

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 437

DATE: MAY 1, 2018

PROJECT MP0345

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:	H03M	13/21
	H04S	subclass
	H04S	5/00
Notes Deleted:	G03G	9/0827
	H02B	1/24
	H03M	7/008
	H04L	7/10
Notes New:	G03G	9/08
	G06F	3/03
	G06F	19/10
	G07D	5/00
	H02B	1/00
	H03M	7/00
	H04L	9/00
Notes Modified:	G01N	33/50
	G01Q	subclass
	G03F	1/00
	G05G	1/00
	G06Q	subclass
	H01L	33/00
	H03M	5/00
	H04N	5/335
	H04N	21/00
	H04S	subclass
	H04W	subclass
DEFINITIONS:		
Definitions Modified:	H04S	subclass
	H04S	5/00

CPC NOTICE OF CHANGES 437

DATE: MAY 1, 2018

PROJECT MP0345

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 Notice(s)
 - C. New, Modified or Deleted Note(s)
 - D. New, Modified or Deleted Guidance Heading(s)
2. DEFINITIONS (New or Modified)
 - A. DEFINITIONS (Full definition template)
 - B. DEFINITIONS (Definitions Quick Fix)
3. REVISION CONCORDANCE LIST (RCL)
4. CHANGES TO THE CPC-TO-IPC CONCORDANCE LIST (CICL)
5. CROSS-REFERENCE LIST (CRL)

CPC NOTICE OF CHANGES 437

DATE: MAY 1, 2018

PROJECT MP0345

1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS H03M – CODING; DECODING; CODE CONVERSION IN GENERAL (using fluidic means F15C 4/00; optical analogue/digital converters G02F 7/00; coding, decoding or code conversion, specially adapted for particular applications, see the relevant subclasses, e.g. G01D, G01R, G06F, G06T, G09G, G10L, G11B, G11C, H04B, H04L, H04M, H04N; ciphering or deciphering for cryptography or other purposes involving the need for secrecy G09C)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>(new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	H03M 13/21	3	Non-linear codes, e.g. m-bit data word to n-bit code word [mBnB] conversion with error detection or error correction	

SUBCLASS H04S – STEREOPHONIC SYSTEMS (information storage on discs or tapes G11B; broadcast systems for the distribution of stereophonic information H04H 20/88; multiplex systems in general H04J)

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level</u> <u>Number of dots (e.g. 0, 1, 2)</u>	<u>Title</u> <u>(new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	H04S	subclass	STEREOPHONIC SYSTEMS	
M	H04S 5/00	0	Pseudo-stereo systems, e.g. in which additional channel signals are derived from monophonic signals by means of phase shifting, time delay or reverberation	

*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).
- For U groups, the minimum requirement is to include the U group located immediately prior to the N group or N group array, in order to show the N group hierarchy and improve the readability and understanding of the scheme. 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 except “D” which requires only a symbol.

CPC NOTICE OF CHANGES 437

DATE: MAY 1, 2018

PROJECT MP0345

- #“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>” or “<administrative transfer to XX and YY simultaneously>” when administrative transfer of the same documents is to more than one place.
- Administrative transfer to main trunk groups is assumed to be “invention information”, unless otherwise indicated, and to 2000 series groups is assumed to be “additional information”.

CPC NOTICE OF CHANGES 437

DATE: MAY 1, 2018

PROJECT MP0345

B. New, Modified or Deleted Note(s)**SUBCLASS G01N - INVESTIGATING OR ANALYSING MATERIALS BY DETERMINING THEIR CHEMICAL OR PHYSICAL PROPERTIES**

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	G01N 33/50	1. The expression "involving", when used in relation to a material includes the testing for the material as well as employing the material as a determinant or reactant in a test for a different material.	1. In this group, the following expression is used with the meaning indicated: "involving", when used in relation to a material, includes the testing for the material as well as employing the material as a determinant or reactant in a test for a different material.
M	G01N 33/50	2. In groups G01N 33/52 to G01N 33/96, in the absence of an indication to the contrary, an invention is also classified in the last appropriate place.	2. In groups G01N 33/52 – G01N 33/98, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.
M	G01N 33/50	3. Documents relating to new peptides or new DNA or its corresponding mRNA, encoding for the peptides, and their use in measuring or testing processes are classified in subclass C07K or in group C12N 9/00 according to the peptides, with the appropriate indexing codes relating to their use in diagnostics. However, if the investigating or analyzing aspects are of interest, the documents are classified in this group	<u>Insert</u> a <u>period</u> at the end of the paragraph, after the last word: "group".

CPC NOTICE OF CHANGES 437

DATE: MAY 1, 2018

PROJECT MP0345

SUBCLASS G01Q – SCANNING-PROBE TECHNIQUES OR APPARATUS; APPLICATIONS OF SCANNING-PROBE TECHNIQUES, e.g. SCANNING-PROBE MICROSCOPY [SPM]

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	G01Q (subclass)	In this subclass, the first place priority rule is applied, i.e. at each hierarchical level, classification is made in the first appropriate place.	In this subclass, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.

SUBCLASS G03F – PHOTOMECHANICAL PRODUCTION OF TEXTURED OR PATTERNED SURFACES, e.g. FOR PRINTING, FOR PROCESSING OF SEMICONDUCTOR DEVICES; MATERIALS THEREFOR; ORIGINALS THEREFOR; APPARATUS SPECIALLY ADAPTED THEREFOR; (phototypographic composing devices B41B; photosensitive materials or processes for photographic purposes G03C; electrophotography, sensitive layers or processes therefor G03G)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	G03F 1/00	In this main group, at each hierarchical level; in the absence of an indication to the contrary, classification is made in the first appropriate place	In this group, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.

SUBCLASS G03G – ELECTROGRAPHY; ELECTROPHOTOGRAPHY; MAGNETOGRAPHY (information storage based on relative movement between record carrier and transducer G11B; static stores with means for writing-in or reading-out information G11C; recording of television signals H04N 5/76)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
N	G03G 9/08		<u>NOTE</u> In groups G03G 9/0802 - G03G 9/135, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.
D	G03G 9/0827	<u>NOTE</u> In groups G03G 9/083 - G03G 9/135, in the absence of an indication to the contrary, classification is made in the last appropriate place	<u>Delete</u> the entire note.

CPC NOTICE OF CHANGES 437

DATE: MAY 1, 2018

PROJECT MP0345

SUBCLASS G05G – CONTROL DEVICES OR SYSTEMS INSOFAR AS CHARACTERISED BY MECHANICAL FEATURES ONLY ("Bowden" or like mechanisms F16C 1/10; gearings or mechanisms not peculiar to this purpose F16H; speed changing or reversing mechanisms for gearings conveying rotary motion F16H 59/00 - F16H 63/00)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	G05G 1/00	Within this main group the first place priority rule is applied, i.e. at each hierarchical level classification is made in the first appropriate place	In this group, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.

SUBCLASS G06F –ELECTRICAL DIGITAL DATA PROCESSING (computers in which a part of the computation is effected hydraulically or pneumatically G06D; optically G06E; self-contained input or output peripheral equipment G06K; impedance networks using digital techniques H03H)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
N	G06F 3/03		In this group, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.
N	G06F 19/10		<p>1. This group also <u>covers</u> bioinformatics methods or systems where digital data processing is inherent or implicit, but not explicitly mentioned.</p> <p>2. In this group, the following term is used with the meaning indicated:</p> <ul style="list-style-type: none"> • “systems” include apparatus. <p>3. In this group, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.</p>

CPC NOTICE OF CHANGES 437

DATE: MAY 1, 2018

PROJECT MP0345

SUBCLASS G06Q – DATA PROCESSING SYSTEMS OR METHODS, SPECIALLY ADAPTED FOR ADMINISTRATIVE, COMMERCIAL, FINANCIAL, MANAGERIAL, SUPERVISORY OR FORECASTING PURPOSES; SYSTEMS OR METHODS SPECIALLY ADAPTED FOR ADMINISTRATIVE, COMMERCIAL, FINANCIAL, MANAGERIAL, SUPERVISORY OR FORECASTING PURPOSES, NOT OTHERWISE PROVIDED FOR

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	G06Q (subclass)	1. Groups G06Q 10/00 to G06Q 50/00 and G06Q 99/00 only cover ... device. Group G06Q 90/00 covers...fulfilled:	In the existing 1. Note, <u>underline</u> the words “cover” and “covers” as shown below: 1. Groups G06Q 10/00 to G06Q 50/00 and G06Q 99/00 only <u>cover</u> ... device. Group G06Q 90/00 <u>covers</u> ...fulfilled:
M	G06Q (subclass)	3. In this subclass, the first place priority rule is applied, i.e. at each hierarchical level, classification is made in the first appropriate place.	3. In this subclass, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.

SUBCLASS G07D - HANDLING OF COINS OR OF PAPER CURRENCY OR SIMILAR VALUABLE PAPERS, e.g. TESTING, SORTING BY DENOMINATIONS, COUNTING, DISPENSING, CHANGING OR DEPOSITING

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
N	G07D 5/00		In groups G07D 5/005 - G07D 5/10, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.

CPC NOTICE OF CHANGES 437

DATE: MAY 1, 2018

PROJECT MP0345

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 {in general}, 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 electric apparatus, manufacture of assemblages of electrical components H05K; use of semiconductor devices in circuits having a particular application, see the subclass for the application)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	H01L 33/00	2. In this group, at each hierarchical level; in the absence of an indication to the contrary, classification is made in the first appropriate place.	2. In this group, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.

SUBCLASS H02B – BOARDS, SUBSTATIONS, OR SWITCHING ARRANGEMENTS FOR THE SUPPLY OR DISTRIBUTION OF ELECTRIC POWER (basic electric elements, their assembly, including the mounting in enclosures or on bases, or the mounting of covers thereon, see the subclasses for such elements, e.g. transformers H01F, switches, fuses H01H, line connectors H01R; installation of lines, cables, or other conductors for supply or distribution H02G)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
N	H02B 1/00		In groups H02B 1/01 to H02B 1/56, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.
D	H02B 1/24	In groups H02B 1/26 - H02B 1/56, in the absence of an indication to the contrary, an invention is classified in the last appropriate place.	Delete the entire note.

CPC NOTICE OF CHANGES 437

DATE: MAY 1, 2018

PROJECT MP0345

SUBCLASS H03M – CODING; DECODING; CODE CONVERSION IN GENERAL (using fluidic means F15C 4/00; optical analogue/digital converters G02F 7/00; coding, decoding or code conversion, specially adapted for particular applications, see the relevant subclasses, e.g. G01D, G01R, G06F, G06T, G09G, G10L, G11B, G11C, H04B, H04L, H04M, H04N; ciphering or deciphering for cryptography or other purposes involving the need for secrecy G09C)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	H03M 5/00	In groups H03M 5/02 to H03M 5/22, in the absence of an indication to the contrary, an invention is classified in the last appropriate place.	In groups H03M 5/02 - H03M 5/22, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.
N	H03M 7/00		In groups H03M 7/001 - H03M 7/50, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.
D	H03M 7/008	In groups H03M 7/02 to H03M 7/50, in the absence of an indication to the contrary, an invention is classified in the last appropriate place.	Delete the entire note.

SUBCLASS H04L – TRANSMISSION OF DIGITAL INFORMATION, e.g. TELEGRAPHIC COMMUNICATION (typewriters B41J; order telegraphs, fire or police telegraphs G08B; visual telegraphy G08B, G08C; teleautographic systems G08C; ciphering or deciphering apparatus per se G09C; coding, decoding or code conversion, in general H03M; arrangements common to telegraphic and telephonic communication H04M; selecting H04Q)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
D	H04L 7/10	In group H04L 9/00 - H04L 9/32, in the absence of an indication to the contrary, an invention is classified in the last appropriate place.	Delete the entire note.
N	H04L 9/00		3. In subgroups H04L 9/001 - H04L 9/38, the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.

CPC NOTICE OF CHANGES 437

DATE: MAY 1, 2018

PROJECT MP0345

SUBCLASS H04N – PICTORIAL COMMUNICATION, e.g. TELEVISION (measuring, testing G01; systems for autographic writing, e.g. writing telegraphy, which involve following an outline {G08C 21/00}; information storage based on relative movement between record carrier and transducer G11B; coding, decoding or code conversion, in general H03M; broadcast distribution or the recording of use made thereof H04H)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	H04N 5/335	In this group, at each hierarchical level; in the absence of an indication to the contrary, classification is made in the first appropriate place	In this group, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.
M	H04N 21/00	2. In this main group, at each hierarchical level; in the absence of an indication to the contrary, classification is made in the first appropriate place	2. In this main group, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.
M	H04N 21/00	<p><i>(The following text is from the end of Note 3).</i></p> <p>upstream - designates the direction of data flow towards the source, e.g. a server receiving a request via a mobile phone network d</p> <p>ownstream - designates the direction of data flow towards a client, e.g. a client receiving data originating from a server elementary stream An elementary stream (ES) as defined by the MPEG system layer designates the output of an audio or video encoder</p>	<p>Replace the existing <i>text from the end of Note 3</i> with the following reformatted text.</p> <ul style="list-style-type: none"> • upstream - designates the direction of data flow towards the source, e.g. a server receiving a request via a mobile phone network. • downstream - designates the direction of data flow towards a client, e.g. a client receiving data originating from a server elementary stream An elementary stream (ES) as defined by the MPEG system layer designates the output of an audio or video encoder.

SUBCLASS H04S – STEREOPHONIC SYSTEMS (information storage on discs or tapes G11B; broadcast systems for the distribution of stereophonic information H04H 20/88; multiplex systems in general H04J)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	H04S (subclass)		<p>Insert the following <u>new note</u> after the existing note.</p> <p>In this subclass, it is desirable to add the indexing codes of H04S2400/00 and H04S2420/00.</p>

CPC NOTICE OF CHANGES 437

DATE: MAY 1, 2018

PROJECT MP0345

SUBCLASS H04W –WIRELESS COMMUNICATIONS NETWORKS (radio transmission systems H04B 7/00; transmission systems using electromagnetic waves other than radio waves, e.g. light, infrared H04B 10/00; communication systems using wireless extensions, i.e. wireless links without selective communication, e.g. cordless telephones H04M 1/72; broadcast communication H04H)

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	H04W (subclass)	1. This subclass covers: <ul style="list-style-type: none"> • arrangements or techniques specially adapted for the operation of the above-mentioned wireless networks. 	In the last bulleted statement (in the existing 1. Note), change “techniques” to the following: techniques
M	H04W (subclass)	3. In this subclass, at each hierarchical level; in the absence of an indication to the contrary, classification is made in the first appropriate place.	3. In this subclass, the first place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.

*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. A. DEFINITIONS (modified)

H04S

References

Delete: The entire existing Limiting references section.

Limiting references

This place does not cover:

Speech or audio signal analysis-synthesis techniques for redundancy reduction, e.g. in vocoders; Coding or decoding of speech or audio signals, e.g. for compression or expansion, source-filter models or psychoacoustic analysis	G10L 19/00
Multi-channel audio coding and decoding using interchannel correlation to reduce redundancies	G10L 19/008

Insert: The following new Application-oriented references section.

Application-oriented references

Examples of places where the subject matter of this place is covered when specially adapted, used for a particular purpose, or incorporated in a larger system:

Circuits or components specially adapted for stereophonic broadcast systems	H04H 20/47
Broadcast systems for the distribution of stereophonic information	H04H 20/88
Circuits or components specially adapted for stereophonic broadcast receiving	H04H 40/36

DATE: MAY 1, 2018

PROJECT MP0345

Informative references

Delete: The following existing row in the Informative references section.

Broadcast systems for the distribution of stereophonic information	H04H 20/88
--	----------------------------

Insert: The following two new rows in the Informative references section.

Speech or audio signal analysis-synthesis techniques for redundancy reduction, e.g. in vocoders; Coding or decoding of speech or audio signals, e.g. for compression or expansion, using source-filter models or psychoacoustic analysis	G10L 19/00
Multichannel audio signal coding and decoding, i.e. using interchannel correlation to reduce redundancies, e.g. joint-stereo, intensity-coding, matrixing	G10L 19/008

Special rules of classification

Delete: The text in the 2nd paragraph in the Special Rules section.

Further detail not provided for in any of the main groups is provided for in the subgroups of Indexing Code groups H04S 2400/00 and H04S 2420/00. Classification is obligatory.

Replace: The text deleted in the 2nd paragraph in the Special Rules section with the following text.

Further detail not provided for in any of the main groups is provided for in the groups of Indexing Codes [H04S 2400/00](#) and [H04S 2420/00](#) and subgroups thereof. Classification is obligatory.

Delete: In the 3rd paragraph in the Special Rules section, the following text:

H04S4xx

Replace with: The following symbols:

H04S2400/00 - H04S2420/13

H04S 5/00

Informative references

Insert: The following new row in the Informative references section:

Directing or focusing sound using electrical steering of transducer arrays, e.g. beam steering	G10K 11/34
--	------------

Special rules of classification

Delete: The existing paragraph in the Special Rules section.

Further detail is covered by the Indexing Code groups H04S 2400/00 and H04S 2420/00 and subgroups thereof. Classification is obligatory.

Replace with: The following new paragraph:

When classifying in H04S5/00, it is desirable to add the indexing codes of groups H04S 2400/00 and H04S 2420/00.