

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

The following classification changes will be effected by this Notice of Changes:

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
SCHEME:		
Titles Changed:	G01B	Subclass
	G01B	3/22
	G01B	5/24
	G01B	7/16
	G01B	9/04, 9/06
	G01B	11/06, 11/14, 11/25
	G01B	13/06
	G01S	3/00, 3/68, 3/786, 3/787, 3/802
	G01S	5/12, 5/28
	G01S	7/36, 7/38, 7/521, 7/537, 7/62
	G01S	11/00, 11/08
	G01S	13/524
	G01S	17/08, 17/48
	G01T	Subclass
	G01T	1/02, 1/08, 1/15, 1/164, 1/169, 1/175, 1/185, 1/24, 1/28, 1/29, 1/40
	G01T	3/00, 3/08
	G01T	7/08
	G01V	Subclass
	G01V	1/02, 1/157, 1/16, 1/22, 1/24
	G01V	3/00, 3/08, 3/38
	G01V	5/00
	G01V	7/08
	G01V	8/00, 8/10
	G01V	13/00
	G01V	15/00
	G11B	Subclass
	G11B	3/00, 3/02, 3/54, 3/58, 3/60, 3/70
	G11B	5/02, 5/245, 5/455, 5/465, 5/54, 5/56, 5/627, 5/84
	G11B	7/00, 7/085, 7/1245, 7/125, 7/13, 7/26
	G11B	15/18, 15/22, 15/43, 15/54
	G11B	19/00, 19/22, 19/28
	G11B	20/06, 20/08, 20/10
	G11B	23/02, 23/30, 23/50
	G11B	25/00
	G11B	27/02, 27/24
	G11B	33/00, 33/02

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	H01L	21/00, 21/265, 21/31, 21/425, 21/469, 21/48, 21/68
	H01L	23/32, 23/42, 23/48, 23/60
	H01L	31/00, 31/18
	H01L	35/00, 35/34
	H01L	37/00
	H01L	43/00, 43/12
	H01P	Subclass
	H01P	1/04, 1/08, 1/16, 1/18, 1/20, 1/28
	H01P	3/06
	H01P	5/00
	H01P	7/00
	H01P	9/00
	H01P	11/00
Notes Modified:	G01V	Subclass
DEFINITIONS:		
Definitions New:	G11B	3/58
	G11B	5/245
Definitions Modified:	G01B	Subclass
	G01S	3/00
	G01S	5/12
	G01S	7/36, 7/38, 7/521, 7/537
	G01S	11/00
	G01S	13/524
	G01S	17/08
	G01T	Subclass
	G01T	3/00
	G01V	Subclass
	G01V	1/02, 1/16
	G01V	3/00
	G01V	5/00
	G01V	8/00
	G01V	15/00
	G11B	Subclass
	G11B	3/00
	G11B	5/02, 5/455, 5/465
	G11B	7/00, 7/26
	G11B	19/00
	G11B	25/00
	G11B	33/00
	H01L	21/00, 21/469, 21/48

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

<u>Action</u>	<u>Subclass</u>	<u>Group(s)</u>
	H01L	31/00
	H01L	35/00
	H01L	37/00
	H01L	43/00
	H01P	1/18, 1/20

No other subclasses/groups are impacted by this Notice of Changes.

This Notice of Changes includes the following [Check the ones included]:

1. CLASSIFICATION SCHEME CHANGES

- A. New, Modified or Deleted Group(s)
- B. New, Modified or Deleted Warning(s)
- C. New, Modified or Deleted Note(s)
- D. New, Modified or Deleted Guidance Heading(s)

2. DEFINITIONS

- A. New or Modified Definitions (Full definition template)
- B. Modified or Deleted Definitions (Definitions Quick Fix)

3. REVISION CONCORDANCE LIST (RCL)

4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)

5. CHANGES TO THE CROSS-REFERENCE LIST (CRL)

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

**SUBCLASS G01B - MEASURING LENGTH, THICKNESS OR SIMILAR LINEAR DIMENSIONS;
MEASURING ANGLES; MEASURING AREAS; MEASURING IRREGULARITIES OF
SURFACES OR CONTOURS**

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0, 1,</u> <u>2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed</u> <u>in {curly brackets}**</u>	<u>Transferred to#</u>
M	G01B	SUBCLASS	MEASURING LENGTH, THICKNESS OR SIMILAR LINEAR DIMENSIONS; MEASURING ANGLES; MEASURING AREAS; MEASURING IRREGULARITIES OF SURFACES OR CONTOURS	
M	G01B 3/22	1	Feeler-pin gauges, e.g. dial gauges (for measuring contours or curvatures G01B 5/20)	
M	G01B 5/24	1	for measuring angles or tapers; for testing the alignment of axes	
M	G01B 7/16	1	for measuring the deformation in a solid, e.g. by resistance strain gauge	
M	G01B 9/04	1	Measuring microscopes	
M	G01B 9/06	1	Measuring telescopes	
M	G01B 11/06	2	for measuring thickness {e.g. of sheet material (thickness measurement by thermal means G01B 21/085)}	
M	G01B 11/14	1	for measuring distance or clearance between spaced objects or spaced apertures (G01B 11/26 takes precedence; rangefinders G01C3/00)	
M	G01B 11/25	2	by projecting a pattern, e.g. {one or more lines,} moiré fringes on the object (G01B 11/255 takes precedence ; image analysis for depth or shape recovery G06T 7/50)}	
M	G01B 13/06	2	for measuring thickness	

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

G01S - RADIO DIRECTION-FINDING; RADIO NAVIGATION; DETERMINING DISTANCE OR VELOCITY BY USE OF RADIO WAVES; LOCATING OR PRESENCE DETECTING BY USE OF THE REFLECTION OR RERADIATION OF RADIO WAVES; ANALOGOUS ARRANGEMENTS USING OTHER WAVES

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g.</u> <u>0, 1, 2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed in</u> <u>{curly brackets}**</u>	<u>Transferred</u> <u>to#</u>
M	G01S3/00	0	Direction-finders for determining the direction from which infrasonic, sonic, ultrasonic, or electromagnetic waves, or particle emission, not having a directional significance, are being received (position-fixing by co-ordinating a plurality of determinations of direction or position lines G01S 5/00)	
M	G01S3/68	5	wherein the timing of the pulse-type envelope signal is indicated by cathode-ray tube	
M	G01S 3/786	4	the desired condition being maintained automatically	
M	G01S 3/787	3	using rotating reticles producing a direction-dependent modulation characteristic	
M	G01S3/802	2	Systems for determining direction or deviation from predetermined direction	
M	G01S5/12	2	by co-ordinating position lines of different shape, e.g. hyperbolic, circular, elliptical or radial	
M	G01S5/28	2	by co-ordinating position lines of different shape, e.g. hyperbolic, circular, elliptical or radial	
M	G01S 7/36	2	Means for anti-jamming {, e.g. ECCM, i.e. electronic counter-counter measures }	
M	G01S 7/38	2	Jamming means, e.g. producing false echoes	
M	G01S 7/521	2	Constructional features	
M	G01S 7/537	2	Counter-measures or counter-counter-measures, e.g. jamming, anti-jamming	
M	G01S 7/62	3	Cathode-ray tube displays	
M	G01S 11/00	0	Systems for determining distance or velocity not using reflection or reradiation (position-fixing by co-ordinating two or more distance determinations G01S 5/00)	
M	G01S11/08	2	using synchronised clocks	
M	G01S13/524	5	based upon the phase or frequency shift resulting from movement of objects, with reference to the transmitted signals, e.g. coherent MTi	
M	G01S 17/08	3	for measuring distance only (indirect measurement G01S 17/46; active triangulation systems G01S 17/48)	
M	G01S17/48	4	Active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves	

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

G01T - MEASUREMENT OF NUCLEAR OR X-RADIATION

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of</u> <u>dots (e.g. 0, 1,</u> <u>2)</u>	<u>Title</u> <u>“CPC only” text should normally be enclosed</u> <u>in {curly brackets}**</u>	<u>Transferred</u> <u>to#</u>
M	G01T	SUBCLASS	MEASUREMENT OF NUCLEAR OR X-RADIATION (radiation analysis of materials, mass spectrometry G01N 23/00; tubes for determining the presence, intensity, density or energy of radiation or particles H01J 47/00)	
M	G01T1/02	1	Dosimeters (G01T1/15 takes precedence)	
M	G01T1/08	2	Photographic dosimeters {(photometry G01J1/52)}	
M	G01T1/15	1	Instruments in which pulses generated by a radiation detector are integrated, e.g. by a diode pump circuit	
M	G01T1/164	3	Scintigraphy	
M	G01T1/169	2	Exploration, location of contaminated surface areas	
M	G01T1/175	3	Power supply circuits	
M	G01T1/185	2	with ionisation chamber arrangements	
M	G01T1/24	2	with semiconductor detectors	
M	G01T1/28	2	with secondary-emission detectors	
M	G01T1/29	1	Measurement performed on radiation beams, e.g. position or section of the beam; Measurement of spatial distribution of radiation	
M	G01T1/40	2	Stabilisation of spectrometers	
M	G01T3/00	0	Measuring neutron radiation (G01T 5/00 takes precedence)	
M	G01T3/08	1	with semiconductor detectors	
M	G01T 7/08	1	Means for conveying samples received	

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

G01V - GEOPHYSICS; GRAVITATIONAL MEASUREMENTS; DETECTING MASSES OR OBJECTS

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	G01V	SUBCLASS	GEOPHYSICS; GRAVITATIONAL MEASUREMENTS; DETECTING MASSES OR OBJECTS; TAGS (means for indicating the location of accidentally buried, e.g. snow-buried persons A 63B 29/02)	
M	G01V1/02	1	Generating seismic energy {(G01V 1/003 takes precedence)}	
M	G01V1/157	2	using spark discharges; using exploding wires	
M	G01V1/16	1	Receiving elements for seismic signals ; Arrangements or adaptations of receiving elements	
M	G01V1/22	1	Transmitting seismic signals to recording or processing apparatus	
M	G01V1/24	1	Recording seismic data	
M	G01V3/00	0	Electric or magnetic prospecting or detecting; Measuring magnetic field characteristics of the earth, e.g. declination, deviation	
M	G01V3/08	1	operating with magnetic or electric fields produced or modified by objects or geological structures or by detecting devices (with electromagnetic waves G01V 3/12)	
M	G01V3/38	1	Processing data, e.g. for analysis, for interpretation, for correction	
M	G01V5/00	0	Prospecting or detecting by the use of nuclear radiation, e.g. of natural or induced radioactivity	
M	G01V7/08	1	using balances	
M	G01V8/00	0	Prospecting or detecting by optical means	
M	G01V8/10	1	Detecting, e.g. by using light barriers (by reflection from the object G01S 17/00)	
M	G01V13/00	0	Manufacturing, calibrating, cleaning, or repairing instruments or devices covered by groups G01V1/00 – G01V11/00	
M	G01V15/00	0	Tags attached to, or as associated with, an object, in order to enable detection of the object (record carriers for use with machines having a detectable tag or marker G06K 19/00)	

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

SUBCLASS G11B - INFORMATION STORAGE BASED ON RELATIVE MOVEMENT BETWEEN RECORD CARRIER AND TRANSDUCER

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> “CPC only” text should normally be enclosed in {curly brackets}**	<u>Transferred to#</u>
M	G11B	SUBCLASS	INFORMATION STORAGE BASED ON RELATIVE MOVEMENT BETWEEN RECORD CARRIER AND TRANSDUCER (recording measured values in a way that does not require playback through a transducer G01D9/00; recording or playback apparatus using mechanically marked tape, e.g. punched paper tape, or using unit records, e.g. punched or magnetically marked cards G06K; transferring data from one type of record carrier to another G06K 1/18; circuits for coupling output of reproducer to radio receiver H04B 1/20; gramophone pick-ups or like acoustic electromechanical transducers or circuits therefor H04R)	
M	G11B3/00	0	Recording by mechanical cutting, deforming or pressing, e.g. of grooves or pits; Reproducing by mechanical sensing; Record carriers therefor (G11B 11/00, {G11B 13/00} take precedence)	
M	G11B3/02	1	Arrangements of heads	
M	G11B3/54	2	Storing; Manipulating, e.g. feeding styli to and from heads	
M	G11B3/58	1	Cleaning record carriers or styli, e.g. removing shavings or dust {or electrostatic charges}	
M	G11B3/60	1	Tumtables for record carriers	
M	G11B3/70	2	characterised by the selection of material or structure; Processes or apparatus specially adapted for manufacturing record carriers	
M	G11B5/02	1	Recording, reproducing, or erasing methods; Read, write or erase circuits therefor	
M	G11B5/245	3	comprising means for controlling the reluctance of the magnetic circuit {in a head with single gap, for co-operation with one track} (G11B 5/255 takes precedence)	
M	G11B5/455	1	Arrangements for functional testing of heads; Measuring arrangements for heads	
M	G11B5/465	1	Arrangements for demagnetisation of heads	
M	G11B5/54	2	with provision for moving the head into or out of its operative position or across tracks	
M	G11B5/56	2	with provision for moving the head {support} for the purpose of adjusting the position of the head relative to the record carrier, e.g. manual adjustment for azimuth correction or track centering ({G11B 5/52,} G11B 5/54, G11B 5/58 take precedence)	

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

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M	G11B5/627	2	of leaders for magnetic tapes, e.g. non-magnetic strips on the tapes or for connection	
M	G11B5/84	1	Processes or apparatus specially adapted for manufacturing record carriers	
M	G11B7/00	0	Recording or reproducing by optical means, e.g. recording using a thermal beam of optical radiation {by modifying optical properties or the physical structure}, reproducing using an optical beam at lower power {by sensing optical properties}; Record carriers therefor (G11B 11/00, G11B 13/00 take precedence)	
M	G11B 7/085	2	with provision for moving the light beam into, or out of, its operative position {or across tracks, otherwise than during the transducing operation, e.g. for adjustment or preliminary positioning or track change or selection }	
M	G11B7/1245	4	the waveguides including means for electro-optical or acousto-optical deflection	
M	G11B7/125	2	Optical beam sources therefor, e.g. laser control circuitry specially adapted for optical storage devices; Modulators, e.g. means for controlling the size or intensity of optical spots or optical traces	
M	G11B7/13	2	Optical detectors therefor	
M	G11B7/26	2	Apparatus or processes specially adapted for the manufacture of record carriers	
M	G11B15/18	1	Driving; Starting; Stopping; Arrangements for control or regulation thereof {(G11B 15/56 takes precedence)}	
M	G11B15/22	2	Stopping means ({G11B 15/06 takes precedence; } slowing-down preparatory to stopping or speed-changing G11B 15/48; speed-controlling by mechanical linkage G11B 15/50 {; inside container G11B 23/04})	
M	G11B15/43	2	Control or regulation of mechanical tension of record carrier, e.g. tape tension	
M	G11B15/54	3	by stroboscope; by tachometer	
M	G11B19/00	0	Driving, starting, stopping record carriers not specifically of filamentary or web form, or of supports therefor; Control thereof; Control of operating function {; Driving both disc and head }	
M	G11B19/22	2	Brakes other than speed-regulating brakes	
M	G11B19/28	2	Speed controlling, regulating, or indicating (G11B 19/24 takes precedence)	
M	G11B20/06	2	Angle-modulation recording or reproducing	
M	G11B20/08	2	Pulse-modulation recording or reproducing (pulse-code-modulation recording G11B 20/10)	
M	G11B20/10	1	Digital recording or reproducing	

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

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M	G11B23/02	1	Containers; Storing means { both adapted to cooperate with the recording or reproducing means }	
M	G11B23/30	1	with provision for auxiliary signals	
M	G11B23/50	1	Reconditioning of record carriers; Cleaning of record carriers {; Carrying-off electrostatic charges}(G11B 3/58 takes precedence)	
M	G11B25/00	0	Apparatus characterised by the shape of record carrier employed but not specific to the method of recording or reproducing {, e.g. dictating apparatus; Combinations of such apparatus }	
M	G11B27/02	1	Editing, e.g. varying the order of information signals recorded on, or reproduced from, record carriers	
M	G11B27/24	3	by sensing features on the record carrier other than the transducing track {; sensing signals or marks recorded by another method than the main recording }	
M	G11B33/00	0	Constructional parts, details or accessories not provided for in the other groups of this subclass	
M	G11B33/02	1	Cabinets; Cases; Stands; Dis position of apparatus therein or thereon	

SUBCLASS H01L - SEMICONDUCTOR DEVICES; ELECTRIC SOLID STATE DEVICES NOT OTHERWISE PROVIDED FOR

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

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M	H01L21/00	0	Processes or apparatus adapted for the manufacture or treatment of semiconductor or solid state devices or of parts thereof	
M	H01L21/265	6	producing ion implantation	
M	H01L21/31	5	to form insulating layers thereon, e.g. for masking or by using photolithographic techniques (encapsulating layers H01L 21/56); After treatment of these layers; Selection of materials for these layers	
M	H01L21/425	6	producing ion implantation	
M	H01L21/469	6	to form insulating layers thereon, e.g. for masking or by using photolithographic techniques (encapsulating layers H01L 21/56); After-treatment of these layers	
M	H01L21/48	3	Manufacture or treatment of parts, e.g. containers, prior to assembly of the devices, using processes not provided for in a single one of the subgroups H01L 21/06 - H01L 21/326	
M	H01L21/68	2	for positioning, orientation or alignment	
M	H01L23/32	1	Holders for supporting the complete device in operation, i.e. detachable fixtures (H01L 23/40 takes precedence)	
M	H01L23/42	2	Fillings or auxiliary members in containers { or encapsulations } selected or arranged to facilitate heating or cooling	
M	H01L23/48	1	Arrangements for conducting electric current to or from the solid state body in operation, e.g. leads, terminal arrangements { Selection of materials therefor }	
M	H01L23/60	2	Protection against electrostatic charges or discharges, e.g. Faraday shields	
M	H01L31/00	0	Semiconductor devices sensitive to infra-red radiation, light, electromagnetic radiation of shorter wavelength or corpuscular radiation and specially adapted either for the conversion of the energy of such radiation into electrical energy or for the control of electrical energy by such radiation; Processes or apparatus specially adapted for the manufacture or treatment thereof or of parts thereof; Details thereof (H01L 51/42 takes precedence; devices consisting of a plurality of solid state components formed in, or on, a common substrate, other than combinations of radiation-sensitive components with one or more electric light sources, H01L 27/00)	
M	H01L31/18	1	Processes or apparatus specially adapted for the manufacture or treatment of these devices or of parts thereof	

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

M	H01L35/00	0	Thermoelectric devices comprising a junction of dissimilar materials, i.e. exhibiting Seebeck or Peltier effect with or without other thermoelectric effects or thermomagnetic effects; Processes or apparatus peculiar to the manufacture or treatment thereof or of parts thereof; Details thereof (devices consisting of a plurality of solid state components formed in or on a common substrate H01L 27/00)	
M	H01L35/34	1	Processes or apparatus specially adapted for peculiar to the manufacture or treatment of these devices or of parts thereof	
M	H01L37/00	0	Thermoelectric devices without a junction of dissimilar materials; Thermomagnetic devices, e.g. using Nernst-Ettinghausen effect; Processes or apparatus peculiar to the manufacture or treatment thereof or of parts thereof (devices consisting of a plurality of solid state components formed in or on a common substrate H01L 27/00)	
M	H01L43/00	0	Devices using galvano-magnetic or similar magnetic effects; Processes or apparatus specially adapted for the manufacture or treatment thereof or of parts thereof (devices consisting of a plurality of solid state components formed in or on a common substrate H01L 27/00)	
M	H01L43/12	1	Processes or apparatus specially adapted for the manufacture or treatment of these devices or of parts thereof	

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

SUBCLASS H01P – WAVEGUIDES; RESONATORS, LINES, OR OTHER DEVICES OF THE WAVEGUIDE TYPE

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title “CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	H01P	SUBCLASS	WAVEGUIDES; RESONATORS, LINES, OR OTHER DEVICES OF THE WAVEGUIDE TYPE (operating at optical frequencies G02B)	
M	H01P1/04	1	Fixed joints	
M	H01P1/08	1	Dielectric windows	
M	H01P1/16	1	for mode selection, e.g. mode suppression or mode promotion; for mode conversion	
M	H01P1/18	1	Phase-shifters (H01P 1/165 takes precedence)	
M	H01P1/20	1	Frequency-selective devices, e.g. filters	
M	H01P1/28	2	Short-circuiting plungers	
M	H01P3/06	2	Coaxial lines	
M	H01P5/00	0	Coupling devices of the waveguide type	
M	H01P7/00	0	Resonators of the waveguide type	
M	H01P9/00	0	Delay lines of the waveguide type	
M	H01P11/00	0	Apparatus or processes specially adapted for manufacturing waveguides or resonators, lines, or other devices of the waveguide type	

*N = new entries where reclassification into entries is involved; C = entries with modified file scope where reclassification of documents from the entries is involved; Q = new entries which are firstly populated with documents via administrative transfers from deleted (D) entries. Afterwards, the transferred documents into the Q entry will either stay or be moved to more appropriate entries, as determined by intellectual reclassification; E= existing entries with enlarged file scope, which receive documents from C or D entries, e.g. when a limiting reference is removed from the entry title; M = entries with no change to the file scope (no reclassification); D = deleted entries; F = frozen entries will be deleted once reclassification of documents from the entries is completed; U = entries that are unchanged.

NOTES:

- **No {curly brackets} are used for titles in CPC only subclasses, e.g. C12Y, A23Y; 2000 series symbol titles of groups found at the end of schemes (orthogonal codes); or the Y section titles. The {curly brackets} are used for 2000 series symbol titles found interspersed throughout the main trunk schemes (breakdown codes).
- U groups: it is obligatory to display the required “anchor” symbol (U group), i.e. the entry immediately preceding a new group or an array of new groups to be created (in case new groups are not clearly subgroups of C-type groups). Always include the symbol, indent level and title of the U group in the table above.
- All entry types should be included in the scheme changes table above for better understanding of the overall scheme change picture. Symbol, indent level, and title are required for all types.
- “Transferred to” column must be completed for all C, D, F, and Q type entries. F groups will be deleted once reclassification is completed.
- When multiple symbols are included in the “Transferred to” column, avoid using ranges of symbols in order to be as precise as possible.
- For administrative transfer of documents, the following text should be used: “<administrative transfer to XX>”, “<administrative transfer to XX and YY simultaneously>”, or “<administrative transfer to XX, YY, ...and ZZ simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be the source allocation type, unless otherwise indicated.
- Administrative transfer to 2000/Y series groups is assumed to be “additional information”.
- If needed, instructions for allocation type should be indicated within the angle brackets using the abbreviations “ADD” or “INV”: <administrative transfer to XX ADD>, <administrative transfer to XX INV>, or <administrative transfer to XX ADD, YY INV, ... and ZZ ADD simultaneously>.
- In certain situations, the “D” entries of 2000-series or Y-series groups may not require a destination (“Transferred to”) symbol, however it is required to specify “<no transfer>” in the “Transferred to” column for such cases.

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

- For finalisation projects, the deleted “F” symbols should have <no transfer> in the “Transferred to” column.
- For more details about the types of scheme change, see CPC Guide.

C. New, Modified or Deleted Note(s)

SUBCLASS G01V – GEOPHYSICS; GRAVITATIONAL MEASUREMENTS; DETECTING MASSES OR OBJECTS; TAGS (means for indicating the location of accidentally buried, e.g. snow-buried, persons A63B 29/02)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
N	G01V	1. In this subclass, the geophysical methods apply both to the earth and to other celestial objects, e.g. planets.	<p>Insert the following two Notes before current Note (1):</p> <p>1. This subclass covers radar, sonar, lidar or analogous systems specifically designed for geophysical use. Radar, sonar, lidar or analogous systems, or details of such systems, if of a general interest, are also classified in subclass G01S.</p> <p>2. In this subclass, the following term is used with the meaning indicated:</p> <ul style="list-style-type: none"> • "tags" means arrangements cooperating with a detecting field, e.g. near field, and designed to produce a specific detectable effect; "tags" also means active markers capable of generating a detectable field.

*N = new note, M = modified note, D = deleted note

NOTE: The “Location” column only requires the symbol PRIOR to the location of the note. No further directions such as “before” or “after” are required.

DATE: JANUARY 1, 2021

PROJECT MP0451

2. A. DEFINITIONS (new)

Insert: the following new Definitions.

G11B3/58

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Carrying-off electrostatic charges in general	H05F3/00
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G11B5/245

References

Informative references

Attention is drawn to the following places, which may be of interest for search:

Structure or manufacture of heads, e.g. inductive	G11B 5/127
Structure or manufacture of a head with more than one gap for erasing, recording or reproducing on the same track	G11B 5/265
Structure or manufacture of unitary devices formed of plural heads for more than one track	G11B 5/29
Fixed mounting	G11B 5/49

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

2. B. DEFINITIONS QUICK FIX

<u>Symbol</u>	<u>Location of change</u> (e.g., section title)	<u>Existing reference symbol or text</u>	<u>Action; New symbol; New text</u>
G01B	Limiting references	<p>Machine tools B23Q</p> <p>Robotics B25J</p> <p>Micromechanical devices (MEMS) B81B, B81C</p> <p>Nanotechnology B82B, B82Y</p> <p>Measuring in boreholes or wells E21B47/00</p> <p>Range finders, inclinometers, photogrammetry, surveying, gyroscopes G01C3/00, G01C9/00, G01C11/00, G01C13/00, G01C15/00, G01C19/00</p> <p>Linear and rotary encoders G01D5/00</p> <p>Measuring volume flow or level of fluids or fluent solid material G01F</p> <p>Spectroscopy G01J</p> <p>Measuring force, stress, torque, pressure G01L</p>	Delete the entire Limiting references section.

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		<p>Speed, acceleration G01P</p> <p>Scanning probe microscopy G01Q</p> <p>Measuring electric or magnetic variables or control G01R</p> <p>Radio direction-finding, determining distance or velocity and locating or detecting by use of radio waves G01S</p> <p>Geophysics, detecting, prospecting G01V</p> <p>Optical microscopes G02B21/00</p> <p>Lithography (incl. interferometric stage position measurement) G03F7/00</p> <p>Holography G03H</p> <p>Joysticks G05G9/00</p> <p>Computer input devices (such as mice, touch pads) G06F3/00</p> <p>Image analysis G06T7/00</p> <p>Electron/ion microscopes</p>	
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CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		H01J37/00 Interferometer aspects not relating to distance or displacement measurements (e.g signal modulation H04B10/00, H04L27/00, G02F1/00	
G01B	Informative references	Human body, dentistry A61B, A61C Ball games A63B Gears B23F Writing, drawing B43K, B43L Vehicles B60, B61 Yarns D01H Paper webs, currency D21F, G07D7/00 Building E04D, E04F, E04G Turbines F01D Bearings F16C Pigs, moles F16L55/00 Testing G01M Investigating/analysing G01N Optical coherence tomography (OCT) G01N21/00, A61B3/00, A61B5/00 Trackers G01S Optical elements G02B Scales (e.g. Vernier) G02B27/00, G06G1/00, G01D5/00, G01D13/00 Spectacle frames G02C13/00 Cameras G03B, H04N Numerical control G05B19/00 Commerce G06Q	<u>Insert</u> the following 23 new references in the Informative references table. Machine tools B23Q Robotics B25J Micromechanical devices (MEMS) B81B , B81C Nanotechnology B82B , B82Y Measuring in boreholes or wells E21B 47/00 Range finders, inclinometers, photogrammetry, surveying, gyroscopes G01C 3/00 , G01C 9/00 , G01C 11/00 , G01C 13/00 , G01C 15/00 , G01C 19/00 Linear and rotary encoders G01D 5/00 Measuring volume flow or level of fluids or fluent solid material G01F Spectroscopy G01J

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		<p>Wafers and semiconductors H01L21/00, H01L31/00</p>	<p>Measuring force, stress, torque, pressure G01L</p> <p>Speed, acceleration G01P</p> <p>Scanning probe microscopy G01Q</p> <p>Measuring electric or magnetic variables G01R</p> <p>Radio direction-finding, determining distance or velocity and locating or detecting by use of radio waves G01S</p> <p>Geophysics, detecting, prospecting G01V</p> <p>Optical microscopes G02B 21/00</p> <p>Lithography (incl. interferometric stage position measurement) G03F 7/00</p> <p>Holography G03H</p> <p>Joysticks G05G 9/00</p> <p>Computer input devices (such as mice, touch pads) G06F 3/00</p> <p>Image analysis G06T 7/00</p> <p>Electron/ion microscopes H01J 37/00</p>
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CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

			<p>Interferometer aspects not relating to distance or displacement measurements (e.g. signal modulation)</p> <p>H04B 10/00, H04L 27/00, G02F 1/00</p>
G01S 3/00	Limiting references	<p>Systems for regulating electric or magnetic variables G05F</p> <p>Acoustic beam-steering G10K11/34</p> <p>Aerials H01Q</p> <p>Closed circuit television systems H04N7/18</p>	<p><u>Replace</u> the existing references in the Limiting references table with the following reference.</p> <p>Position-fixing by co-ordinating a plurality of determinations of direction or position lines G01S 5/00</p>
G01S 3/00			<p><u>Insert</u> a new Informative references section with the following four references.</p> <p>References <i>Informative references</i> <i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Systems for regulating electric or magnetic variables G05F</p> <p>Acoustic beam-steering G10K 11/34</p> <p>Aerials H01Q</p> <p>Closed circuit television systems H04N 7/18</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

G01S 5/12	Limiting references	Combinations of radio with acoustic of optical signals G01S5/0257	<u>Delete</u> the entire Limiting references section.
G01S 5/12			<u>Insert</u> a new Informative references section with the following reference. References <i>Informative references</i> <i>Attention is drawn to the following places, which may be of interest for search:</i> Combinations of radio with acoustic of optical signals G01S 5/0257
G01S 7/36	Limiting references	Detection of jamming signals G01S7/021 Means providing a modification of the radiation pattern for cancelling noise, clutter or interfering signals, e.g. side lobe suppression, side lobe blanking, null-steering arrays G01S 7/2813 Random interference pulse cancellers G01S 7/2928	<u>Delete</u> the entire Limiting references section.
G01S 7/36	Informative references		<u>Insert</u> a new Informative references section with the following three references. References <i>Informative references</i> <i>Attention is drawn to the following places, which may be of interest for search:</i> Detection of jamming signals G01S 7/021

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

			<p>Means providing a modification of the radiation pattern for cancelling noise, clutter or interfering signals, e.g. side lobe suppression, side lobe blanking, null-steering arrays G01S 7/2813</p> <p>Random interference pulse cancellers G01S 7/2928</p>
G01S 7/38	Limiting references	Identification of radar signals G01S 7/021	<u>Delete</u> the entire Limiting references section.
G01S 7/38	Informative references	Reflecting surfaces comprising a plurality of reflecting particles, e.g. chaff H01Q 15/145	<u>Insert</u> the following reference in the Informative references table. Identification of radar signals G01S 7/021
G01S 7/521	Limiting references	Transducers, singly, in pairs or in arrays, where there is no further non-trivial disclosure of sonar operation B06B	<u>Delete</u> the entire Limiting references section.
G01S 7/521			<p><u>Insert</u> a new Informative references section with the following reference.</p> <p>References <i>Informative references</i> <i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Transducers, singly, in pairs or in arrays, where there is no further non-trivial disclosure of sonar operation B06B</p>
G01S 7/537	Limiting references	Detection of jamming signals G01S7/52001	<u>Delete</u> the entire Limiting references section.

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

<p>G01S 7/537</p>			<p><u>Insert</u> a new Informative references section with the following reference.</p> <p>References <i>Informative references</i> <i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Detection of jamming signals G01S 7/52001</p>
<p>G01S 11/00</p>			<p><u>Insert</u> a new Limiting references section with the following reference.</p> <p>References <i>Limiting references</i> <i>This place does not cover:</i></p> <p>Position fixing G01S 5/00</p>
<p>G01S 11/00</p>	<p>Informative references</p>	<p>Direction Finders G01S 3/00 Position fixing G01S 5/00</p>	<p><u>Delete</u> the following reference from the Informative references table.</p> <p>Position fixing G01S 5/00</p>
<p>G01S 13/524</p>	<p>Limiting references</p>	<p>Coherent receivers G01S7/288</p>	<p><u>Delete</u> the entire Limiting references section.</p>
<p>G01S 13/524</p>			<p><u>Insert</u> a new Informative references section with the following reference.</p> <p>References <i>Informative references</i> <i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Coherent receivers G01S 7/288</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

G01T	Limiting references	<p>Radiation analysis of materials, mass spectrometry G01N</p> <p>Secondary-electron-emitting electrodes in general H01J 1/32</p> <p>Electric discharge tubes for analysing radiation or particles H01J 40/00, H01J 47/00, H01J 49/00</p> <p>Construction of ionisation chambers H01J 47/02</p> <p>Spark chambers H01J 47/14 Semiconductor detectors per se H01L 31/00</p>	<p><u>Replace</u> the existing references in the Limiting references table with the following two references.</p> <p>Radiation analysis of materials, mass spectrometry G01N 23/00</p> <p>Tubes for determining the presence, intensity, density or energy of radiation or particles H01J 47/00</p>
G01T	Informative references	<p>Computerised tomographs A61B6/03</p> <p>Applying radioactive material to the body A61M36/00</p> <p>Radiation pyrometry using electric radiation detectors which use the ionisation of gases G01J5/36</p> <p>Investigating or analysing materials by the use of nuclear magnetic resonance, electron paramagnetic resonance or other spin effects G01N24/00</p> <p>Pulse rate meters in general G01R23/02</p> <p>Nuclear magnetic computer tomography G01R33/20, G01N24/00, A61B5/055</p> <p>Nuclear magnetic resonance. G01R33/20, G01N24/00, A61B5/055</p> <p>Photosensitive materials or processes for photographic purposes G03C</p>	<p><u>Delete</u> the following reference from the Informative references table.</p> <p>Applying radioactive material to the body A61M36/00</p> <p><u>Insert</u> the following six references in the Informative references table.</p> <p>Radiation analysis of materials, mass spectrometry G01N</p> <p>Secondary-electron-emitting electrodes in general H01J 1/32</p> <p>Electric discharge tubes for analysing radiation or particles H01J 40/00, H01J 47/00, H01J 49/00</p> <p>Construction of ionisation chambers H01J 47/02</p> <p>Spark chambers H01J 47/14</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		Counters per se G06M, H03K Radio isotopes G21G4/00 Tracers G21H5/00 Measuring exposure time to X-rays H05G1/28	Semiconductor detectors per se H01L 31/00
G01T	Relationships with other classification places	Nuclear magnetic resonance is classified in G01R 33/20, G01N 24/08 G01R24/00 or A61B 5/055.	<u>Delete</u> the following reference from the Relationships with other classification places section. G01R24/00
G01T 3/00			<u>Insert</u> a new Limiting references section with the following reference. References <i>Limiting references</i> <i>This place does not cover:</i> Recording of movements or tracks of particles G01T 5/00
G01V	Limiting references	Detecting or locating foreign bodies for diagnostic, surgical or person-identification purposes A61B Means for indicating the location of accidentally buried, e.g. snow-buried, person A63B29/02 Burglar, theft, or intruder alarms G08B13/00	<u>Delete</u> the following two references from the Limiting references table. Detecting or locating foreign bodies for diagnostic, surgical or person-identification purposes A61B Burglar, theft, or intruder alarms G08B13/00
G01V	Informative references	Survey of boreholes or wells E21B 47/00 Investigating or analysing earth materials by determining their chemical or physical properties	<u>Insert</u> the following two references in the Informative references table. Detecting or locating foreign bodies for diagnostic, surgical or person-identification purposes A61B

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		<p>G01N Measuring electric or magnetic variables in general, other than direction or magnitude of the earth's field</p> <p>G01R Radar, sonar, lidar or analogous systems, or details of such systems in general</p> <p>G01S</p>	<p>Burglar, theft, or intruder alarms G08B 13/00</p>
G01V 1/02	Limiting references	<p>Generating special signals G01V1/005</p> <p>Generating single signals by using more than one generator, other than explosive charge G01V1/006</p> <p>Details exclusively relevant in a marine environment G01V1/38</p> <p>Control of marine source arrays G01V1/3861</p>	<p><u>Replace</u> the existing references in the Limiting references table with the following reference.</p> <p>Seismic data acquisition in general, e.g. survey design G01V 1/003</p>
G01V 1/02	Informative references	<p>Generating mechanical vibrations by using piezoelectric or magnetostrictive effect, in general B06B 1/06, B06B 1/08</p> <p>Blasting in general F42D 3/06</p> <p>Nuclear explosives G21J</p> <p>Spark gaps, discharge apparatus, not otherwise provided for H01T</p>	<p><u>Insert</u> the following four references in the Informative references table.</p> <p>Generating special signals G01V 1/005</p> <p>Generating single signals by using more than one generator, other than explosive charge G01V 1/006</p> <p>Details exclusively relevant in a marine environment G01V 1/38</p> <p>Control of marine source arrays G01V 1/3861</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

G01V 1/16	Limiting references	Integrated optoseismic systems G01V 1/226 Fibre-optical receiving elements G01H 9/004	<u>Delete</u> the entire Limiting references section.
G01V 1/16	Informative references	Accelerometers in general G01P Transducer mountings in general G10K 11/004 Electromechanical transducers H04R	<u>Insert</u> the following two references in the Informative references table. Integrated optoseismic systems G01V 1/226 Fibre-optical receiving elements G01H 9/004
G01V 1/16	Special rules of classification	Further details of streamers, not provided for in subgroups of in G01V 1/202 or G01V 1/208 , should be classified as additional information in G01V1/20B4 - G01V1/20B6.	<u>Delete</u> the last line of the Special rules of classification section. Further details of streamers, not provided for in subgroups of in G01V 1/202 or G01V 1/208, should be classified as additional information in G01V1/20B4 - G01V1/20B6.
G01V 3/00	Limiting references	Seismo-electric effect G01V11/007 Compasses, magnetic field measurements for navigation or surveying purposes G01C17/00 Investigating or analysing of materials by NMR G01N24/00 Investigating or analysing of materials by the use of electric, electro-chemical or magnetic means G01N27/00 Investigating or analysing of earth materials	<u>Delete</u> the entire Limiting references section.

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

<p>G01V 3/00</p>		<p>G01N33/24</p>	<p><u>Insert</u> a new Informative references section with the following five references.</p> <p>References <i>Informative references</i> <i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Seismo-electric effect G01V 11/00</p> <p>Compasses, magnetic field measurements for navigation or surveying purposes G01C 17/00</p> <p>Investigating or analysing of materials by NMR G01N 24/00</p> <p>Investigating or analysing of materials by the use of electric, electro-chemical or magnetic means G01N 27/00</p> <p>Investigating or analysing of earth materials G01N 33/24</p>
<p>G01V 5/00</p>	<p>Limiting references</p>	<p>Survey of borehole or wells E21B47/00</p> <p>Investigating or analysing materials G01N23/00</p> <p>Measurement of nuclear or X-radiation G01T</p>	<p><u>Delete</u> the entire Limiting references section.</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

<p>G01V 5/00</p>	<p>Informative references</p>	<p>Radar or analogous systems specially adapted for specific applications (e.g. Terahertz scanners) G01S13/88 Scintillation detectors G01T1/20 Semiconductor detectors G01T1/24 Measuring neutron radiation G01T3/00 Detector interrogation using an external network G01T7/00</p>	<p><u>Insert</u> the following three references in the Informative references table.</p> <p>Survey of borehole or wells E21B 47/00</p> <p>Investigating or analysing materials G01N 23/00</p> <p>Measurement of nuclear or X-radiation G01T</p>
<p>G01V 8/00</p>	<p>Limiting references</p>	<p>Photogrammetry; Photographic surveying G01C11/00</p> <p>Measurement of the characteristics of light G01J</p> <p>Investigating or analysing materials by optical means G01N21/00</p> <p>Optical components or systems G02B</p> <p>Counting of objects, carried by a conveyor G06M7/00</p> <p>Detecting movement of traffic G08G1/01</p> <p>Semiconductor devices sensitive to light H01L31/00</p>	<p><u>Delete</u> the entire Limiting references section.</p>
<p>G01V 8/00</p>	<p>Informative references</p>	<p>Safety devices in passenger lifts B66B13/24 Safety devices for doors and the like, operated by</p>	<p><u>Insert</u> the following seven references in the Informative references table.</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		<p>disruption of energy beams E05F15/43 Safety devices acting in conjunction with the control or operation of a machine F16P3/14 Burglar, theft or intruder alarms, activated by interference with heat, light or radiation G08B13/18 Switches using optical detectors H03K17/941</p>	<p>Photogrammetry; Photographic surveying G01C 11/00 Measurement of the characteristics of light G01J Investigating or analysing materials by optical means G01N 21/00 Optical components or systems G02B Counting of objects, carried by a conveyor G06M 7/00 Detecting movement of traffic G08G 1/01 Semiconductor devices sensitive to light H01L 31/00</p>
<p>G01V 15/00</p>	<p>Limiting references</p>	<p>Means for indicating the location of accidentally buried persons A63B29/00 Methods or arrangements for sensing record carriers G06K7/00 Record carriers for use with machines and with at least a part designed to carry digital markings (e.g. RFID) G06K19/00 Identification tags G07C9/00</p>	<p><u>Delete</u> the following five references from the Limiting references table. Means for indicating the location of accidentally buried persons A63B29/00 Methods or arrangements for sensing record carriers G06K7/00 Identification tags G07C9/00 Theft detection systems using tags G08B13/2402 Signs, labels G09F</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		<p>Theft detection systems using tags G08B13/2402</p> <p>Signs, labels G09F</p>	
G01V 15/00	Informative references	<p>Aerials, structurally associated with other equipment or articles H01Q1/22</p> <p>Installation of electric cables underground H02G9/00</p>	<p><u>Insert</u> the following five references in the Informative references table.</p> <p>Means for indicating the location of accidentally buried persons A63B 29/00</p> <p>Methods or arrangements for sensing record carriers G06K 7/00</p> <p>Identification tags G07C 9/00</p> <p>Theft detection systems using tags G08B 13/2402</p> <p>Signs, labels G09F</p>
G11B	Limiting references	<p>Recording measured values in a way that does not require playback through a transducer G01D9/00</p> <p>Details of scanning-probe apparatus G01Q10/00 - G01Q90/00</p> <p>Recording or playback apparatus using mechanically marked tape, e.g. punched paper tape, or using unit records, e.g. punched or magnetically marked cards G06K</p>	<p><u>Delete</u> the following four references from the Limiting references table.</p> <p>Details of scanning-probe apparatus G01Q10/00 - G01Q90/00</p> <p>Guiding cards or sheets G06K13/00</p> <p>Record carriers for use with machines and with at least a part designed to carry digital markings G06K19/00</p> <p>Static information storage in which no relative movement takes place between an information storage element and a transducer G11C</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		<p>Transferring data from one type of record carrier to another type of record carrier G06K1/18</p> <p>Guiding cards or sheets G06K13/00</p> <p>Record carriers for use with machines and with at least a part designed to carry digital markings G06K19/00</p> <p>Static information storage in which no relative movement takes place between an information storage element and a transducer G11C</p> <p>Circuits for coupling output of reproducer to radio receiver H04B1/20</p> <p>Loudspeakers, microphones, gramophone pick-ups or like acoustic electromechanical transducers or circuits therefor H04R</p>	
G11B	Informative references	<p>Working of plastics; working of substances in a plastic state in general B29</p> <p>Layered products in general B32B</p> <p>Thermography B41M5/26</p> <p>Containers, packaging elements or packages, specially adapted for particular articles or materials B65D85/00</p>	<p><u>Insert</u> the following four references in the Informative references table.</p> <p>Details of scanning-probe apparatus G01Q 10/00 - G01Q 90/00</p> <p>Guiding cards or sheets G06K 13/00</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		<p>Storing webs, tapes or filamentary material in general B65H75/00 Coating metallic material; coating material with metallic material; coating by vacuum evaporation, by sputtering, by ion implantation or by chemical vapour deposition, in general C23C Measuring electric or magnetic properties G01R Devices or arrangements for the control of the intensity, colour, phase, polarization or direction of light G02F Magneto-optical materials in general G02F1/0036 Photosensitive materials or processes for photographic purposes G03C Electrography; electrophotography; magnetography G03G Holographic processes or apparatus G03H Electric digital data processing G06F Printing of data from record carriers G06K3/00 Arrangements for producing a permanent visual presentation of the output data G06K15/00 Arrangements or circuits for control of indicating devices using static means to present variable information G09G Static stores G11C Selection of magnetic materials; thin magnetic films H01F Thin magnetic films H01F10/00</p>	<p>Record carriers for use with machines and with at least a part designed to carry digital markings G06K 19/00 Static stores G11C</p>
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CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		Semiconductor lasers H01S5/00 Coding, decoding or code conversion, in general H03M	
G11B 3/00	Limiting references	Recording by cutting or deforming using laser beam G11B7/00 Recording by cutting or deforming using electron beam G11B9/10 Recording on or reproducing from the same record carrier wherein for these two operations the methods are covered by different main groups of groups G11B3/00 - G11B7/00 or by different subgroups of group G11B9/00 G11B11/00 Recording simultaneously or selectively by methods covered by different main groups G11B13/00	<u>Delete</u> the following two references from the Limiting references table. Recording by cutting or deforming using laser beam G11B7/00 Recording by cutting or deforming using electron beam G11B9/10
G11B 3/00	Informative references	Mounting or connecting stylus to transducer with or without damping means H04R1/16	<u>Insert</u> the following two references in the Informative references table. Recording by cutting or deforming using laser beam G11B 7/00 Recording by cutting or deforming using electron beam G11B 9/10
G11B 5/02	Limiting references	Improvement or modification of read or write signals (magnetic read/write	<u>Delete</u> the entire Limiting references section.

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		channels, equalizers, Viterbi detectors etc.) G11B20/10009	
G11B 5/02	Informative references	Timing or synchronising arrangements G11B27/10	<u>Insert</u> the following reference in the Informative references table. Improvement or modification of read or write signals (magnetic read/write channels, equalizers, Viterbi detectors etc.) G11B 20/10009
G11B 5/455	Limiting references	Testing of disk drives G11B19/048 Monitoring, i.e. supervising the progress of recording or reproducing G11B27/36	<u>Delete</u> the entire Limiting references section.
G11B 5/455			<u>Insert</u> a new Informative references section with the following two references. References <i>Informative references</i> <i>Attention is drawn to the following places, which may be of interest for search:</i> Testing of disk drives G11B 19/048 Monitoring, i.e. supervising the progress of recording or reproducing G11B 27/36
G11B 5/465	Limiting references	Demagnetisation of record carriers, e.g. bulk erasing G11B5/0245 Demagnetisation in general H01F13/00	<u>Delete</u> the entire Limiting references section.

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

<p>G11B 5/465</p>	<p>Informative references</p>		<p><u>Insert</u> a new Informative references section with the following two references.</p> <p>References <i>Informative references</i> <i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Demagnetisation of record carriers, e.g. bulk erasing G11B 5/0245</p> <p>Demagnetisation in general H01F 13/00</p>
<p>G11B 7/00</p>	<p>Limiting references</p>	<p>Optical arrangements for thermally assisted magnetic recording G11B5/314</p> <p>Optical servo for magnetic recording G11B5/59677</p> <p>Aspects for data formats for standards such as CD, DVD, BD unless the technical problem underlying the invention arises because of the optical nature of the recording G11B7/00, G11B20/12</p> <p>Aspects of editing, addressing, timing etc for standards such as CD, DVD, BD unless the technical problem underlying the invention arises because of the optical nature of the recording G11B7/00, G11B27/00</p>	<p><u>Replace</u> the existing references in the Limiting references table with the following two references.</p> <p>Recording on or reproducing from the same record carrier G11B 11/00</p> <p>Recording simultaneously G11B 13/00</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		<p>Near field interactions that do not involve optical radiation G11B9/12</p> <p>Using microscopic probe means G11B9/14</p> <p>If recording and reproducing are covered by different main groups, G11B11/14</p> <p>Microscopic probe means G11B11/26</p> <p>Control of operating function, e.g. general control aspects of preventing overwriting of data G11B19/02, G11B19/04</p> <p>Starting, stopping record carriers, e.g. spindle control discrimination of media type G11B19/20, G11B19/12</p> <p>Defect management for optical media such as CD, DVD, BD G11B20/1889</p> <p>Aspects of record carriers not specific to method of recording or reproducing e.g. hub details are generally not specific to whether or not the recording is optical or magneto-optical G11B23/0028</p> <p>Computer systems involving digital I/O from or to direct</p>	
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DATE: JANUARY 1, 2021

PROJECT MP0451

		<p>access storage devices involving optical discs G06F3/0601</p>	
<p>G11B 7/00</p>			<p><u>Insert</u> a new Informative references section with the following 13 references.</p> <p>References <i>Informative references</i> <i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Optical arrangements for thermally assisted magnetic recording G11B 5/314</p> <p>Optical servo for magnetic recording G11B 5/59677</p> <p>Aspects for data formats for standards such as CD, DVD, BD unless the technical problem underlying the invention arises because of the optical nature of the recording G11B 20/12</p> <p>Aspects of editing, addressing, timing etc for standards such as CD, DVD, BD unless the technical problem underlying the invention arises because of the optical nature of the recording G11B 27/00</p> <p>Near field interactions that do not involve optical radiation G11B 9/12</p> <p>Using microscopic probe means G11B 9/14</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

			<p>If recording and reproducing are covered by different main groups, G11B 11/14</p> <p>Microscopic probe means G11B 11/26</p> <p>Control of operating function, e.g. general control aspects of preventing overwriting of data G11B 19/02, G11B 19/04</p> <p>Starting, stopping record carriers, e.g. spindle control discrimination of media type G11B 19/20, G11B 19/12</p> <p>Defect management for optical media such as CD, DVD, BD G11B 20/1889</p> <p>Aspects of record carriers not specific to method of recording or reproducing e.g. hub details are generally not specific to whether or not the recording is optical or magneto-optical G11B 23/0028</p> <p>Computer systems involving digital I/O from or to direct access storage devices involving optical discs G06F 3/0601</p>
G11B 7/00	Special rules of classification	G11B7/257B; Examples: • shutter layer (EP0580346)	<p><u>Delete</u> the third from last reference and example from the Special rules of classification section.</p> <p>G11B7/257B; Examples: • shutter layer (EP0580346)</p>
G11B 7/26	Limiting references	Recovery of plastics or other constituents of waste material containing	<u>Delete</u> the entire Limiting references section.

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		<p>plastics B29B 17/00 Joining of preformed parts; using adhesives B29C 65/48 Methods or apparatus for laminating (e.g. by curing) by pressing B32B 37/10</p>	
G11B 7/26	Informative references	<p>Reconditioning e.g. cleaning of disk carriers (including destroying CDs) G11B 23/505</p>	<p><u>Insert</u> the following three references in the Informative references table.</p> <p>Recovery of plastics or other constituents of waste material containing plastics B29B 17/00</p> <p>Joining of preformed parts; using adhesives B29C 65/48</p> <p>Methods or apparatus for laminating (e.g. by curing) by pressing B32B 37/10</p>
G11B 19/00	Limiting references	<p>Signal processing G11B20/00</p> <p>Editing, Indexing, Addressing G11B27/00</p>	<p><u>Delete</u> the entire Limiting references section.</p>
G11B 19/00			<p><u>Insert</u> a new Informative references section with the following two references.</p> <p>References <i>Informative references</i> <i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Signal processing G11B 20/00</p> <p>Editing, Indexing, Addressing G11B 27/00</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

<p>G11B 25/00</p>	<p>Limiting references</p>	<p>Recording/reproducing methods G11B5/00, G11B7/00, G11B9/00, G11B11/00, G11B20/00, G11B27/00</p> <p>The aspect of controlling the operating functions G11B15/02, G11B19/00</p> <p>The aspect of driving, starting, stopping the tape G11B15/18</p> <p>The aspect of guiding the tape within the apparatus G11B15/60</p> <p>The aspect of guiding the tape cartridges within the apparatus G11B15/675</p> <p>Library of tape cartridges G11B15/68</p> <p>Recording and reproducing apparatuses in combination with television sets G11B31/00</p> <p>Recording and reproducing apparatuses in combination with video cameras G11B31/006, H04N5/225</p> <p>Registering or indicating the working of vehicles G07C5/00</p> <p>Static data storage memories G11C, H01L27/108 - H01L27/115</p>	<p><u>Delete</u> the entire Limiting references section.</p>
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CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		<p>Telephones with dictation recording systems H04M1/10</p> <p>Telephone answering machines H04M1/64</p>	
G11B 25/00	Informative references	<p>Registering or indicating the working of vehicles G07C5/00</p> <p>Registering performance data other than driving of vehicles G07C5/0891</p> <p>Telephone answering machines H04M1/64</p> <p>Telephones with dictation recording systems H04M11/10</p> <p>Apparatuses for television signal recording H04N5/76</p>	<p><u>Insert</u> the following 12 references in the Informative references table.</p> <p>Recording/reproducing methods G11B 5/00, G11B 7/00, G11B 9/00, G11B 11/00, G11B 20/00, G11B 27/00</p> <p>Controlling the operating functions G11B 15/02, G11B 19/00</p> <p>Driving, starting, stopping the tape G11B 15/18</p> <p>Guiding the tape within the apparatus G11B 15/60</p> <p>Guiding the tape cartridges within the apparatus G11B 15/675</p> <p>Library of tape cartridges G11B 15/68</p> <p>Recording and reproducing apparatuses in combination with television sets G11B 31/00</p> <p>Recording and reproducing apparatuses in combination with video cameras G11B 31/006, H04N 5/225</p> <p>Registering or indicating the working of vehicles G07C 5/00</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

			<p>Static data storage memories G11C, H01L 27/108 - H01L 27/115</p> <p>Telephones with dictation recording systems H04M 1/10</p> <p>Telephone answering machines H04M 1/64</p>
G11B 33/00	Limiting references	<p>Magazines for naked disks or for cartridges, which are part of the recording/reproducing apparatuses. G11B15/68, G11B17/22, G11B17/30, G11B23/023, G11B23/03</p> <p>Hard disk drives G11B25/043</p> <p>Photocopy machines G03G</p>	<p><u>Delete</u> the entire Limiting references section.</p>
G11B 33/00	Informative references	<p>Liquid crystal displays LCD G02F1/13</p> <p>Constructional details of computers, personal computers, laptops G06F1/16, G06F1/18, G06F1/20</p> <p>Electrical connectors H01R</p> <p>Cabinets for electrical apparatuses H05K5/00 Heat transfer H05K7/20, F28D15/00, H04B1/036, G06F1/20, H01L23/34</p>	<p><u>Insert</u> the following three references in the Informative references table.</p> <p>Magazines for naked disks or for cartridges, which are part of the recording/reproducing apparatuses. G11B 15/68, G11B 17/22, G11B 17/30, G11B 23/023, G11B 23/03</p> <p>Hard disk drives G11B 25/043</p> <p>Photocopy machines G03G</p>
H01L 21/00	Limiting references	<p>Processes or apparatus specially adapted for the</p>	<p><u>Delete</u> the entire Limiting references section.</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		<p>manufacture or treatment of devices provided for in groups H01L31/00- H01L51/00 or of parts thereof, see these groups H01L31/00 - H01L51/00</p>	
H01L 21/00	Informative references	<p>Processes for applying liquids or other fluent materials B05D1/00 Liquid cleaning (in general) B08B3/00 Machines, Devices, or Processes for Grinding or Polishing B24B Containers, packaging elements or packages specially adapted for particular articles or materials B65D85/00 Shaped ceramic Products C04B35/00 Polishing compositions C09G1/00 Cleaning Compositions C11D Coating by vacuum evaporation, by sputtering or by ion implantation of the coating forming material C23C14/00 Chemical coating by decomposition of gaseous compounds, without leaving reaction products of surface material in the coating (CVD) C23C16/00 Chemical coating by decomposition of either liquid compounds or solutions of the coating forming compounds, without leaving reaction products of surface material in the coating C23C18/00</p>	<p><u>Insert</u> the following reference in the Informative references table.</p> <p>Processes or apparatus specially adapted for the manufacture or treatment of devices provided for in groups H01L31/00- H01L51/00 or of parts thereof, see these groups H01L 31/00 - H01L 51/00</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		<p>Etching metallic material by chemical means C23F1/00</p> <p>Processes for the Electrolytic or Electrophoretic Production of Coatings C25D</p> <p>Single Crystal Growth; Epitaxy C30B</p> <p>Testing individual semiconductor devices G01R31/00</p> <p>Preparation of originals for the photomechanical production of textured or patterned surfaces G03F1/00</p> <p>Photolithographic, production of textured or patterned surfaces G03F7/00</p> <p>Registration or positioning of originals, masks, frames, photographic sheets or textured or patterned surfaces G03F9/00</p> <p>Discharge tubes with provision for introducing objects or material to be exposed to the discharge (plasma etching; ion implantation) H01J37/00</p> <p>Apparatus or processes specially adapted for manufacturing or adjusting assemblages of electric components H05K13/00</p>	
<p>H01L 21/469</p>			<p><u>Insert</u> a new Limiting references section with the following reference.</p> <p>References Limiting references <i>This place does not cover:</i></p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

			Encapsulating layers H01L 21/56
H01L 21/469	Informative references	Layers forming electrodes H01L 21/44 Encapsulating layers H01L 21/56	<u>Delete</u> the following reference from the Informative references table. Encapsulating layers H01L 21/56
H01L 21/48	Limiting references	Arrangements for connecting or disconnecting semiconductor or other solid state bodies, or methods related thereto, other than those H01L24/00	<u>Replace</u> the existing reference in the Limiting references table with the following reference. Manufacture or treatment of parts, e.g. containers, prior to assembly of the devices, using processes not provided for in a single one of the subgroups H01L 21/06 - H01L 21/326
H01L 21/48	Informative references	Insulating sealing of leads in bases H01L21/50 Apparatus therefor H01L21/67 Containers, encapsulations, fillings, mountings per se H01L23/00 Marking of parts H01L23/544	<u>Insert</u> the following reference in the Informative references table. Arrangements for connecting or disconnecting semiconductor or other solid state bodies, or methods related thereto, other than those H01L 24/00
H01L 31/00	Limiting references	Electrolytic light sensitive devices, e.g. dye sensitized solar cells H01G9/20	<u>Delete</u> the following reference from the Limiting references table. Electrolytic light sensitive devices, e.g. dye sensitized solar cells H01G9/20
H01L 31/00	Informative references	Imager structures consisting of a plurality of semiconductor or other solid-state components formed in or on a common substrate H01L27/146 Production of heat using solar heat F24S Measurement of X-radiation, gamma radiation, corpuscular radiation or	<u>Insert</u> the following reference in the Informative references table. Electrolytic light sensitive devices, e.g. dye sensitized solar cells H01G 9/20

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		<p>cosmic radiation with semiconductor detectors G01T1/24</p> <p>Measurement of X-radiation, gamma radiation, corpuscular radiation or cosmic radiation with resistance detectors G01T1/26</p> <p>Measurement of neutron radiation with semiconductor detectors G01T3/08</p> <p>Couplings of light guides with optoelectronic elements G02B6/42</p> <p>Arrangement for obtaining electrical energy from radioactive sources G21H1/00</p>	
H01L 35/00	Limiting references	Thermophotovoltaic systems H02S10/30	<p><u>Replace</u> the existing reference in the Limiting references table with the following reference.</p> <p>Devices consisting of a plurality of semiconductor or other solid-state components formed in or on a common substrate H01L 27/00</p>
H01L 35/00	Informative references	<p>Details of semiconductor or other solid state devices Cooling arrangements using the Peltier effect H01L23/38</p> <p>Devices consisting of a plurality of semiconductor or other solid state components formed in or on a common substrate H01L27/16</p> <p>Soldering or welding B23K</p> <p>Selenium; Tellurium; Compounds thereof C01B19/00</p> <p>Oxides of metals C01G</p>	<p><u>Insert</u> the following reference in the Informative references table.</p> <p>Thermophotovoltaic systems H02S 10/30</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		<p>Alloys C22C Exhaust or silencing apparatus combined or associated with devices profiting by exhaust energy F01N5/00 Refrigeration - Machines, plant, or systems, using electric or magnetic effects F25B21/00 Heat-Exchange apparatus, not provided for in another subclass, in which the heat-exchange media do not come into direct contact F28D Details of heat-exchange and heat-transfer apparatus F28F Radiation pyrometer G01J5/12 Measuring temperature based on the use of electric or magnetic elements directly sensitive to heat G01K7/00 Arrangements for obtaining electrical energy from radioactive sources G21H1/00 Generators or motors not provided for elsewhere H02N11/00</p>	
<p>H01L 37/00</p>	<p>Limiting references</p>	<p>Heating or cooling arrangements, e.g. heat pumps, using electric or magnetic effects F25B21/00 Thermistors H01C7/008, H01C7/02, H01C7/04 Devices using ballistic electron transport across a</p>	<p><u>Replace</u> the existing references in the Limiting references table with the following reference. Devices consisting of a plurality of semiconductor or other solid-state components formed in or on a common substrate H01L 27/00</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

		<p>(vacuum) gap, e.g. thermotunnel diodes H01J45/00</p> <p>Devices based on simple Joule heating (heat generated by current flow through a resistive material) H05B3/00</p>	
H01L 37/00	Informative references	<p>Semiconductor infrared radiation sensitive devices - Photoresistors - Phototransistors H01L31/09, H01L31/101 Thermoelectric devices with junctions of different materials, e.g. based on Peltier or Seebeck effects H01L35/00 Measuring thermal radiation; Pyrometers G01J5/20 Measuring temperature based on thermoelectric or thermomagnetic elements; Thermometers G01K7/00 Magnetography and selection of materials thereof, e.g. Curie-point writing G03G5/00, G03G5/16, G03G19/005</p>	<p><u>Insert</u> the following four references in the Informative references table.</p> <p>Heating or cooling arrangements, e.g. heat pumps, using electric or magnetic effects F25B 21/00</p> <p>Thermistors H01C 7/008, H01C 7/02, H01C 7/04</p> <p>Devices using ballistic electron transport across a (vacuum) gap, e.g. thermotunnel diodes H01J 45/00</p> <p>Devices based on simple Joule heating (heat generated by current flow through a resistive material) H05B 3/00</p>
H01L 43/00	Limiting references	<p>Semiconductor devices using spin-polarised carriers, e.g. Spin-FET H01L29/66984</p> <p>Semiconductor devices with at least one potential barrier, e.g. diodes or transistors, controllable by a magnetic field H01L29/82</p>	<p><u>Replace</u> the existing references in the Limiting references table with the following reference.</p> <p>Devices consisting of a plurality of semiconductor or other solid-state components formed in or on a common substrate H01L 27/00</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

<p>H01L 43/00</p>	<p>Informative references</p>	<p>Manufacture or treatment of semiconductor or solid state devices in general H01L21/00 Voltage or current regulators G05F1/635 Analogue computers G06G7/162 Digital memories - using spin effects- using Hall devices G11C11/15, G11C11/16, G11C11/18 Frequency generators H03B15/00 Amplifiers H03F15/00 Switching circuits - Pulse generators - Electronic switching circuits - Proximity switches- Logic circuits H03K3/59, H03K17/90, H03K17/9517, H03K19/18</p>	<p><u>Insert</u> the following two references in the Informative references table.</p> <p>Semiconductor devices using spin-polarised carriers, e.g. Spin-FET H01L 29/66984</p> <p>Semiconductor devices with at least one potential barrier, e.g. diodes or transistors, controllable by a magnetic field H01L 29/82</p>
<p>H01L 43/00</p>	<p>Synonyms and Keywords</p>	<p>Synonyms and Keywords AMR Anisotropic magnetoresistance CMR Colossal magnetoresistance EMR Extraordinary magnetoresistance GMR Giant magnetoresistance MR Magnetoresistance MRAM Magnetoresistive RAM MTJ Magnetic tunnel junction MR tunnel junction Spin-FET FET using spin-polarised carrier transport STJ Spin tunnel junction TMR Tunnel magnetoresistance XMR Any one of AMR to TMR</p>	<p><u>Insert</u> the following text after the Synonyms and Keywords heading.</p> <p>In patent documents the following abbreviations are often used:</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

<p>H01P 1/18</p>			<p><u>Insert</u> a new Limiting references section with the following reference.</p> <p>References Limiting references <i>This place does not cover:</i></p> <p>For rotating the plane of polarization H01P 1/165</p>
<p>H01P 1/20</p>	<p>Limiting references</p>	<p>If the application is more focused in the material of the substrate and it is, in particular, a METAMATERIAL. G02B1/002</p> <p>Laser and terahertz frequencies H01S1/00</p> <p>Low frequency filters (filters with lumped elements should be included here) H03H17/00</p> <p>If the filtering is due to the substrate and it want to eliminate any problem due to the PCB (or stubstrate) H05K1/0236</p>	<p><u>Delete</u> the entire Limiting references section.</p>
<p>H01P 1/20</p>			<p><u>Insert</u> a new Informative references section with the following four references.</p> <p>References Informative references <i>Attention is drawn to the following places, which may be of interest for search:</i></p> <p>Metamaterials G02B 1/002</p>

CPC NOTICE OF CHANGES 1011

DATE: JANUARY 1, 2021

PROJECT MP0451

			Laser and terahertz frequencies H01S 1/00 Low frequency filters H03H 17/00 Filtering due to the substrate H05K 1/0236
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NOTES:

- The table above is used for corrections or modifications to existing definitions, e.g. delete an entire definition or part thereof; propose new wording or modify wording of a section, change the symbol the definition is associated with, change or delete a reference symbol, etc.
- Do not delete (F) symbol definitions.