U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

CLASSIFICATION ORDER 1871

NOVEMBER 6, 2007

PROJECT E-6497

The following classification changes will be effected by this order:

	<u>Class</u>	<u>Subclass</u>	Ex'r Search <u>Room</u>	<u>Art Unit</u>
Abolished:	360	92, 96.5, 96.6, 119, 120, 123-127	2627	RND0000B15
Established:	360	92.1, 96.51, 96.61, 119.01-119.09, 119.1, 119.11-119.13, 123.01-123.09, 123.1, 123.11-123.19, 123.2, 123.21-123.29, 123.3, 123.31-123.39, 123.4, 123.41-123.49, 123.5, 123.51-123.59, 123.6, 123.61, 125.01-125.09, 125.1, 125.11-125.19, 125.2, 125.21-125.29, 125.3, 125.31-125.39, 125.4, 125.41-125.49, 125.5, 125.51-125.59, 125.6, 125.61-125.69, 125.7, 125.71-125.75	2627	RND0000B15
Indent Change:	360	121	2627	RND0000B15

The following class is also impacted by this order:

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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 USPC-TO-IPC CONCORDANCE
- D. DEFINITION CHANGES AND NEW OR ADDITIONAL DEFINITIONS

CLASSIFICATION ORDER 1871

NOVEMBER 6, 2007

PROJECT E-6497

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CLASS 360 DYNAMIC MAGNETIC INFORMATION STORAGE OR RETRIEVAL

NOVEMBER 2007

This Class 360 is considered to be an integral part of Class 369 (see the Class 369 schedule for the position of this Class in schedule hierarchy). This Class retains all pertinent definitions and class lines of Class 369.

1	RECORDING ON OR REPRODUCING FROM AN	50	.Inter-record gap processing
	ELEMENT OF DIVERSE UTILITY	51	.Data clocking
2	.Card	52	With incremental movement between
3	.Motion picture film		record and head
4	MANUAL INPUT RECORDING	53	.Data verification
5	RECORDING FOR SELECTIVE RETENTION OF A	54	.Data recirculation
	SPECIAL OCCURRENCE	55	GENERAL RECORDING OR REPRODUCING
6.	RECORDING COMBINED WITH METERING OR	57	.Selective erase recording
	SENSING	58	.Boundary displacement recording or
7	RECORDING FOR MONETARY DELAY OF AN		transducers
	ANALOG SIGNAL	59	.Thermomagnetic recording or transducers
8	RECORDING FOR CHANGING DURATION,	60	.Recording-or erasing-prevention
	FREQUENCY OR REDUNDANT CONTENT OF AN	61	.Signal switching
10	ANALOG SIGNAL	62	Record-reproduce
12	RECORDING OR REPRODUCING FOR AUTOMATIC	63	Between plural stationary heads
10	ANNOUNCING	64	Between heads in alternate engagement
12	RECORD EDITING		with medium
15	RECORD COPYING	65	.Specifics of equalizing
10	Contact transfer	.66	.Specifics of biasing or erasing
17	With magnetic blas	67	.Specifics of the amplifier
18	RECORDING OR REPRODUCING PLURAL	68	Recording amplifier
~ ~	INFORMATION SIGNALS ON THE SAME TRACK	69	AUTOMATIC CONTROL OF A RECORDER
20	Frequency multiplex		MECHANISM
21	.Head gap azimuth multiplex	70	.Synchronizing moving-head moving-record
22	SPLITTING ONE INFORMATION SIGNAL FOR		recorders
	RECORDING ON PLORAL DISTINCT TRACKS	71	.Controlling the record
	OR REPRODUCING SUCH SIGNAD	72.1	Locating specific areas
23	TIME CIVISION	72.2	Responsive to recorded address
24	ONE INFORMATION SIGNAL FOR RECORDINING	72.3	Responsive to tape transport
	OR REPRODUCTING ON THE SAME TRACK	73.01	Speed
25	CHECKING RECORD CHARACTERISTICS OR	73.02	Control of relative speed between
45	MODIFYING RECORDING SIGNAL FOR		carriers
	CHARACTERISTIC COMPENSATION	73.03	Rotary carrier
26	ELECTRONICALLY CORRECTING PHASING ERRORS	73.04	Linear carrier
	BETWEEN RELATED INFORMATION SIGNALS	73.05	Plural speed transport
27	RECORDING OR REPRODUCING AN INFORMATION	73.06	Automatic change between fixed
	SIGNAL AND A CONTROL SIGNAL FOR		speeds
	CONTROLLING ELECTRONICS OF REPRODUCER	73.07	Automatic selection of carrier or
28	.Reference carrier to control		track speed
	demodulator	73.08	Variable speed
29	MODULATING OR DEMODULATING	73.09	Constant speed
30	Frequency	73.11	By reproduced control signal and
31	MONITORING OR TESTING THE PROGRESS OF		transport derived signal
	RECORDING	73.12	By reproduced control signal
32	CONVERTING AN ANALOG SIGNAL TO DIGITAL	73.13	From separate track
	FORM FOR RECORDING; REPRODUCING AND	73.14	By signal derived from transport
	RECONVERTING	74.1	Stopping or reversing
39	GENERAL PROCESSING OF A DIGITAL SIGNAL	74.2	Responsive to reel rotation
40	.In specific code or form	74.3	Responsive to tape tension
41	Nonreturn to zero	74.4	Responsive to magnetic recorded
42	Phase code		signals
43	Multi-frequency	•	2
44	Intra-cell transition		
45	.Pulse crowding correction		
46	Head amplifier circuit		
47	.Redundant or complimentary tracks		
48	.Data in specific format		
49	.Address coding		

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	AUTOMATIC CONTROL OF A RECORDER	89	.Wire record
	MECHANISM	90	.Tape record
	.Controlling the record	91	Plural tapes
	Stopping or reversing	* 92.1	Tape in container
74.5	Responsive to physical property of	93	Tape in container
74.6	record	94	Transport accommodates different
74.7	Conductive	95	With tane extraction
75	Controlling the head	96 1	Plural roole
76	Azimuth or skew	96.2	With dual canstan drive
77 01	Track centering	96.3	Pool drive details
77.02	Rotary carrier	96.4	With common constan drive
77.02	By nonmegnotic concing to g	90.4 * 04 F1	Containor mounting details
77.03	optical, capacitive)	* 96.61	With pivotal holder
77.04	error or correction	97.01 97.02	.Disk record
77.05	By servo signal component from	37.02	filter, temperature control)
	carrier surface separate from	97 03	Plural dicke
	information signal bearing	97.03	Florible dick
	surface	09 01	Divral dicka
77.06	Reproduced data signal used for	90.01	
	tracking	98.02	Axially fixed flexible disks
77.07	By tracking signal recorded on or	98.03	With pneumatic partioning of disks
	immediately beneath surface	98.04	Changer
77.08	Distinct servo sector	98.05	Control detail
77.11	Continuous servo signal	98.06	Mechanical detail
77.12	Elongated web carrier (i.e., tape)	98.07	Rotational drive detail
77.13	Transverse scan path	98.08	Seating of disks
77.14	By pilot signal	99.01	Flexible disk
77.15	Plural pilot signals along single	99.02	Loading or ejecting mechanism
	transverse path	99.03	Motorized
77.16	Having head deflection drive (e.g.,	99.04	Rotational drive detail
	piezoelectric bimorph)	99.05	Disk seating
77.17	Dithering	99.06	Loading or ejecting mechanism
78.01	Track changing	99.07	Motorized
78.02	Tape	99.08	Rotational drive detail
78.03	Plural tapes	99.09	Movable drive
78.04	For rotary carrier (e.g., disc)	99.11	Stationary drive
78.05	Coarse and fine head drive motors	99 12	Disk seating
78.06	Specified velocity pattern during	100 1	Drum record
79 07	access	101	HEAD TRANSPORT WITH RECORD STATIONARY
70.07	Creatified applied by memory device		DURING TRANSDUCING
10.00	addood	220	FLUID BEARING RECORD SUPPORT
79 00	Traluding model of serve sustem or	221	.Tape record
70.05	element	221.1	Liquid bearing
78 11	Including normagnetic position	224	.Disk record
/0.11	sensing	230	FLUID BEARING HEAD SUPPORT
78 12	Including particular head actuator	231	.Tape record
78 13	Stopping mater	234	.Disk record
70.13	By recorded serve reference or	234.1	Liquid bearing
10.14	addrage signal	234.2	Flexible disk
70 15	Drum	234.3	Air bearing slider detail
70.13	DECORDER CONTROL OF AN EXMEDIAL DEVICE	234.4	IC/circuit component on slider
20	Clide or muie prejectors	234.5	Electrical attachment of slider/head
80	.Stide or movie projectors	234.6	Mechanical attachment of slider to
81	TRANSPORT WITH HEAD MOVING DORING TRANSDUCING		its support
82	.Belt record	234.7	Head attachment to slider
83	.Tape record	234.8	On/in side of slider
84	.Rotating head	234.9	In slot of rail
85	Tape in container	235	Signal winding mount/access detail
86	Disk record	235.1	Slider material
87	Drum record		
88	RECORD TRANSPORT WITH LEAD STATIONARY		
	DURING TRANSDUCING		
	# Title Change * Newly Established Subclass		@ Indent Change & Position Change

* Newly Established Subclass

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	FLUID BEARING HEAD SUPPORT	261	Tape record having rotary head
	.Disk record	0.61 1	movement
	Air bearing slider detail	261.1	Tape record naving linear head
	Slider material	261 2	Cam
235.2	Rail material	201.2	Sarou
235.3	Body material	261.5	Disk record
235.4	Air bearing surface detail	264 1	Argusto hard movement
235.5	Negative pressure type	264.1	Rightrial connection detail onto
235.6	Leading end detail	204.2	actuator arm
235.7	Trailing end detail	264.3	Driver detail
235.8	Rail surface detail	264.4	Independent head movement
235.9	Rail side edge detail	264.5	Plural drivers for each head
236	Cross rail detail	264.6	Band
236.1	Varying width rail	264.7	Voice coil
236.2	Asymmetrical rail arrangement	264.8	Core detail
236.3	Three or more rails/pads	264.9	Magnet detail
236.4	Leading end detail	265	Winding detail
236.5	Trailing end detail	265.1	Limiter/stop
236.6	Rail surface detail	265.2	Bearing
236.7	Rail side edge detail	265.3	Seal
236.8	Varying width rail	265.4	Radial
236.9	Asymmetrical rail arrangement	265.5	Thrust
237	Three or more rails/pads	265.6	Mounting detail
237.1	Partial contact	265.7	E block detail
240	HEAD MOUNTING	265.8	Detail of coil support
250	.For moving head into/out of transducing	265.9	Detail of actuator arm supporting
261	Mone record barring arguate head		head suspension
201	retraction movement	266	Arm shape
251.1	Tape record having linear head	266.1	Arm mounting
20112	retraction movement	266.2	Linear head movement
251.2	Driven by tape driver	266.3	Electrical connection detail onto
251.3	Cam type		actuator arm
251.4	Solenoid type	266.4	Voice coil
251.5	Rotary head type	266.5	Carriage detail
254	Disk record	266.6	Guide detail
254.1	Flexible disk	266.7	Core detail
254.2	Arcuate track change type	266.8	Magnet detail
254.3	Moving lifter	266.9	Winding detail
254.4	Lifter surface detail	267	Band
254.5	Adjustment detail	267.1	Cam
254.6	Actuator side detail	267.2	Rack
254.7	Fixed lifter	267.3	Screw
254.8	Lifter surface detail	267.4	Screw/follower detail
254.9	Adjustment detail	267.5	Carriage detail
255	Actuator side detail	267.6	Guide detail
255.1	Linear track change type	267.7	Screw mount detail
255.2	Moving lifter	267.8	Adjustable
255.3	Lifter surface detail	267.9	Including shifting head to different
255.4	Adjustment detail		disks
255.5	Actuator side detail	270	.For moving head during transducing
255.6	Fixed lifter	271	. Tape record having rotary head
255.7	Lifter surface detail	271.1	Rotating drum
255.8	Adjustment detail	271.2	Axie bearing
255.9	Actuator side detail	2/1.3	Hydrodynamic
256	Latch	2/1.4	Axie seal
256.1	Air vane	2/1.5·	Head mount to drum
256.2	Magnetic	271.6	Drum mounting
256.3	Electrically driven	271.7	Drum motor
256.4	Inertial	271.8	stationary drum
256.5	Plural latches	2/1.9	Electrical connection detail
256.6	Adjustment detail		
260	.For shifting head between tracks		

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		HEAD MOUNTING	245.6	Plural axis components
		.For moving head during transducing	245.7	Motion limiter detail
		Tape record having rotary head	245.8	Electrical connection detail
272		Power supply	245.9	Flexible printed circuit type
281		Signal transfer to/from head	246	Noise reduction
281.1		Transformer mounting detail	246.1	Full contact suspension
281.2		Transformer axis parallel to axis of	246.2	Slider detail
		head rotation	246.3	Pivot detail
281.3		Transformer axis perpendicular to	246.4	Gimbal detail
		axis of head rotation	246.5	Single head
281.4		Coil/winding detail	246.6	. Plural heads for each disk side
281.5		Core detail	246.7	Plural actuators
281.6		Electrical or magnetic shielding	246.8	Offset heads on opposite sides of disk
281.7		Electrical connection between head	110	HEAD
0.01 0		and rotary part of transformer	111	.Flux gate
281.8		Plural transformers	112	.Hall effect
281.9		Photoelectric	313	.Magnetoresistive (MR) reproducing head
282		Contact type transformer	314	. Having multiple interconnected
274		Disk record		multiple film MR sensors (e.g.,
290		.For adjusting head position		dual spin valve magnetoresistive
291		Tape record		sensor)
291.1		Cam adjuster	315	. Having multiple interconnected single
291.2		Screw adjuster		film MR sensors (e.g., dual
291.3		Plural screws	216	Having multiple independent MD gengera
291.4		Rotary head	210	Combined with industive write head in
291.5		Adjustment of drum axis	317	
291.6		Adjustable head mount	318	Combined with inductive write head and
291.7		Adjuster core detail	310	having MR inside of inductive head
291.8		Adjuster coil detail	318.1	
291.9		Piezoelectric adjuster	319	. Detail of magnetic shielding
292		Plural piezoelectric adjusters	320	Detail of head insulation
294		Disk record	321	Having flux guide detail
294.1		Adjustment parallel to disk plane	322	Detail of sense conductor
294.2		Linear adjustment	323	Electrostatic Discharge (ESD)
294.3		Driver detail	525	protection
294.4		Piezoelectric adjuster	324	Having Giant Magnetoresistive (GMR) or
294.5		Voice coil adjuster	· · · · ·	Colossal Magnetoresistive (CMR)
294.6		Pivot structure detail		sensor formed of multiple thin
294.7		Adjustment along rotational axis of		films
		disk	324.1	Having one film pinned (e.g., spin
241		.Tape record		valve)
241.1		Plural head mounting on only one tape side	324.11	Detail of pinned film or additional film for affecting or biasing the
241.2		Plural head mounting on opposite tape	'.	pinned film
		sides	324.12	Detail of free layer or additional
241.3		Head urging detail		free layer
244		.Disk record	204 0	Having tuppel jupgtion offogt
244.1		IC/circuit component on suspension	324.2	Having Uniter Junction effect
		element	343	(AMR) sensor formed of multiple
244.2		Load beam detail		thin films
244.3		Laminated beam	326	
244.4		Nonmetallic beam	020	Colossal Magnetoresistive (CMR)
244.5		Actuator mount region detail		sensor formed of a single thin film
244.6		Ball staking	327	. Having Anisotropic Magnetoresistive
244.7		Adhesive		(AMR) sensor formed of a single
244.8		Spring region detail		thin film
244.9		Rigid intermediate section detail	327.1	Detail of transverse and longitudinal
245		Gimbal mounting region detail		biasing
245.1		Pivot/load button detail	327.11	In barber-pole configuration
245.2	-	Assembly feature	327.2	Detail of transverse biasing
245.3		Gimbal detail	327.21	Using a shunt
245.4		Attachment detail	-	
245.5		Integral with load beam		

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	HEAD	* 123.18	Single plane coil
	.Magnetoresistive (MR) reproducing head	* 123.19	Configuration detail
	Having Anisotropic Magnetoresistive	* 123.2	Trace cross section shape
	(AMR) sensor formed of a single	* 123.21	Trace spacing
	thin film	* 123.22	Coil spacing from storage medium
	Detail of transverse biasing	* 123.23	Coil spacing from plane of gap
327.22	Using a soft adjacent layer	* 123.24	Seed layer
327.23	Using a permanent magnet	* 123.25	Insulation detail
327.24	Using conductor	* 123.26	Zero throat height detail
327.3	Detail of longitudinal biasing	* 123.27	Apex angle
327.31	Using a permanent magnet	* 123.28	Plural layers
327.32	Using exchange couple biasing	* 123.29	Diverse materials
327.33	Using conductor	·* 123.3	Planarizing layer
328	.Magnetostrictive head	* 123.31	Below coil
114.01	Read only detector using light for	* 123.32	Above coil
	reading magnetically recorded	* 123.33	Between traces
114 00 -	Light here repersion detail	* 123.34	Between coil and medium
114.02	Escue deteil	* 123.35	Plural diverse layers
114.05	Room enlitter detail	* 123.36	Electrical connection detail
114.04	Readeut detector detail	* 123.37	Shielding/protection
114.05	Regula detail	* 123.38	Plural plane coil
114.00	Circuit detail	* 123.39	Intercoil layer electrical
114.07	Detector material detail		connection detail
114.00	Mounting detail	* 123.4	Configuration detail
114.05	Retary head	* 123.41	Trace cross section shape
115	Flux scapping	* 123.42	Trace spacing
116	Cathedo ray	* 123.43	Coil spacing from storage medium
117	Hand-beld	* 123.44	Coil spacing from plane of gap
118	Fraso	* 123.45	Seed layer
±101	Diural gang	* 123.46	Insulation detail
* 119 01	Gan snacer	* 123.47	Zero throat height detail
* 119 02	For perpendicular recording head	* 123.48	Apex angle
* 119.03	Laminated spacer	* 123.49	Plural layers
* 119 04	Configuration detail	* 123.5	Diverse materials
* 119.05	For longitudinal thin film recording	* 123.51	Planarizing layer
220100	head	* 123.52	Below coil
* 119.06	Pancake type	* 123.53	Above coil
* 119.07	Laminated spacer	* 123.54	Between traces
* 119.08	With thermally conductive material	* 123.55	Between coil and medium
* 119.09	With diffusion barrier	* 123:56	Plural diverse layers
* 119.1	Three or more layers	* 123.57	Electrical connection detail
* 119.11	Configuration detail	* 123.58	Shielding/protection
* 119.12	Nonuniform width transducing face	* 123.59	Location
* 119.13	Nonuniform width vertically	* 123.6	Coil around pole adjacent substrate
122	.Head surface structure	* 123.61	Coll around pole remote from
* 123.01	.Coil	+ 10 € 0.1	Come
* 123.02	For perpendicular recording head	* 125.01	Demondicular recording head
* 123.03	Location	* 125.02	Main (recording polo
* 123.04	On return pole	* 125.03	Main/recording pore
* 123.05	On main/recording pole	* 125.04	Offect from treak conterline
* 123.06	Configuration detail	* 125.05	Separate pole tip
* 123.07	Nonuniform trace spacing	* 125 07	Junction detail
* 123.08	Trace cross section shape	* 105 00	Laminatod
* 123.09	Insulation detail	* 125.00	Nonuniform width transduging face
* 123.1	Electrical connection detail	±4J+VJ * 105 1	Nonuniform width vortically
* 123.11	Plural separate coils	+ 125 11	Nonuniform thickness vertically
* 123.12	Shielding/protection	* 195 19	Laminated
* 123.13	For longitudinal recording head	±23-±2 * 195 13	Nonupiform width transducing face
* 123.14	Pancake type	* 125 11	Nonuniform width vertically
* 123.15	Plural coil layers	103.14	
* 123.16	Insulation detail		
* 123.17	Plural separate coils		

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	HEAD	* 125.73	Laminated
	.Core	* 125.74	Heat generating structure
	Perpendicular recording head	* 125.75	Heat transfer structure
	Main/recording pole	128	.Head accessory
* 125.15	Nonuniform thickness vertically	129	Housing
* 125.16	Return pole	130.1	Record separator
* 125.17	Plural poles	130.2	Record guide
* 125.18	Offset from track centerline	130.21	Tape record
* 125.19	Nonuniform width transducing face	130.22	Rotating head
* 125.2	Nonuniform width vertically	130.23	Helical scan
* 125.21	Nonuniform thickness vertically	130.24	Head drum details
* 125.22	Separate pole tip	130.3	Pressure element
* 125.23	Junction detail	130.31	Tape record
* 125.24	Laminated	130.32	Element mounting details
* 125.25	Configuration detail	130.33	Element in tape container
* 125.26	Laminated	130.34	Disc record
* 125.27	Coupling section	131	RECORD MEDIUM
* 125.28	Laminated	132	.In container
* 125.29	Junction detail	133	For disk
* 125.3	Accessory feature	134	Tape
* 125.31	Heat generating structure	135	Disk
* 125.32	Heat transfer structure	136	Drum
* 125 33	Thin film longitudinal recording head	137	MISCELLANEOUS
* 125 34	Pancake type	107	*****
* 125.34	Core section adjacent medium		CROSS-REFERENCE ART COLLECTIONS
* 125.35	Back core section remote from medium		*****
* 125.30	Coupling section	900	
* 125.38	Substrate	901	Access time
* 125.39	Laminated	003	Storago dongitu (o g boi toi)
* 125.00	Nonuniform thicknoss wortically	902	Bhugigal parameter (a g form factor)
* 105 /1	Bolo adjagent substrate	903	Weight
* 125.41	Zoro throat height detail	504	Weigne
* 105 40	Concrete pole tip		POPETCH APR COLLEGETONS
* 123.43	Turation detail	· ·	FOREIGN ART COLLECTIONS
* 105 45	Lowinsted	ROD 000	
* 125.45	Nonuni form width transduging face	FOR UUU	CLASS-RELATED FOREIGN DOCOMENTS
* 125.40	Norumi form width wortigally	Any for	eign patents or non-patent liter-
* 125.49	Nonuniform thicknoss wortigally	ature f	rom subclasses that have been re-
* 125.40	Decidating	classif:	ied have been transferred direct-
* 125.45	Lominated	ly to	FOR Collections listed below.
* 123.5	Nerveiferr width twensbusing foco	patents	or non-patent literature. The
* 125.51	Netwoi form width wartigellar	parenthe	etical references in the Collec-
^ 120.02 ★ 105 50	Nonuniform which vertically	tion ti	tles refer to the abolished sub-
+ 105 E4	Nonumitoria chickness vertically	classes	from which these Collections
* 120.04	Pole remote from substrate	were de:	rived.
* 125.55	Zero throath height detail	FOR 202	FLUID BEARING HEAD (360/102)
* 125.56	Separate pole tip	FOR 203	.Flying head (360/103)
* 125.57	Junction detail	FOR 204	HEAD MOUNTING (360/104)
* 125.58	Laminated	FOR 205	.For moving head into and out of
* 125.59	Nonuniform width transducing face		transducing position (360/105)
* 125.6	Nonuniform width vertically	FOR 206	.For shifting head between tracks
* 125.61	Nonuniform thickness vertically		(360/106)
* 125.62	Projecting	FOR 207	.For moving head during transducing
* 125.63	Laminated		(360/107)
* 125.64	Nonuniform width transducing face	FOR 208	Signal transfer to and from head
* 125.65	Nonuniform width vertically		(360/108)
* 125.66	Nonuniform thicknes vertically	FOR 209	.For adjusting head position (360/109)
* 125.67	Coupling section	FOR 213	MAGNETORESISTIVE OR MAGNETOSTRICTIVE
* 125.68	Junction detail		HEAD (360/113)
* 125.69	Laminated		HEAD (340/110)
* 125.7	Nonuniform cross section	FOR 214	Magneto optic (360/114)
		TOIC ST #	
* 125.71	Accessory feature	t Olt DI #	

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

New	Number	Source	Number
Classification	of ORs	Classification	of ORs
360/118	1	360/127	41
360/119.01	83	360/119	173
	32	360/120	90
	3	360/125	292
	2	360/126	784
360/119.02	3	360/119	173
	1	360/120	90
	1	360/125	292
360/119.03	2	360/120	90
	1	360/125	292
	1	360/126	784
360/119.04	1	360/119	173
	2	360/120	90
	1	360/125	292
360/119.05	2	360/119	173
	1	360/124	25
	4	360/125	292
	4	360/126	784
360/119.06	1	360/119	173
360/119.07	13	360/119	173
	22	360/120	90
	1	360/123	215
	3	360/125	292
260/110 00	19	360/126	/84
300/119.08	1	360/120	90
260/110 00	1	360/123	210 172
300/119.09		260/119	1/3 00
360/119 1	1	360/119	173
500/11/.1	1	360/120	90
	8	360/126	784
360/119 11	15	360/119	173
300, 11, 11	10	360/120	90
	4	360/125	292
	4	360/126	784
360/119.12	7	360/119	173
360/119.13	1	360/119	173
360/122	2	360/125	292
360/123.01	92	360/123	215
	21	360/124	25
	17	360/125	292
	3	360/126	784
360/123.02	3	360/123	215

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

New	Number	Source	Number
Classification	of ORs	Classification	of ORs
360/123.03	1	360/123	215
360/123.03	1	360/125	292
360/123.04	1	360/123	215
360/123.05	3	360/123	215
	1	360/125	292
	1	360/126	784
360/123.06	1	360/123	215
	1	360/125	292
360/123.07	1	360/125	292
360/123.09	3	360/126	784
360/123.1	1	360/126	784
360/123.11	5	360/123	215
	2	360/125	292
360/123.12	1	360/123	215
	1	360/125	292
360/123.13	3	360/125	292
	1	360/126	784
360/123.17	4	360/119	173
	13	360/123	215
	4	360/125	292
	2	360/126	784
360/123.18	1	360/119	173
	2	360/123	215
	1	360/125	292
360/123.19	5	360/123	215
	2	360/125	292
	3	360/126	784
360/123.2	3	360/123	215
	2	360/126	784
360/123.21	1	360/123	215
	1	360/126	784
360/123.23	3	360/126	784
360/123.24	3	360/126	784
360/123.25	2	360/123	215
	1	360/125	292
	б	360/126	784
360/123.26	5	360/126	784
360/123.27	5	360/126	784
360/123.28	2	360/126	784
360/123.29	1	360/126	784
360/123.3	1	360/126	784
360/123.31	1	360/126	784
360/123.33	1	360/123	215

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

New	Number	Source	Number
Classification	of ORs	Classification	of ORs
360/123.35	1	360/123	215
360/123.36	8	360/123	215
360/123.36	7	360/126	784
360/123.37	1	360/123	215
	2	360/126	784
360/123.38	4	360/123	215
	2	360/126	784
360/123.39	20	360/123	215
	5	360/126	784
360/123.4	7	360/123	215
	2	360/126	784
360/123.41	7	360/123	215
	1	360/126	784
360/123.42	1	360/123	215
360/123.43	1	360/126	784
360/123.45	1	360/123	215
	1	360/126	784
360/123.47	2	360/126	784
360/123.48	1	360/126	784
360/123.49	2	360/126	784
360/123.5	1	360/123	215
	2	360/126	784
360/123.52	1	360/123	215
360/123.57	1	360/125	292
	1	360/126	784
360/123.6	1	360/126	784
360/123.61	1	360/126	784
360/125.01	11	360/119	173
	1	360/120	90
	1	360/123	215
	1	360/124	25
	114	360/125	292
	71	360/126	784
	39	360/127	41
360/125.02	8	360/125	292
0007120002	4	360/126	784
360/125 03	19	360/125	292
500, 125.05	11	360/126	784
360/125 04	1	360/119	173
500/125.01	÷ 2	360/125	292
	8	360/126	784
360/125 05	2	360/126	784
	-		

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

New	Number	Source	Number
Classification	of ORs	Classification	of ORs
360/125.06	2	360/125	292
	9	360/126	784
360/125.07	3	360/126	784
360/125.08	1	360/119	173
360/125.08	1	360/125	292
360/125.09	3	360/125	292
	1	360/126	784
360/125.1	1	360/120	90
	2	360/126	784
360/125.12	1	360/119	173
	1	360/124	25
	11	360/125	292
	30	360/126	784
360/125.13	1	360/119	173
	9	360/125	292
	3	360/126	784
360/125.14	1	360/119	173
	2	360/125	292
	1	360/126	784
360/125.15	7	360/125	292
	2	360/126	784
360/125.16	2	360/125	292
	1	360/126	784
360/125.17	1	360/119	173
	3	360/125	292
	1	360/126	784
360/125.21	1	360/125	292
360/125.22	1	360/119	173
	1	360/125	292
	1	360/126	784
360/125.25	1	360/123	215
360/125.27	1	360/125	292
	3	360/126	784
	1	360/127	41
360/125.28	1	360/126	784
360/125.3	1	360/123	215
	2	360/125	292
	8	360/126	784
360/125.31	2	360/125	292
	4	360/126	784
360/125.32	1	360/126	784

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

New	Number	Source	Number
Classification	of ORs	Classification	of ORs
360/125 33	2	360/119	173
500/125.55	1	360/123	215
	4	360/125	292
	30	360/126	784
360/125 34	1	360/119	173
500, 125.51	8	360/126	784
360/125 35	2	360/125	292
360/125 35	12	360/126	784
360/125.36	1	360/126	784
360/125 37	3	360/126	784
360/125 38	3	360/125	292
300, 123, 30	9	360/126	784
360/125 39	1	360/123	215
500, 125, 57	1	360/125	292
	23	360/126	784
360/125.4	1	360/125	292
000,12011	- 8	360/126	784
360/125.41	3	360/125	292
000,120,12	23	360/126	784
360/125.42	3	360/119	173
	2	360/123	215
	22	360/126	784
360/125.43	1	360/120	90
	2	360/123	215
	1	360/125	292
	51	360/126	784
360/125.44	2	360/119	173
·	1	360/120	90
	17	360/126	784
360/125.45	13	360/126	784
360/125.46	1	360/123	215
	7	360/126	784
360/125.47	1	360/126	784
360/125.5	1	360/119	173
	2	360/123	215
	3	360/125	292
	58	360/126	784
360/125.51	2	360/120	90
	1	360/125	292
	29	360/126	784
360/125.52	2	360/125	292
	18	360/126	784

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

New	Number	Source	Number
Classification	of ORs	Classification	of ORs
	_		
360/125.53	3	360/119	173
	3	360/123	215
	3	360/125	292
	20	360/126	784
360/125.54	2	360/119	173
	2	360/123	215
	10	360/126	784
360/125.55	1	360/119	173
	5	360/126	784
360/125.56	22	360/126	784
360/125.57	5	360/126	784
360/125.61	1	360/119	173
	2	360/126	784
360/125.62	5	360/126	784
360/125.63	17	360/126	784
360/125.64	1	360/119	173
	10	360/126	784
360/125.65	22	360/126	784
360/125.66	2	360/119	173
	5	360/126	784
360/125.67	3	360/126	784
360/125.68	8	360/126	784
360/125.69	1	360/126	784
360/125.71	1	360/123	215
	9	360/126	784
360/125.72	1	360/125	292
	9	360/126	784
360/125.73	1	360/126	784
360/125.74	2	360/120	90
	1	360/126	784
360/125.75	1	360/123	215
	7	360/126	784
360/92.1	1	360/125	292
	1	360/126	784
	471	360/92	478
	1	360/96.5	434
360/96.4	6	360/92	478
360/96.51	1	360/125	292
	432	360/96.5	434
360/96.61	1	360/92	478
	1	360/96.5	434
	77	360/96.6	77

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DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Source	Number	New	Number
Classification	of ORs	Classification	of ORs
360/119	173	360/119.01	83
		360/119.02	3
		360/119.04	1
		360/119.05	2
		360/119.06	1
		360/119.07	13
		360/119.09	1
		360/119.1	1
		360/119.11	15
		360/119.12	7
		360/119.13	1
		360/123.17	4
		360/123.18	1
		360/125.01	11
		360/125.04	1
		360/125.08	1
		360/125.12	1
		360/125.13	1
		360/125.14	1
		360/125.17	1
		360/125.22	1
		360/125.33	2
		360/125.34	1
		360/125.42	3
		360/125.44	2
		360/125.5	1
		360/125.53	3
		360/125.54	2
		360/125.55	1
		360/125.61	1
		360/125.64	L
260/100	0.0	360/125.66	2
360/120	90	360/119.01	32
		360/119.02	L
		360/119.03	2
		360/119.04	2
		360/119.07	1
		30U/119.U8 260/110.00	Т Е
		30U/119.U9 260/110_1	5 1
		30U/119.1 260/110 11	1 O
		300/119.11 260/125 01	1
		30U/145.UL 260/125 1	⊥ 1
		30U/123.1	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Source	Number	New	Number
Classification	of ORs	Classification	of ORs
		360/125.43	1
		360/125.44	1
260/100	0.0	360/125.51	2
360/120	90	360/125.74	2
360/123	215	360/119.07	1
		360/119.00	1 0.2
		360/123.01	3
		360/123.02	1
		360/123.04	1
		360/123.05	3
		360/123.06	1
		360/123.11	5
		360/123.12	1
		360/123.17	13
		360/123.18	2
		360/123.19	5
		360/123.2	3
		360/123.21	1
		360/123.25	2
		360/123.33	1
		360/123.35	1 0
		360/123.30	0
		360/123.37	1 4
		360/123 39	20
		360/123.4	7
		360/123.41	7
		360/123.42	1
		360/123.45	1
		360/123.5	1
		360/123.52	1
		360/125.01	1
		360/125.25	1
		360/125.3	1
		360/125.33	1
		360/125.39	1
		360/125.42 360/125 /2	∠ 2
		360/125.43	∠ 1
		360/125 5	2
		360/125.53	3
		360/125.54	2
		360/125.71	1

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DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Source	Number	New	Number
<u>Classification</u>	of ORs	Classification	of ORs
		360/125.75	1
360/124	25	360/119.05	1
		360/123.01	21
		360/125.01	1
0.00 / 1.05		360/125.12	1
360/125	292	360/119.01	3
		360/119.02	1
		360/119.03	1
		360/119.04	Ţ
		360/119.05	4
		360/119.07	3
		360/119.11	4
		360/122	۲ 1 ت
		360/123.01	⊥ / 1
		360/123.03	1
		360/123.05	1
		360/123.00	1
		360/123.07	2
		360/123.12	1
		360/123.12	3
		360/123.17	4
		360/123.18	1
		360/123.19	2
		360/123.25	1
		360/123.57	1
		360/125.01	114
		360/125.02	8
		360/125.03	19
		360/125.04	2
		360/125.06	2
		360/125.08	1
		360/125.09	3
		360/125.12	11
		360/125.13	9
		360/125.14	2
		360/125.15	7
		360/125.16	2
		360/125.17	3
		360/125.21	1
		360/125.22	1
		360/125.27	1
		360/125.3	2
		360/125.31	2

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DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Source	Nur	mber	New	Number
Classification	<u>of</u>	ORs	Classification	of ORs
			360/125.33	4
			360/125.35	2
			360/125.38	3
			360/125.39	1
			360/125.4	1 2
260/125 42	10.00/10.0	704	360/125.41	3
360/125.43	1360/126	784	360/125.01	71
			360/125.02	4
			360/125.03	11
			360/125.04	8
			360/125.05	2
			360/125.00	9
			360/125.07	3
			360/125.09	⊥ 2
			360/125.12	30
			360/125.12	3
			360/125.13	1
			360/125.15	2
			360/125 16	1
			360/125.17	1
			360/125.22	1
			360/125.27	3
			360/125.28	1
			360/125.3	8
			360/125.31	4
			360/125.32	1
			360/125.33	30
			360/125.34	8
			360/125.35	12
			360/125.36	1
			360/125.37	3
			360/125.38	9
			360/125.39	23
			360/125.4	8
			360/125.41	23
			360/125.42	22
			360/125.43	51
			360/125.44	17
			360/125.45	13
			360/125.46	7
			360/125.47	1
			360/125.5	58
			360/125.51	29

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DISPOSITION CLASSIFICATION(S) OF PATENTS FROM ABOLISHED SUBCLASSES REPORT

Source	Number	New	Number
Classification	of ORs	Classification	of ORs
			1.0
		360/125.52	18
		360/125.53	20
		360/125.54	10
		360/125.55	5
		360/125.56	22
		360/125.57	5
		360/125.61	2
		360/125.62	5
		360/126	784
		360/125.63	17
		360/125.64	10
		360/125.65	22
		360/125.66	5
		360/125.67	3
		360/125.68	8
		360/125.69	1
		360/125.71	9
		360/125.72	9
		360/125.73	1
		360/125.74	1
		360/125.75	7
		360/92.1	1
360/127	41	360/118	1
		360/125.01	39
		360/125.27	1
360/92	478	360/92.1	471
		360/96.4	6
		360/96.61	1
360/96.5	434	360/92.1	1
		360/96.51	432
		360/96.61	1
360/96.6	77	360/96.61	77

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

<u>U.S.</u>		<u>I.P.C.</u>	
Class	<u>Subclass</u>	Subclass	<u>Notation</u>
360	92.1	G11B	15/68
	96.51	G11B	5/008
	96.61	G11B	5/008
	119.01-119.13	G11B	5/23
	123.01-123.11	G11B	5/17
	123.12	G11B	5/10
		G11B	5/17
	123.13-123.36	G11B	5/17
	123.37	G11B	5/10
			5/115
			5/17
	123.38-123.57	G11B	5/17
	123.58	G11B	5/10
			5/115
			5/17
	123.59-123.61	G11B	5/17
	125.01-125.07	G11B	5/127
	125.08	G11B	5/147
	125.09-125.11	G11B	5/127
	125.12	G11B	5/127
		G11B	5/147
	125.13-125.23	G11B	5/127
	125.24	G11B	5/127
			5/147
	125.25	G11B	5/127
	125.26	G11B	5/127
		G11B	5/147
	125.27	G11B	5/127
	125.28	G11B	5/127
		G11B	5/147
	125.29-125.31	G11B	5/127
	125.32	G11B	5/127
		G11B	5/40
	125.33-125.38	G11B	5/127
	125.39	G11B	5/127
		G11B	5/147
	125.4-125.49	G11B	5/127
	125.5	G11B	5/127
		G11B	5/147
	125.51-125.57	G11B	5/127
	125.58	G11B	5/127
		G11B 5/147	

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

	<u>U.S.</u>	<u>I.P</u>	<u>P.C.</u>
<u>Class</u>	Subclass	Subclass	Notation
	125.59-125.62	G11B	5/127
	125.63	G11B	5/127
		G11B	5/147
	125.64-125.68	G11B	5/127
	125.69	G11B	5/127
		G11B	5/147
	125.70-125.72	G11B	5/127
	125.73	G11B	5/127
		G11B	5/147
	125.74	G11B	5/127
	125.75	G11B	5/127
		G11B	5/40

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D. CHANGES TO THE DEFINITIONS

CLASS 242 -- WINDING, TENSIONING, OR GUIDING

Definitions Modified

Subclass 324.2: Under See or Search Class

Delete:

360, Dynamic Magnetic Information Storage or Retrieval, subclasses 92 through 96.6 and 132 for a magnetic tape cassette.

Insert:

- 360, Dynamic Magnetic Information Storage or Retrieval, subclasses 92.1 through 96.61 and 132 for a magnetic tape cassette.
- Subclass 326: Under See or Search Class

Delete:

360, Dynamic Magnetic Information Storage or Retrieval, subclasses 92 through 96 and 132 for a magnetic tape cassette.

Insert:

- 360, Dynamic Magnetic Information Storage or Retrieval, subclasses 92.1 through 96.61 and 132 for a magnetic tape cassette.
- Subclass 337: Under See or Search Class

Delete:

360, Dynamic Magnetic Information Storage or Retrieval, subclasses 92 through 96.6 for a magnetic tape cassette.

Insert:

360, Dynamic Magnetic Information Storage or Retrieval, subclasses 92.1 through 96.61 for a magnetic tape cassette.

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D. CHANGES TO THE DEFINITIONS

Subclass 338.4: Under See or Search Class

Delete:

 360, Dynamic Magnetic Information Storage or Retrieval, subclasses 92 and 93+ for a cartridge device claimed with a particular transducing structure.

Insert:

360, Dynamic Magnetic Information Storage or Retrieval, subclasses 92.1 and 93+ for a cartridge device claimed with a particular transducing structure.

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D. CHANGES TO THE DEFINITIONS

CLASS 360 -- DYNAMIC MAGNETIC INFORMATION STORAGE OR RETRIEVAL

Definitions Abolished

Subclasses:

92, 96, 5, 96.6, 119, 120, 123-127

Definitions Modified

Subclass 121: Delete:

121 This subclass is indented under subclass 119. Subject matter including detailed structure of plural gap transducers.

Insert:

121 Plural gaps:

This subclass is indented under subclass 110. Subject matter includes detailed structure of plural gap transducers.

Definitions Established

92.1 Tape in container:

This subclass is indented under subclass 91. Subject matter wherein the plural tapes are enclosed in single or plural containers.

96.51 Container mounting details:

This subclass is indented under subclass 96.1. Subject matter includes details of the container mounting mechanism.

(1) Note. This subclass and its indents also include container mounting structure where there is only a nominal recitation of the transport.

SEE OR SEARCH CLASS:

242, Winding, Tensioning, or Guiding, subclasses 338 through 242 and subclass 339 for details of a cartridge mounting.

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D. CHANGES TO THE DEFINITIONS

96.61 With pivotal holder

This subclass is indented under subclass 96.51. Subject matter wherein the container mounting mechanism includes a pivoted container holder that moves in an arc between a container loading position and a transducing position.

119.01 Gap spacer:

This subclass is indented under subclass 110. Subject matter including a detail of a nonmagnetic element located between poles of a head to define the transducing area.

119.02 For perpendicular recording head:

This subclass is indented under subclass 119.01. Subject matter wherein the transducer is configured to record data in a storage medium by orienting magnetic domains normal to the plane of the storage medium.

(1) Note. Although this definition refers to the plane of a storage medium, it is understood that media may have a nonplanar macroscopic shape.

119.03 Laminated spacer:

This subclass is indented under subclass 119.02. Subject matter wherein the gap spacer is made up of a plurality of layers.

119.04 Configuration detail:

This subclass is indented under subclass 119.02. Subject matter including a detail of the structural form of the gap spacer.

119.05 For longitudinal thin film recording head:

This subclass is indented under subclass 119.01. Subject matter wherein the transducer comprises a plurality of thin layers and is configured to record data in a storage medium by orienting magnetic domains parallel to the plane of the storage medium.

(1) Note. Although this definition refers to the plane of the storage medium, it is understood that media may have a nonplanar macroscopic shape.

119.06 Pancake type:

This subclass is indented under subclass 119.05. Subject matter wherein the layers are located in planes parallel to the plane of the storage medium.

119.07 Laminated spacer:

This subclass is indented under subclass 119.05. Subject matter wherein the gap spacer is made up of a plurality of layers.

(1) Note. Metal in gap (MIG) can be found in this subclass.

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D. CHANGES TO THE DEFINITIONS

119.08 With thermally conductive material:

This subclass is indented under subclass 119.07. Subject matter wherein one of the layers of the spacer is a material which transfers heat.

119.09 With diffusion barrier:

This subclass is indented under subclass 119.07. Subject matter wherein one of the layers of the spacer is a layer for preventing particles of spacer material from migrating out of the spacer area and into other layers of the transducer.

119.1 Three or more layers:

This subclass is indented under subclass 119.07. Subject matter wherein the number of layers is greater than two.

119.11 Configuration detail:

This subclass is indented under subclass 119.05. Subject matter includes a detail of the structural form of the gap spacer.

119.12 Nonuniform width transducing face:

This subclass is indented under subclass 119.11. Subject matter wherein the surface of the gap spacer facing the medium has a varying side-to-side measurement in the transverse direction of a recorded track.

119.13 Nonuniform width vertically:

This subclass is indented under subclass 119.11. Subject matter wherein a cross section of the gap spacer, in the transverse direction of a recorded track, varies along its extent normal to the storage medium.

123.01 Coil:

This subclass is indented under subclass 110. Subject matter including a detail of the position, size, inductance or other feature of the traces used to generate magnetic flux in the head.

(1) Note. The term "trace" in the art is a singular wire or ribbon or strand of conductive material. Typically, multiple traces make up a coil.

SEE OR SEARCH CLASS:

336, Inductor Devices, subclasses 5 through 234 for inductor windings.

123.02 For perpendicular recording head:

This subclass is indented under subclass 123.01. Subject matter wherein a transducer is configured to record data in a storage medium by orienting magnetic domains normal to the plane of the storage medium.

(1) Note. Although this definition refers to the plane of the storage medium, it is understood that the medium may have a nonplanar macroscopic shape.

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D. CHANGES TO THE DEFINITIONS

123.03 Location:

This subclass is indented under subclass 123.02. Subject matter includes a detail of the position of the coil with respect to a specific part of the head structure.

123.04 On return pole:

This subclass is indented under subclass 123.03. Subject matter wherein the coil is positioned on or about a flux returning pole of the head structure.

123.05 On main/recording pole:

This subclass is indented under subclass 123.03. Subject matter wherein the coil is positioned on or about a flux-emanating pole of the head structure.

123.06 Configuration detail:

This subclass is indented under subclass 123.02. Subject matter including a detail of the structural form of the coil.

123.07 Nonuniform trace spacing:

This subclass is indented under subclass 123.06. Subject matter including a detail of the spacing between individual traces of the coil, where that spacing is not constant.

123.08 Trace cross section shape:

This subclass is indented under subclass 123.06. Subject matter including a detail of the cross-sectional configuration of an individual trace.

123.09 Insulation detail:

This subclass is indented under subclass 123.02. Subject matter including a detail of a nonmagnetic, nonelectrically conductive material used to encapsulate and isolate the coil.

123.1 Electrical connection detail:

This subclass is indented under subclass 123.02. Subject matter including a detail of a structure that provides a conductive path between the coil and an external device.

123.11 Plural separate coils:

This subclass is indented under subclass 123.02. Subject matter wherein the coil is made up of at least two distinct groups of turns of traces.

123.12 Shielding/protection:

This subclass is indented under subclass 123.02. Subject matter including a detail of a material or structure which protects or shields the coil, e.g., electrical shielding, corrosion protection.

SEE OR SEARCH CLASS:

320, Electricity: Battery or Capacitor Charging or Discharging, subclasses 100 through 167 for detail of magnetic shielding, head insulation, respectively, accompanied with a magnetoresistive (MR) type read head.

123.13 For thin film longitudinal recording head:

This subclass is indented under subclass 123.01. Subject matter wherein the transducer comprises a plurality of thin layers and is configured to record data in a storage medium by orienting magnetic domains parallel to the plane of the storage medium.

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(1) Note. Although this definition refers to the plane of the storage medium, it is understood that the medium may have a nonplanar macroscopic shape.

123.14 Pancake type:

This subclass is indented under subclass 123.13. Subject matter wherein the layers are located in planes parallel to the plane of the medium.

123.15 Plural coil layers:

This subclass is indented under subclass 123.14. Subject matter wherein the coil is made up of more than one layer, with each layer positioned in a plane parallel to the plane of the medium.

123.16 Insulation detail:

This subclass is indented under subclass 123.14. Subject matter including a detail of the nonmagnetic, nonelectrically conductive material used to encapsulate and isolate the coil.

123.17 Plural separate coils:

This subclass is indented under subclass 123.13. Subject matter wherein coil is made up of at least two distinct groups of turns of traces.

123.18 Single plane coil:

This subclass is indented under subclass 123.13. Subject matter wherein the coil is made up of plural connected conductive traces located in one plane perpendicular to the plane of the medium.

123.19 Configuration detail:

This subclass is indented under subclass 123.18. Subject matter including a detail of the structural form of the winding.

123.2 Trace cross section shape:

This subclass is indented under subclass 123.19. Subject matter including a detail of the cross-sectional configuration of an individual trace.

123.21 Trace spacing:

This subclass is indented under subclass 123.19. Subject matter including a detail of the spacing between individual traces of the winding.

123.22 Coil spacing from storage medium:

This subclass is indented under subclass 123.19. Subject matter including a detail of the spacing of the trace closest to the medium.

123.23 Coil spacing from plane of gap:

This subclass is indented under subclass 123.19. Subject matter includes a detail of the spacing from the plane of the coil to a plane of the gap, the spacing being measured in the direction of travel of the medium.

(1) Note. The gap is the transducing gap that allows the flux to pass through during the writing/recording process.

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D. CHANGES TO THE DEFINITIONS

123.24 Seed layer:

This subclass is indented under subclass 123.18. Subject matter wherein one or more additional layers are provided to promote disposition or growth of coil material.

123.25 Insulation detail:

This subclass is indented under subclass 123.18. Subject matter includes a detail of a nonmagnetic, nonelectrically conductive material used to encapsulate and isolate the coil.

123.26 Zero throat height detail:

This subclass is indented under subclass 123.25. Subject matter wherein the detail of the insulation pertains to the point at which the distance between the poles begins to increase.

123.27 Apex angle:

This subclass is indented under subclass 123.25. Subject matter includes a detail of the configuration of the nonmagnetic, nonelectrically conductive insulation that defines the slope of a pole adjacent a pole tip region.

(1) Note. A pole tip region is the area closest to the storage medium.

123.28 Plural layers:

This subclass is indented under subclass 123.25. Subject matter wherein the nonmagnetic, nonelectrically conductive insulation is made up of more than one layer.

123.29 Diverse materials:

This subclass is indented under subclass 123.28. Subject matter wherein at least one of the plural layers is of a material different from that of the other layers.

123.3 Planarizing layer:

This subclass is indented under subclass 123.28. Subject matter wherein at least one of the plural insulation layers is provided to form a flat surface.

123.31 Below coil:

This subclass is indented under subclass 123.28. Subject matter wherein more than one of the plural insulation layers are positioned below the plane of the coil.

123.32 Above coil:

This subclass is indented under subclass 123.28. Subject matter wherein more than one of the plural insulation layers are positioned above the plane of the coil.

123.33 Between traces:

This subclass is indented under subclass 123.28. Subject matter wherein more than one of the plural insulation layers are positioned between individual conductive traces of the coil.

123.34 Between coil and medium:

This subclass is indented under subclass 123.28. Subject matter wherein more than one of the plural insulation layers are positioned between the medium and the trace closest to the medium.

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D. CHANGES TO THE DEFINITIONS

123.35 Plural diverse layers:

This subclass is indented under subclass 123.18. Subject matter wherein each trace of the coil is made up of more than one layer, at least one of which is of a material different from that of the other layers.

123.36 Electrical connection detail:

This subclass is indented under subclass 123.18. Subject matter including a specific feature that provides a conductive path between the coil and an external device.

123.37 Shielding/protection:

This subclass is indented under subclass 123.18. Subject matter including a detail of a material or structure that protects or shields the coil, e.g., electrical shielding, corrosive protection.

SEE OR SEARCH CLASS:

320, Electricity: Battery or Capacitor Charging or Discharging, subclasses 100 through 167 for detail of magnetic shielding, head insulation, respectively, accompanied with a magnetoresistive (MR) type read head.

123.38 Plural plane coil:

This subclass is indented under subclass 123.13. Subject matter wherein the coil is made up of plural connected conductive traces located in more than one plane perpendicular to the plane of the storage medium.

123.39 Intercoil layer electrical connection detail:

This subclass is indented under subclass 123.38. Subject matter including a specific feature that provides a conductive path between two or more coil segments.

123.4 Configuration detail:

This subclass is indented under subclass 123.38. Subject matter including a detail of the structural form of a coil layer.

123.41 Trace cross section shape:

This subclass is indented under subclass 123.4. Subject matter including a detail of the cross-sectional configuration of an individual trace.

123.42 Trace spacing:

This subclass is indented under subclass 123.4. Subject matter including a detail of the spacing between individual traces of the coil.

123.43 Coil spacing from storage medium:

This subclass is indented under subclass 123.4. Subject matter including a detail of the spacing of the trace closest to the medium.

123.44 Coil spacing from plane of gap:

This subclass is indented under subclass 123.4. Subject matter including a detail of the spacing from the plane of the coil to the plane of the gap, the spacing being measured in the direction of travel of the medium.

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123.45 Seed layer:

This subclass is indented under subclass 123.38. Subject matter wherein one or more additional layers are provided to promote disposition or growth of coil material.

123.46 insulation detail:

This subclass is indented under subclass 123.38. Subject matter including a detail of a nonmagnetic, nonelectrically conductive material used to encapsulate and isolate the coil.

123.47 Zero throat height detail:

This subclass is indented under subclass 123.46. Subject matter wherein the detail of the insulation pertains to the point at which the distance between the poles begins increase.

123.48 Apex angle:

This subclass is indented under subclass 123.46. Subject matter including a detail of the configuration of the nonmagnetic, nonelectrically conductive insulation that defines the slope of a core adjacent the pole tip region.

123.49 Plural layers:

This subclass is indented under subclass 123.46. Subject matter wherein the nonmagnetic, nonelectrically conductive insulation is made up of more than one layer.

123.5 Diverse materials:

This subclass is indented under subclass 123.49. Subject matter wherein at least one of the plural layers is of a material different from that of other layers.

123.51 Planarizing layer:

This subclass is indented under subclass 123.49. Subject matter wherein at least one of the plural layers is provided to form a flat surface.

123.52 Below coil:

This subclass is indented under subclass 123.49. Subject matter wherein more than one of the layers are positioned below the plane of the lowermost coil segment.

123.53 Above coil:

This subclass is indented under subclass 123.49. Subject matter wherein more than one of the layers are positioned above the plane of the uppermost coil segment.

123.54 Between traces:

This subclass is indented under subclass 123.49. Subject matter wherein more than one of the plural layers are positioned between the adjacent segments of the coil.

123.55 Between coil and medium:

This subclass is indented under subclass 123.49. Subject matter wherein more than one of the plural layers are positioned between the medium and the traces closest the medium.

123.56 Plural diverse layers:

This subclass is indented under subclass 123.38. Subject matter wherein each trace of the coil is made up of more than one layer, at least one of which is of a material different from that of the other layers.

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D. CHANGES TO THE DEFINITIONS

123.57 Electrical connection detail:

This subclass is indented under subclass 123.38. Subject matter including a specific feature that provides a conductive path between the coil and an external device.

123.58 Shielding/protection:

This subclass is indented under subclass 123.38. Subject matter including a detail of a material or structure that protects or shields one or more of the coil segments, e.g., electrical shielding, corrosion protection.

SEE OR SEARCH CLASS:

320, Electricity: Battery or Capacitor Charging or Discharging, subclasses 100 through 167 for detail of magnetic shielding, head insulation, respectively, accompanied with a magnetoresistive (MR) type read head.

123.59 Location:

This subclass is indented under subclass 123.13. Subject matter including a detail of the position of the winding with respect to a specific part of the head structure.

123.6 Coil around pole adjacent substrate:

This subclass is indented under subclass 123.59. Subject matter wherein the coil is positioned on or about the pole closest to a supporting base layer.

123.61 Coil around pole remote from substrate:

This subclass is indented under subclass 123.59. Subject matter wherein the coil is positioned on or about the pole remote from a supporting base layer.

125.01 Core:

This subclass is indented under subclass 110. Subject matter comprising a position, size, configuration, or other feature of a magnetic flux conducting element of the head.

125.02 Perpendicular recording head:

This subclass is indented under subclass 125.01. Subject matter wherein a transducer is configured to record data in a storage medium by orienting magnetic domains normal to the plane of the storage medium.

125.03 Main/recording pole:

This subclass is indented under subclass 125.02. Subject matter including a detail of the magnetic element from which the recording flux projects into the medium.

125.04 Plural poles:

This subclass is indented under subclass 125.03. Subject matter wherein the recording pole is made up of a plurality of separate poles.

125.05 Offset from track centerline:

This subclass is indented under subclass 125.03. Subject matter wherein the recording pole is asymmetrically located relative to the center of a recorded track in the transverse direction.

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D. CHANGES TO THE DEFINITIONS

125.06 Separate pole tip:

This subclass is indented under subclass 125.03. Subject matter wherein the recording pole includes an additional tip element immediately adjacent the medium.

125.07 Junction detail:

This subclass is indented under subclass 125.06. Subject matter including a detail of the area where the separate tip element is joined to the recording pole.

125.08 Laminated:

This subclass is indented under subclass 125.06. Subject matter wherein the separate tip element is made up of more than one layer.

125.09 Nonuniform width transducing face:

This subclass is indented under subclass 125.06. Subject matter wherein the surface of the separate tip element facing the medium has a varying side to side measurement in the transverse direction of a recorded track.

125.1 Nonuniform width vertically:

This subclass is indented under subclass 125.06. Subject matter wherein a cross section of the separate tip element, in the transverse direction of a recorded track, varies along its extent normal to the recorded track.

125.11 Nonuniform thickness vertically:

This subclass is indented under subclass 125.06. Subject matter wherein a cross section of the separate tip element, in the traveling direction of the medium, varies along its extent normal to the medium.

125.12 Laminated:

This subclass is indented under subclass 125.03. Subject matter wherein the recording pole is made up of more than one layer.

125.13 Nonuniform width transducing face:

This subclass is indented under subclass 125.03. Subject matter wherein the surface of the recording pole facing the medium has a varying side to side measurement in the transverse direction of a recorded track.

125.14 Nonuniform width vertically:

This subclass is indented under subclass 125.03. Subject matter wherein a cross section of the recording pole, in the transverse direction of a recorded track, varies along its extent normal to the medium.

125.15 Nonuniform thickness vertically:

This subclass is indented under subclass 125.03. Subject matter wherein a cross section of the recording pole, in the traveling direction of the medium, varies along its extent normal to the medium.

125.16 Return pole:

This subclass is indented under subclass 125.02. Subject matter including a detail of the magnetic element to which the recording flux returns from the medium.

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D. CHANGES TO THE DEFINITIONS

125.17 Plural poles:

This subclass is indented under subclass 125.16. Subject matter wherein the return pole is made up of a plurality of separate poles.

125.18 Offset from track centerline:

This subclass is indented under subclass 125.16. Subject matter wherein the return pole is asymmetrically located relative to the center of a recorded track in the transverse direction.

125.19 Nonuniform width transducing face:

This subclass is indented under subclass 125.16. Subject matter wherein the surface of the return pole facing the medium has a varying side to side measurement in the transverse direction of a recorded track.

125.2 Nonuniform width vertically:

This subclass is indented under subclass 125.16. Subject matter wherein a cross section of the return pole, in the transverse direction of a recorded track, varies along its extent normal to the recorded track.

125.21 Nonuniform thickness vertically:

This subclass is indented under subclass 125.16. Subject matter wherein a cross section of the return pole, in the traveling direction of the medium, varies along its extent normal to the medium.

125.22 Separate pole tip:

This subclass is indented under subclass 125.16. Subject matter wherein the return pole comprises an additional tip element immediately adjacent the medium which is joined to the return pole.

125.23 Junction detail:

This subclass is indented under subclass 125.22. Subject matter including a details of the area where the separate tip element is joined to the return pole.

125.24 Laminated:

This subclass is indented under subclass 125.22. Subject matter wherein the separate tip element is made up of more than one layer.

125.25 Configuration detail:

This subclass is indented under subclass 125.22. Subject matter including a detail of the structural form of the separate tip element.

125.26 Laminated:

This subclass is indented under subclass 125.16. Subject matter wherein the return pole is made up of more than one layer.

125.27 Coupling section:

This subclass is indented under subclass 125.02. Subject matter including a detail of an element remote from the storage medium which connects the recording pole to the return pole.

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D. CHANGES TO THE DEFINITIONS

125.28 Laminated:

This subclass is indented under subclass 125.27. Subject matter wherein the coupling section is made up of more than one layer.

125.29 Junction detail:

This subclass is indented under subclass 125.27. Subject matter including a detail of the area where the coupling section is joined to either the recording pole or return pole.

125.3 Accessory feature:

This subclass is indented under subclass 125.02. Subject matter including a detail of an element providing a function other than magnetic flux conduction, e.g., abrasion protection, corrosion protection, electrical shielding, magnetic shielding.

125.31 Heat generating structure:

This subclass is indented under subclass 125.3. Subject matter wherein the function involved is the generation of heat.

125.32 Heat transfer structure:

This subclass is indented under subclass 125.3. Subject matter wherein the function involved is the removal of heat.

125.33 Thin film longitudinal recording head:

This subclass is indented under subclass 125.01. Subject matter wherein a transducer comprises a plurality of thin layers and is configured to record data in a storage medium by orienting magnetic domains parallel to the plane of the storage medium.

125.34 Pancake type:

This subclass is indented under subclass 125.33. Subject matter wherein the layers are located in planes parallel to the plane of the medium.

125.35 Core section adjacent medium:

This subclass is indented under subclass 125.34. Subject matter including a detail of an element forming the front core section located immediately adjacent and parallel to the plane of the medium.

125.36 Back core section remote from medium:

This subclass is indented under subclass 125.34. Subject matter including a detail of an element forming the rear core section remote from and parallel to the plane of the medium.

125.37 Coupling section:

This subclass is indented under subclass 125.34. Subject matter including a detail of an element remote from the storage medium which connects the parallel front and rear core sections.

125.38 Substrate:

This subclass is indented under subclass 125.33. Subject matter including a detail of a nonmagnetic support for the head.

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D. CHANGES TO THE DEFINITIONS

125.39 Laminated:

This subclass is indented under subclass 125.38. Subject matter wherein the substrate is made up of more than one layer.

125.4 Nonuniform thickness vertically:

This subclass is indented under subclass 125.38. Subject matter wherein a cross section of the substrate, in the traveling direction of the medium, varies along its extent normal to the medium.

125.41 Pole adjacent substrate:

This subclass is indented under subclass 125.33. Subject matter including a detail of the magnetic core section immediately adjacent a supporting base layer.

125.42 Zero throat height detail:

This subclass is indented under subclass 125.41. Subject matter wherein the detail of the insulation pertains to the point at which the distance between the poles begins increase.

125.43 Separate pole tip:

This subclass is indented under subclass 125.41. Subject matter wherein the pole adjacent the substrate includes an additional tip element immediately adjacent the medium.

125.44 Junction detail:

This subclass is indented under subclass 125.43. Subject matter including a detail of the area where the separate tip element is joined to the pole adjacent the substrate.

125.45 Laminated:

This subclass is indented under subclass 125.43. Subject matter wherein the separate tip element is made up of more than one layer.

125.46 Nonuniform width transducing face:

This subclass is indented under subclass 125.43. Subject matter wherein the surface facing the medium of the separate tip element has a varying side to side measurement in the transverse direction of a recorded track.

125.47 Nonuniform width vertically:

This subclass is indented under subclass 125.43. Subject matter wherein a cross section of the separate tip element, in the transverse direction of a recorded track, varies along its extent normal to the recorded track.

125.48 Nonuniform thickness vertically:

This subclass is indented under subclass 125.43. Subject matter wherein a cross section of the separate tip element, in the traveling direction of the medium, varies along its extent normal to the medium.

125.49 Projecting:

This subclass is indented under subclass 125.43. Subject matter where the medium-facing surface of the separate tip element is closer to the medium than the medium-facing surface of the pole it is attached to.

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D. CHANGES TO THE DEFINITIONS

125.5 Laminated:

This subclass is indented under subclass 125.41. Subject matter wherein the pole adjacent the substrate is made up of more than one layer.

125.51 Nonuniform width transducing face:

This subclass is indented under subclass 125.41. Subject matter wherein the surface facing the medium of the pole adjacent the substrate has a varying side to side measurement in the transverse direction of a recorded track.

125.52 Nonuniform width vertically:

This subclass is indented under subclass 125.41. Subject matter wherein a cross section of the pole adjacent the substrate, in the transverse direction of a recorded track, varies along its extent normal to the recorded track.

125.53 Nonuniform thickness vertically:

This subclass is indented under subclass 125.41. Subject matter wherein a cross section of the pole adjacent the substrate, in the traveling direction of the medium, varies along its extent normal to the medium.

125.54 Pole remote from substrate:

This subclass is indented under subclass 125.33. Subject matter including a detail of the magnetic core section remote from a supporting base layer.

125.55 Zero throat height detail:

This subclass is indented under subclass 125.54. Subject matter wherein the detail of the insulation pertains to the point at which the distance between the poles begins increase.

125.56 Separate pole tip:

This subclass is indented under subclass 125.54. Subject matter wherein the pole remote from the substrate includes an additional tip element immediately adjacent the medium.

125.57 Junction detail:

This subclass is indented under subclass 125.56. Subject matter including a detail of the area where the separate tip element is joined to the pole remote from the substrate.

125.58 Laminated:

This subclass is indented under subclass 125.56. Subject matter wherein the separate tip element is made up of more than one layer.

125.59 Nonuniform width transducing face:

This subclass is indented under subclass 125.56. Subject matter wherein the surface facing the medium of the separate tip element has a varying side to side measurement in the transverse direction of a recorded track.

125.6 Nonuniform width vertically:

This subclass is indented under subclass 125.56. Subject matter wherein a cross section of the separate tip element, in the transverse direction of a recorded track, varies along its extent normal to the recorded track.

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D. CHANGES TO THE DEFINITIONS

125.61 Nonuniform thickness vertically:

This subclass is indented under subclass 125.56. Subject matter wherein a cross section of the separate tip element, in the traveling direction of the medium, varies along its extent normal to the medium.

125.62 Projecting:

This subclass is indented under subclass 125.56. Subject matter where the medium-facing surface of the separate tip element is closer to the medium than the medium-facing surface of the pole it is attached to.

125.63 Laminated:

This subclass is indented under subclass 125.54. Subject matter wherein the pole remote from the substrate is made up of more than one layer.

125.64 Nonuniform width transducing face:

This subclass is indented under subclass 125.54. Subject matter wherein the surface facing the medium of the pole remote from the substrate has a varying side to side measurement in the transverse direction of a recorded track.

125.65 Nonuniform width vertically:

This subclass is indented under subclass 125.54. Subject matter wherein a cross section of the pole remote from the substrate, in the transverse direction of a recorded track, varies along its extent normal to the recorded track.

125.66 Nonuniform thickness vertically:

This subclass is indented under subclass 125.54. Subject matter wherein a cross section of the pole remote from the substrate, in the traveling direction of the medium, varies along its extent normal to the medium.

125.67 Coupling section:

This subclass is indented under subclass 125.33. Subject matter including a detail of an element remote from the medium which connects the pole adjacent the substrate to the pole remote from the substrate.

125.68 Junction detail:

This subclass is indented under subclass 125.67. Subject matter including a detail of the area where the coupling section is joined to either the pole adjacent the substrate or the pole remote from the substrate.

125.69 Laminated:

This subclass is indented under subclass 125.67. Subject matter wherein the coupling section is made up of more than one layer.

125.7 Nonuniform cross section:

This subclass is indented under subclass 125.67. Subject matter wherein the coupling section has a nonconstant cross-sectional configuration.

125.71 Accessory feature:

This subclass is indented under subclass 125.33. Subject matter including a detail of an element providing a function other than magnetic flux conduction.

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D. CHANGES TO THE DEFINITIONS

125.72 Protective structure:

This subclass is indented under subclass 125.71. Subject matter wherein the function is protection, e.g., abrasion protection, corrosion protection, electrical shielding, magnetic shielding.

125.73 Laminated:

This subclass is indented under subclass 125.72. Subject matter wherein the protective structure is made up of more than one layer.

125.74 Heat generating structure:

This subclass is indented under subclass 125.71. Subject matter wherein the function involved is the generation of heat.

125.75 Heat transfer structure:

This subclass is indented under subclass 125.71. Subject matter wherein the function involved is the removal of heat.