actuators, supports for the media carrier or the transducer.

(7) Note. Electrical circuits not specific to optical or magneto-optical recording or reproducing which may constitute subcombinations of such apparatus are

classified in the class appropriate for such circuits unless specifically excluded therefrom.

(8) Note. Mechanisms forming subcombinations of apparatus are classified in the appropriate mechanical class providing for such subject matter unless claimed in significant combination with specifics of a dynamic optical storage or retrieval device.

(9) Note. Significantly claimed apparatus external to this class, claimed in combination with apparatus under the class definition, which records or reproduces some quality or quantity related to such external apparatus or its function, is classified in the class appropriate to the external apparatus.

(10) Note. Nominally claimed apparatus external to this class, claimed in combination with apparatus under the class definition, is classified in this class unless provided for in the appropriate external class.

(11) Note. Because of the placement of this class into the class 369 schedule, this class is no longer exhaustive of dynamic optical storage or retrieval, appropriate subclasses in 369 should also be considered.

(12) Note. This class is differentiated from class 206 in that in order to record or reproduce information, the optical recording medium element must first be removed from its container for class 206, while this class allows the optical recording medium element to be maintained within its holder or protector for recording and reproducing.

(13) Note. The combination of an audio signal producing device with the subject matter of this class is classified in this class, except for the combination with telephone signal devices which are classified in the Telephone class. For such excluded subject matter see the SEE OR SEARCH CLASS notes below.

ORGANIZATION OF THIS CLASS:

For the organization of this class, refer to Subclass References to the Current Class, below.

SECTION II - SUBCLASS REFERENCES TO THE CURRENT CLASS:

SEE OR SEARCH THIS CLASS, SUBCLASS:

600 through 657, Special Purpose Devices: for devices designed for use with or control of diverse type devices, or particular structure associated with mechanism for housing, ejecting and/or inserting an optical recording medium element within an enclosure, of the enclosure for such media.

658 through 717, Dynamic Mechanism Optical Subsystems: for mechanism subcombinations peculiar to storage or retrieval absent more than nominal information handling structure.

718 through 746, Structure of Optical Storage Medium: for structure of the optical storage medium element having significant structure for carrying information.

SECTION III - REFERENCES TO OTHER CLASSES

SEE OR SEARCH CLASS:

181, Acoustics, appropriate subclasses for nonelectrical sound wave handling systems and components.

206, Special Receptacles and Packages, subclasses 307-387.15 for holding a machine readable recording medium, particularly subclass 308.1 for receptacles holding an optical disc.

235, Registers, subclasses 435-486 for coded record sensors and 487-495 for records.

242, Winding, Tensioning, or Guiding, subclasses 324.2, 326-326.4, 335-348.4 for a machine convertible information carrier on or within a housing typically termed cartridge, cassette, or magazine, and subclass 601 for a spool provided with a cover.

310, Electrical Generator or Motor Structure, subclasses 67R and 90 for inbuilt and turntable bearing support structure.

312, Supports: Cabinet Structure, subclasses 9.1-9.64 for phonograph cabinets without storage or retrieval structure.

346, Recorders, appropriate subclasses for variation producing only a directly perceptible indication (e.g., a graph).

352, Optics: Motion Pictures, appropriate subclasses for subject matter of this class combined with motion picture recording or projection, particularly subclasses 92, 102-103 and 232-241 for structure of storage medium structure limited to motion pictures.

353, Optics: Image Projectors, subclasses 15-19 for image projectors with sound accompaniment.

355, Photocopying, subclasses 31 and 98 for copying optical sound records.

359, Optical: Systems and Elements, subclasses 642-830 and 719 for particular lens structure; And particularly subclasses 811-830 for particular lens support or mountings.

360, Dynamic Magnetic Information Storage or Retrieval, appropriate subclasses for exclusive magnetic storage or retrieval.

365, Static Information Storage and Retrieval, appropriate subclasses for structure of static or discrete storage or retrieval systems.

379, Telephonic Communications, subclasses 67.1-88.28 for audio message storage, retrieval or synthesis in a telephone communication system.

381, Electrical Audio Signal Processing and Systems and Devices, appropriate subclasses for electrical audio signal handling in general.

386, Television Signal Processing for Dynamic Recording or Reproducing, appropriate subclasses for television signal processing for dynamic recording or reproducing.

399, Electrophotography, subclass 10 for storage of data on the operation of an electrophotographic device (i.e., log report) and subclass 83 for job mode selection with memory.

428, Stock Material or Miscellaneous Articles, particularly subclasses 64.1-66.7 for articles usable as optical record medium or carrier.

430, Radiation Imagery Chemistry: Process, Composition, or Product Thereof, particularly subclasses 270.1-289.1 for radiation imagery chemistry process, composition, or product used as a storage medium.

434, Education and Demonstration, appropriate subclasses for recording or reproducing means combined with significant education apparatus.

505, Superconductor Technology: Apparatus, Material, Process, subclasses 150-239 for high temperature superconducting material, particularly subclasses 170-171 for dynamic information storage or retrieval.

704, Data Processing: Speech Signal Processing, Linguistics, Language Translation, and Audio Compression/Decompression, subclasses 200-504 for speech signal processing involving data processing.

709, Electrical Computers and Digital Data Processing Systems: Multiple Computer or Process Coordinating, subclasses 200-253 for data transferring among multiple computer and digital processing systems.

711, Electrical Computers and Digital Processing Systems: Memory, subclass 4 for addressing dynamic storage devices including address formation or manipulation and subclasses 111-114 for data accessing and control techniques for dynamic storage devices in digital data processing systems.

714, Error Detection/Correction and Fault Detection/Recovery, appropriate subclasses for generic error checking systems.

SUBCLASSES

600 PARTICULAR CABINET STRUCTURE FOR OPTICAL MEDIA:
Subject matter under the class definition including structural details of an enclosure surrounding the components of the optical dynamic information storage or retrieval system or associated internal structure.

601 Tray or drawer loading or ejecting:
Subject matter under subclass 600 including a power driven mechanical arrangement for moving an optical storage medium or carrier inward or outward from the enclosure.

602 Controlling acceleration, deceleration or speed:
Subject matter under subclass 601 including means for controlling acceleration, deceleration or speed of the outwardly movable tray in a variable or invariable manner.

603 Tray recess:
Subject matter under subclass 601 including details of at least one recess in the tray for supporting the optical storage medium.

604 Clamping or chucking media structure:
Subject matter under subclass 601 including details of a clamping mechanism or securing the optical storage medium to a turntable in association with tray movement.

605 Pivotable chassis mounted turntable or pickup:
Subject matter under subclass 604 including a turntable or transducer that is mounted to a swingable chassis that pivots.

606 Sensing tray position or media loading:
Subject matter under subclass 601 including a sensing means for monitoring the position of a tray or the optical storage medium mounted to the tray.

607 Rack or pinion:
Subject matter under subclass 601 wherein the mechanism for moving the tray inward or outward from the enclosure includes a rack or pinion element.

608 Single multi-purpose driving source:
Subject matter under subclass 601 including a single driving source for driving the tray and at least one other subsystem.

(1) Note. Example of such driving includes driving of a tray and clamper mechanism or transducer assembly.

SEE OR SEARCH THIS CLASS, SUBCLASS:

661, for a single motor for driving an optical transducer and at least one other subsystem.

609 Manual tray ejector:
Subject matter under subclass 601 including details of structure for causing the tray supporting the optical storage medium to be manually ejected outward from the enclosure.

610 Tray locking:
Subject matter under subclass 601 including means for locking the tray at a prescribed position for preventing movement of the tray relative to the enclosure.

611 Damped tray:
Subject matter under subclass 601 including means for minimizing undesired oscillations or vibrations of the tray.

SEE OR SEARCH THIS CLASS, SUBCLASSES:

679, for rail damping or resonance suppression.

684, for dampening or resonance suppression of objective lens.

687, for utilizing circular leaf springs for dampening or resonance suppression of objective lens.

688, for reducing vibrations of the transducer carriage or actuator.

692, for suppressing vibration or resonance of chassis base supporting the transducer carriage or actuator.

SEE OR SEARCH CLASS:

369, Dynamic Information Storage or Retrieval, subclass 247.1 for suppression of undesired mechanical energy incident upon a tone arm.

612 Pivotal tray or tray holder:
Subject matter under subclass 601 wherein the mechanical arrangement capable of supporting the optical storage medium is pivotable with respect to the insertion opening of the tray.

613 Particular tray guide:
Subject matter under subclass 601 including details of structure for guiding or supporting at least a portion of a tray's movement during insertion or ejection from an enclosure.

614 Multiple trays:
Subject matter under subclass 601 including a plurality of trays each capable of independently supporting at least one optical storage medium.

615 Multiple media loading:
Subject matter under subclass 601 including means for inserting a plurality of optical storage media into the enclosure either simultaneously or sequentially.

616 Of diverse media type (e.g., disc and cartridge):
Subject matter under subclass 615 wherein the plurality of optical storage media are non-identical in terms of physical characteristics.

(1) Note. Examples of physical characteristics include at least one of format, shape, size, protected vs. unprotected, etc.

617 Capable of only accepting unprotected insertable single optical medium:

Subject matter under subclass 600 wherein an optical storage medium is inserted into a recording or reproducing device without a cartridge, casing or covering.

618 Optical card:
Subject matter under subclass 617 wherein the optical storage medium is non-circular and typically takes the form of a playing card, greeting card or postcard.

619 Loading of optical medium:
Subject matter under subclass 617 including means for moving the optical storage medium inward or outward from the recording or reproducing device.

620 Edge loading:
Subject matter under subclass 619 wherein the optical storage medium is inserted into the recording or reproducing device utilizing the outer circumferential periphery of the optical storage medium.

621 Roller mechanism:
Subject matter under subclass 620 wherein the edge loading means include a roller mechanism for contacting the outer peripheral edge of the optical storage medium.

622 Guide mechanism:
Subject matter under subclass 620 including details of structure for guiding or supporting the movement of the optical storage medium in or out of the recording or reproducing device.

623 Movable guide:
Subject matter under subclass 622 wherein the guiding mechanism is not stationary.

624 Surface loading (e.g., rollers):
Subject matter under subclass 619 wherein the optical storage medium is inserted into a recording or reproducing device utilizing the planar surface area of the optical storage medium.

625 Having non-cylindrical roller:
Subject matter under subclass 624 including a non-cylindrical roller for moving the optical storage medium in or out of the recording or reproducing device.

626 Detecting physical characteristic or location of optical medium:
Subject matter under subclass 617 including a sensor for determining the physical characteristics or location of the optical storage medium within the recording or reproducing device.

(1) Note. Examples of physical characteristics are size, single sided, double sided, capacity, etc.

SEE OR SEARCH THIS CLASS, SUBCLASS:

616, for loading or ejecting diverse media types.

627 Capable of alternatively accepting protected or unprotected insertable single optical medium:
Subject matter under subclass 600 wherein the optical recording or reproducing device is capable of receiving an optical storage medium with or without a cartridge, casing or covering.

628 Inserted through single slot:
Subject matter under subclass 627 wherein the optical storage medium is inserted through the same slot of the recording or reproducing device

629 Unprotected medium inserted protected:
Subject matter under subclass 627 wherein an uncovered optical storage medium is placed into cartridge, casing or covering before the optical storage medium is inserted into the recording or reproducing device.

630 Capable of only accepting protected insertable single optical medium:
Subject matter under subclass 600 wherein the optical storage medium is inserted into a recording or reproducing device with a cartridge, casing or covering.

631 Misinsertion mechanism or sensor:
Subject matter under subclass 630 includes a device to determine whether or not the optical storage medium is properly positioned within the recording or reproducing device.

632 Transferring mechanism:
Subject matter under subclass 630 including means for moving the optical storage medium inward or outward of the recording or reproducing device.

633 Horizontal transference during insertion:
Subject matter under subclass 632 including means for moving the optical storage medium into the recording or reproducing device in a direction parallel to the insertion direction of the optical storage medium.

634 Vertical transference into the play position:
Subject matter under subclass 632 including means for moving the optical storage medium into the play position within the recording or reproducing device in a direction perpendicular to the insertion direction of the optical storage medium.

635 Having cam:
Subject matter under subclass 634 wherein the means for moving the optical storage medium into the play position within the recording or reproducing device utilizes a cam.

636 Ejection mechanism:
Subject matter under subclass 630 including means for expelling the optical storage medium from a recording or reproducing device.

637 Having locking mechanism:
Subject matter under subclass 636 wherein the means for expelling the optical storage medium from the recording or reproducing device utilizes a detent or locking mechanism.

638 Having ejection arm:
Subject matter under subclass 636 wherein the means for removing the optical storage medium from the recording or reproducing device utilizes an elongated bar or rod that engages the optical storage medium.

639 Locking mechanism:
Subject matter under subclass 630 including a means for locking optical storage medium within the recording or reproducing device.

SEE OR SEARCH THIS CLASS, SUBCLASS:

637, for utilizing a locking mechanism for an ejector of a recording or reproducing device.

640 Pivotable cartridge holder:
Subject matter under subclass 630 having a mechanism to retain the optical storage medium that rotates about an axis.

641 Guide mechanism:
Subject matter under subclass 630 including means for guiding the optical storage medium inward or outward of the recording or reproducing device.

SEE OR SEARCH THIS CLASS, SUBCLASS:

622, for utilizing a guiding mechanism for edge loading of an unprotected optical storage medium.

642 Surface loading (e.g., rollers):
Subject matter under subclass 630 wherein the optical storage medium is inserted into a recording or reproducing device utilizing the planar surface area of the optical storage medium.

(1) Note. Edge or surface loading of protected optical medium is classified herein.

SEE OR SEARCH THIS CLASS, SUBCLASS:

624, for surface loading of an unprotected optical medium.

643 Shutter opening mechanism:
Subject matter under subclass 630 comprising means for uncovering a shutter which covers an opening in the cartridge, casing or covering.

644 Sliding mechanism:
Subject matter under subclass 643 including means for moving or sliding of the shutter covering in the cartridge, casing or covering.

645 Detecting physical characteristics and location of optical medium:
Subject matter under subclass 600 including means for sensing a physical characteristic or location of the optical recording medium within the recording or reproducing device.

(1) Note. Examples of characteristic include disk discrimination or sizing identification, or capacity, single sided or double sided.

SEE OR SEARCH THIS CLASS, SUBCLASS:

626, for detection of physical characteristics and location of an unprotected optical medium.

646 Details of exterior front face:
Subject matter under subclass 600 including the details of the enclosure face on which side an optical storage medium is inserted or introduced into the enclosure.

647 Door mechanism:
Subject matter under subclass 646 including a movable structure for closing off an entrance location of the optical medium into the recording or reproducing device.

(1) Note. Example of door mechanism is snap fit.

648 Environmental control:
Subject matter under subclass 600 including means for controlling an ambient condition within the enclosure.

649 Cooling:
Subject matter under subclass 648 including means for controlling the internal environment temperature of the enclosure.

650 EMI shielding or electrical grounding:
Subject matter under subclass 648 wherein the internal enclosure is shielded from extraneous electrostatic or electromagnetic fields or is electrically grounded.

(1) Note. Electrical grounding includes grounding of components within the internal enclosure.

651 Vibration suppression:
Subject matter under subclass 648 including means for minimizing undesired vibrations or oscillations of the enclosure or internal components mounted to the enclosure.

SEE OR SEARCH THIS CLASS, SUBCLASSES:

611, for minimizing undesired oscillations or vibrations of loading or ejection tray.

679, for rail damping or resonance suppression.

684, for dampening or resonance suppression of objective lens.

687, for utilizing circular leaf springs for dampening or resonance suppression of objective lens.

688, for reducing vibrations of the transducer carriage or actuator.

692, for reducing vibrations to the base supporting the optical transducer carriage or actuator.

SEE OR SEARCH CLASS:

369, Dynamic Information Storage or Retrieval, subclass 247.1, for suppression of undesired mechanical energy incident upon a tone arm.

652 Arrangement of internal or external components(e.g., space optimization):
Subject matter under subclass 600 including particular details of the disposition of internal components within the enclosure or details of the arrangement of external components or supporting structure immediately adjacent to the enclosure.

(1) Note. Example of optimization includes particular placement of printed circuit board within the enclosure.

653 Internal component conveyed outside housing:
Subject matter under subclass 600 wherein mechanical arrangements normally inside the enclosure are capable of movement to the enclosure exterior.

(1) Note. Example of internal components movable to the exterior of the enclosure is the optical transducer or turntable.

654 Modular mounting:
Subject matter under subclass 600 including details of a subunit or subunits housing an optical recording device or optical storage medium carrier are mounted within an enclosure for easy assembly, disassembly, repair or flexible arrangement.

655 Particular cover or lid for enclosing media:
Subject matter under subclass 600 including the details of a protective lid or covering placed directly over the optical storage medium seated within the enclosure.

656 Reproducing diverse-type media (e.g., cartridge and disc):
Subject matter under subclass 600 wherein the optical storage or retrieval system is capable of playing different types of optical storage medium which are non-identical in terms of at least one format, shape, size, protected vs. unprotected or etc.

657 Locking or latching of cabinet or components within cabinet:
Subject matter under subclass 600 including particular details of locking or latching internal components within the enclosure and/or details of the locking or latching of the enclosure as a whole to supporting structure immediately adjacent to the enclosure.

658 DYNAMIC MECHANISM OPTICAL SUBSYSTEM:
Subject matter under the class definition including specifics of separate substructures of optical transducer assembly of recording or reproducing system.

659 Having power driven optical transducer assembly:
Subject matter under subclass 658 wherein the optical transducer assembly of the optical recording or reproducing system is driven in order to access tracks of an optical storage medium.

SEE OR SEARCH CLASS:

369, Dynamic Information Storage or Retrieval, subclass 215.1 for power driven transducer assembly in a non-optical dynamic information storage or retrieval device.

660 Sensor detecting position of optical transducer:
Subject matter under subclass 659 including specifics of a sensing device for determining the specific spatial location of the optical transducer assembly inside the optical recording or reproducing system.

661 Single motor drives optical transducer and at least one other component:
Subject matter under subclass 659 wherein a single drive motor moves the optical transducer assembly for accessing tracks of the optical storage medium and also drives at least one other subsystem.

(1) Note. Example of composite driving include tray loader assembly and turntable rotation assembly.

662 Arcuate transducer assembly movement:
Subject matter under subclass 659 wherein the movement of the optical transducer assembly traces the path of an arc during recording or reproducing of the optical storage medium.

663 Linear transducer assembly movement:
Subject matter under subclass 659 wherein the movement of the optical transducer assembly is restricted to a straight path during recording or reproducing of the optical storage medium.

664 Rack gear:
Subject matter under subclass 663 wherein a rack gear in conjunction with a drive motor moves the optical transducer assembly in a straight path during recording or reproducing of the optical storage medium

665 Backlash prevention:
Subject matter under subclass 664 including means for preventing loose connections between the gears resulting in sudden backlash or jamming of the gears during movement of the optical transducer, thereby permitting smooth engagement of the gears.

666 Voice coil:
Subject matter under subclass 663 wherein a voice coil provides motive power for the linearly moving optical transducer assembly during track changing.

667 Turntable moves linearly and simultaneously with the optical assembly:
Subject matter under subclass 659 wherein the turntable that supports the optical storage medium moves along a restricted linear path concurrent with linear movement of the optical transducer assembly during recording or reproducing of the optical storage medium.

668 Single optical transducer plays both sides of disc record:
Subject matter under subclass 659 comprising a single optical transducer assembly capable of accessing both sides of an optical storage medium so as to enable both sides of the optical storage medium to be recorded on or reproduced by the single optical transducer.

669 Plural transducers for a single disc side:
Subject matter under subclass 659 comprising two or more optical transducer assemblies placed on the same side of the optical storage medium for accessing to the same side of the optical storage medium during recording or reproducing.

670 Independent movable transducers:
Subject matter under subclass 669 wherein each optical transducer assembly moves independently from each other for accessing the optical storage medium free from the influence of the other transducer assemblies.

671 Protecting optical transducer:
Subject matter under subclass 658 including means for protecting the optical transducer assembly from environmental hazards.

(1) Note. Examples of environmental hazard include dust intrusion, sudden impacts or etc.

672 Transducer carriage or actuator:
Subject matter under subclass 658 including details of the carriage assembly or actuator assembly that supports the optical transducer assembly.

673 Locking of transducer carriage:

Subject matter under subclass 672 including means for holding securely the optical transducer carriage in place during non- recording or non-reproducing states.

674 Adjusting transducer carriage:
Subject matter under subclass 672 comprising means for permitting adjustment of the optical transducer carriage in one or more directions so as to adjust tilt angle or skew angle of the optical transducer relative to the optical storage medium.

675 By guide rail or rod:
Subject matter under subclass 674 comprising an adjustable guide rail or rod for correcting the tilt angle or skew angle of the optical transducer relative to the optical storage medium.

676 Supported by linear guide rail or rod:
Subject matter under subclass 672 comprising rail or rod for defining linear movement path for the optical transducer carriage or actuator assembly.

677 Rail attachment to base:
Subject matter under subclass 676 comprising means for securing the rail or rod to the base of the optical recording or reproducing device.

678 Specific rail material:
Subject matter under subclass 676 wherein the rail or rod is composed of a particular material.

(1) Note. Examples of particular material include magnetic material, stainless steel or viscoelastic material.

679 Rail dampening or resonance suppression:
Subject matter under subclass 676 comprising means for preventing vibrations of the rail or rod of the optical transducer assembly.

SEE OR SEARCH THIS CLASS, SUBCLASS:

611, for minimizing undesired oscillations or vibrations of loading or ejection tray.

SEE OR SEARCH CLASS:

369, Dynamic Information Storage or Retrieval, subclass 247.1 for suppression of undesired mechanical energy incident upon a tone arm.

680 Transducer carriage supported by roller bearings:
Subject matter under subclass 676 comprising roller bearings that interact with the rail or rod for translation of the optical transducer carriage along the rail or rod.

681 Adjustable objective lens support:
Subject matter under subclass 672 including details of the assembly that directly supports the objective lens of the optical transducer, thereby permitting adjustment of the objective lens independent from the remainder of the optical transducer assembly.

682 Linear leaf springs:
Subject matter under subclass 681 including specific details of springs that support the objective lens so as to permit movement of the objective lens wherein the springs are long, thin and linearly shaped.

SEE OR SEARCH THIS CLASS, SUBCLASS:

686, for use of circular leaf springs for supporting the objective lens.

683 Coil or magnet:
Subject matter under subclass 682 including specifics of coil or magnet assembly that permit adjustment of the objective lens held by the linear leaf springs.

684 Dampening or resonance suppression:
Subject matter under subclass 682 including means for reducing the vibration and resonance of the objective lens held by the linear leaf springs so as to prevent unnecessary translation of the vibrations to the objective lens.

SEE OR SEARCH THIS CLASS, SUBCLASS:

611, for minimizing undesired oscillations or vibrations of loading or ejection tray.

679, for rail damping or resonance suppression.

684, for dampening or resonance suppression of objective lens.

687, for utilizing circular leaf springs for dampening or resonance suppression of objective lens.

688, for reducing vibrations of the transducer carriage or actuator.

692, for reducing vibrations to the base supporting the optical transducer carriage or actuator.

SEE OR SEARCH CLASS:

369, Dynamic Information Storage or Retrieval, subclass 247.1, for suppression of undesired mechanical energy incident upon a tone arm.

685 Electrical connection detail:
Subject matter under subclass 682 including specifics of the electrical connections of the objective lens support .

(1) Note. For example, linear leaf springs act as electrical conductors.

686 Circular leaf spring:
Subject matter under subclass 681 including specific details of spring that support the objective lens so as to permit movement of the objective lens wherein the spring is thin and circularly shaped.

SEE OR SEARCH THIS CLASS, SUBCLASS:

682, for use of linear leaf springs for supporting the objective lens.

687 Dampening or resonance suppression:
Subject matter under subclass 686 comprising means for reducing the vibration and resonance of the objective lens held by the circular leaf springs so as to prevent unnecessary translation of the vibrations to the objective lens.

SEE OR SEARCH THIS CLASS, SUBCLASSES:

611, for minimizing undesired oscillations or vibrations of loading or ejection tray.

679, for rail damping or resonance suppression.

684, for dampening or resonance suppression of objective lens.

SEE OR SEARCH CLASS:

369, Dynamic Information Storage or Retrieval, subclass 247.1, for suppression of undesired mechanical energy incident upon a tone arm.

688 Vibration or resonance suppression:
Subject matter under subclass 672 comprising means for reducing undesired mechanical energy of the optical transducer carriage or actuator during translation of the carriage or actuator so as to prevent unnecessary translation of the vibrations or resonance.

SEE OR SEARCH THIS CLASS, SUBCLASSES:

611, for minimizing undesired oscillations or vibrations of loading or ejection tray.

679, for rail damping or resonance suppression.

684, for dampening or resonance suppression of objective lens.

687, for utilizing circular leaf springs for dampening or resonance suppression of objective lens.

SEE OR SEARCH CLASS:

369, Dynamic Information Storage or Retrieval, subclass 247.1, for suppression of undesired mechanical energy incident upon a tone arm.

689 Chassis base supporting transducer carriage:
Subject matter under subclass 658 wherein each substructure includes a base for mounting an optical transducer carriage or actuator.

690 Pivotable into reproducing or recording position:
Subject matter under subclass 689 wherein the base pivots with respect to an optical storage medium so as to place the optical transducer carriage or actuator in the proper position to record or reproduce to or from the optical storage medium.

691 Adjustment of chassis base:
Subject matter under subclass 689 comprising means for correcting the chassis base.

692 Vibration or resonance suppression:
Subject matter under subclass 689 comprising means for reducing undesired mechanical energy from effecting the base that supports the optical transducer carriage or actuator so as to prevent unnecessary translation of vibrations to the carriage or actuator.

SEE OR SEARCH THIS CLASS, SUBCLASSES:

611, for minimizing undesired oscillations or vibrations of loading or ejection tray.

679, for rail damping or resonance suppression.

684, for dampening or resonance suppression of objective lens.

687, for utilizing circular leaf springs for dampening or resonance suppression of objective lens.

688, for reducing vibrations of the transducer carriage or actuator.

SEE OR SEARCH CLASS:

369, Dynamic Information Storage or Retrieval, subclass 247.1 for suppression of undesired mechanical energy incident upon a tone arm.

693 Grommet and coil spring:
Subject matter under subclass 692 wherein the vibration resonance suppression means includes a combined grommet and coil spring in one assembly for prevention of vibrations.

694 Viscoelastic material:
Subject matter under subclass 692 wherein a rubber-like, resilient, viscoelastic substance is placed on the base so as to absorb vibrations and resonances.

695 Optical storage medium support(e.g., turntable, spindle motor):
Subject matter under subclass 658 wherein each substructure includes a turntable or media motion apparatus that supports an optical storage medium.

(1) Note. Example of media motion production is spindle motor.

696 Spindle motor exterior structure:
Subject matter under subclass 695 including specific details of the exterior structure of a spindle motor.

697 Mounting detail:
Subject matter under subclass 696 including the specific arrangement of elements for mounting of the spindle motor.

698 Dampening:
Subject matter under subclass 696 comprising means for reducing vibrations of the spindle motor.

SEE OR SEARCH THIS CLASS, SUBCLASSES:

611, for minimizing undesired oscillations or vibrations of loading or ejection tray.

651, for vibration suppression of enclosure or internal components mounted to the enclosure.

679, for rail damping or resonance suppression.

684, for dampening or resonance suppression of objective lens.

687, for utilizing circular leaf springs for dampening or resonance suppression of objective lens.

688, for reducing vibrations of the transducer carriage or actuator.

692, for reducing vibrations to the base supporting the optical transducer carriage or actuator.

SEE OR SEARCH CLASS:

369, Dynamic Information Storage or Retrieval, subclass 247.1, for suppression of undesired mechanical energy incident upon a tone arm.

699 Multiple disks on one spindle:
Subject matter under subclass 696 wherein the spindle is capable of receiving multiple optical storage media on one spindle at the same time.

700 Turntable adjustment:
Subject matter under subclass 695 comprising means for adjusting the turntable.

701 Having balancer:
Subject matter under subclass 695 comprising means for compensating eccentricities of the optical medium support structure.

702 Having balls:
Subject matter under subclass 701 wherein the balancer includes spherical members.

(1) Note. Example of spherical member is ball bearings.

703 Optical storage disc holding structure:
Subject matter under subclass 695 comprising means for holding and clamping of an optical storage medium to the optical medium support structure.

704 Having centering:
Subject matter under subclass 703 comprising means for centering the optical storage medium relative to the holding structure.

705 Using balls:
Subject matter under subclass 704 wherein the centering means includes spherical members.

(1) Note. Example of spherical members is ball bearings.

706 Details of clamping:
Subject matter under subclass 703 wherein the specific arrangements of the clamper mechanism which holds the optical storage medium securely is specified.

707 Radially extending members:
Subject matter under subclass 706 wherein the clamper mechanism includes members which move in a radial direction with respect to the medium to facilitate clamping thereof.

(1) Note. Example of radially extending members is elastic fingers.

708 Using balls:
Subject matter under subclass 707 wherein the members which move in a radial direction include spherical members.

(1) Note. Example of spherical members is ball bearings.

SEE OR SEARCH THIS CLASS, SUBCLASS:

705, for use of ball bearings for centering the optical storage medium.

709 Having groove or channel:
Subject matter under subclass 707 including groove or channel for facilitating movement of the radially extending members.

710 Magnetic:
Subject matter under subclass 706 wherein the clamper mechanism includes magnetic material for securing the optical storage medium.

711 Clamp for different types of disk:
Subject matter under subclass 706 including specific structure to enable clamping of multiple types of optical storage media either simultaneously or separately.

(1) Note. Example includes a disk in a cartridge and a disk without a cartridge.

712 Particular shape:
Subject matter under subclass 706 including details of the shape of the clamper or corresponding structure of the clamper which allows for proper positioning of the optical storage medium within the clamper mechanism.

713 Pivoting mechanism:
Subject matter under subclass 706 including means which enables the clamper or corresponding structure to pivot along an axis with respect to the base plate of the apparatus.

714 Linear movement:
Subject matter under subclass 706 including means which enables the clamper and/or corresponding structure to move along a plane parallel and/or perpendicular with respect to the surface of the optical storage medium.

(1) Note. This subclass does not include rotational movement of clamping mechanism. For such excluded subject matter see the SEE OR SEARCH THIS CLASS, SUBCLASS note below.

SEE OR SEARCH THIS CLASS, SUBCLASS:

713, for rotational movement of clamping mechanism.

715 Optical storage disc contact structure on turntable surface:
Subject matter under subclass 703 including specifics of the turntable surface which contacts and supports the optical storage medium.

716 Having dampening:
Subject matter under subclass 715 including means for reducing shocks or vibrations between the optical storage medium and turntable surface.

SEE OR SEARCH THIS CLASS, SUBCLASSES:

611, for minimizing undesired oscillations or vibrations of loading or ejection tray.

651, for vibration suppression of enclosure or internal components mounted to the enclosure.

679, for rail damping or resonance suppression.

684, for dampening or resonance suppression of objective lens.

687, for utilizing circular leaf springs for dampening or resonance suppression of objective lens.

688, for reducing vibrations of the transducer carriage or actuator.

692, for reducing vibrations to the base supporting the optical transducer carriage or actuator.

SEE OR SEARCH CLASS:

369, Dynamic Information Storage or Retrieval, subclass 247.1, for suppression of undesired mechanical energy incident upon a tone arm.

717 Reducing eccentricity:
Subject matter under subclass 715 including means for compensating for optical storage medium or turntable irregularities.

718 OPTICAL STORAGE MEDIUM STRUCTURE:
Subject matter under the class definition including the specific structure of the optical information bearing storage medium.

(1) Note. A blank or starting piece not limited to storage or retrieval is classified elsewhere, appropriate to the actual blank. See the SEE OR SEARCH CLASS notes below.

(2) Note. Mention of intended use such as in the preamble of the claim is not enough for classification in this subclass.

SEE OR SEARCH CLASS:

206, Special Receptacle or Package, 307-387.15 for holding a machine readable recording medium, particularly subclass 308.1 for receptacles holding an optical disc.

252, Compositions, appropriate subclasses for surface lubricants.

346, Recorders, appropriate subclasses for a perceptible record blank without grooves.

352, Optics: Motion Pictures, subclasses 92, 102-103 and 232-241 for structure of storage medium structure limited to motion pictures.

360, Dynamic Magnetic Information Storage or Retrieval, 131-136 for structure of record medium limited to magnetic storage.

369, Dynamic Information Storage or Retrieval, subclass 272.1 for storage medium structure in a non-optical dynamic storage or retrieval device.

428, Stock Material or Miscellaneous Articles, subclasses 64.1-66.7 for articles usable as optical record carrier or medium.

719 Disk protection:
Subject matter under subclass 718 comprising means for guarding the surface of the optical storage medium from undesired effect.

(1) Note. Examples include a protective cover or structure to prevent scratches, a protective layer to prevent undesired thermal effect or chemical reaction or unwanted optical or recording effects, or an adhesive layer to prevent peeling.

(2) Note. Optical media protection including optical track structure is classified elsewhere.

SEE OR SEARCH CLASS:

369, Dynamic Information Storage or Retrieval, subclass 275.5 for optical media structure including optical track structure.

720 Disk adapter:
Subject matter under subclass 718 comprising means which permits the optical storage medium to be configurable into different media formats.

(1) Note. Examples include a “naked” disc which is a disc not enclosed in a cartridge, accompanied in an “adaptor” to play or record in an apparatus which does not normally accept “naked” discs.

(2) Note. Cartridge adaptors which convert a small sized optical media cartridge into a larger sized cartridge may be classified here.

SEE OR SEARCH THIS CLASS, SUBCLASSES:

725-744, for specific details of an optical disk cartridge.

721 Disk hub:
Subject matter under subclass 718 including details of the structure which encircles the central opening of the optical storage medium.

SEE OR SEARCH CLASS:

369, Dynamic Information Storage or Retrieval, subclass 290.1 for details of central area of a disk in a non-optical dynamic storage or retrieval device.

722 Hub material or composition:
Subject matter under subclass 721 wherein a particular material is specified for the hub structure or a part thereof.

723 Including clamping plate:
Subject matter under subclass 721 including specific details of the clamping plate and its structural cooperation with the hub.

(1) Note. The clamping plate as classified here is an element formed of a magnetically attracted material, for example, metal, which contributes clamping assistance to a disc and its accompanying hub structure.

724 Providing a centering protrusion or projection:
Subject matter under subclass 721 wherein the structure includes extension(s) outside of the surface plane of the main hub structure assisting in centering the hub onto the optical storage medium.

725 Disk cartridge:
Subject matter under subclass 718 comprising a container or housing encasing the optical storage medium.

SEE OR SEARCH CLASS:

369, Dynamic Information Storage or Retrieval, subclass 291.1 for protectors in a non-optical dynamic storage or retrieval device.

726 Disk cartridge material:
Subject matter under subclass 725 wherein the disk cartridge is made of a particular material.

727 Having reinforcement member:
Subject matter under subclass 725 comprising means for increasing rigidity and strength of the housing structure of the cartridge.

728 Disc cartridge case or jacket:
Subject matter under subclass 725 comprising specific details of the exterior of the container or housing.

729 Having disc identification (e.g., write protect hole or tab):
Subject matter under subclass728 comprising means for visibly indicating information about the optical storage medium within the container or housing.

(1) Note. Examples include: write protect holes, tabs which are typically slidable within an aperture.

730 Preventing cartridge misinsertion:
Subject matter under subclass 728 comprising means on the exterior of the cartridge for preventing incorrected orientated insertion of the cartridge into optical recording or reproducing device.

731 Including misinsertion groove:

Subject matter under subclass 730 wherein the structure to prevent incorrected orientated insertion includes channel or slot on the container or housing of the cartridge.

732 Movable cartridge case or jacket piece:
Subject matter housing can move so as to expose the optical storage medium within the container or housing.

733 In a linear direction:
Subject matter under subclass 732 wherein the movable exterior portion moves relative to the container or housing in a direction which is substantially in a straight line.

734 In a rotated direction:
Subject matter under subclass 732 wherein the movable exterior portion moves relative to the container or housing in a direction which is substantially pivoting on an axis.

(1) Note. The term "substantially" as utilized in this subclass definition will encompass arcuate movement as well as axial pivoting.

735 Including a case or jacket piece locking member:
Subject matter under subclass 734 wherein the movable exterior portion includes means to cooperate with the non-movable portion of the container or housing to securely hold it in place in the closed position.

736 Sealed cartridge:
Subject matter under subclass 728 including means for preventing intrusion of outside contaminants into the cartridge.

(1) Note. Example of cartridge sealing include dust or light from entering the interior of the container or housing.

737 Movement prevention or static reduction(e.g., antirattle, protective sheets):
Subject matter under 725 including means within the container or housing to prevent movement of the optical storage medium in the axial and/or longitudinal directions while the optical storage medium is not in an operating position or including means interposed between the optical storage medium and inner housing structure to prevent direct physical contact of the optical storage medium and the housing structure so as to reduce static buildup.

(1) Note. The "operating position" as set forth in this subclass defines when the medium is in a recording or reproducing device and is rotating or ready to be rotated.

738 Shutter member:
Subject matter under subclass 725 comprising means for uncovering or covering the aperture in the housing or container which allows a read or write transducer access to the optical storage medium.

SEE OR SEARCH THIS CLASS, SUBCLASS:

643, for details of a shutter opening mechanism for insertion of an optical disk cartridge.

739 Having guide slots or projections for movement of shutter:

Subject matter under subclass 738 wherein the shutter member includes grooves or projections for facilitating the movement of the shutter member for covering or uncovering the aperture.

(1) Note. This subclass may also contain subject matter which includes structure on the housing itself which is in direct cooperation with the structure on the shutter member.

SEE OR SEARCH THIS CLASS, SUBCLASS:

644, for details of a sliding shutter opening mechanism for insertion of an optical disk cartridge.

740 Having shutter locking member:
Subject matter under subclass 738 including means on the shutter member to cooperate with a portion of the container or housing to securely hold the shutter member in place in the closed position.

741 Shutter within disk container:
Subject matter under subclass 738 wherein the shutter member is located internal to the housing structure.

742 Shutter movement is gear driven:
Subject matter under subclass 738 wherein the shutter member includes a rack or gear to facilitate the covering or uncovering of the aperture.

743 Shutter spring mechanism for opening or closing:
Subject matter under subclass 738 including a flexible device which biases the shutter member into an open or uncovered position.

744 Shutter material:
Subject matter under subclass 738 wherein the shutter member is made of a particular material.

(1) Note. Subject matter herein would encompass forming the shutter entirely from particular material such as metal or made of composite material or other topical surface treatments for the shutter.

745 Optical card record:
Subject matter under subclass 718 wherein the optical medium is non-circular and typically takes the form of a flat usually rectangular rigid substrate.

(1) Note. Examples of optical card record include playing card, greeting card or postcard shaped.

746 Optical tape record:
Subject matter under subclass 718 wherein the optical medium is in the form of a flat, flexible web-like substrate.

SEE OR SEARCH CLASS:

242, Winding, Tensioning, or Guiding, subclasses 324.2, 326-326.4, 335-348.4 for a machine convertible information carrier on or within a housing optically termed

cartridge, cassette, or magazine, and subclass 601 for a spool provided with a cover.

360, Dynamic Magnetic Information Storage or Retrieval, subclasses 132, 134, for details of a magnetic tape media.