EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 984

DATE: JANUARY 1, 2021

PROJECT MP0497

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

Action	Subclass	Group(s)
SCHEME:		
Notes Deleted:	G05D	16/00
	G05D	23/19
	G11B	7/252
	H01L	27/108
	H01M	8/04
	H05B	45/00
	H05B	47/00
Notes Modified:	B82Y	Subclass
	G06F	3/048
	G06T	7/10
	G10B	Subclass
	G10C	Subclass
	G10D	Subclass
	H02J	50/00
	H04H	Subclass
DEFINITIONS:		
Definitions Deleted:	G06F	3/0484, 3/0487
Definitions Modified:	B82Y	Subclass
	G01R	31/36
	G06F	3/0481
	G06T	7/10
	G08G	1/00
	G10B	Subclass
	G11B	5/735, 5/7379, 5/73911, 5/73923, 5/73925, 5/73931
	G11B	7/00
	H01F	Subclass
	H01J	11/00
	H01J	17/00
	H01J	61/00
	H01K	Subclass
	H01L	21/00, 21/02002, 21/02041, 21/02104, 21/02107, 21/02365
	H01L	27/108
	H01L	29/00
	H04H	Subclass
	H04N	Subclass

CPC NOTICE OF CHANGES 984

DATE: JANUARY 1, 2021

PROJECT MP0497

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)

1. CLASSIFICATION SCHEME CHANGES

   C. New, Modified or Deleted Note(s)

SUBCLASS B82Y – SPECIFIC USES OR APPLICATIONS OF NANOSTRUCTURES; MEASUREMENT OR ANALYSIS OF NANOSTRUCTURES; MANUFACTURE OR TREATMENT OF NANOSTRUCTURES

Type*	Location	Old Note	New/Modified Note
M	B82Y	**NOTES** 1. This subclass covers applications and aspects of nanostructures which are produced by any method, and is not restricted to those that are formed by manipulation of individual atoms or molecules. 2. Attention is drawn to the Note following the title of class B82, which defines the meaning of the terms "nanosize", "nanoscale" and "nanostructure" in this subclass. 3. This subclass is intended to enable a comprehensive search of subject matter related to nanostructures by combination of classification symbols of this subclass with classification symbols from other subclasses. Therefore this subclass covers aspects of nanostructures that might also be entirely or partially covered elsewhere in the IPC. 4. This subclass is for secondary classification, i.e. obligatory supplementary classification of subject matter already classified as such in other classification places, e.g.:B82B Nanostructures formed by individual manipulation of atoms, molecules, or limited collections of atoms or molecules as discrete units; manufacture or treatment thereof A61K 9/51 Nanocapsules for medicinal preparations B05D 1/20 Langmuir-Blodgett films C01B 32/05 Carbon nanostructures, e.g. bucky-balls, nanotubes, nanocoils, nanodoughnuts or nanoonions G01Q Scanning probe techniques G02F 1/017 Optical quantum wells or boxes H01F 10/32 Nanostructured thin magnetic films H01F 41/30 Molecular beam epitaxy [MBE] H01L 29/775 Quantum wire FETs 5. The classification symbols of this subclass are not listed first when assigned to patent documents. 6. In this subclass, multi-aspects classification is applied, so that aspects of subject matter that are covered by more than one of its groups should be classified in each of those groups.	Delete the existing Note 6. 6. In this subclass, multi-aspects classification is applied, so that aspects of subject matter that are covered by more than one of its groups should be classified in each of those groups.

DATE: JANUARY 1, 2021

PROJECT MP0497

SUBCLASS G05D – SYSTEMS FOR CONTROLLING OR REGULATING NON-ELECTRIC VARIABLES (for continuous casting of metals B22D 11/16; valves per se F16K; sensing non-electric variables, see the relevant subclasses of G01; for regulating electric or magnetic variables G05F)

Type*	Location	Old Note	New/Modified Note
D	G05D 16/00	NOTE {Note: In this group, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its subgroups, which is considered to represent information of interest for search, should be classified in each of those subgroups.}	Delete the entire Note section.
D	G05D 23/19	NOTE In this group, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its subgroups, which is considered to represent information of interest for search, should be classified in each of those subgroups. Temperature control arrangements are classified in subgroups G05D23/20 – G05D23/275 on the base of the type of temperature sensor and in the subgroups directly under G05D23/19 for each aspect related to temperature control in general.	Delete the entire Note section.

SUBCLASS G06F – ELECTRIC DIGITAL DATA PROCESSING (computer systems based on specific computational models G06N)

Type*	Location	Old Note	New/Modified Note
M	G06F 3/048	2. In this group, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its groups, which is considered to represent information of interest for search, should be classified in each of those groups.	Delete existing Note 2.

SUBCLASS G06T – IMAGE DATA PROCESSING OR GENERATION, IN GENERAL

Type*	Location	Old Note	New/Modified Note
M	G06T 7/10	In this group, multi-aspect classification is applied, so that subject matter characterised by aspects covered by groups G06T7/11, G06T7/12 or G06T7/13 should be classified in any one of the relevant groups G06T7/136 – G06T7/194.	Replace the existing note with the following. When classifying in groups G06T 7/11 - G06T 7/13, classification is also made in relevant groups of G06T 7/136 - G06T 7/194.

SUBCLASS G10B – ORGANS, HARMONIUMS OR SIMILAR WIND MUSICAL INSTRUMENTS WITH ASSOCIATED BLOWING APPARATUS (accordions, concertinas or the like or keyboards therefor G10D 11/00; automatic wind instruments G10F 1/12)

Type*	Location	Old Note	New/Modified Note
M	G10B	1. In this subclass, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its groups should be classified in each of those groups.	Delete existing Note 1.

SUBCLASS G10C – PIANOS, HARPSICHORDS, SPINETS OR SIMILAR STRINGED MUSICAL INSTRUMENTS WITH ONE OR MORE KEYBOARDS (automatic musical instruments G10F)

Type*	Location	Old Note	New/Modified Note
M	G10C	In groups G10C1/00, G10C3/00 and G10C9/00, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of their subgroups should be classified in each of those subgroups.	Delete existing Note 1.

SUBCLASS G10D – STRINGED MUSICAL INSTRUMENTS; WIND MUSICAL INSTRUMENTS; ACCORDIONS OR CONCERTINAS; PERCUSSION MUSICAL INSTRUMENTS; AEOLIAN HARPS; SINGING-FLAME MUSICAL INSTRUMENTS; MUSICAL INSTRUMENTS NOT OTHERWISE PROVIDED FOR (organs, harmoniums or similar wind musical instruments with associated blowing apparatus G10B; pianos, harpsichords, spinets or similar stringed musical instruments with one or more keyboards G10C; automatic musical instruments G10F; electrophonic musical instruments in which tones are generated by electromechanical means G10H)

Type*	Location	Old Note	New/Modified Note
M	G10D	1. In this subclass, multi-aspect classification is applied for each of groups G10D1/00 – G10D9/00, G10D13/00, so that subject matter characterised by aspects covered by more than one of its groups should be classified in each of those groups.	Delete existing Note 1.

SUBCLASS G11B – INFORMATION STORAGE BASED ON RELATIVE MOVEMENT BETWEEN RECORD CARRIER AND TRANSDUCER ({producing carriers of sound records for needle playback B29C 39/00} ; recording measured values in a way that does not require playback through a transducer G01D; photosensitive materials or processes for photographic purposes G03C; electrography, electrophotography, magnetography G03G; 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; printing of data from record carriers G06K 3/00; arrangements for producing a permanent visual presentation of the output data G06K 15/00; arrangements or circuits for control of indicating devices using static means to present variable information G09G; coding, decoding or code conversion, in general H03M; circuits for coupling output of reproducer to radio receiver H04B 1/20; circuits {or arrangements} specially adapted for {pictorial or} television signal recording {H04N 1/21} , H04N 5/76, H04N 9/79; loudspeakers, microphones, gramophone pick-ups or like acoustic electromechanical transducers or circuits therefor H04R)

Type*	Location	Old Note	New/Modified Note
D	G11B 7/252	NOTE In group G11B7/252, multi-aspect classification is applied, so that if subject matter is characterised by aspects covered by more than one of its subgroups, the subject matter should be classified in each of those subgroups.	Delete the entire Note section.

SUBCLASS H01L - SEMICONDUCTOR DEVICES; ELECTRIC SOLID STATE DEVICES NOT OTHERWISE PROVIDED FOR (use of semiconductor devices for measuring G01; resistors in general H01C; magnets, inductors, transformers H01F; capacitors in general H01G; electrolytic devices H01G 9/00; batteries, accumulators H01M; waveguides, resonators, or lines of the waveguide type H01P; line connectors, current collectors H01R; stimulated-emission devices H01S; electromechanical resonators H03H; loudspeakers, microphones, gramophone pick-ups or like acoustic electromechanical transducers H04R; electric light sources in general H05B; printed circuits, hybrid circuits, casings or constructional details of electrical apparatus, manufacture of assemblages of electrical components H05K; use of semiconductor devices in circuits having a particular application, see the subclass for the application)

Type*	Location	Old Note	New/Modified Note
D	H01L27/108	NOTE In this group and its subgroups classification is made in any appropriate place	Delete the entire Note section.

SUBCLASS H01M – PROCESSES OR MEANS, e.g. BATTERIES, FOR THE DIRECT COVERSION OF CHEMEICAL ENERGY INTO ELECTRICAL ENERGY

Type*	Location	Old Note	New/Modified Note
D	H01M 8/04	NOTE In this group, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its subgroups should be classified in each of those subgroups.	Delete the entire Note section.

SUBCLASS H02J – CIRCUIT ARRANGEMENTS OR SYSTEMS FOR SUPPLYING OR DISTRIBUTING ELECTRIC POWER; SYSTEMS FOR STORING ELECTRIC ENERGY

Type*	Location	Old Note	New/Modified Note
M	H02J 50/00	2. In this main group, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its groups should be classified in each of those groups.	Delete existing Note 2.

DATE: JANUARY 1, 2021

PROJECT MP0497

SUBCLASS H04H – BROADCAST COMMUNICATION (multiplex communication H04J; pictorial communication aspects of broadcast systems H04N)

Type*	Location	Old Note	New/Modified Note
M	H04H	2. In this subclass, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its groups, which is considered to represent information of interest for search, may also be classified in each of those groups.	Delete existing Note 2.

SUBCLASS H05B – ELECTRIC HEATING; ELECTRIC LIGHTING NOT OTHERWISE PROVIDED FOR

Type*	Location	Old Note	New/Modified Note
D	H05B 45/00	NOTE In this group, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its subgroups, which is considered to represent information of interest for search, may also be classified in each of those subgroups.	Delete the entire Note section
D	H05B 47/00	NOTE In this group, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its subgroups, which is considered to represent information of interest for search, may also be classified in each of those subgroups.	Delete the entire Note section

*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.

2. B. DEFINITIONS QUICK FIX

Symbol	Location of change (e.g., section title)	Existing reference symbol or text	Action; New symbol; New text
B82Y	Special rules of classification		<u>Delete</u> the entire Special rules of classification section.
G01R31/36	Special rules of classification		<u>Delete</u> the entire Special rules of classification section.
G06F3/0481	Special rules of classification		<u>Delete</u> the entire Special rules of classification section.
G06F3/0484	Definition		<u>Delete</u> the entire Definition.
G06F3/0487	Definition		<u>Delete</u> the entire Definition.
G06T7/10	Special rules of classification		<u>Delete</u> the entire Special rules of classification section.
G08G1/00	Special rules of classification		<u>Delete</u> the entire Special rules of classification section.
G10B	Special rules of classification		<u>Delete</u> the entire Special rules of classification section.
G11B5/735	Definition statement	Two-sided recording media having recording layer structures on both sides may be placed in G11B 5/735 and its subgroups if meeting the requirements for placement. In this situation, multi-aspect classification must be done on the appropriate base layer subgroups for the layer structure under the recording layer, as well.	<u>Delete</u> the following paragraph in the Definition statement section. Two-sided recording media having recording layer structures on both sides may be placed in G11B 5/735 and its subgroups if meeting the requirements for placement. In this situation, multi-aspect classification must be done on the appropriate base layer subgroups for the layer structure under the recording layer, as well.

Symbol	Location of change (e.g., section title)	Existing reference symbol or text	Action; New symbol; New text
G11B5/7379	Special rules of classification		Delete the entire Special rules of classification section.
G11B5/73911	Special rules of classification	Multi-aspect classification should be used for composite substrates including mixture of both inorganic and organic layers or formed portions.	Delete the following sentence from the Special rules of classification section. Multi-aspect classification should be used for composite substrates including mixture of both inorganic and organic layers or formed portions.
G11B5/73923	Special rules of classification	Multi-aspect classification should be used for substrates including a mix of organic and inorganic material layers, as appropriate for the specific materials recited.	Delete the following sentence from the Special rules of classification section. Multi-aspect classification should be used for substrates including a mix of organic and inorganic material layers, as appropriate for the specific materials recited.
G11B5/73925	Special rules of classification	When the non-magnetic layer is unable to be ascertained as to whether it is part of the substrate or used to establish the magnetic layer deposition, multi-aspect classification should be applied in G11B 5/733 and G11B 5/73925.	Delete the following sentence from the Special rules of classification section. When the non-magnetic layer is unable to be ascertained as to whether it is part of the substrate or used to establish the magnetic layer deposition, multi-aspect classification should be applied in G11B 5/733 and G11B 5/73925.
G11B5/73931	Special rules of classification	When the non-magnetic layer is unable to be ascertained as to whether it is part of the	Delete the following sentence from the Special rules of classification section.

Symbol	Location of change (e.g., section title)	Existing reference symbol or text	Action; New symbol; New text
		substrate or used to establish the magnetic layer deposition, multi-aspect classification should be applied in G11B 5/733 and G11B 5/73931.	When the non-magnetic layer is unable to be ascertained as to whether it is part of the substrate or used to establish the magnetic layer deposition, multi-aspect classification should be applied in G11B 5/733 and G11B 5/73931.
G11B7/00	Special rules of classification	Note in group G11B 7/252, multi-aspect classification is applied, so that if subject matter is characterised by aspects covered by more than one of its subgroups, the subject matter should be classified in each of those subgroups	<u>Delete</u> the following sentence from the Special rules of classification section. Note in group G11B 7/252, multi-aspect classification is applied, so that if subject matter is characterised by aspects covered by more than one of its subgroups, the subject matter should be classified in each of those subgroups
H01F	Special rules of classification	• Remaining main groups of H01F: Multi-aspect classification is used. This means that several subgroups are assigned to a document if several relevant features are present. It is, for example, not mandatory to use the next general subgroup H01F 27/28 f or transformer windings if printed winding (H01F 27/2804) and wire winding (H01F 27/2823) are combined in one transformer. Instead,	<u>Delete</u> the following text from the Special rules of classification section. • Remaining main groups of H01F: Multi-aspect classification is used. This means that several subgroups are assigned to a document if several relevant features are present. It is, for example, not mandatory to use the next general subgroup H01F 27/28 for transformer windings if printed winding (H01F 27/2804) and wire winding (H01F 27/2823) are combined in one transformer. Instead, subgroups

Symbol	Location of change (e.g., section title)	Existing reference symbol or text	Action; New symbol; New text
		subgroups H01F 27/2804 and H01F 27/2823 are both assigned to the respective document.	H01F 27/2804 and H01F 27/2823 are both assigned to the respective document.
H01J11/00	Special rules of classification		<u>Delete</u> the entire Special rules of classification section.
H01J17/00	Special rules of classification		<u>Delete</u> the entire Special rules of classification section.
H01J61/00	Special rules of classification	Documents should be classified in all appropriate classes, i. e. multi-aspect classification is used. If a document concerns embodiments or elements in detail which are covered by several subgroups dependent on a higher hierarchy group, the relevant information is classified in all the respective subgroups. The higher hierarchy group is to be used: • if no respective subgroup exists. • if the general idea is relevant for the higher hierarchy as well as all the respective subgroups.	<u>Delete</u> the following paragraphs from the Special rules of classification section. Documents should be classified in all appropriate classes, i. e. multi-aspect classification is used. If a document concerns embodiments or elements in detail which are covered by several subgroups dependent on a higher hierarchy group, the relevant information is classified in all the respective subgroups. The higher hierarchy group is to be used: • if no respective subgroup exists. • if the general idea is relevant for the higher hierarchy as well as all the respective subgroups.

Symbol	Location of change (e.g., section title)	Existing reference symbol or text	Action; New symbol; New text
H01K	Special rules of classification		<u>Delete</u> the entire Special rules of classification section.
H01L21/00	Special rules of classification	Multi-aspect classification is used for subject matter characterized by several aspects, for example, a process and its particular use. Single steps forming part of a multi step process should also be classified when they present a special interest or particular features.	<u>Delete</u> the following paragraph from the Special rules of classification section. Multi-aspect classification is used for subject matter characterized by several aspects, for example, a process and its particular use. Single steps forming part of a multi step process should also be classified when they present a special interest or particular features.
H01L21/02002	Special rules of classification	Multiple classification on different aspects is made, provided the invention is sufficiently disclosed on those different aspects.	<u>Delete</u> the following paragraph from the Special rules of classification section. Multiple classification on different aspects is made, provided the invention is sufficiently disclosed on those different aspects.
H01L21/02041	Special rules of classification	Multiaspect classification is used in H01L 21/02041 and subgroups.	<u>Delete</u> the following paragraph from the Special rules of classification section. Multiaspect classification is used in H01L 21/02041 and subgroups.
H01L21/02104	Special rules of classification		<u>Delete</u> the following paragraph from the Special rules of classification section. Multiple classification is possible for different aspects, provided the invention is sufficiently disclosed on those different aspects.

Symbol	Location of change (e.g., section title)	Existing reference symbol or text	Action; New symbol; New text
H01L21/02107	Special rules of classification	Multiple classification is made for different aspects (type of layer, formation process, treatment of layer), provided the invention is sufficiently disclosed on this aspect.	<u>Delete</u> the following paragraph from the Special rules of classification section. Multiple classification is made for different aspects (type of layer, formation process, treatment of layer), provided the invention is sufficiently disclosed on this aspect.
H01L21/02365	Special rules of classification		<u>Delete</u> the entire Special rules of classification section.
H01L27/108	Special rules of classification		<u>Delete</u> the entire Special rules of classification section.
H01L29/00	Special rules of classification	In any one of the a.m. sets of groups classification is made in any appropriate place, i.e. multi-aspect classification is used.	<u>Delete</u> the following paragraph from the Special rules of classification section. In any one of the a.m. sets of groups classification is made in any appropriate place, i.e. multi-aspect classification is used.
H04H	Special rules of classification		<u>Delete</u> the entire Special rules of classification section.
H04N	Relationships with other classification places	Photographic or cinematographic apparatus, or processes, that are specific to film-based photography or cinematography (e.g. film-strip handling) are covered in subclass G03B. The optical and mechanical features of cameras and projectors	<u>Delete</u> the following paragraphs from the Relationships with other classification places section. Photographic or cinematographic apparatus, or processes, that are specific to film-based photography or cinematography (e.g. film-strip handling) are covered in subclass G03B. The optical and mechanical features of cameras and projectors are typically – but not always – covered by

Symbol	Location of change (e.g., section title)	Existing reference symbol or text	Action; New symbol; New text
		are typically – but not always – covered by subclass G03B, and due regard should be given to the multi-aspect classification rule stated below. When the following subject matter is classified in this subclass, it is desirable to also classify it in Subclass G03B, when some aspects are considered of interest for search purposes: • Digital still cameras, or their details • Projectors or projection-type viewers using an electronic spatial light modulator, or their details Video cameras, CCTV cameras, surveillance cameras and camcorders, or details thereof	subclass G03B, and due regard should be given to the multi-aspect classification rule stated below. When the following subject matter is classified in this subclass, it is desirable to also classify it in Subclass G03B, when some aspects are considered of interest for search purposes: • Digital still cameras, or their details • Projectors or projection-type viewers using an electronic spatial light modulator, or their details • Video cameras, CCTV cameras, surveillance cameras and camcorders, or details thereof

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.