

EUROPEAN PATENT OFFICE
U.S. PATENT AND TRADEMARK OFFICE

CPC NOTICE OF CHANGES 491

DATE: FEBRUARY 1, 2018

PROJECT RP0507

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:	G06T	1/20
	G06T	9/00
	H04N	1/41
Notes Modified:	G06	Class
DEFINITIONS:		
Definitions Modified:	G06T	1/20
	G06T	9/00
	H04N	1/41

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)

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1. CLASSIFICATION SCHEME CHANGES

A. New, Modified or Deleted Group(s)

SUBCLASS G06T - IMAGE DATA PROCESSING OR GENERATION, IN GENERAL

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	G06T1/20	1	Processor architectures; Processor configuration, e.g. pipelining	
M	G06T9/00	0	Image coding, e.g. from bit-mapped to non bit-mapped (bandwidth or redundancy reduction for static pictures H04N1/41; coding or decoding of static colour picture signals H04N1/64; methods or arrangements for coding, decoding, compressing or decompressing digital video signals H04N19/00)	

SUBCLASS H04N - PICTORIAL COMMUNICATION, e.g. TELEVISION

<u>Type*</u>	<u>Symbol</u>	<u>Indent Level Number of dots (e.g. 0, 1, 2)</u>	<u>Title (new or modified)</u> <u>“CPC only” text should normally be enclosed in {curly brackets}**</u>	<u>Transferred to#</u>
M	H04N1/41	1	Bandwidth or redundancy reduction (by scanning H04N 1/17{; methods or arrangements for coding, decoding, compressing or decompressing digital video signals H04N 19/00})	

*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.

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- 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.
- #“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”.

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C. New, Modified or Deleted Note(s)

CLASS G06 - COMPUTING; CALCULATING; COUNTING

<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
M	G06	<p>Attention is drawn to the notes (particularly the definition of the term "variable") on page [G3] of the Int.Cl. In this class:</p> <ul style="list-style-type: none"> • The term "data" is understood to be synonymous with "information", and the term "information" is therefore not used in G06C; • The terms "calculating" and "computing" are both understood to include, inter alia, operations on numerical values and on data expressed in numerical form; of these words "computing" is used throughout the class. <p>"Computation" is derived from this interpretation of "computing". In the French language the word "calcul" will serve for either word;</p> <ul style="list-style-type: none"> • In those subclasses which include simulators: <ul style="list-style-type: none"> • a simulator in G06 is concerned with the mathematics of computing the existing or anticipated conditions within the real device or system; • Control functions derived from simulators are not in G06 but are generally in G05, although they may be in the subclass for the device controlled; <ul style="list-style-type: none"> • measurement of an individual variable to serve as an input to a simulator is in G01 { 21E; 42; 119 } • a simulator is regarded as a teaching or training device proper to G09 if the simulator gives perceptible sensations having a likeness to the sensations the student would experience in reality in response to actions taken by him. Simulators which demonstrate, by means involving 	<p>1. This class <u>covers</u>:</p> <ul style="list-style-type: none"> • simulators which are concerned with the mathematics of computing the existing or anticipated conditions within the real device or system; • simulators which demonstrate, by means involving computing, the function of apparatus or of a system, if no provision exists elsewhere; • image data processing or generation. <p>2. This class <u>does not cover</u>:</p> <ul style="list-style-type: none"> • combinations of writing implements with computing devices, which are covered by group B43K29/08; • control functions derived from simulators, in general, which are covered by class G05, although such functions may be covered by the subclass of this class for the device controlled; • measurement or analysis of an individual variable to serve as an input to a simulator, which is covered by class G01; • simulators regarded as teaching or training devices which is the case if they give perceptible sensations having a likeness to the sensations a student would experience in reality in response to actions taken by him. Such simulators are covered by class G09; • components of simulators, if identical with real devices or machines, which are covered by the relevant subclass for these devices or machines and not by class G09.

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<u>Type*</u>	<u>Location</u>	<u>Old Note</u>	<u>New/Modified Note</u>
		<p>computing, the functioning of apparatus or of a system are in G06, if no provision exists elsewhere. Components of simulators, if identical with real devices or machines, are classified in the relevant subclass for these devices or machines and not in G06 or G09;</p> <ul style="list-style-type: none"> • a simulator may use the same time scale as the real device or operate on an expanded or compressed time scale; • models of real devices to reduced or expanded scales are not regarded as simulators • The term "record carrier" is understood to mean a body, such as a cylinder, disc, card, tape or wire, capable of permanently holding information, which can be read-off by a sensing element movable relative to the recorded information. 	<p>3. In this class, the following terms or expressions are used with the meanings indicated:</p> <ul style="list-style-type: none"> • "data" is used as the synonym of "information". Therefore, the term "information" is not used in subclasses G06C, G06F or G06Q; • "calculating or computing" includes, <u>inter alia</u>, operations on numerical values and on data expressed in numerical form. Of these terms "computing" is used throughout the class; • "computation" is derived from this interpretation of "computing". In the French language the term "calcul" will serve for either term; • "simulator" is a device which may use the same time scale as the real device or operate on an expanded or compressed time scale. In interpreting this term models of real devices to reduced or expanded scales are not regarded as simulators; • "record carrier" means a body, such as a cylinder, disc, card, tape, or wire, capable of permanently holding information, which can be read-off by a sensing element movable relative to the recorded information. <p>4. Attention is drawn to the Notes following the title of section G, especially as regards the definition of the term "variable".</p>

*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)

G06T1/20

Definition statement

Insert the following text as the second statement in the list.

- Graphics pipelines.

Delete from the text beginning with “Illustrative example: ...”, the following text:

(EP1495412 – DEERING MICHAEL F)

References

Delete the entire Limiting references section.

Insert the following new Informative references section:

Informative references

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

Architectures of general purpose stored program computers	G06F 15/76
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Insert the following new Glossary of terms section:

Glossary of terms

In this place, the following terms or expressions are used with the meaning indicated:

Pipelining	the use of a sequence (pipeline) of image processing stages for execution of instructions in a series of units, arranged so that several units can be used for simultaneously processing appropriate parts of several instructions.
Multiprocessor	processor arrangements comprising a computer network consisting of two or more processors for the simultaneous execution of two or more programs or sequences of instructions.

Insert the following new Synonyms and Keywords section:

Synonyms and Keywords

In patent documents, the following abbreviations are often used:

GPU	Graphics Processing Unit
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G06T9/00

Limiting references

Delete the existing rows in the Limiting references table.

Replace with the following new rows.

Bandwidth or redundancy reduction for static pictures	H04N 1/41
Coding or decoding of static colour picture signals	H04N 1/64
Methods or arrangements for coding, decoding, compressing or decompressing digital video signals	H04N 19/00
Model based coding, e.g. using a 3D model or shape/contour coding	H04N 19/20

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Informative references**Delete** the existing rows in the Informative references table.**Replace** with the following new rows.

Computer aided design	G06F17/50
Model based coding	G06T15/00, G06T17/00
Model based coding using a 3D model	G06T15/00, G06T17/00,
Animation	G06T13/00
Rendering of computer graphics data	G06T15/00
Modeling of computer graphics data	G06T17/00
Manipulation 3D objects	G06T19/00
Re-meshing for manipulation, editing purpose	G06T17/205
Pattern recognition	G06K9/00
Pattern recognition by contour coding	G06K9/48
Coding or decoding, in general	H03M
Compression in general	H03M1/00
Transmission of TV signals	H04N7/24
Selective content distribution	H04N21/00

H04N 1/41**Definition statement****Delete** the extra period after “e.g..” in the Definition statement paragraph.

Delete the following misspelled words in the Definition statement paragraph.

“wihtin” and “mehtods”

Replace with the following correctly spelled words:

“within” and “methods”

Limiting references

Insert the following two new rows in the existing Limiting references table:

For mixed image compression	H04N 19/12
Bandwidth or redundancy reduction by scanning	H04N 1/17

Informative references

Delete the row “For mixed image compression H04N 19/12” from the existing Informative references table.

Insert the following three new rows in the existing Informative references table.

Bandwidth or redundancy reduction for data acquisition	G06F 17/40
Data Compression in general	H03M 7/30
Coding for image data processing in general	G06T 9/00