

**REVISION PROJECT FILE/
DOSSIER DE PROJET DE RÉVISION**

**ELECTRICAL FIELD/
DOMAINE DE L'ÉLECTRICITÉ**



IPC/A 012
ORIGINAL: English/French
DATE: 02.06.2009

WORLD INTELLECTUAL PROPERTY ORGANIZATION
ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE
GENEVA/GENÈVE

COMMITTEE OF EXPERTS OF THE IPC UNION
COMITÉ D'EXPERTS DE L'UNION DE L'IPC

AL REVISION PROJECT FILE
DOSSIER DE PROJET RÉVISION NIVEAU ÉLEVÉ

PROPOSAL BY : PROPOSITION DE :	EP	IPC AREA: DOMAINE DE LA CIB :	G06T
RAPPORTEUR :	EP	TECHNICAL FIELD : DOMAINE TECHNIQUE :	E

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Proposal - scheme	Proposition - schéma	EP	26.11.2007
2	Working Group Decisions		IB	14.01.2008
3	Comments	Observations	US	19.03.2008
4	Comments	Observations	JP	25.03.2008
5	Comments	Observations	EP	26.03.2008
6	Comments	Observations	RU	31.03.2008
7	Comments	Observations	DE	31.03.2008
8	Comments	Observations	US	02.04.2008
9	Comments	Observations	JP	08.04.2008
10	Decision of the subcommittee	Décision du sous-comité	IB	14.04.2008
11	Proposal - standardised sequence		US	22.05.2008
12	Decision of the subcommittee	Décision du sous-comité	IB	27.10.2008
13	Rapporteur report	Rapport du rapporteur	EP	04.11.2008
14	Rapporteur proposal	Proposition du rapporteur	EP	04.11.2008
15	Comments	Observations	JP	11.11.2008
16	Rapporteur proposal	Proposition du rapporteur	EP	11.11.2008
17	Technical Annexes		IB	23.01.2009

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
18	Comments	Observations	IB	30.01.2009
19	Comments	Observations	JP	09.02.2009
20	Rapporteur report	Rapport du rapporteur	EP	13.02.2009
21	Rapporteur proposal	Proposition du rapporteur	EP	13.02.2009
22	Rapporteur summary for next ALS		EP	16.02.2009
23	Comments	Observations	JP	10.03.2009
24	Decision of the subcommittee	Décision du sous-comité	IB	24.03.2009
25	List of cross references	Liste des renvois	IB	08.04.2009
26	Proposal - definitions	Proposition - définitions	EP	28.04.2009
27	Proposal - RCL	Proposition - RCL	EP	29.04.2009
28	French version	Version française	IB	29.04.2009
29	Comments - French version	Observations - Version française	EP	29.04.2009
30	Comments - French version	Observations - Version française	FR	20.05.2009
31	Comments - RCL and cross references, definitions	Observations - RCL et des renvois, définitions	JP	20.05.2009

b) A012 (G06T)

Annex 3

Action Points

AP	Reference Meeting	Description	To report	Target Date
31	IPC/ALS/5	<u>A012</u> (G06T - T023) US TO POST A PROPOSAL FOR A REVISED STANDARDISED SEQUENCE COVERING THE WHOLE SUBCLASS G06T	US	Completed
48	IPC/ALS/6	A012: EP TO POST RAPPORTEUR REPORT AND PROPOSAL	EP	Completed

DECISIONS OF SESSION / DÉCISIONS PAR SESSION SC/07

ANNEX 3E G06T [Project-Rapporteur : A012/EP <SC07>
1

adopt M 11/00 ~~Two dimensional (2D) image generation, e.g. from a description to a bit-mapped image~~ 2D [Two Dimensional] image generation

adopt M 11/20 • Drawing from basic elements, e.g. ~~line, circle, chart~~ *lines or circles*
AL

adopt M 11/40 • Filling a planar surface, ~~i.e. by adding~~ *by adding surface attributes, e.g. colour or texture*
AL

adopt 11/60 < Advanced-to-core >
AL

adopt 11/80 < Advanced-to-core >
AL

adopt C 13/00 **Animation** ~~effects in two dimensional (2D) images, e.g. using sprites~~
CL

adopt N 13/20 • 3D [*Three Dimensional*] animation
AL

adopt N 13/40 • • of characters, e.g. humans, animals or virtual beings
AL

adopt N 13/60 • • of natural phenomena, e.g. rain, snow, water or plants
AL

adopt N 13/80 • 2D animation, e.g. using sprites
AL

adopt M 15/00 ~~Three dimensional (3D) image rendering, e.g. from a model to a bit-mapped image~~ *3D [*Three Dimensional*] image rendering*
CL

adopt N 15/02 • Non-photorealistic rendering
AL

adopt N 15/04 • Texture mapping
AL

adopt N 15/06 • Ray-tracing
AL

adopt N 15/08 • Volume rendering
AL

adopt 15/10 < Advanced-to-core >
AL

adopt M 15/50 • Lighting effects, ~~e.g. shading~~
AL

adopt N 15/55 • • Radiosity
AL

adopt M 15/60 • • ~~Shadowing~~ *Shadow generation*
AL

adopt D 15/70 (transferred to [G06T 13/00-G06T 13/60](#))
CL

adopt N 15/80 • • Shading
AL

adopt N 15/83 • • • Phong shading
AL

adopt N 15/87 • • • *Gouraud shading*
AL

adopt M 17/00 ~~Three-dimensional (3D) modelling, e.g. data description of 3D objects~~
CL *3D modelling for computer graphics*

adopt N 17/05 • *Geographic models*
AL

adopt M 17/10 • ~~Constructive solid geometry (CSG) using solid primitives~~ *Volume description, e.g. cylinders, cubes or using CSG [Constructive Solid Geometry]*
AL

adopt M 17/20 • ~~Finite element generation, e.g. wire frame surface description~~ *Wire-frame description, e.g. polygonalisation or tessellation*
AL

adopt M 17/30 • ~~Polynomial~~ *Surface description, e.g. polynomial* surface description
AL

adopt D 17/40 (transferred to [G06T 19/00-G06T 19/20](#))
CL

adopt D 17/50 (transferred to [G06T 17/05](#))
CL

adopt N 19/00 *Manipulating 3D models or images for computer graphics*
CL

adopt N 19/20 • *Editing of 3D images, e.g. changing shapes or colours, aligning objects or positioning parts*
AL

WORLD INTELLECTUAL PROPERTY ORGANIZATION	
IPC ADVANCED LEVEL SUBCOMMITTEE	
Project: A 012: G06T List of cross references	Date: April 6, 2009

References affected by revision project A012 (G06T)

Subclass index

GENERAL PURPOSE IMAGE DATA PROCESSING	1/00
GEOMETRIC IMAGE TRANSFORMATION IN THE PLANE OF THE IMAGE	3/00
IMAGE ENHANCEMENT OR RESTORATION	5/00
IMAGE ANALYSIS	7/00
IMAGE CODING	9/00
2D [TWO DIMENSIONAL] (~~2D~~) IMAGE GENERATION	11/00
~~ANIMATION EFFECTS IN TWO DIMENSIONAL (2D) IMAGES~~	13/00
3D [THREE DIMENSIONAL] (~~3D~~) IMAGE RENDERING	15/00
~~THREE DIMENSIONAL (3D) MODELLING FOR COMPUTER GRAPHICS~~	17/00
MANIPULATING 3D MODELS OR IMAGES FOR COMPUTER GRAPHICS	19/00

Mod. or deleted existing group	Ref to this group	Comment
G06T 11/60	None	
G06T 11/80	None	
G06T 13/00	None	
G06T 15/10	None	
G06T 15/70	None	
G06T 17/40	None	
G06T 17/50	None	

IPC Revision WG – Definition Project EPO Rapporteur Proposal	Project: A012
	Subclass: G06T
	Date : 18/05/2009

G06T

Image data processing or generation, in general

Definition statement

This [subclass](#) covers:

Processor architectures or memory management for general purpose image data processing.

Geometric image transformations.

Image enhancement or analysis.

Image coding.

Two-dimensional image generation.

Three-dimensional image rendering, image modelling or manipulation for computer graphics.

Animation.

Relationship between large subject matter areas

None.

References relevant to classification in this subclass

This [subclass](#) does not cover:

Photogrammetry or videogrammetry	G01C 11/00
Computer-aided design	G06F 17/50
Reading or recognising printed or written characters or recognising patterns, e.g. fingerprints	G06K 9/00
Scanning, transmission or reproduction of documents or the like	H04N 1/00
Video signal compression	H04N 7/26

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

Simulators for teaching or training purposes	G09B 9/00
Apparatus for radiation diagnosis	A61B 6/00
Car navigators, on-board computers	G01C 21/36

Places in relation to which this [subclass](#) is residual:

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Informative references

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

Aspects of games using an electronically generated display having two or more dimensions	A63F 13/00
Visual indicators, displays	G09F
Arrangements or circuits for controlling visual indicators, characterised by the display of individual graphic patterns using a bit-mapped memory	G09G 5/36
Image-producing devices, digital cameras	H04N 5/225

Special rules of classification within this subclass

None.

Glossary of terms

In this [subclass](#), the following terms (or expressions) are used with the meaning indicated:

2D	means two-dimensional
3D	means three-dimensional

Synonyms and Keywords

In patent documents the following abbreviations are often used:

LCD	Liquid Crystal Display
GUI	Graphical User Interface
VR	Virtual Reality
CAD	Computer-Aided Design
DCT	Discrete Cosine Transform

Principal Directorate Patent Grant Automation - Directorate Classification		
Project: A012	Subject: Image Processing	IPC range: G06T
Proposal RCL		29 April 2009

RCL (Revision Concordance List) – G06T

	from	to
	G06T 13/00	G06T 13/00, 13/80
	G06T 15/00	G06T 15/00-15/02
	G06T 15/00-15/20	G06T 15/04
	G06T 15/00-15/50	G06T 15/06
	G06T 15/00-15/10	G06T 15/08
	G06T 15/50	G06T 15/50-15/87
D	G06T 15/70	G06T 13/00-13/60
D	G06T 17/40	G06T 19/00-19/20
D	G06T 17/50	G06T 17/05

ANNEXE 1E,F	G06T	[Projet-Rapporteur : A012/EP]	<SC07>
<i>EN:</i> 11/00 adopt CL , M	2D [Two Dimensional] image generation		Génération d'images 2D [bidimensionnelles]
<i>EN:</i> 11/20 adopt AL , M	• Drawing from basic elements, e.g. lines or circles		Traçage à partir d'éléments de base, p.ex. de lignes ou de cercles
<i>EN:</i> 11/40 adopt AL , M	• Filling a planar surface by adding surface attributes, e.g. colour or texture		Remplissage d'une surface plane par addition d'attributs de surface, p.ex. de couleur ou de texture
<i>EN:</i> 11/60 adopt AL ,	< Advanced-to-core >		Élevé à de base
<i>EN:</i> 11/80 adopt AL ,	< Advanced-to-core >		Élevé à de base
<i>EN:</i> 13/00 adopt CL , C	Animation		Animation
<i>EN:</i> 13/20 adopt AL , N	• 3D [Three Dimensional] animation		Animation 3D [tridimensionnelle]
<i>EN:</i> 13/40 adopt AL , N	• • of characters, e.g. humans, animals or virtual beings		de personnages, p.ex. d'êtres humains, d'animaux ou d'êtres virtuels
<i>EN:</i> 13/60 adopt AL , N	• • of natural phenomena, e.g. rain, snow, water or plants		de phénomènes naturels, p.ex. la pluie, la neige, l'eau ou les plantes
<i>EN:</i> 13/80 adopt AL , N	• 2D animation, e.g. using sprites		Animation 2D [bidimensionnelle], p.ex utilisant des motifs graphiques programmables
<i>EN:</i> 15/00 adopt CL , M	3D [Three Dimensional] image rendering		Rendu d'images 3D [tridimensionnelles]
<i>EN:</i> 15/02 adopt AL , N	• Non-photorealistic rendering		Rendu non photoréaliste
<i>EN:</i> 15/04 adopt AL , N	• Texture mapping		Mappage de texture
<i>EN:</i> 15/06 adopt AL , N	• Ray-tracing		Traçage de rayon
<i>EN:</i> 15/08 adopt AL , N	• Volume rendering		Rendu de volume
<i>EN:</i> 15/10 adopt	< Advanced-to-core >		Élevé à de base

AL ,			
EN: 15/50 adopt AL , M	· Lighting effects		Effets de lumière
EN: 15/55 adopt AL , N	· · Radiosity		Radiosité
EN: 15/60 adopt AL , M	· · Shadow generation		Génération d'ombres
EN: 15/70 adopt CL , D	(transferred to G06T 13/00-G06T 13/60)		(transféré en G06T 13/00-G06T 13/60)
EN: 15/80 adopt AL , N	· · Shading		Ombrage
EN: 15/83 adopt AL , N	· · · Phong shading		Ombrage Phong
EN: 15/87 adopt AL , N	· · · Gouraud shading		Ombrage Gouraud
EN: 17/00 adopt CL , M	3D modelling for computer graphics		Modélisation 3D pour infographie
EN: 17/05 adopt AL , N	· Geographic models		Modèles géographiques
EN: 17/10 adopt AL , M	· Volume description, e.g. cylinders, cubes or using CSG [Constructive Solid Geometry]		Description de volumes, p.ex. de cylindres, de cubes ou utilisant la GSC [géométrie solide constructive]
EN: 17/20 adopt AL , M	· Wire-frame description, e.g. polygonalisation or tessellation		Description filaire, p.ex. polygonalisation ou tessellation
EN: 17/30 adopt AL , M	· Surface description, e.g. polynomial surface description		Description de surfaces, p.ex. description de surfaces polynomiales
EN: 17/40 adopt CL , D	(transferred to G06T 19/00-G06T 19/20)		(transféré en G06T 19/00-G06T 19/20)
EN: 17/50 adopt CL , D	(transferred to G06T 17/05)		(transféré en G06T 17/05)
EN: 19/00 adopt CL , N	Manipulating 3D models or images for computer graphics		Manipulation de modèles ou d'images 3D pour infographie
EN: 19/20 adopt AL , N	· Editing of 3D images, e.g. changing shapes or colours, aligning objects or positioning parts		Édition d'images 3D, p.ex. modification de formes ou de couleurs, alignement d'objets ou positionnements de parties

Schéma existant pour aide à la traduction.

	generation, e.g. from a description to a bit-mapped image [6]	p.ex. à partir d'une description pour obtenir une image à mappage binaire [6]	
	G06T 11/20	• Drawing from basic elements, e.g. line, circle, chart [6]	Traçage à partir d'éléments de base, p.ex. d'une ligne, d'un cercle, d'un diagramme [6]
	G06T 11/40	• Filling a planar surface, i.e. by adding colour or texture [6]	Remplissage d'une surface plane, c.à d. par addition de couleur ou de texture [6]
	G06T 11/60	• Editing figures and text; Combining figures or text [6]	Edition de figures et de texte; Combinaison de figures ou de texte [6]
	G06T 11/80	• Creating or modifying a manually drawn or painted image using a manual input device, e.g. mouse, light pen, direction keys on keyboard [6]	Création ou modification d'une image dessinée ou peinte à la main en utilisant un dispositif manuel d'entrée, p.ex. une souris, un crayon lumineux, des touches de direction sur le clavier [6]
	G06T 13/00	Animation effects in two dimensional (2D) images, e.g. using sprites [6]	Effets d'animation en deux dimensions (2D), p.ex. en utilisant des motifs programmés [6]
	G06T 15/00	Three dimensional (3D) image rendering, e.g. from a model to a bit-mapped image [6]	Rendu d'images tridimensionnelles (3D), p.ex. à partir d'un modèle pour obtenir une image à mappage binaire [6]
	G06T 15/10	• Geometric effects [6]	Effets géométriques [6]
	G06T 15/20	• • Perspective computation [6]	Calcul de perspectives [6]
	G06T 15/30	• • Clipping [6]	Délimitation [6]
	G06T 15/40	• • Hidden part removal [6]	Suppression de parties cachées [6]
	G06T 15/50	• Lighting effects, e.g. shading [6]	Effets de lumière, p.ex. ombrage [6]
	G06T 15/60	• • Shadowing [6]	Projection des ombres [6]
	G06T 15/70	• Animation effects [6]	Effets d'animation [6]
	G06T 17/00	Three dimensional (3D) modelling, e.g. data description of 3D objects [6]	Modélisation tridimensionnelle (3D), p.ex. description par données d'objets tridimensionnels [6]
	G06T 17/10	• Constructive solid geometry (CSG) using solid primitives, e.g. cylinders, cubes [6]	Géométrie constructive de solide (CSG) utilisant des primitives de solides, p.ex. de cylindres, de cubes [6]
	G06T 17/20	• Finite element generation, e.g. wire-frame surface description [6]	Génération d'élément fini, p.ex. description de surface par grillage [6]
	G06T 17/30	• Polynomial surface description [6]	Description de surface polynomiale [6]
	G06T 17/40	• Manipulating 3D images, e.g. using CAD graphics workstations [6]	Manipulation d'images tridimensionnelles (3D), p.ex. utilisant des postes de travail graphiques pour CAO [6]
	G06T 17/50	• Geographic models [6]	Modèles géographiques [6]

Principal Directorate Patent Grant Automation - Directorate Classification		
Project: A012	Subject: Image Processing	IPC range: G06T
Comments on French Version		29 April 2009

Ref: annex 28 (FV by IB)

Please find the EPO comments in the last column.

EPO COMMENTS (blank = OK)

EN: 11/00 adopt CL , M	2D [Two Dimensional] image generation	Génération d'images 2D [bidimensionnelles]	
EN: 11/20 adopt AL , M	· Drawing from basic elements, e.g. lines or circles	Traçage à partir d'éléments de base, p.ex. de lignes ou de cercles	
EN: 11/40 adopt AL , M	· Filling a planar surface by adding surface attributes, e.g. colour or texture	Remplissage d'une surface plane par addition d'attributs de surface, p.ex. de couleur ou de texture	
EN: 11/60 adopt AL ,	< Advanced-to-core >	Élevé à de base	<i>Du niveau Avancé au niveau Base</i>
EN: 11/80 adopt AL ,	< Advanced-to-core >	Élevé à de base	<i>Du niveau Avancé au niveau Base</i>
EN: 13/00 adopt CL , C	Animation	Animation	
EN: 13/20 adopt AL , N	· 3D [Three Dimensional] animation	Animation 3D [tridimensionnelle]	
EN: 13/40 adopt AL , N	· · of characters, e.g. humans, animals or virtual beings	de personnages, p.ex. d'êtres humains, d'animaux ou d'êtres virtuels	
EN: 13/60 adopt AL , N	· · of natural phenomena, e.g. rain, snow, water or plants	de phénomènes naturels, p.ex. la pluie, la neige, l'eau ou les plantes	
EN: 13/80 adopt AL , N	· 2D animation, e.g. using sprites	Animation 2D [bidimensionnelle], p.ex. utilisant des motifs graphiques programmables	
EN: 15/00 adopt CL ,	3D [Three Dimensional] image rendering	Rendu d'images 3D [tridimensionnelles]	

M

EN: 15/02 · *Non-photorealistic rendering*
adopt
AL ,
N

Rendu non photoréaliste

EN: 15/04 · *Texture mapping*
adopt
AL ,
N

Mappage de texture

Projection de texture

EN: 15/06 · *Ray-tracing*
adopt
AL ,
N

Traçage de rayon

Ray-tracing also in FR ?

EN: 15/08 · *Volume rendering*
adopt
AL ,
N

Rendu de volume

EN: 15/10 < *Advanced-to-core* >
adopt
AL ,

Élevé à de base

Du niveau Avancé au niveau Base

EN: 15/50 · *Lighting effects*
adopt
AL ,
M

Effets de lumière

EN: 15/55 · · *Radiosity*
adopt
AL ,
N

Radiosité

EN: 15/60 · · *Shadow generation*
adopt
AL ,
M

Génération d'ombres

EN: 15/70 (transferred to **G06T 13/00-G06T 13/60**)
adopt
CL ,
D

(transféré en **G06T 13/00-G06T 13/60**)

EN: 15/80 · · *Shading*
adopt
AL ,
N

Ombrage

EN: 15/83 · · · *Phong shading*
adopt
AL ,
N

Ombrage Phong

Ombrage de type Phong

EN: 15/87 · · · *Gouraud shading*
adopt
AL ,
N

Ombrage Gouraud

Ombrage de type Gouraud

EN: 17/00 **3D modelling for computer graphics**
adopt
CL ,
M

Modélisation 3D pour infographie

EN: 17/05 · *Geographic models*
adopt
AL ,
N

Modèles géographiques

EN: 17/10 adopt AL , M	• Volume description, e.g. cylinders, cubes or using CSG [Constructive Solid Geometry]	Description de volumes, p.ex. de cylindres, de cubes ou utilisant la GSC [géométrie solide constructive]	<i>Description à partir de volumes ---</i>
EN: 17/20 adopt AL , M	• Wire-frame description, e.g. polygonalisation or tessellation	Description filaire, p.ex. polygonalisation ou tessellation	
EN: 17/30 adopt AL , M	• Surface description, e.g. polynomial surface description	Description de surfaces, p.ex. description de surfaces polynomiales	<i>Description à partir de surfaces ---</i>
EN: 17/40 adopt CL , D	(transferred to G06T 19/00-G06T 19/20)	(transféré en G06T 19/00-G06T 19/20)	
EN: 17/50 adopt CL , D	(transferred to G06T 17/05)	(transféré en G06T 17/05)	
EN: 19/00 adopt CL , N	Manipulating 3D models or images for computer graphics	Manipulation de modèles ou d'images 3D pour infographie	
EN: 19/20 adopt AL , N	• Editing of 3D images, e.g. changing shapes or colours, aligning objects or positioning parts	Édition d'images 3D, p.ex. modification de formes ou de couleurs, alignement d'objets ou positionnements de parties	

Projet IPC / **A012**
Sous-classe **G06T**

OBSERVATIONS SUR LA VERSION FRANÇAISE

Réf. : *Annexes 28 et 29 du dossier de projet*

Nous sommes d'accord avec la version française présentée par le Bureau International.

Nous avons cependant quelques points à préciser :

15/04 : 'Mappage de structure' **OK**.

Harmonisation du vocabulaire : Le terme 'mapping' est traduit par 'mappage' dans cette sous-classe (cf. CIB8 G06T9/00, 15/00) et en G09G.

15/06 : 'Lancer de rayon' conviendrait au lieu de 'Traçage de rayon'.

17/10 Description de volumes **OK**

17/30 Description de surfaces **OK** (cf. CIB8 17/30)

JAPAN PATENT OFFICE

May 20, 2009

Project: A012

Subclass: G06T

JP Comment

JP thanks EP Rapporteur for the Proposal-definition for subclass G06T which was posted as Annex 26 of Project A012. JP would like to express the following opinion.

1. "Definition statement"

The 6th item under the subheading of "*This subclass covers*" reads as follows.

"Three-dimensional image rendering, image modelling or manipulation for computer graphics"

JP finds the term "image modelling" technically imprecise and would propose that this item be amended as follows by removing the word "image" before "modelling."

"Three-dimensional image rendering, modelling or manipulation for computer graphics"

2. "References relevant to classification in this subclass" and "Informative references"

As the result of discussion among JPO examiners in charge of G06T and those in charge of referenced groups, some references in the Rapporteur-definition were found to be inappropriate. JP would like to propose to replace these two sections with the following JP plan. JP specifically opposes to use different wordings than the titles in the IPC scheme for the title/description of referenced groups. It will only cause confusion among users.

--- Quote: JP plan for "References" sections ---**References relevant to classification in this subclass**

This subclass does not cover:

Photogrammetry or videogrammetry	G01C 11/00
Computer-aided design	G06F 17/50
Scanning, transmission or reproduction of documents or the like	H04N 1/00

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

--	--

Places in relation to which this subclass is residual:

--	--

Informative references

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

Aspects of games using an electronically generated display having two or more dimensions	A63F 13/00
Displaying; Advertising; Signs; Labels or Name-plates; Seals	G09F
Control arrangements or circuits for visual indicators common to cathode-ray tube indicators and other visual indicators characterised by the display of individual graphic patterns using a bit-mapped memory	G09G 5/36
Television cameras	H04N 5/225
Simulators for teaching or training purposes	G09B 9/00
Apparatus for radiation diagnosis	A61B 6/00

--- Unquote: JP plan for “References sections” ---

3. Necessity of Main-group Definitions

JP would like to request that EP Rapporteur prepare and submit Proposal-definitions for main groups of G06T 11/00, 13/00, 15/00, 17/00 and 19/00 as has been discussed in Project T023. JP would wish that the contents of Annex 51 ~ 53 therein be taken into account.

[END]



IPC/A 014
ORIGINAL: English/French
DATE: 02.06.2009

WORLD INTELLECTUAL PROPERTY ORGANIZATION
ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE
GENEVA/GENÈVE

COMMITTEE OF EXPERTS OF THE IPC UNION
COMITÉ D'EXPERTS DE L'UNION DE L'IPC

AL REVISION PROJECT FILE
DOSSIER DE PROJET RÉVISION NIVEAU ÉLEVÉ

PROPOSAL BY : PROPOSITION DE :	EP	IPC AREA: DOMAINE DE LA CIB :	H04N 21/00
RAPPORTEUR :	EP	TECHNICAL FIELD : DOMAINE TECHNIQUE :	E

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Decision of the subcommittee	Décision du sous-comité	IB	14.04.2008
2	Rapporteur proposal	Proposition du rapporteur	EP	09.07.2008
3	Comments	Observations	US	08.09.2008
4	Comments	Observations	JP	10.09.2008
5	Comments	Observations	RU	20.10.2008
6	Decision of the subcommittee	Décision du sous-comité	IB	27.10.2008
7	Comments	Observations	IB	22.01.2009
8	Comments	Observations	RU	09.02.2009
9	Comments	Observations	EP	16.02.2009
10	Rapporteur report	Rapport du rapporteur	EP	16.02.2009
11	Proposal - scheme	Proposition - schéma	EP	16.02.2009
12	Proposal - RCL	Proposition - RCL	EP	16.02.2009
13	Rapporteur summary for next ALS		EP	17.02.2009
14	Technical Annexes		IB	21.02.2009
15	Decision of the subcommittee	Décision du sous-comité	IB	24.03.2009
16	Proposal - RCL	Proposition - RCL	IB	08.04.2009
17	List of cross references	Liste des renvois	IB	08.04.2009

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
18	Comments	Observations	JP	21.05.2009
19	French version	Version française	EP	02.06.2009

IPC/ALS/7/09

EPO proposed a scheme change in Annex 11 and draft RCL in annex 12. After some minor clerical corrections, the scheme was adopted. EPO reviewed the references and removed the informative ones. All of the above were introduced into RIPCIS during the course of the meeting.

EPO to post draft Definitions by the end of March 2009, and to prepare the French version of the scheme by end of May 2009.

USPTO has a projected completion date of March 2011 for reclassification. Completion date for reclassification is under investigation at the JPO.

Action Points

ANNEX 5E H04N [Project-Rapporteur : A014/AT <SC07>
]

adopt C 7/00 **Television systems (details [H04N 3/00](#), [H04N 5/00](#)÷, specially adapted for colour television [H04N 11/00](#) ; stereoscopic television systems [H04N 13/00](#); selective content distribution [H04N 21/00](#))**

adopt C 7/16 • ~~Secrecy systems ; Subscription~~ Analogue secrecy systems ; Analogue subscription systems
CL

adopt C 7/24 • Systems for the transmission of television signals using pulse code modulation (**H04N 21/00 takes precedence**)
CL

adopt C 7/52 • • Systems for transmission of a pulse code modulated ~~video signal~~ with one or more other pulse code modulated signals, e.g. an audio ~~signal, a synchronising signal~~ signal or a synchronizing signal (assembling of a multiplex stream by combining a video stream with other content or additional data, remultiplexing of multiplex streams, insertion of stuffing bits into the multiplex stream, assembling of a packetized elementary stream at server side **H04N 21/236** ; disassembling of a multiplex stream, remultiplexing of multiplex streams, extraction or processing of Service Information, disassembling of packetized elementary stream at client side **H04N 21/434**)
CL

adopt D 7/58 (transferred to [H04N 21/2365](#), [H04N 21/434](#))
AL

adopt D 7/60 (transferred to [H04N 21/236](#), [H04N 21/434](#))
AL

adopt D 7/62 (transferred to [H04N 21/242](#), [H04N 21/431](#), [H04N 21/434](#), [H04N 21/8547](#))
AL

adopt N 21/00 **Selective content distribution, e.g. interactive television, VOD [Video On Demand]**
CL (broadcast communication [H04H](#); arrangements, apparatus, circuits or systems for communication control or processing being characterized by a protocol [H04L 29/06](#); real-time bi-directional transmission of motion video data [H04N 7/14](#))

adopt N Note 1. This group covers:
CL 21/00

- Interactive video distribution processes, systems, or elements thereof, which are characterized by point-to-multipoint system configurations, and which are mainly used for motion video data unidirectional distribution or delivery resulting from interactions between systems operators, e.g. access or service providers, or users e.g. subscribers, and system elements. [new.]
- Such systems include dedicated communication systems, such as television distribution systems, which primarily distribute or deliver motion video data in the manner indicated, which may, in addition, provide a framework for further, diverse data communications or services in either unidirectional or bi-directional form. However, video will occupy most of the downlink bandwidth in the distribution process. [new.]
- Typically, system operators interface with transmitter-side elements or users' interface with receiver-side elements in order to facilitate, through interaction with such elements, the dynamic control of data processing or data flow at various points in the system. This interaction is typically occasional or intermittent in nature. [new.]
- Processes, systems or elements thereof specially adapted to the generation, distribution and processing of data, which is either associated with video content, e.g. metadata, ratings, or related to the user or his environment and which has been actively or passively gathered. This data is either used to facilitate interaction or to alter or target the content. [new.]

2. *In this group, the first place priority rule is applied, i.e. at each hierarchical level, classification is made in the first appropriate place. [new.]*

adopt N 21/20 • Servers specifically adapted for the distribution of content, e.g. VOD servers;
AL Operations thereof

adopt N 21/21 • • Server components or server architectures
AL

adopt N 21/214 • • • Specialised server platform, e.g. server located in an airplane, hotel
AL or hospital

adopt N 21/218 • • • Source of audio or video content, e.g. local disk arrays
AL

adopt N 21/2183 • • • • Cache memory
AL

adopt N 21/2187 • • • • Live feed
AL

adopt N 21/222 • • • Secondary servers, e.g. proxy server or cable television Head-end
AL

adopt N 21/2225 • • • • local VOD servers
AL

adopt N 21/226 • • • Internal components of the server
AL

adopt N 21/23 • • Processing of content or additional data; Elementary server operations; Server
AL middleware

adopt N 21/231 • • • Content storage operation, e.g. caching movies for short term storage,
AL replicating data over plural servers or prioritizing data for deletion

adopt N 21/2312 • • • • Data placement on disk arrays
AL

adopt N 21/2315 • • • • • using interleaving
AL

adopt N 21/2318 • • • • • using striping
AL

adopt N 21/232 • • • Content retrieval operation within server, e.g. reading video streams from disk
AL arrays

adopt N 21/233 • • • Processing of audio elementary streams
AL

adopt N 21/234 • • • Processing of video elementary streams, e.g. splicing of video streams or
AL manipulating MPEG-4 scene graphs (video encoding or transcoding
processes per se [H04N 7/26](#))

adopt N 21/2343 • • • • involving reformatting operations of video signals for distribution or
AL compliance with end-user requests or end-user device requirements

adopt N 21/2347 • • • • involving video stream encryption (arrangements for secret or secure
AL communication [H04L 9/00](#); analogue secrecy systems [H04N 7/16](#))

- adopt N 21/235 · · · *Processing of additional data, e.g. scrambling of additional data or processing content descriptors*
AL
- adopt N 21/236 · · · *Assembling of a multiplex stream, e.g. transport stream, by combining a video stream with other content or additional data, e.g. inserting a URL [Uniform Resource Locator] into a video stream, multiplexing software data into a video stream; Remultiplexing of multiplex streams; Insertion of stuffing bits into the multiplex stream, e.g. to obtain a constant bit-rate; Assembling of a packetized elementary stream*
AL
- adopt N 21/2362 · · · · *Generation or processing of SI [Service Information]*
AL
- adopt N 21/2365 · · · · *Multiplexing of several video streams*
AL
- adopt N 21/2368 · · · · *Multiplexing of audio and video streams*
AL
- adopt N 21/237 · · · *Communication with additional data server*
AL
- adopt N 21/238 · · · *Interfacing the downstream path of the transmission network, e.g. adapting the transmission rate of a video stream to network bandwidth; Processing of multiplex streams*
AL
- adopt N 21/2381 · · · · *Adapting the multiplex stream to a specific network, e.g. an IP [Internet Protocol] network*
AL
- adopt N 21/2383 · · · · *Channel coding of digital bit-stream, e.g. modulation*
AL
- adopt N 21/2385 · · · · *Channel allocation ([H04N 21/266](#) takes precedence) ; Bandwidth allocation ([H04N 21/24](#) takes precedence)*
AL
- adopt N 21/2387 · · · · *Stream processing in response to a playback request from an end-user, e.g. for trick-play*
AL
- adopt N 21/2389 · · · · *Multiplex stream processing, e.g. multiplex stream encrypting*
AL
- adopt N 21/239 · · · *Interfacing the upstream path of the transmission network, e.g. prioritizing client requests*
AL
- adopt N 21/24 · · · *Monitoring of processes or resources, e.g. monitoring of server load, available bandwidth or upstream requests*
AL
- adopt N 21/241 · · · *OS [Operating System] processes, e.g. server setup (arrangements for programme control [G06F 9/00](#))*
AL
- adopt N 21/242 · · · *Synchronization processes, e.g. processing of PCR [Program Clock References]*
AL
- adopt N 21/25 · · *Management operations performed by the server for facilitating the content distribution or administrating data related to end-users or client devices, e.g. end-user or client device authentication or learning user preferences for recommending movies*
AL
- adopt N 21/254 · · · *Management at additional data server, e.g. shopping server or rights management server*
AL

adopt N 21/2543 *Billing*
AL

adopt N 21/2547 *Third party billing, e.g. billing of advertiser*
AL

adopt N 21/258 *Client or end-user data management, e.g. managing client capabilities, user preferences or demographics or processing of multiple end-users preferences to derive collaborative data*
AL

adopt N 21/262 *Content or additional data distribution scheduling, e.g. sending additional data at off-peak times, updating software modules, calculating the carousel transmission frequency, delaying a video stream transmission or generating play-lists*
AL

adopt N 21/266 *Channel or content management, e.g. generation and management of keys and entitlement messages in a conditional access system or merging a VOD unicast channel into a multicast channel*
AL

adopt N 21/2662 *Controlling the complexity of the video stream, e.g. by scaling the resolution or bitrate of the video stream based on the client capabilities*
AL

adopt N 21/2665 *Gathering content from different sources, e.g. Internet and satellite*
AL

adopt N 21/2668 *Creating a channel for a dedicated end-user group, e.g. by inserting targeted commercials into a video stream based on end-user profiles*
AL

adopt N 21/27 . . . *Server based end-user applications*
AL

adopt N 21/274 *Storing end-user specific content or additional data in response to end-user request*
AL

adopt N 21/2743 *Video hosting of uploaded data from client*
AL

adopt N 21/2747 *Remote storage of video programs received via the downstream path, e.g. from the server*
AL

adopt N 21/278 *Content descriptor database or directory service for end-user access*
AL

adopt N 21/40 . . . *Client devices specifically adapted for the reception of, or interaction with, content, e.g. STB [set-top-box]; Operations thereof*
AL

adopt N 21/41 . . . *Structure of client; Structure of client peripherals*
AL

adopt N 21/414 *specialised client platforms, e.g. receiver in car or embedded in a mobile appliance*
AL

adopt N 21/4143 *PC [Personal Computer]*
AL

adopt N 21/4147 *PVR [Personal Video Recorder] ([H04N 5/76](#) takes precedence)*
AL

adopt N 21/418 *External card to be used in combination with the client device, e.g. for conditional access*
AL

adopt N 21/4185 *for payment*
AL

- adopt N 21/422 · · · *Input-only peripherals, e.g. GPS [Global Positioning System] (input arrangements or combined input and output arrangements for interaction between user and computer [G06F 3/01](#))*
AL
- adopt N 21/4223 · · · · *Cameras ([H04N 5/225](#) takes precedence)*
AL
- adopt N 21/4227 · · · · *Remote input by a user located remotely from the client device, e.g. at work*
AL
- adopt N 21/426 · · · *Internal components of the client ([H04N 5/44](#) takes precedence)*
AL
- adopt N 21/43 · · *Processing of content or additional data, e.g. demultiplexing additional data from a digital video stream; Elementary client operations, e.g. monitoring of home network or synchronizing decoder's clock; Client middleware*
AL
- adopt N 21/431 · · · *Generation of visual interfaces; Content or additional data rendering (receiver circuitry for displaying additional information [H04N 5/445](#))*
AL
- adopt N 21/432 · · · *Content retrieval operation from a local storage medium, e.g. hard-disk*
AL
- adopt N 21/433 · · · *Content storage operation, e.g. storage operation in response to a pause request or caching operations*
AL
- adopt N 21/4335 · · · · *Housekeeping operations, e.g. prioritizing content for deletion because of storage space restrictions*
AL
- adopt N 21/434 · · · *Disassembling of a multiplex stream, e.g. demultiplexing audio and video streams or extraction of additional data from a video stream; Remultiplexing of multiplex streams; Extraction or processing of SI; Disassembling of packetized elementary stream*
AL
- adopt N 21/435 · · · *Processing of additional data, e.g. decrypting of additional data or reconstructing software from modules extracted from the transport stream*
AL
- adopt N 21/436 · · · *Interfacing a local distribution network, e.g. communicating with another STB or inside the home*
AL
- adopt N 21/4363 · · · · *Adapting the video stream to a specific local network, e.g. a IEEE 1394 or Bluetooth network*
AL
- adopt N 21/4367 · · · · *Establishing a secure communication between the client and a peripheral device or smart card (arrangements for secret or secure communication [H04L 9/00](#); security arrangements for protecting computers or computer systems against unauthorised activity [G06F 21/00](#))*
AL
- adopt N 21/437 · · · *Interfacing the upstream path of the transmission network, e.g. for transmitting client requests to a VOD server*
AL
- adopt N 21/438 · · · *Interfacing the downstream path of the transmission network originating from a server, e.g. retrieving MPEG packets from an IP network*
AL
- adopt N 21/4385 · · · · *Multiplex stream processing, e.g. multiplex stream decrypting*
AL
- adopt N 21/439 · · · *Processing of audio elementary streams*
AL

- adopt N 21/44 · · · *Processing of video elementary streams, e.g. splicing a video clip retrieved from local storage with an incoming video stream or rendering scenes according to MPEG-4 scene graphs*
AL
- adopt N 21/4402 · · · · *involving reformatting operations of video signals for household redistribution, storage or real-time display*
AL
- adopt N 21/4405 · · · · *involving video stream decryption (arrangements for secret or secure communication [H04L 9/00](#))*
AL
- adopt N 21/4408 · · · · *involving video stream encryption, e.g. re-encrypting a decrypted video stream for redistribution in a home network (arrangements for secret or secure communication [H04L 9/00](#))*
AL
- adopt N 21/441 · · · *Acquiring end-user identification*
AL
- adopt N 21/4415 · · · · *using biometric characteristics of the user, e.g. by voice recognition or fingerprint scanning*
AL
- adopt N 21/442 · · · *Monitoring of processes or resources, e.g. detecting the failure of a recording device, monitoring the downstream bandwidth, the number of times a movie has been viewed or the storage space available from the internal hard disk*
AL
- adopt N 21/4425 · · · · *Monitoring of client processing errors or hardware failure (monitoring in electrical digital data processing [G06F 11/00](#))*
AL
- adopt N 21/443 · · · *OS processes, e.g. booting a STB, implementing a Java virtual machine in a STB or power management in a STB (arrangements for program loading or initiating [G06F 9/44](#))*
AL
- adopt N 21/45 · · *Management operations performed by the client for facilitating the reception of or the interaction with the content or administrating data related to the end-user or to the client device itself, e.g. learning user preferences for recommending movies or resolving scheduling conflicts*
AL
- adopt N 21/454 · · · *Content filtering, e.g. blocking advertisements*
AL
- adopt N 21/4545 · · · · *Input to filtering algorithms, e.g. filtering a region of the image*
AL
- adopt N 21/458 · · · *Scheduling content for creating a personalized stream, e.g. by combining a locally stored advertisement with an incoming stream; Updating operations, e.g. for OS modules*
AL
- adopt N 21/462 · · · *Content or additional data management e.g. creating a master electronic program guide from data received from the Internet and a Head-end or controlling the complexity of a video stream by scaling the resolution or bit-rate based on the client capabilities*
AL
- adopt N 21/4623 · · · · *Processing of entitlement messages, e.g. ECM [Entitlement Control Message] or EMM [Entitlement Management Message]*
AL
- adopt N 21/4627 · · · · *Rights management*
AL
- adopt N 21/466 · · · *Learning process for intelligent management, e.g. learning user preferences for recommending movies*
AL

adopt N 21/47 · · *End-user applications (interaction techniques for graphical user interfaces*
AL [G06F 3/048](#); receiver circuitry for displaying additional information [H04N 5/445](#))

adopt N 21/472 · · · *End-user interface for requesting content, additional data or services; End-*
AL *user interface for interacting with content, e.g. for content reservation or*
settting reminders, for requesting event notification or for manipulating
displayed content

adopt N 21/4722 · · · · *for requesting additional data associated with the content*
AL

adopt N 21/4725 · · · · · *using interactive regions of the image, e.g. hot spots*
AL

adopt N 21/4728 · · · · *for selecting a ROI [Region Of Interest], e.g. for requesting a higher*
AL *resolution version of a selected region*

adopt N 21/475 · · · *End-user interface for inputting end-user data, e.g. PIN [Personal*
AL *Identification Number] or preference data*

adopt N 21/478 · · · *Supplemental services, e.g. displaying phone caller identification or shopping*
AL *application*

adopt N 21/4782 · · · · *Web browsing*
AL

adopt N 21/4784 · · · · *receiving rewards*
AL

adopt N 21/4786 · · · · *e-mailing*
AL

adopt N 21/4788 · · · · *communicating with other users, e.g. chatting*
AL

adopt N 21/482 · · · *End-user interface for program selection*
AL

adopt N 21/485 · · · *End-user interface for client configuration*
AL

adopt N 21/488 · · · *Data services, e.g. news ticker*
AL

adopt N 21/60 · *Network structure or processes for video distribution between server and client or*
AL *between remote clients (data switching networks [H04L 12/00](#); wireless*
communication networks [H04W](#)) ; Control signaling between clients, server and
network components; Transmission of management data between server and client;
Communication details between server and client

adopt N 21/61 · · *Network physical structure; Signal processing ([H04B](#) takes precedence)*
AL

adopt N 21/63 · · *Control signaling between client, server and network components; Network*
AL *processes for video distribution between server and clients, e.g. transmitting*
basic layer and enhancement layers over different transmission paths, setting up
a peer-to-peer communication via Internet between remote STB's;
Communication protocols; Addressing

adopt N 21/633 · · · *Control signals issued by server directed to the network components or client*
AL

adopt N 21/6332 *directed to client*
AL

adopt N 21/6334 *for authorization, e.g. by transmitting a key (arrangements for secret or secure communication [H04L 9/00](#))*
AL

adopt N 21/6336 *directed to decoder*
AL

adopt N 21/6338 *directed to network*
AL

adopt N 21/637 . . . *Control signals issued by the client directed to the server or network components*
AL

adopt N 21/6371 *directed to network*
AL

adopt N 21/6373 *for rate control*
AL

adopt N 21/6375 *for requesting retransmission*
AL

adopt N 21/6377 *directed to server*
AL

adopt N 21/6379 *directed to encoder*
AL

adopt N 21/64 . . . *Addressing*
AL

adopt N 21/6402 *Address allocation for clients*
AL

adopt N 21/6405 *Multicasting*
AL

adopt N 21/6408 *Unicasting*
AL

adopt N 21/643 . . . *Communication protocols*
AL

adopt N 21/6433 *DSM-CC [Digital Storage Media - Command and Control Protocol]*
AL

adopt N 21/6437 *RTP [Real-time Transport Protocol]*
AL

adopt N 21/647 . . . *Control signaling between network components and server or clients; Network processes for video distribution between server and clients, e.g. controlling the quality of the video stream, by dropping packets, protecting content from unauthorized alteration within the network, monitoring of network load or bridging between two different networks, e.g. between IP and wireless*
AL

adopt N 21/65 . . . *transmission of management data between client and server*
AL

adopt N 21/654 . . . *transmission by server directed to the client*
AL

adopt N 21/6543 *for forcing some client operations, e.g. recording*
AL

adopt N 21/6547 *comprising parameters, e.g. for client setup*
AL

adopt N 21/658 *transmission by the client directed to the server*
AL

adopt N 21/6583 *Acknowledgement*
AL

adopt N 21/6587 *Control parameters, e.g. trick play commands or viewpoint selection*
AL

adopt N 21/80 . *Generation or processing of content or additional data by content creator*
AL *independently of the distribution process; Content per se*

adopt N 21/81 . . *Monomedia components thereof*
AL

adopt N 21/83 . . *Generation or processing of protective or descriptive data associated with*
AL *content; Content structuring*

adopt N 21/835 . . . *Generation of protective data, e.g. certificates*
AL

adopt N 21/8352 *involving content or source identification data, e.g. UMID [Unique*
AL *Material Identifier]*

adopt N 21/8355 *involving usage data, e.g. number of copies or viewings allowed*
AL

adopt N 21/8358 *involving watermark*
AL

adopt N 21/84 . . . *Generation or processing of descriptive data, e.g. content descriptors*
AL

adopt N 21/8405 *represented by keywords*
AL

adopt N 21/845 . . . *Structuring of content, e.g. decomposing content into time segments*
AL

adopt N 21/85 . . *Assembly of content; Generation of multimedia applications*
AL

adopt N 21/854 . . . *Content authoring*
AL

adopt N 21/8541 *involving branching, e.g. to different story endings*
AL

adopt N 21/8543 *using a description language, e.g. MHEG [Multimedia and Hypermedia*
AL *information coding Expert Group] or XML [eXtensible Markup Language]*

adopt N 21/8545 *for generating interactive applications*
AL

adopt N 21/8547 *involving timestamps for synchronizing content*
AL

adopt N 21/8549 · · · · *Creating video summaries, e.g. movie trailer*
AL

adopt N 21/858 · · · · *Linking data to content, e.g. by linking an URL to a video object or by creating*
AL *a hotspot*

WORLD INTELLECTUAL PROPERTY ORGANIZATION	
IPC ADVANCED LEVEL SUBCOMMITTEE	
Project: A 014 (H04N) RCL - Revision Concordance List	Date: April 6, 2009

Please note that AL groups are highlighted in yellow.

CL RCL

OLD	NEW	Comments
H04N 5/00	H04N 5/00, H04N 21/00	
H04N 7/00	H04N 7/00, H04N 21/00	
H04N 7/16	H04N 7/16, H04N 21/00	
H04N 7/24	H04N 7/24, H04N 21/00	
H04N 7/52	H04N 5/52, H04N 21/00	

AL RCL

OLD	NEW	Comments
H04N 5/00	H04N 5/00, H04N 21/20 – H04N 21/488	
H04N 7/00	H04N 7/00, H04N 21/00 – H04N 21/858	
H04N 7/16	H04N 7/16, H04N 21/00 - H04N 21/858	
H04N 7/24	H04N 7/24, H04N 21/00 - H04N 21/858	
H04N 7/52	H04N 7/52, H04N 21/236 - H04N 21/434	
H04N 7/58	H04N 21/2365, H04N 21/434	
H04N 7/60	H04N 21/236, H04N 21/434	
H04N 7/62	H04N 21/242, H04N 21/431, H04N 21/434, H01N 21/8547	

WORLD INTELLECTUAL PROPERTY ORGANIZATION	
IPC ADVANCED LEVEL SUBCOMMITTEE	
Project: A 014 ; H04N List of cross references	Date: April 8, 2009

References affected by revision project A014 (H04N)

Mod. or deleted existing group	Ref to this group		Comment
H04N 5/00	H04N 7/00	No change is needed	
H04N 7/00	None		
H04N 7/16	G07F 17/28	for radio apparatus (~~television subscription systems~~ H04N 7/16)	
	H04K 1/00	Secret communication (--- secret or subscription television systems H04N 7/16, H04N 21/00)	
H04N 7/24	H04N 5/04, H04N 5/917, H04N 7/12	No change is needed	
H04N 7/52	None		
H04N 7/58	None		
H04N 7/60	None		
H04N 7/62	None		

JAPAN PATENT OFFICE

May 21, 2009

Project: A014

Subclass: H04N

JP Comment

JP appreciates IB's posting of Proposal–RCL (Annex 16) and List of Cross References (Annex 17) for Project A014.

JP can support the contents of both documents with the only exception of the following line in the “AL RCL” table appearing in Annex 16.

IB Proposal

OLD	NEW	Comments
H04N 7/52	H04N 7/52, H04N 21/236 - H04N 21/434	

JP feels that the description in the “New” column for “Old” H04N 7/52 as above is a bit imprecise and that it would become more accurate or exact if it were amended as follows.

JP Proposal

OLD	NEW	Comments
H04N 7/52	H04N 7/52, H04N 21/236 - H04N 21/2368, H04N 21/434	

Having said that, nevertheless, JP is prepared to accept the IB proposed description if EP and other offices determined that the IB proposal were more appropriate than the JP proposal.

[END]

Principal Directorate Patent Grant Automation - Directorate Classification		
Project: A014 / C454	Subject: Selective content distribution	IPC range: H04N 21
Draft French Version		29 May 2009

CL C 5/00 *Détails des systèmes de télévision (détails du balayage ou leur combinaison avec la production des tensions d'alimentation [H04N 3/00](#); spécialement adaptés à la télévision en couleurs [H04N 9/00](#); serveurs spécialement adaptés à la distribution de contenu [H04N 21/20](#) ; clients spécialement adaptés à la réception ou l'interaction avec du contenu [H04N 21/40](#))*

CL C 7/00 *Systèmes de télévision (détails [H04N 3/00](#), [H04N 5/00](#) ÷, spécialement adaptés à la télévision en couleurs [H04N 11/00](#); systèmes de télévision stéréoscopiques [H04N 13/00](#); *distribution sélective de contenu [H04N 21/00](#)*)*

CL C 7/16 · *~~Systèmes à secret; Systèmes à abonnement~~ Systèmes à secret analogiques ; Systèmes à abonnement analogiques (systèmes à secret numériques ; systèmes à abonnement numériques [H04N 21/00](#))*

CL C 7/24 · *Systèmes pour la transmission de signaux de télévision utilisant la modulation par impulsions codées ([H04N 21/00 a priorité](#))*

CL C 7/52 · · *Systèmes pour la transmission d'un signal vidéo modulé par impulsions codées avec d'autres signaux modulés par impulsions codées, p.ex. un signal audio ou un signal de synchronisation (*assemblage d'un flux multiplexé en combinant un flux vidéo avec d'autres contenus ou données additionnelles, remultiplexage de flux multiplexés, insertion de bits de rembourrage dans le flux multiplexé, assemblage d'un flux élémentaire paquetisé au serveur [H04N 21/236](#) ; désassemblage d'un flux multiplexé, remultiplexage de flux multiplexés, extraction ou traitement d'informations de service, désassemblage d'un flux élémentaire paquetisé au client [H04N 21/434](#))**

AL D 7/58 (transféré vers [H04N 21/2365](#),[H04N 21/434](#))

AL D 7/60 (transféré vers [H04N 21/236](#),[H04N 21/434](#))

AL D 7/62 (transféré vers [H04N 21/242](#),[H04N 21/431](#),[H04N 21/434](#),[H04N 21/8547](#))

CL N 21/00 *Distribution de contenu sélective, p.ex. télévision interactive, VOD [Vidéo à la demande] (radiodiffusion [H04H](#); dispositions, appareils, circuits ou systèmes pour la commande ou le traitement de la communication caractérisés par un protocole [H04L 29/06](#); transmission bidirectionnelle de données vidéo en temps réel [H04N 7/14](#))*

1. **CL N 21/00** *Note*
Ce groupe couvre :
 - Procédés de distribution vidéo interactives, ou leurs éléments, caractérisés par une configuration de système point à multipoint et qui sont principalement employés pour la distribution ou diffusion unidirectionnelle de données vidéo provenant d'interactions entre opérateurs système (fournisseurs d'accès ou de services) ou utilisateurs (abonnés) et éléments système
 - De tels systèmes comprennent des systèmes de communication dédiés, tels que des systèmes de diffusion de télévision, qui distribuent ou délivrent des données vidéo de la façon indiquée, et qui peuvent, de plus, proposer un cadre pour d'autres communications ou services divers sous forme unidirectionnelle ou bidirectionnelle. Cependant, la vidéo occupera la majeure partie de la bande passante dans le processus de distribution.
 - Typiquement, des opérateurs système interagissent avec des éléments du transmetteur ou des utilisateurs interagissent avec des éléments du récepteur dans le but de faciliter, par interaction avec de tels éléments, le contrôle dynamique du traitement ou du flux de données à des points variés du système. Cette interaction est typiquement de nature occasionnelle ou intermittente.
 - Processus, systèmes ou éléments, particulièrement adaptés à la génération, distribution et au traitement de données, qui sont soit associées au contenu vidéo (p.ex. métadonnées, évaluations) ou liées à l'utilisateur ou son environnement et qui ont été rassemblées de façon active ou passive. Ces données sont employées pour faciliter l'interaction ou modifier ou cibler le contenu. [nouveau.]
2. *Dans ce groupe, la règle de la priorité à la première place est appliquée, c.à.d. à chaque niveau hiérarchique, la classification se fait à la première place appropriée. [nouveau.]*

AL N 21/20 · Serveurs spécifiquement adaptés pour la distribution de contenu, p.ex. serveurs VOD; Leurs opérations

AL N 21/21 · · · · · *Eléments de serveur ou architectures de serveur*

AL N 21/214 · · · · · *Plate-forme spécialisée de serveur, p.ex. serveur situé dans un avion, hôtel, hôpital*

AL N 21/218 · · · · · *Source du contenu audio ou vidéo, p.ex. réseau de disques local*

AL	N	21/2183		<i>Mémoire cache</i>
AL	N	21/2187		<i>Transmission en direct</i>
AL <i>câble</i>	N	21/222	. . .	<i>Serveurs secondaires, p.ex. serveur proxy, tête de télévision par</i>
AL	N	21/2225		<i>Serveurs VOD locaux</i>
AL	N	21/226	. . .	<i>Éléments internes de serveur</i>
AL	N	21/23	. .	<i>Traitement du contenu ou des données additionnelles; Opérations élémentaires de serveur; intergiciel de serveur</i>
AL	N	21/231	. . .	<i>Opération de stockage de contenu, p.ex. cache de films pour stockage à court terme, réplication de données sur plusieurs serveurs, priorisation de données pour l'effacement</i>
AL <i>de disques</i>	N	21/2312		<i>Placement de données sur le réseau</i>
AL	N	21/2315		<i>utilisant l'entrelacement</i>
AL	N	21/2318		<i>utilisant la mise en bande</i>
AL	N	21/232	. . .	<i>Opération de récupération de contenu au sein d'un serveur, p.ex. lecture de flux vidéo du réseau de disques</i>

AL **N** **21/233** . . . **Traitement de flux audio élémentaires**

AL **N** **21/234** . . . **Traitement de flux vidéo élémentaires, p.ex. raccordement de flux vidéo, manipulation de graphes de scènes MPEG-4 (procédés de codage ou transcodage vidéo per se [H04N7/26](#))**

AL **N** **21/2343** . . . **impliquant des opérations de reformatage de signaux vidéo pour la distribution ou la mise en conformité avec les requêtes des utilisateurs finaux ou les exigences des dispositifs des utilisateurs finaux**

AL **N** **21/2347** . . . **impliquant le cryptage de flux vidéo (dispositions pour les communications secrètes ou protégées [H04L 9/00](#); systèmes à secret analogiques [H04N7/16](#))**

AL **N** **21/235** . . . **Traitement de données additionnelles, p.ex. brouillage de données additionnelles, traitement de descripteurs de contenu**

AL **N** **21/236** . . . **Assemblage d'un flux multiplexé, p.ex. flux de transport, en combinant un flux vidéo avec d'autres contenus ou données additionnelles, p.ex. insertion d'un localisateur de ressources universel [URL] dans un flux vidéo, multiplexage de données de logiciel dans un flux vidéo; remultiplexage de flux multiplexés; insertion de bits de rembourrage dans le flux multiplexé, p.ex. pour obtenir un débit constant; assemblage d'un flux élémentaire paquetisé**

AL **N** **21/2362** . . . **Génération ou traitement d'informations de service [SI]**

AL **N** **21/2365** . . . **Multiplexage de plusieurs flux vidéo**

AL **N** **21/2368** . . . **Multiplexage de flux audio et vidéo**

AL **N** **21/237** . . . *Communication avec un serveur de données additionnelles*

AL **N** **21/238** . . . *Interfacage de la voie descendante du réseau de transmission, p.ex. adaptation du débit de transmission d'un flux vidéo à la bande passante du réseau; Traitement de flux multiplexés*

AL **N** **21/2381** *Adaptation du flux multiplexé à un réseau spécifique, p.ex. un réseau à protocole Internet [IP]*

AL **N** **21/2383** *Codage de canal d'un flux binaire numérique, p.ex. modulation*

AL **N** **21/2385** *Allocation de canaux ([H04N21/266](#) a priorité); Allocation de bande passante ([H04N 21/24](#) a priorite)*

AL **N** **21/2387** *Traitement de flux en réponse à une requête de reproduction par un utilisateur final, p.ex. pour la lecture à vitesse variable ('trick play')*

AL **N** **21/2389** *Traitement de flux multiplexé, p.ex. cryptage de flux multiplexé*

AL **N** **21/239** . . . *Interfaçage de la voie montante du réseau de transmission, p.ex. priorisation des requêtes de clients*

AL **N** **21/24** . . . *Surveillance de procédés ou ressources, p.ex. surveillance de la charge du serveur, de la bande passante disponible, des requêtes effectuées sur la voie montante*

AL N 21/241 . . . *Procédés de systèmes d'exploitation, p.ex. initialisation du serveur (dispositions pour la commande par programme [G06F9/00](#))*

AL N 21/242 . . . *Procédés de synchronisation, p.ex. traitement de références d'horloge de programme [PCR]*

AL N 21/25 . . . *Opérations de gestion réalisées par le serveur pour faciliter la distribution de contenu ou administrer des données liées aux utilisateurs finaux ou dispositifs clients, p.ex. authentification des utilisateurs finaux ou des dispositifs clients, apprentissage des préférences des utilisateurs pour recommander des films*

AL N 21/254 . . . *Gestion au sein du serveur de données additionnelles, p.ex. serveur d'achat, serveur de gestion de droits*

AL N 21/2543 *Facturation (schémas, architectures ou protocoles de paiement [G06Q 20/00](#); commerce électronique [G06Q 30/00](#))*

AL N 21/2547 *Facturation de tiers, p.ex. facturation d'un publicitaire*

AL N 21/258 . . . *Gestion de données liées aux clients ou aux utilisateurs finaux, p.ex. gestion des capacités des clients, préférences ou données démographiques des utilisateurs, traitement des multiples préférences des utilisateurs finaux pour générer des données collaboratives*

AL N 21/262 . . . *Ordonnancement de la distribution de contenus ou de données additionnelles, p.ex. envoi de données additionnelles en dehors des périodes de pointe, mise à jour de modules de logiciel, calcul de la fréquence de transmission de carrousel, retardement de la transmission de flux vidéo, génération de listes de reproduction*

AL N 21/266 . . . *Gestion de canal ou de contenu, p.ex. génération et gestion de clés et de messages de titres d'accès dans un système d'accès conditionnel, fusion d'un canal de monodiffusion de VOD dans un canal multidiffusion*

AL **N** **21/2662** *Contrôle de la complexité du flux vidéo, p.ex. en mettant à l'échelle la résolution ou le débit du flux vidéo en fonction des capacités du client*

AL **N** **21/2665** *Rassemblement de contenus provenant de différentes sources, p.ex. Internet et satellite*

AL **N** **21/2668** *Création d'un canal pour un groupe dédié d'utilisateurs finaux, p.ex. en insérant des publicités ciblées dans un flux vidéo en fonction des profils des utilisateurs finaux*

AL **N** **21/27** . . *Applications pour utilisateurs finaux basées sur un serveur*

AL **N** **21/274** . . . *Stockage de contenu ou données additionnelles spécifiques aux utilisateurs finaux en réponse aux requêtes des utilisateurs finaux*

AL **N** **21/2743** *Hébergement vidéo de données téléchargées vers l'amont du client*

AL **N** **21/2747** *Stockage à distance de programmes vidéo reçus via la voie descendante, p.ex. du serveur*

AL **N** **21/278** . . . *Base de données de descripteurs de contenu ou service de répertoire pour accès par les utilisateurs finaux*

AL **N** **21/40** . *Dispositifs clients spécifiquement adaptés pour la réception de contenu ou l'interaction avec le contenu, p.ex. boîtier décodeur [STB]; Leurs opérations*

AL N 21/41 . . . Structure de client; structure de périphérique de client

AL N 21/414 . . . Plate-formes spécialisées de client, p.ex. récepteur au sein d'une voiture, intégré dans un appareil mobile

AL N 21/4143 . . . Ordinateur personnel [PC]

AL N 21/4147 . . . Enregistreur vidéo personnel [PVR] ([H04N 5/76](#) a priorité)

AL N 21/418 . . . Carte externe destinée à être utilisée en combinaison avec le dispositif client, p.ex. pour l'accès conditionnel

AL N 21/4185 . . . pour le paiement (mécanismes actionnés par carte d'identité codée ou carte de crédit codée pour déclencher ou actionner des [appareils](#) de vente, de location, de distribution de [pièces de monnaie](#) ou de papier-monnaie, ou de remboursement [G07F 7/08](#); schémas, architectures ou protocoles de paiement [G06Q 20/00](#); commerce électronique [G06Q 30/00](#))

AL N 21/422 . . . Périphériques d'entrée uniquement, p.ex. système de positionnement global [GPS] (Dispositions d'entrée ou dispositions d'entrée et de sortie combinées pour l'interaction entre l'utilisateur et le calculateur [G06F 3/01](#))

AL N 21/4223 . . . Caméras ([H04N 5/225](#) a priorité)

AL N 21/4227 . . . Entrée à distance par un utilisateur situé à distance du dispositif client, p.ex. au travail

AL N 21/426 . . . Eléments internes de client ([H04N 5/44](#) a priorité)

AL N 21/43 *Traitement de contenu ou données additionnelles, p.ex. démultiplexage de données additionnelles d'un flux vidéo numérique; Opérations élémentaires de client, p.ex surveillance du réseau domestique, synchronisation de l'horloge du décodeur; Intergiciel de client*

AL N 21/431 *Génération d'interfaces visuelles; Rendu de contenu ou données additionnelles (circuits de réception pour visualisation d'information additionnelle [H04N5/445](#))*

AL N 21/432 *Opération de récupération de contenu d'un support de stockage local, p.ex. disque dur*

AL N 21/433 *Opération de stockage de contenu, p.ex. opération de stockage en réponse à une requête de pause, opérations de cache*

AL N 21/4335 *Opérations de gestion interne, e.g. priorisation de contenu pour l'effacement dû à des restrictions d'espace de stockage*

AL N 21/434 *Désassemblage d'un flux multiplexé, p.ex. démultiplexage de flux audio et vidéo, extraction de données additionnelles d'un flux vidéo; remultiplexage de flux multiplexés; Extraction ou traitement de SI; Désassemblage d'un flux élémentaire paquetisé*

AL N 21/435 *Traitement de données additionnelles, p.ex. décryptage de données additionnelles, reconstruction de logiciel à partir de modules extraits du flux de transport*

AL N 21/436 *Interfaçage d'un réseau de distribution local, p.ex. communication avec un autre STB, à l'intérieur de la maison*

AL N 21/4363 *Adaptation du flux vidéo à un réseau local spécifique, p.ex. un réseau IEEE 1394 ou Bluetooth*

AL N 21/4367 *Etablissement d'une communication protégée entre le client et un dispositif périphérique ou carte à puces (Dispositions pour les communications secrètes ou protégées [H04L 9/00](#); Dispositions de sécurité pour protéger les calculateurs ou les systèmes de calculateurs contre une activité non autorisée [G06F 21/00](#))*

AL N 21/437 *Interfaçage de la voie montante du réseau de transmission, p.ex. pour transmettre des requêtes de client à un serveur VOD*

AL N 21/438 *Interfaçage de la voie descendante du réseau de transmission provenant d'un serveur, p.ex. récupération de paquets MPEG d'un réseau IP*

AL N 21/4385 *Traitement de flux multiplexé, p.ex. décryptage de flux multiplexé*

AL N 21/439 *Traitement de flux audio élémentaires*

AL N 21/44 *Traitement de flux élémentaires vidéo, p.ex. raccordement d'un clip vidéo récupéré d'un stockage local avec un flux vidéo en entrée, rendu de scènes selon des graphes de scène MPEG-4*

AL N 21/4402 *impliquant des opérations de reformatage de signaux vidéo pour la redistribution domestique, le stockage ou l'affichage en temps réel*

AL N 21/4405 *impliquant le décryptage de flux vidéo (dispositions pour les communications secrètes ou protégées [H04L 9/00](#))*

AL N 21/4408 impliquant le cryptage de flux vidéo, p.ex. re-cryptage d'un flux vidéo décrypté pour la redistribution dans un réseau domestique (dispositions pour les communications secrètes ou protégées [H04L 9/00](#))

AL N 21/441 Acquisition de l'identification d'un utilisateur final (authentification dans les réseaux de communication sans fil [H04W 12/06](#))

AL N 21/4415 utilisant les caractéristiques biométriques de l'utilisateur, p.ex. par reconnaissance de la voix ou balayage d'empreinte digitale (Méthodes ou dispositions pour la reconnaissance de formes [G06K 9/00](#))

AL N 21/442 Surveillance de procédés ou de ressources, p.ex. détection de la défaillance d'un dispositif d'enregistrement, surveillance de la bande passante sur la voie descendante, du nombre de visualisations d'un film, de l'espace de stockage disponible dans le disque dur interne

AL N 21/4425 Surveillance d'erreurs de traitement au client ou de défaillance matérielle (surveillance dans le traitement électrique de données numériques [G06F 11/00](#))

AL N 21/443 Procédés de système d'exploitation, p.ex. démarrage d'un STB, implémentation d'une machine virtuelle Java dans un STB, gestion d'énergie dans un STB (dispositions pour le chargement ou le lancement de programme [G06F 9/445](#))

AL N 21/45 Opérations de gestion réalisées par le client pour faciliter la réception de contenu ou l'interaction avec le contenu ou administration des données liées à l'utilisateur final ou au dispositif client lui-même, p.ex. apprentissage des préférences d'utilisateurs pour recommander des films, résolution de conflits d'ordonnancement

AL N 21/454 Filtrage de contenu, p.ex. blocage des publicités

AL N 21/4545 Signaux d'entrée aux algorithmes de filtrage, p.ex. filtrage d'une région de l'image

AL N 21/458 . . . Ordonnancement de contenu pour créer un flux personnalisé, p.ex. en combinant une publicité stockée localement avec un flux en entrée; Opérations de mise à jour, p.ex. pour modules de système d'exploitation

AL N 21/462 . . . Gestion de contenu ou données additionnelles, p.ex. création d'un guide de programmes maître à partir de données reçues par internet et d'une tête de réseau, contrôle de la complexité d'un flux vidéo en mettant à l'échelle la résolution ou le débit en fonction des capacités du client

AL N 21/4623 Traitement de messages de titres d'accès, p.ex. message de contrôle d'accès [ECM], message de gestion d'accès [EMM]

AL N 21/4627 Gestion de droits

AL N 21/466 . . . Procédé d'apprentissage pour la gestion intelligente, p.ex. apprentissage des préférences d'utilisateurs pour recommander des films

AL N 21/47 . . . **Applications pour utilisateurs finaux (Techniques d'interaction pour les interfaces utilisateur graphiques [G06F 3/048](#); circuits de réception pour visualisation d'information additionnelle [H04N 5/445](#))**

AL N 21/472 . . . Interface pour utilisateurs finaux pour la requête de contenu, de données additionnelles ou de services; Interface pour utilisateurs finaux pour l'interaction avec le contenu, p.ex. pour la réservation de contenu ou la définition de rappels, pour la requête de notification d'évènement, pour la manipulation de contenu

AL N 21/4722 pour la requête de données additionnelles associées au contenu

AL N 21/4725 utilisant des régions interactives de l'image, p.ex. zones actives ('hot spots')

AL N 21/4728 pour la sélection d'une région d'intérêt [ROI], p.ex. pour la requête d'une version de plus haute résolution de la région sélectionnée

AL N 21/475 Interface pour utilisateurs finaux pour saisir des données d'utilisateurs finaux, p.ex. numéro d'identification personnel [PIN], données de préférences

AL N 21/478 Services additionnels, p.ex. affichage de l'identification d'un appelant téléphonique, application d'achat

AL N 21/4782 Navigation sur le Web

AL N 21/4784 réception de récompenses (schémas, architectures ou protocoles de paiement [G06Q 20/00](#); commerce électronique [G06Q 30/00](#))

AL N 21/4786 e-mail

AL N 21/4788 communication avec d'autres utilisateurs, p.ex. discussion en ligne

AL N 21/482 Interface pour utilisateurs finaux pour la sélection de programmes

AL N 21/485 Interface pour utilisateurs finaux pour la configuration du client

AL N 21/488 Services de données, p.ex. téléscripteur d'actualités

AL N 21/60 · Structure du réseau ou procédés pour la distribution de vidéo entre le serveur et le client ou entre des clients distants (réseaux de données à commutation [H04L 12/00](#); réseaux de télécommunications sans fil [H04W](#)) ; Signalisation de contrôle entre clients, serveur et éléments du réseau; Transmission de données de gestion entre serveur et client; Détails de la communication entre serveur et client

AL N 21/61 · · Structure physique de réseau; Traitement de signal ([H04B](#) a priorité)

AL N 21/63 · · Signalisation de contrôle entre des éléments du client, serveur et réseau; Procédés liés au réseau pour la distribution de vidéo entre serveur et clients, p.ex. transmission de la couche de base et des couches d'amélioration sur des voies de transmission différentes, mise en œuvre d'une communication pair à pair via internet entre des récepteurs décodeurs; Protocoles de communication; Adressage

AL N 21/633 · · · Signaux de commande issus du serveur dirigés vers des éléments du réseau ou du client

AL N 21/6332 · · · · vers le client

AL N 21/6334 · · · · pour l'autorisation, p.ex. en transmettant une clé (dispositions pour les communications secrètes ou protégées [H04L 9/00](#))

AL N 21/6336 · · · · vers le décodeur

AL N 21/6338 · · · · vers le réseau

AL N 21/637 · · · Signaux de commande émis par le client et dirigés vers les éléments du serveur ou du réseau

AL N 21/6371 · · · · vers le réseau

AL N 21/6373 · · · · pour le contrôle du débit

AL N 21/6375 · · · · pour demander une retransmission

AL	N	21/6377	<i>vers le serveur</i>
AL	N	21/6379	<i>vers le codeur</i>
AL	N	21/64 . . .	<i>Adressage</i>
AL	N	21/6402	<i>Allocation d'adresses pour des clients</i>
AL	N	21/6405	<i>Multidiffusion</i>
AL	N	21/6408	<i>Monodiffusion</i>
AL	N	21/643 . . .	<i>Protocoles de communication</i>
CC]	AL	N	21/6433 <i>Digital Storage Media - Command and Control Protocol [DSM-</i>
	AL	N	21/6437 <i>Protocole de transport en temps réel [RTP]</i>
	AL	N	21/647 . . . <i>Signalisation de contrôle entre des éléments du réseau et serveur ou clients, p.ex. contrôle de la qualité du flux vidéo en éliminant des paquets, protection du contenu contre une modification non autorisée dans le réseau, surveillance de la charge du réseau, réalisation d'une passerelle entre deux réseaux différents, p.ex. entre réseau IP et réseau sans fil</i>
AL	N	21/65 . .	<i>Transmission de données de gestion entre le client et le serveur</i>
AL	N	21/654 . . .	<i>Transmission du serveur vers le client</i>
AL	N	21/6543	<i>pour forcer certaines opérations au client, p.ex. l'enregistrement</i>

- AL N 21/6547 *comportant des paramètres, p.ex. pour l'initialisation du client*
- AL N 21/658 *Transmission du client vers le serveur*
- AL N 21/6583 *Accusation de réception*
- AL N 21/6587 *Paramètres de contrôle, p.ex. commande de lecture à vitesse variable ('trick play'), sélection d'un point de vue*
- AL N 21/80 *Génération ou traitement de contenu ou de données additionnelles par un créateur de contenu, indépendamment du processus de distribution; Contenu per se*
- AL N 21/81 *Composants mono média du contenu*
- AL N 21/83 *Génération ou traitement de données de protection ou de description associées au contenu ; Structuration du contenu*
- AL N 21/835 *Génération de données de protection, p.ex. certificats*
- AL N 21/8352 *impliquant des données d'identification du contenu ou de la source, p. ex. 'Unique Material Identifier' [UMID]*
- AL N 21/8355 *impliquant des données sur l'utilisation, p.ex. nombre de copies ou de visualisations autorisées*
- AL N 21/8358 *impliquant des filigranes numériques*
- AL N 21/84 *Génération ou traitement de données de description, p. ex. descripteurs de contenu*
- AL N 21/8405 *Représentés par des mots clés*

AL N 21/845 . . . Structuration du contenu, p. ex. décomposition du contenu en segments temporels

AL N 21/85 . . . Assemblage du contenu, génération d'applications multimédia

AL N 21/854 . . . Création de contenu

AL N 21/8541 Impliquant des embranchements, p. ex. vers des fins d'histoire différentes

AL N 21/8543 Utilisant un langage de description, p. ex. 'Multimedia and Hypermedia information coding Expert Group' [MHEG], 'eXtensible Markup Language' [XML]

AL N 21/8545 pour générer des applications interactives

AL N 21/8547 Impliquant des marquages temporels pour synchroniser le contenu

AL N 21/8549 Création de résumés vidéo p. ex. bande annonce

AL N 21/858 Création de liens entre données et contenu, p. ex. en liant un URL à un objet vidéo en créant une zone active ('hotspot')



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ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE
GENEVA/GENÈVE

COMMITTEE OF EXPERTS OF THE IPC UNION
COMITÉ D'EXPERTS DE L'UNION DE L'IPC

AL REVISION PROJECT FILE
DOSSIER DE PROJET RÉVISION NIVEAU ÉLEVÉ

PROPOSAL BY : PROPOSITION DE :	EP	IPC AREA: DOMAINE DE LA CIB :	G06F 19/10
RAPPORTEUR :	EP	TECHNICAL FIELD : DOMAINE TECHNIQUE :	E

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Decision of the subcommittee	Décision du sous-comité	IB	27.10.2008
2	Proposal - scheme	Proposition - schéma	EP	16.01.2009
3	Comments	Observations	FR	30.01.2009
4	Comments	Observations	DE	09.02.2009
5	Proposal - definitions	Proposition - définitions	EP	17.02.2009
6	Rapporteur summary for next ALS		EP	17.02.2009
7	Decision of the subcommittee	Décision du sous-comité	IB	24.03.2009
8	Comments	Observations	DE	30.04.2009
9	Comments	Observations	US	30.04.2009

WORLD INTELLECTUAL PROPERTY ORGANIZATION	
IPC ADVANCED LEVEL SUBCOMMITTEE	
Project: A019 Decision of the Subcommittee	Date: February 25 to 27, 2009

IPC/ALS/7/09b) A019 (G06F19)

Scheme has been posted by EPO in January 2009. EPO to post a R report by the end of March 2009.

Annex 3**Action Points**

AP	Reference Meeting	Description	To report	Target Date
55	IPC/ALS/6	A019 (T004): IB TO ESTABLISH NEW PROJECT EP TO POST SCHEME PROPOSAL	IB EP	Completed

DEUTSCHES PATENT- UND MARKENAMT German Patent and Trade Mark Office	Class/Subcl.: G06F 19/xx
	Date : 30.04.2009
DE - Comments — A019	

Re: Definition Proposals in Annex 5

We welcome the EP Rapporteur's definition proposal (annex 5) for this project and have the following comments:

In our opinion the following references should be added to the existing entries in the list of informative references in the definition of subclass G06F 19/10:

PCR apparatus per se	C12M1/38
Manufacture of microarrays	C12M1/34

United States Patent and Trademark Office	
IPC Advanced Level Subcommittee	
Topic: A010	Date: 30 April 2009

Introduction:

United States (US) thanks the Rapporteur for the Definitions Proposal. It was noted by US that there are minor differences between the proposal and the contents of the Harmony Visit Report.

US can agree with the majority of the definitions proposal with the exception of the following.

Exceptions

1. It would appear the Glossary terms should be alphabetized and associated with the new Main Group rather than being listed in relation to the proposed subgroups.
2. In the schema definition of subgroup 19/16, the words "drug targeting" are NOT used, however "drug targeting" is present in the glossary for 19/16.
3. The schema definition of subgroup 19/18 should include "linkage disequilibrium" or "population genetics" which are at least as important as "genotyping".
4. US would like to offer the following amendments for the definition of "genotyping":

Genotyping – processes of determining the genotype (i.e., the genetic constitution) of an individual, or an organism by the use of biological assays.

And "genotype"

Genotype – The genetic constitution of an organism with respect to a trait.

5. "Linkage disequilibrium"

Linkage Disequilibrium – The probability in which two or more than two alleles present together in one chromosome is greater than the probability in which they are present randomly

Or:

Linkage Disequilibrium – The tendency of alleles located close to each other on the same chromosome to be inherited

together.

6. Population Genetics

Population Genetics – The mathematical and biological discipline of evaluating the numerical progress of the relative frequency of various genes and alleles in a population of interbreeding organisms.

Or:

Population Genetics – The study of the allele frequency distribution and change under the influence of the four evolutionary processes: natural selection, genetic drift, mutation and gene flow.

7. Other Annotations by US on Excerpts of the Rapporteur Definitions Proposal

Title - G06F19/10

Bioinformatics

Definition statement

This main group covers:

- methods and systems for genetic or protein-related data processing in computational molecular biology.
- bioinformatics methods or systems where ~~the~~ digital data processing is inherent or implicit, but not explicitly mentioned, and
- in this main group, "systems" include apparatus.

Special rules of classification within this main group

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.

Limiting references

In silico methods of creating virtual chemical libraries C40B50/02

In silico methods of screening virtual chemical libraries C40B30/02

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Informative references

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

~~In silico methods of creating virtual chemical libraries~~ C40B50/02

~~In silico methods of screening virtual chemical libraries~~ C40B30/02

[US can also agree with the comments provided by DE in Annex 8.](#)

Title - G06F19/12

For modelling or simulation in systems biology

Definition statement

This subgroup covers:

Documents involving simulation and mathematical modelling of relationships and interactions between molecular entities on a subcellular level, integrating genetic and/or protein-related data to describe the -dynamic behaviour of protein-protein/protein-ligand interactions, regulatory or metabolic networks. Mere mention of modelling or simulation is not sufficient to classify in this subgroup. In such cases, see lower subgroups.

Title - G06F19/18

For functional genomics or proteomics

This subgroup covers:

Documents involving assessing the function of genes, and proteins in determining traits, physiology and/or development of an organism, making use of computational and large scale, high-throughput technologies. This subgroup -includes documents involving genotypic-phenotypic associations. This includes genotyping and genome annotation, linkage disequilibrium analysis and association studies, population genetics, alternative splicing and Short Interfering RNA design (siRNA, RNAi). This subgroup also covers binding site identification, mutagenesis analysis, protein-protein or protein-nucleic acid interactions. Mere mention of genetic or protein function is not sufficient to classify in this subgroup. In such cases, see lower subgroups.

Title - G06F19/24

For machine learning, data mining or biostatistics

This subgroup covers:

Documents involving discovery and analysis of patterns within a vast amount of genetic or protein-related data, wherein the emphasis is placed on the method of analysis and is largely independent of the type of bioinformatic data. Covered methods include bioinformatic pattern finding, knowledge discovery, rule extraction, correlation, clustering and classification. [This subgroup a-](#)Also includes multivariate analysis of protein or gene-related data [e.g. analysis of variances (ANOVA), principal component analysis (PCA), support vector machines (SVM)].

Title - G06F19/26

For data visualisation

This subgroup covers:

Documents involving visual representations specifically adapted to bioinformatic data, wherein the emphasis is placed on the method of visualisation and is largely independent of the type of bioinformatic data. Visualisation of bioinformatic data specifically ~~includes~~ includes, for example graphics generation, map display and network display, ~~etc.~~

Glossary

Note: Glossary definitions are formulated in the context of bioinformatics. Methods and calculation processes are carried out using computer programs.

G06F19/12

Systems biology simulation and mathematical modelling of relationships and interactions between molecular entities in -subcellular systems integrating genetic and/or protein-related data to describe the dynamic behaviour of, [for example](#), protein-protein/protein-ligand interactions, regulatory [networks](#) ~~or~~ [and](#) metabolic networks, ~~etc.~~



IPC/A 020
ORIGINAL: English/French
DATE: 10.06.2009

WORLD INTELLECTUAL PROPERTY ORGANIZATION
ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE
GENEVA/GENÈVE

COMMITTEE OF EXPERTS OF THE IPC UNION
COMITÉ D'EXPERTS DE L'UNION DE L'IPC

AL REVISION PROJECT FILE
DOSSIER DE PROJET RÉVISION NIVEAU ÉLEVÉ

PROPOSAL BY : PROPOSITION DE : JP	IPC AREA: DOMAINE DE LA CIB : H01R 12/00-12/38
RAPPORTEUR : JP	TECHNICAL FIELD : DOMAINE TECHNIQUE : E

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Revision request with proposal	Demande de révision avec proposition	JP	29.09.2008
2	Decision of the subcommittee	Décision du sous-comité	IB	27.10.2008
3	Comments	Observations	US	25.12.2008
4	Comments	Observations	IB	04.02.2009
5	Rapporteur summary for next ALS		JP	05.02.2009
6	Technical Annexes		IB	16.02.2009
7	Decision of the subcommittee	Décision du sous-comité	IB	24.03.2009
8	Proposal - definitions	Proposition - définitions	JP	26.03.2009
9	Proposal - RCL	Proposition - RCL	IB	08.04.2009
10	List of cross references	Liste des renvois	IB	08.04.2009
11	Comments - RCL and cross references	Observations - RCL et des renvois	JP	14.04.2009
12	French version	Version française	IB	08.05.2009
13	Comments	Observations	EP	04.06.2009
14	Rapporteur report	Rapport du rapporteur	JP	08.06.2009
15	Rapporteur summary for next WG		JP	08.06.2009

WORLD INTELLECTUAL PROPERTY ORGANIZATION	
IPC ADVANCED LEVEL SUBCOMMITTEE	
Project: A020 Decision of the Subcommittee	Date: February 25 to 27, 2009

IPC/ALS/7/09b) A020 (H01R12)

USPTO and EPO support the JPO proposal, scheme is adopted. JPO to draft Definitions by the end of March 2009.

IB to prepare the RCL and check cross-references by 15 April 2009, and prepare the French version of the scheme by 15 May 2009.

USPTO to complete reclassification by the end of 2010. JPO and EPO were not able to give a date yet

Annex 3**Action Points**

AP	Reference Meeting	Description	To report	Target Date
56	IPC/ALS/6	A020 (T044): IB TO ESTABLISH NEW PROJECT JP TO POST SCHEME PROPOSAL	IB JP	Completed

ANNEX 9E H01R [Project-Rapporteur : A020/JP] <SC07>

AL D 12/02- (transferred to [H01R 12/50-H01R 12/91](#))
12/38

AL N 12/50 • *Fixed connections*

AL N 12/51 • • *for rigid printed circuits or like structures*

AL N 12/52 • • • *connecting to other rigid printed circuits or like structures*

AL N 12/53 • • • *connecting to cables except for flat or ribbon cables*

AL N 12/55 • • • *characterized by the terminals*

- AL N 12/57 · · · · *surface mounting terminals*
- AL N 12/58 · · · · *terminals for insertion into holes*
- AL N 12/59 · · *for flexible printed circuits, flat or ribbon cables or like structures*
- AL N 12/61 · · · *connecting to flexible printed circuits, flat or ribbon cables or like structures*
- AL N 12/62 · · · *connecting to rigid printed circuits or like structures*
- AL N 12/63 · · · *connecting to another shape cable*
- AL N 12/65 · · · *characterized by the terminal*
- AL N 12/67 · · · · *insulation penetrating terminals*
- AL N 12/68 · · · · · *comprising deformable portions*
- AL N 12/69 · · · · *deformable terminals e.g. crimping terminals*
- AL N 12/70 · *Coupling devices*
- AL N 12/71 · · *for rigid printing circuits or like structures*
- AL N 12/72 · · · *coupling with the edge of the rigid printed circuits or like structures*
- AL N 12/73 · · · · *connecting to other rigid printed circuits or like structures*
- AL N 12/75 · · · *connecting to cables except for flat or ribbon cables*
- AL N 12/77 · · *for flexible printed circuits, flat or ribbon cables or like structures*
- AL N 12/78 · · · *connecting to other flexible printed circuits, flat or ribbon cables or like structures*
- AL N 12/79 · · · *connecting to rigid printed circuits or like structures*
- AL N 12/81 · · · *connecting to another cable except for flat or ribbon cable*
- AL N 12/82 · · *connected with low or zero insertion force*
- AL N 12/83 · · · *connected with pivoting of printed circuits or like after insertion*
- AL N 12/85 · · · *contact pressure producing means, contacts activated after insertion of printed circuits or like structures*
- AL N 12/87 · · · · *acting automatically by insertion of rigid printed or like structures*
- AL N 12/88 · · · · *acting manually by rotating or pivoting connector housing parts*
- AL N 12/89 · · · · *acting manually by moving connector housing parts linearly e.g. slider*
- AL N 12/91 · · *allowing relative movement between coupling parts e.g. floating or self aligning*

IPC-AL – Definition Japan Patent Office Rapporteur Proposal	Project: A020
	Class/subclass: H01R
	Date : 06/04/2009

Title – H01R12/00

Structural associations of a plurality of mutually-insulated electrical connecting elements, specially adapted for printed circuits, e.g. printed circuit boards (PCBs), flat or ribbon cables, or like generally planar structures, e.g. terminal strips, terminal blocks; Coupling devices specially adapted for printed circuits, flat or ribbon cables, or like generally planar structures; Terminals specially adapted for contact with, or insertion into, printed circuits, flat or ribbon cables, or like generally planar structures

References relevant to classification in this group

This group does not cover:

Printed connections to, or between, printed circuits	H05K 1/11
--	-----------

Special rules of classification within this group

In this group, when it is called just a "connector", it is a connector which has a character for classification. When the connections are characterized by the connectors to be coupled of both parties, then the classification is given to each of both connectors.

When the counterpart of connection is identified, classification is given in H01R 12/70 and subsequent subgroups. On the other hand, if the subject of connection is not identified but only the mounting of the connector to a printed circuit board is suggested, classification is given in H01R 12/55~12/58, 12/65~12/69 and H01R 12/70.

Glossary of Terms

Hereafter, in this group, the following term is used in the sense of the following.

A rigid printed circuit board: A rigid printed circuit board (PCB) and a rigid case which contains printed circuit and has external electric terminals on the outside part of it, and a card, such as a PC card, is included.

A flexible printed circuit board: It is a printed circuit board which has flexibility, and a flat or a ribbon cable is included.

Printing circuit board: Both of the above "a rigid printed circuit board" and "a flexible printed circuit board"

Terminal: Conductive part material sets as the object of electric connection

Connector: Conductive terminals surrounded by an insulating housing used for male –female coupling. Simple "terminal" which does not have housing is not included.

Direct connection: Irremovable connection of terminals using solder, adhesive, welding, insulation displacement edge, a rivet, a screw, etc.

Title – H01R12/50

Fixed connections

Definition statement

This group covers:

Fixed connection between a plurality of printed circuit boards.

Title – H01R12/51

For rigid printed circuits or like structures

Definition statement

This group covers:

Fixed connection of which one party is a rigid printed circuit board

Fixed connection for members (e.g. connectors) to rigid printed circuit board by other structures than terminals (e.g. housing) that are not covered by H01R 12/52~12/58

Special rules of classification within this group

Those characterized by the terminals are classified in H01R 12/55~12/58.

Title – H01R12/52

Connecting to other rigid printed circuits or like structures

Definition statement

This group covers:

Fixed connection of which both of the connecting parties are rigid printed circuit board (Example: US5984692A, WO99/44260)

Title –H01R12/53

Connecting to cables except for flat or ribbon cables

Definition statement

This group covers:

Fixed connection for cables mounted on rigid printed circuit board. When a cable is a flat or a ribbon cable, it is classified in H01R12/62. (Example: US5667390A, EP1246309A)

Title – H01R12/55

Characterized by the terminals

Definition statement

This group covers:

Fixed connection for terminals to the rigid printed circuit board characterized by the shape or the mounting means of terminals, e.g. edge contact, including mounting of connectors to the printed circuit board (Examples: JP2001237008A, EP178540A)

Title – H01R12/57

Surface mounting terminals

Definition statement

This group covers:

Fixed connection for terminals (including terminals of the connector) mounted directly on the rigid printed circuit board by using soldering, etc. (Example: US6623283B, EP1473802A, WO95/10865A)

Title –H01R12/58

Terminals for insertion into holes

Definition statement

This group covers:

Fixed connection for terminals (including terminals of the connector) inserted into holes that are provided on rigid printed circuit board (Example: US6210181B, EP499431A, WO96/7220A, WO94/24730A)

Title – H01R12/59

For flexible printed circuits, flat or ribbon cables or like structures

Definition statement

This group covers:

Fixed connection of which one party is flexible printed circuit board

Fixed connection for members (e.g. connectors) to flexible printed circuit board by other structures than terminals (e.g. housing) that are not covered by H01R 12/61~12/69

(Example: JP2000294314A)

Special rules of classification within this group

Those characterized by the connection of terminals are classified in H01R 12/65~12/69.

Title – H01R12/61

Connecting to flexible printed circuits, flat or ribbon cables or like structures

Definition statement

This group covers:

Fixed connection directly connecting between flexible printed circuit boards (Example: US20030098342A, US20020092666A, US20020028598A)

Title – H01R12/62

Connecting to rigid printed circuits or like structures

Definition statement

This group covers:

Fixed connection directly connecting between flexible printed circuit board and rigid printed circuit board (Example: US20020004341A)

Title – H01R12/63

Connecting to another shape cable

Definition statement

This group covers:

Fixed connection for cables directly mounted on flexible printed circuit board (Example: EP1035616A, EP698943A, JP2001313457A)

Title – H01R12/65

Characterized by the terminal

Definition statement

This group covers:

Fixed connection characterized by the terminals directly mounted on flexible printed circuit board, e.g. edge contact (Examples: US20010019918A, JP11329533A)

Title – H01R12/67

Insulation penetrating terminals

Definition statement

This group covers:

Fixed connection by terminals penetrating the flexible printed circuit board e.g. insulation displacement terminal (Example : US20020076969A, US20020028598A, EP932221A)

Title – H01R12/68

Comprising deformable portions

Definition statement

This group covers:

Fixed connection by terminals that are secured to the conducting body after penetrating and bending and connected to flexible printed circuit board (Example : US20030106211A, US20010014553A)

Title – H01R12/69

Deformable terminals e.g. crimping terminals

Definition statement

This group covers:

Fixed connection by partially deformed terminals connected to conductors of flexible printed circuit board e.g. Crimping terminals Excluding those penetrating the flexible printed circuit board H01R 12/67,68 (Example : US6375492B, JP2002184246A, JP10021979A)

Title – H01R12/70

Coupling devices

Definition statement

This group covers:

Connection of printed circuit boards by connectors in a demountable manner (Example: EP178540A, WO95/10865A, WO96/7220A, WO94/24730A)

Special rules of classification within this group

When the identification of the subject of connection for the connector is not clear in the patent specification or drawings, classification is given in this subgroup too.

In the following classification, it should be noted that the subdivision is effected depending on the counterpart of the connection and on the subject of mounting of that connector which is one party having a character for classification.

Title – H01R12/71

For rigid printed circuits or like structures

Definition statement

This group covers:

Coupling device of which the subject of connection for the connector is rigid printed circuit board and that are not covered by H01R 12/72~12/75 (Example : US20040106326A)

Title – H01R12/72

Coupling with the edge of the rigid printed circuits or like structures

Definition statement

This group covers:

Coupling device of which the subject of connection for the connector is provided at the edge of, or nearby place to the edge of, rigid printed circuit board, and the subject of mounting is either not rigid printed circuit board or unidentifiable (Example: EP1128489A, JP3105882A)

Title – H01R12/73

Connecting to other rigid printed circuits or like structures

Definition statement

This group covers:

Coupling device of which the subject of connection for the connector is rigid printed circuit board, and the subject of mounting of the connector is also rigid printed circuit board (Example : JP10506222A, JP10507033A, US6293464B)

Title – H01R12/75

Connecting to cables except for flat or ribbon cables

Definition statement

This group covers:

Coupling device of which the subject of connection for the connector is cables, and the subject of mounting is rigid printed circuit board (Example: US5667401A, EP1065758A, JP9129306A)

Title – H01R12/77

For flexible printed circuits, flat or ribbon cables or like structures

Definition statement

This group covers:

Coupling device of which the subject of connection for the connector is flexible printed circuit board, and that are not covered by H01R 12/78~12/81 (Example: JP2003264021A, JP2000294341A)

Title – H01R12/78

Connecting to other flexible printed circuits, flat or ribbon cables or like structures

Definition statement

This group covers:

Coupling device of which the subject of connection for the connector is flexible printed circuit board, and the subject of mounting is also flexible printed circuit board (Example: US5498169A)

Title – H01R12/79

Connecting to rigid printed circuits or like structures

Definition statement

This group covers:

Coupling device of which the subject of connection for the connector is flexible printed circuit board, and the subject of mounting is rigid printed circuit board (Example: US20040002255A, US6358089B)

Title –H01R12/81

Connecting to another cable except for flat or ribbon cable

Definition statement

This group covers:

Coupling device of which the subject of connection for the connector is cables, and the subject of mounting is flexible printed circuit board (Example: US6139335A, EP948095A, GB2071930A)

Title – H01R12/82

Connected with low or zero insertion force

Definition statement

This group covers:

A connector performing the connection by zero insertion force or low insertion force

Coupling device which has the order of insertion for instance or cannot be classified in H01R 12/83~12/89 (Example: EP1130690A, US5775953A, JP6333648A)

Title –H01R12/83

Connected with pivoting of printed circuits or like after insertion

Definition statement

This group covers:

Coupling device that is activated by pivoting motion after insertion of the subject of connection (Example : US6174187B, US5839913A, US4737120A)

Title –H01R12/85

Contact pressure producing means, contacts activated after insertion of printed circuits or like structures

Definition statement

This group covers:

Coupling device that is activated by applying certain force on the contact by certain means, its using actuator or screw, etc. that is not classified in H01R 12/87~12/89.
(Example : US6210184B, JP11126651A, JP7045341A)

Title –H01R12/87

Acting automatically by insertion of rigid printed or like structures

Definition statement

This group covers:

Coupling device that can perform the connection of zero insertion force or low insertion force with only insertion of the subject of connection and without any other operation.
(Example : US6036519A, US5584708A, EP1009068A)

Title –H01R12/88

Acting manually by rotating or pivoting connector housing parts

Definition statement

This group covers:

Coupling device that can perform the connection of zero insertion force or low insertion force connection by activating pivoting member installed within the housing. It that is automatically functioned by the insertion of the subject of connection is classified in H01R12/87. (Example : US5904586A, US5795171A)

Title – H01R12/89

Acting manually by moving connector housing parts linearly e.g. slider

Definition statement

This group covers:

Coupling device that can perform the connection of zero insertion force or low insertion force connection by activating linear motion member installed within the housing. It that is automatically functioned by the insertion of the subject of connection is classified in H01R12/87. (Example : US5921785A, US5839916A, JP2003059560A)

Title – H01R12/91

Allowing relative movement between coupling parts e.g. floating or self aligning

Definition statement

This group covers:

Coupling device of which connection is performed through automatic adjustment of the position between connectors to be connected (Example : EP1206007A, JP2004214090A, US5306169A)

WORLD INTELLECTUAL PROPERTY ORGANIZATION	
IPC ADVANCED LEVEL SUBCOMMITTEE	
Project: A 020 (H01R) RCL - Revision Concordance List	Date: April 8, 2009

CL RCL

OLD	NEW	Comments
None	None	

AL RCL

OLD	NEW	Comments
H01R 12/02	H01R 12/50	
H01R 12/04	H01R 12/51 – H01R 12/53	
H01R 12/06	H01R 12/51	
H01R 12/08	H01R 12/59, H01R 12/63	
H01R 12/10	H01R 12/61	
H01R 12/12	H01R 12/62	
H01R 12/14	H01R 12/70, H01R 12/75, H01R 12/82 – H01R 12/91	
H01R 12/16	H01R 12/71	
H01R 12/18	H01R 12/72	
H01R 12/20	H01R 12/71	
H01R 12/22	H01R 12/71	
H01R 12/24	H01R 12/77	
H01R 12/26	H01R 12/78	
H01R 12/28	H01R 12/79	
H01R 12/30	H01R 12/55 – H01R 12/58, H01R 12/65 – H01R 12/69	
H01R 12/32	H01R 12/55	
H01R 12/34	H01R 12/58	
H01R 12/36	H01R 12/57	
H01R 12/38	H01R 12/65 – H01R 12/69	

WORLD INTELLECTUAL PROPERTY ORGANIZATION	
IPC ADVANCED LEVEL SUBCOMMITTEE	
Project: A 020 : H01R List of cross references	Date: April 8, 2009

References affected by revision project A020 (H01R)

Del. existing group	Ref to this group	Proposed amendment	Comment
H01R 12/02 – H01R 12/06	None		
H01R 12/08 , H01R 12/38	H01R 4/02	Soldered or welded connections (H01R 4/62, H01R 12/08 ~~59~~ , H91R 12/38 ~~65~~ take precedence)	
H01R 12/10- 12/12	None		
H01R 12/14	H01R 4/00	--- coupling devices H01R 12/14 70 , H01R 24/00-33/00; ---	
	H01R 9/00	--- coupling devices H01R 12/14 70 , H01R 24/00-33/00; ---	
	H01R 11/00	--- coupling devices H01R 12/14 70 , H01R 24/00-29/00, H01R 33/00; ---	
	H01R 13/00	Details of coupling devices of the kinds covered by groups H01R 12/14 70 , H01R 24/00-33/00	
H01R 12/16 – H01R 12/36	None		

JAPAN PATENT OFFICE

April 14, 2009

Project: A020

Subclass: H01R

JP Comment

JP as Rapporteur of this project is grateful to IB for the recent posting of Proposal-RCL (Annex 9) and List of cross reference (Annex 10). It is hereby solicited that the following points be taken care of.

Proposal – RCL

1. In an analogy with the following line;

H01R 12/08	H01R 12/59, H01R 12/63
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it may be desirable to make the following lines by adding H01R 12/75 and H01R 12/81, respectively..

H01R 12/16	H01R 12/71, H01R 12/75
H01R 12/24	H01R 12/77, H01R 12/81

2. As the consequence of 1, above, it is necessary to amend the following line by deleting H01R 12/75;

H01R 12/14	H01R 12/70, , H01R 12/82 – H01R 12/91
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3. Since H01R 12/73 is placed below H01R 12/72, it would be desirable to amend the following line by adding H01R 12/73.

H01R 12/18	H01R 12/72, H01R 12/73
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List of cross references

“H91R 12/65” in the third line in the last column must be a misprint of “H01R 12/65”.

H01R 12/08, H01R 12/38	H01R 4/02	Soldered or welded connections (H01R 4/62, H01R 12/08 ~~59~~ , H91R 12/38 ~~65~~ take precedence)
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[END]

ANNEXE 1E,F	H01R	[Projet-Rapporteur : A020/JP]	<SC07>
EN: 12/02- adopt 12/38 AL , D	(transferred to H01R 12/50-H01R 12/91)		(transféré en H01R 12/50-H01R 12/91)
EN: 12/50 adopt AL , N	• Fixed connections		Connexions fixes
EN: 12/51 adopt AL , N	• • for rigid printed circuits or like structures		pour circuits imprimés rigides ou structures similaires
EN: 12/52 adopt AL , N	• • • connecting to other rigid printed circuits or like structures		se raccordant à d'autres circuits imprimés rigides ou à des structures similaires
EN: 12/53 adopt AL , N	• • • connecting to cables except for flat or ribbon cables		se raccordant à des câbles à l'exclusion des câbles plats ou à rubans
EN: 12/55 adopt AL , N	• • • characterized by the terminals		caractérisées par les bornes
EN: 12/57 adopt AL , N	• • • • surface mounting terminals		bornes pour le montage en surface
EN: 12/58 adopt AL , N	• • • • terminals for insertion into holes		bornes pour insertion dans des trous
EN: 12/59 adopt AL , N	• • for flexible printed circuits, flat or ribbon cables or like structures		pour circuits imprimés flexibles, câbles plats ou à rubans ou structures similaires
EN: 12/61 adopt AL , N	• • • connecting to flexible printed circuits, flat or ribbon cables or like structures		se raccordant à des circuits imprimés flexibles, à des câbles plats ou à rubans ou à des structures similaires
EN: 12/62 adopt AL , N	• • • connecting to rigid printed circuits or like structures		se raccordant à des circuits imprimés rigides ou à des structures similaires
EN: 12/63 adopt AL , N	• • • connecting to another shape cables		se raccordant à des câbles d'une autre forme
EN: 12/65 adopt AL , N	• • • characterized by the terminals		caractérisées par les bornes
EN: 12/67 adopt AL , N	• • • • insulation penetrating terminals		bornes pénétrant dans l'isolant
EN: 12/68 adopt AL , N	• • • • • comprising deformable portions		comprenant des parties déformables
EN: 12/69 adopt AL , N	• • • • deformable terminals e.g. crimping terminals		bornes déformables, p.ex. bornes à sertir
EN: 12/70	• Coupling devices		Dispositifs de couplage

adopt AL , N			
EN: 12/71	· · for rigid printing circuits or like structures		<i>pour circuits imprimés rigides ou structures similaires</i>
adopt AL , N			
EN: 12/72	· · · coupling with the edge of the rigid printed circuits or like structures		<i>se couplant avec la tranche des circuits imprimés rigides ou des structures similaires</i>
adopt AL , N			
EN: 12/73	· · · connecting to other rigid printed circuits or like structures		<i>se raccordant à d'autres circuits imprimés rigides ou à des structures similaires</i>
adopt AL , N			
EN: 12/75	· · · connecting to cables except for flat or ribbon cables		<i>se raccordant à des câbles à l'exclusion des câbles plats ou à rubans</i>
adopt AL , N			
EN: 12/77	· · for flexible printed circuits, flat or ribbon cables or like structures		<i>pour circuits imprimés flexibles, câbles plats ou à rubans ou structures similaires</i>
adopt AL , N			
EN: 12/78	· · · connecting to other flexible printed circuits, flat or ribbon cables or like structures		<i>se raccordant à d'autres circuits imprimés flexibles, à des câbles plats ou à rubans ou à des structures similaires</i>
adopt AL , N			
EN: 12/79	· · · connecting to rigid printed circuits or like structures		<i>se raccordant à des circuits imprimés rigides ou à des structures similaires</i>
adopt AL , N			
EN: 12/81	· · · connecting to another cable except for flat or ribbon cable		<i>se raccordant à un autre câble à l'exclusion d'un câble plat ou à rubans</i>
adopt AL , N			
EN: 12/82	· · connected with low or zero insertion force		<i>raccordés avec une force d'insertion faible ou nulle</i>
adopt AL , N			
EN: 12/83	· · · connected with pivoting of printed circuits or like after insertion		<i>raccordés avec pivotement des circuits imprimés ou des structures similaires après insertion</i>
adopt AL , N			
EN: 12/85	· · · contact pressure producing means, contacts activated after insertion of printed circuits or like structures		<i>moyens produisant une pression de contact, contacts activés après insertion des circuits imprimés ou des structures similaires</i>
adopt AL , N			
EN: 12/87	· · · acting automatically by insertion of rigid printed or like structures		<i>agissant automatiquement par insertion des circuits imprimés rigides ou des structures similaires</i>
adopt AL , N			
EN: 12/88	· · · acting manually by rotating or pivoting connector housing parts		<i>agissant manuellement par rotation ou pivotement des pièces du boîtier du connecteur</i>
adopt AL , N			
EN: 12/89	· · · acting manually by moving connector housing parts linearly e.g. slider		<i>agissant manuellement par déplacement linéaire des pièces du boîtier du connecteur, p.ex. coulisseau autorisant un mouvement relatif entre</i>
adopt AL , N			
EN: 12/91	· · allowing relative movement between coupling parts e.g. floating or self aligning		<i>les pièces de couplage, p.ex. un flottement ou un auto-alignement</i>
adopt AL , N			

Schéma existant pour aide à la traduction.

H01R 12/00	Structural associations of a plurality of mutually-insulated electrical connecting elements, specially adapted for printed circuits, e.g.	Association structurelle de plusieurs éléments de connexion électrique isolés les uns des autres, spécialement conçue pour des circuits imprimés, p.ex. des cartes de circuit imprimé	
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		printed circuit boards (PCBs), flat or ribbon cables, or like generally planar structures, e.g. terminal strips, terminal blocks; Coupling devices specially adapted for printed circuits, flat or ribbon cables, or like generally planar structures; Terminals specially adapted for contact with, or insertion into, printed circuits, flat or ribbon cables, or like generally planar structures (printed connections to, or between, printed circuits H05K 1/11) [7]	(PCB), des câbles plats ou à ruban ou des structures similaires généralement planes, p.ex. barrettes de raccordement, blocs de connexion; Dispositifs de couplage spécialement conçus pour des circuits imprimés, des câbles plats ou à ruban ou des structures similaires généralement planes; Bornes spécialement conçues pour établir le contact avec, ou pour être insérées dans des circuits imprimés, des câbles plats ou à ruban ou des structures similaires généralement planes (connexions imprimées avec, ou entre des circuits imprimés H05K 1/11) [7]
	H01R 12/02	• Structural associations of a plurality of mutually-insulated electrical connecting elements [7]	Association structurelle de plusieurs éléments de connexion électrique isolés les uns des autres [7]
	H01R 12/04	• • specially adapted for rigid printed circuits [7]	spécialement adaptée aux circuits imprimés rigides [7]
	H01R 12/06	• • • for interconnection through aligned holes in boards, e.g. in multilayer stacks of boards [7]	pour l'interconnexion à travers des trous alignés dans des cartes, p.ex. dans des empilements multicouches de cartes [7]
	H01R 12/08	• • specially adapted for flexible printed circuits or flat or ribbon cables [7]	spécialement adaptée aux circuits imprimés flexibles ou aux câbles plats ou à ruban [7]
	H01R 12/10	• • • for interconnection to other flexible printed circuits or flat or ribbon cables [7]	pour l'interconnexion avec d'autres circuits imprimés flexibles ou avec des câbles plats ou à ruban [7]
	H01R 12/12	• • • for interconnection to rigid printed circuits [7]	pour l'interconnexion avec des circuits imprimés rigides [7]
	H01R 12/14	• Coupling devices [7]	Dispositifs de couplage [7]
	H01R 12/16	• • specially adapted for rigid printed circuits [7]	spécialement adaptés aux circuits imprimés rigides [7]
	H01R 12/18	• • • involving a coupling part cooperating directly with the edge of a rigid printed circuit [7]	comportant une pièce de couplage coopérant directement avec la bordure d'un circuit imprimé rigide [7]
	H01R 12/20	• • • involving a coupling part mounted on the edge of a rigid printed circuit, e.g. right angle connector, for cooperation with a counterpart [7]	comportant une pièce de couplage montée sur la bordure d'un circuit imprimé rigide, p.ex. connecteur à angle droit, pour coopération avec une pièce complémentaire [7]
	H01R 12/22	• • • involving a coupling part having contacts for abutting directly onto a surface of a rigid printed circuit, e.g. cooperating with button contacts on a board [7]	comportant une pièce de couplage munie de contacts pour venir en aboutement directement sur la surface d'un circuit imprimé rigide, p.ex. coopérant avec des contacts en forme de boutons sur la carte [7]
	H01R 12/24	• • specially adapted for flexible printed circuits or flat or ribbon cables [7]	spécialement adaptés aux circuits imprimés flexibles ou aux câbles plats ou à ruban [7]
	H01R 12/26	• • • for interconnection to other flexible printed circuits or flat or ribbon cables [7]	pour l'interconnexion avec d'autres circuits imprimés flexibles ou avec des câbles plats ou à ruban [7]

	H01R 12/28	· · · for interconnection to rigid printed circuits [7]	pour l'interconnexion avec des circuits imprimés rigides [7]
	H01R 12/30	· Terminals [7]	Bornes [7]
	H01R 12/32	· · specially adapted for rigid printed circuits [7]	spécialement adaptées aux circuits imprimés rigides [7]
	H01R 12/34	· · · Terminals having a press fit or a compliant portion and a shank passing through a hole in the rigid printed circuit [7]	Bornes munies d'une partie embrochable ou d'une partie élastique et d'une tige passant à travers un trou dans le circuit imprimé rigide [7]
	H01R 12/36	· · · Terminals for surface mounting [7]	Bornes pour le montage en surface [7]
	H01R 12/38	· · specially adapted for flexible printed circuits or flat or ribbon cables [7]	spécialement adaptées aux circuits imprimés flexibles ou aux câbles plats ou à ruban [7]

Principal Directorate Patent Grant Automation - Directorate Classification		
Project: A020	Electrical connectors	IPC range: H01R 12
Comment		29 May 2009

Ref: A020-Annex 8, R proposal definition, 26-Mar-09
A020-Annex 9, IB proposal RCL, 08-Apr-09
A020-Annex 10, IB list of crossreferences, 08-Apr-09
A020-Annex 11, JP comments on Ann. 9 and 10, 14-April-09

Referring to Annex 8:

EP thanks JP Rapporteur for the posting of the proposal of the definition of the current project.

EP basically supports its contents, but would like to make two additional remarks:

1) With regard to the phrasing of the text under the 12/88 and 12/89, EP would like to propose a change of wording in that the second sentences starting with "It that is..." be changed into " If it is automatically functioning by the insertion of the subject of connection, it is classified in H01R 12/87".

2) It is noted that in the definitions references have been made to actual patent numbers. Although the use of these patent numbers appears to give a more detailed explanation of the classification place, in concordance with the IPC Guidelines with respect to the Classification Definitions, these guidelines, however, do not explicitly foresee such use. EP would therefore like to discuss this matter prior to any decision.

Referring to Annex 9, 10:

With regard to the RCL and list of crossreferences as proposed by the IB in Annexes 9 and 10, EP supports both issues including all the comments of JP as mentioned in Annex 11.

JAPAN PATENT OFFICE

June 8, 2009

Project: A020

Subclass: H01R

JP Rapporteur Report

JP is grateful to EP Comment in Annex 13 on our Proposal-definition in Annex 8.

Responding with thanks to EP's Remark 1), JP agrees with correcting the second sentence in the Definition statement for 12/88 and 12/89 as follows.

“If it is automatically functioning by the insertion of the subject of connection, it is classified in H01R 12/87.”

As concerns Remark 2), the insertion of numbers of example documents should certainly make things easier to understand, but, were it considered more appropriate not to do so in the documentation of IPC definition projects, JP has no hesitation to remove all the numbers of patent documents from the Proposal- definition in Annex 8.

[END]

Rapporteur Summary**Project Number: A020****Rapporteur: JP****IPC: H01R 12/00-12/38****Subject: Electric connectors specially adapted for printed circuits (T044)**

Scheme adopted		RCL	Definitions		Expected Date for completion of reclassification			Expected date entry into IPC
En	Fr		En	Fr	EP	JP	US	
Yes	Posted (Anx12)	Posted (Anx9)	Posted (Anx8)				End of 2010	

1. Background/Summary

- 7th ALS meeting adopted the English version of the revised scheme (February 25-27, 2009).
- IB posted the decisions of 7th ALS meeting in Annex 7 (March 24, 2009).
- JP posted Proposal-definition in Annex 8 (March 26, 2008).
- IB posted the RCL and the List of cross references as Annexes 9 and 10 (April 8, 2009).
- JP posted comments and presented the modified RCL and List of cross references as Annex 11 (April 14, 2009).
- IB posted the French version of the scheme as Annex 12 (May 8, 2009).
- EP posted comment and made two additional remarks about the definition and supported the RCL and List of cross references including all the comments of JP in Annex 13 (Jun 4, 2009).
- JP posted Rapporteur report and answered the remarks of EP's comment in Annex 14 (Jun 8, 2009).

2. Discussion items for IPC/WG

- Approval of the definition (Annex 8,13,14)
- Approval of the RCL (Annex 9,11)
- Approval of the List of cross references (Annex 10,11)

3. Future steps for completion

- Comments on the French version of the scheme (Annex 12)
- IB to prepare the French version of the definition



IPC/A 021
ORIGINAL: English/French
DATE: 11.06.2009

WORLD INTELLECTUAL PROPERTY ORGANIZATION
ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE
GENEVA/GENÈVE

COMMITTEE OF EXPERTS OF THE IPC UNION
COMITÉ D'EXPERTS DE L'UNION DE L'IPC

AL REVISION PROJECT FILE
DOSSIER DE PROJET RÉVISION NIVEAU ÉLEVÉ

PROPOSAL BY : PROPOSITION DE :	AP	IPC AREA: DOMAINE DE LA CIB :	H01R 13/00
RAPPORTEUR :	US	TECHNICAL FIELD : DOMAINE TECHNIQUE :	E

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Decision of the subcommittee	Décision du sous-comité	IB	18.12.2008
2	Revision request with proposal	Demande de révision avec proposition	US	19.12.2008
3	Comments	Observations	JP	24.12.2008
4	Comments	Observations	IB	04.02.2009
5	Rapporteur summary for the next ALS		US	06.02.2009
6	Comments	Observations	US	18.02.2009
7	Technical Annexes		IB	18.02.2009
8	Decision of the subcommittee	Décision du sous-comité	IB	24.03.2009
9	Rapporteur report	Rapport du rapporteur	US	05.05.2009
10	Proposal - scheme	Proposition - schéma	US	05.05.2009
11	French version	Version française	IB	11.06.2009

WORLD INTELLECTUAL PROPERTY ORGANIZATION	
IPC ADVANCED LEVEL SUBCOMMITTEE	
Project: A021 Decision of the Subcommittee	Date: February 25 to 27, 2009

IPC/ALS/7/09b) A021 (H01R13)

USPTO will deliver explanations of the acronyms used in the scheme to IB by the end of March 2009. Scheme is provisionally adopted. Subject to no more technical comments arriving from other offices by the end of March 2009, IB will add the changes to RIPCIS in the beginning of April 2009. USPTO to prepare first draft of Definitions by the end of June 2009. USPTO to complete reclassification by the end of 2010. JPO and EPO not able to give a date yet. IB to prepare the French version of the scheme and RCL, and check cross-references by the end of May 2009. There is no need to create a C-project.

Annex 3**Action Points**

AP	Reference Meeting	Description	To report	Target Date

United States Patent and Trademark Office	
Rapporteur Report	
Topic: A021, H01R 13/00	Date: May 04, 2009

Ref: A021-Annex 6, R proposed scheme with IB numbering, 18-Feb-09
A021-Annex 8, IB Decision of the subcommittee, 24-Mar-09
A022-Annex 7, DE comments on A021 and A022 schemes, 13-Mar-09
A022-Annex 9, US comments on DE comments, 30-April-09

Referring to A021-Annex 8:

- At the last ALS committee meeting it was decided that a C-project was not needed.
- To date, the R-proposed scheme in A021-Annex 6 is provisionally adopted and only subject to technical comments arriving from other offices by the end of March 2009.
- The Rapporteur sent to the IB the explanations of acronyms for the scheme, which are currently incorporated in RIPCIS.
- The Rapporteur is preparing definition proposal for the project which will be posted by 30 June 2009.
- The IB will propose a RCL and Cross References by the end of May 2009 with comments due by 15 July 2009.
- The French version of the scheme will also be posted by end of May 2009 and comments are invited by CA, CH, EP, and FR by 15 July 2009.

Referring to A022-Annexes 7 and 9:

- DE posted comments concerning overlaps between A021 and A022 schemes on IEF under A022-Annex 7.
- The Rapporteur posted responses to DE comments on IEF under A022-Annex 9, which can be summarized as follows:
 - o The Rapporteur agreed with DE that there are overlaps between A021 and A022 schemes that need to be resolved. Particularly, the Rapporteur agrees with DE that the subject matters in subgroups H01R24/24, 24/26, 24/32, 24/34, 24/72, 24/74, 24/80 and 24/82 are already covered by H01R13/652-13/655 and the subgroups needed to be removed from A022 scheme.
 - o The Rapporteur wished to keep A021 scheme as proposed in A021-Annex 6 except for some modifications added in the subgroups H01R13/646 and H01R13/648 for distinction between coaxed and non-coaxed connectors or shields arrangements in A021 and A022 schemes respectively.
 - o The proposed modifications to A021 scheme are:

1/ H01R13/646 · Special adaptation for high-frequency, e.g. structures providing an impedance match or phase match

Note: Exclude shielding and coaxial type shielded connectors.

(A reference should be inserted in the definition text of H01R 13/646)

Informative references

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

Non-coaxed protective earth or shield arrangements	H01R13/648
Coaxed connectors specifically adapted for high frequency	H01R24/40-24/50

2/ H01R13/648 · Protective earth or shield arrangements on coupling devices

Note: Exclude coaxial connectors.

(A reference should be inserted in the definition text of H01R 13/648)

Informative references

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

Coaxially arranged shields	H01R24/38
----------------------------	---------------------------

3/ US proposes to change the title of H01R13/6599 to

H01R13/6599 Dielectric material made conductive, e.g. plastics material coated with metal

Please find the complete updated proposed A021 scheme in the next Annex.
Upon approval of the scheme, Rapporteur will post changes to RIPCIS.

[end]

United States Patent and Trademark Office	
Topic: A021, H01R 13/00	Date: May 05, 2009

Ref: Annex 9, A021-RR, 05-May-09

A021 updated scheme with proposed modifications presented in Annex-9.

Type	Type	Renumbering	Indent level and titles
CL	C	H01R 13/645	. . by exchangeable elements on case or base
AL	M	H01R13/646	. Special adaptation for high-frequency, e.g. structures providing an impedance match or phase match Note: Exclude shielding and coaxial type shielded connectors.
AL	N	H01R13/6461	. . Means for preventing cross talk
AL	N	H01R13/6463	. . . using twisted pair of wires
AL	N	H01R13/6464	. . . by adding capacitive element
AL	N	H01R13/6466	 on substrate, e.g. PCB [Printed Circuit Board]
AL	N	H01R13/6467	. . . by cross-over of signal conductors
AL	N	H01R13/6469	 on substrate
AL	N	H01R13/6471	. . . by special arrangement of ground and signal conductors e.g. GSGS[Ground-Signal-Ground-Signal]
AL	N	H01R13/6473	. . Impedance matching
AL	N	H01R13/6474	. . . by variation of conductive element
AL	N	H01R13/6476	 by making an aperture, e.g. hole
AL	N	H01R13/6477	. . . by variation of dielectric property
AL	N	H01R13/6479	 by making an aperture, e.g. hole
CL	C	H01R13/648	· Protective earth or shield arrangements on coupling devices Note: Exclude coaxial connectors.
CL	C	H01R13/652	. . with earth pin, blade or socket
CL	C	H01R13/655	. . with earth brace
CL	M	H01R13/658	. . High frequency shielding arrangement, e.g. EMI [Electro-Magnetic Interference] or EMP [Electro-Magnetic Pulse] proof
AL	N	H01R13/6581	. . . Structure of shield
AL	N	H01R13/6582	 with resilient means for engaging mating connector
AL	N	H01R13/6583	 with separate conductive resilient member between mating shield members
AL	N	H01R13/6584	 formed by conductive elastomeric member, i.e. flat gasket or O-ring
AL	N	H01R13/6585	 Shielding material individually surrounding or interposed between mutually spaced contacts

AL	N	H01R13/6586	 for separating multiple connector modules
AL	N	H01R13/6587	 for mounting on PCB
AL	N	H01R13/6588	 Shield with through openings for individual contacts
AL	N	H01R13/6589	 with conductive housing part separating wires
AL	N	H01R13/659	 Shield with plural ports for distinct connectors
AL	N	H01R13/6591	... Specific features or arrangements of connection of shield to conductive member
AL	N	H01R13/6592	 to shielded cable
AL	N	H01R13/6593	 Shield composed of different pieces
AL	N	H01R13/6594	 Shield mounted on printed circuit board and connected to conductive member
AL	N	H01R13/6595	 with separate member fixing shield to PCB
AL	N	H01R13/6596	 to metal grounding panel
AL	N	H01R13/6597	 to contact of the connector
AL	N	H01R13/6598	... Material of shield
AL	N	H01R13/6599	 ~~Conductive/dielectric material~~ Dielectric material made conductive, e.g. plastics material coated with metal
CL	M	H01R13/66	. Structural association with built-in electrical component
CL	C	H01R13/719	.. specifically adapted for high frequency, e.g. with filters
AL	N	H01R13/7193	... Ferrite filter
AL	N	H01R13/7195	... Planar filter with opening for contacts
AL	N	H01R13/7197	... Filter integral with or fitted onto contact (e.g. tubular filter)
AL	M	H01R13/717	.. with built-in light source
CL	C	H01R13/68	.. with built-in fuse
AL	N	H01R13/684	... Removable fuse
AL	N	H01R13/688	 with housing part adapted for accessing the fuse
AL	N	H01R13/692	 Turnable housing part
AL	N	H01R13/696	... Integral with the terminal e.g. pin or socket
CL	C	H01R13/70	.. with built-in switch
AL	C	H01R13/703	... operated by engagement or disengagement of coupling parts (H01R13/71 takes precedence)
AL	C	H01R13/707	... interlocked with contact members or counterpart
AL	C	H01R13/ 71	... Contact members of coupling parts operating as switch
AL	C	H01R13/ 713	... the switch being a safety switch

[End]

ANNEXE 1E,F H01R

[Projet-Rapporteur : A021/US]

<WG21>

EN: 13/646 AL , C	· Special adaptation for high-frequency, e.g. structures providing an impedance match or phase match	Adaptation particulière à la haute fréquence, p.ex. structures procurant une adaptation d'impédance ou un accord de phase
EN: 13/6461 AL , N	· · Means for preventing cross talk	Moyens pour empêcher la diaphonie
EN: 13/6463 AL , N	· · · using twisted pair of wires	utilisant une paire torsadée de fils
EN: 13/6464 AL , N	· · · by adding capacitive element	en ajoutant un élément capacitif
EN: 13/6466 AL , N	· · · · on substrate, e.g. PCB [Printed Circuit Board]	sur un substrat, p.ex. une carte de circuits imprimés
EN: 13/6467 AL , N	· · · by cross-over of signal conductors	par croisement de conducteurs de signaux
EN: 13/6469 AL , N	· · · · on substrate	sur un substrat
EN: 13/6471 AL , N	· · · by special arrangement of ground and signal conductors, e.g. GSGS [Ground-Signal-Ground-Signal]	par agencement particulier des conducteurs de mise à la terre et de signaux, p.ex. GSGS [signal de mise à la terre -- signal de mise à la terre]
EN: 13/6473 AL , N	· · Impedance matching	Adaptation d'impédance
EN: 13/6474 AL , N	· · · by variation of conductive element	par variation de l'élément conducteur
EN: 13/6476 AL , N	· · · · by making an aperture, e.g. hole	en pratiquant une ouverture, p.ex. un trou
EN: 13/6477 AL , N	· · · by variation of dielectric property	par variation des propriétés diélectriques
EN: 13/6479 AL , N	· · · · by making an aperture, e.g. hole	en pratiquant une ouverture, p.ex. un trou
EN: 13/658 CL , M	· · High frequency shielding arrangements, e.g. EMI [Electro-Magnetic Interference] or EMP [Electro-Magnetic Pulse] proof	Dispositions pour le blindage en haute fréquence, p.ex. protection contre les parasites électromagnétiques ou les impulsions électromagnétiques
EN: 13/6581	· · · Structure of shield	Structure du blindage

AL , N		
EN: 13/6582 AL , N	· · · · with resilient means for engaging mating connector	avec des moyens élastiques destinés à venir en contact avec le connecteur homologue
EN: 13/6583 AL , N	· · · · with separate conductive resilient member between mating shield members	avec un organe élastique conducteur indépendant entre les organes de blindage homologues
EN: 13/6584 AL , N	· · · · · formed by conductive elastomeric member, i.e. flat gasket or O-ring	formé par un organe élastomère conducteur, p.ex. un joint plat ou un joint torique
EN: 13/6585 AL , N	· · · · Shielding material individually surrounding or interposed between mutually spaced contacts	Matériau de blindage entourant individuellement des contacts espacés les uns des autres ou interposé entre ces derniers
EN: 13/6586 AL , N	· · · · · for separating multiple connector modules	pour séparer des modules de connecteurs multibroches
EN: 13/6587 AL , N	· · · · · for mounting on PCB	pour montage sur une carte de circuits imprimés
EN: 13/6588 AL , N	· · · · · Shield with through openings for individual contacts	Blindage à ouvertures débouchantes pour contacts individuels
EN: 13/6589 AL , N	· · · · · with conductive housing part separating wires	avec partie boîtier conductrice séparant les fils
EN: 13/659 AL , N	· · · · Shield with plural ports for distinct connectors	Blindage muni de plusieurs orifices pour connecteurs distincts
EN: 13/6591 AL , N	· · · Specific features or arrangements of connection of shield to conductive member	Caractéristiques ou dispositions spécifiques de raccordement du blindage à l'organe conducteur
EN: 13/6592 AL , N	· · · · to shielded cable	à un câble blindé
EN: 13/6593 AL , N	· · · · · Shield composed of different pieces	Blindage composé de différentes pièces
EN: 13/6594 AL , N	· · · · Shield mounted on printed circuit board and connected to conductive member	Blindage monté sur une carte de circuits imprimés et raccordé à l'organe conducteur
EN: 13/6595 AL , N	· · · · · with separate member fixing shield to PCB	avec élément séparé fixant le blindage à la carte de circuits imprimés
EN: 13/6596 AL , N	· · · · to metal grounding panel	à un panneau métallique de mise à la terre
EN: 13/6597	· · · · to contact of the connector	à un contact du connecteur

AL , N		
EN: 13/6598	· · · Material of shield	Matériau du blindage
AL , N		
EN: 13/6599	· · · · Conductive or dielectric material	Matériau conducteur ou diélectrique
AL , N		
EN: 13/684	· · · Removable fuse	Fusible amovible
AL , N		
EN: 13/688	· · · · with housing part adapted for accessing the fuse	avec partie boîtier adaptée pour accéder au fusible
AL , N		
EN: 13/692	· · · · · Turnable housing part	Partie boîtier susceptible de rotation
AL , N		
EN: 13/696	· · · Integral with the terminal, e.g. pin or socket	Solidaire de la borne, p.ex. broche ou douille
AL , N		
EN: 13/717	· · with built-in light source	avec source lumineuse intégrée
AL , M		
EN: 13/7193	· · · Ferrite filter	Filtre en ferrite
AL , N		
EN: 13/7195	· · · Planar filter with opening for contacts	Filtre plan avec ouverture pour les contacts
AL , N		
EN: 13/7197	· · · Filter integral with or fitted onto contact, e.g. tubular filter	Filtre solide du contact ou monté sur ce dernier, p.ex. filtre tubulaire
AL , N		

Schéma existant pour aide à la traduction.

H01R 13/00	Details of coupling devices of the kinds covered by groups H01R 12/14 or H01R 24/00-H01R 33/00 [1,7]	Détails de dispositifs de couplage des types couverts par les groupes H01R 12/14 ou H01R 24/00-H01R 33/00 [1,7]	C
H01R 13/02	· Contact members	Contacts	C
H01R 13/03	· · characterised by the material, e.g. plating or coating materials [4]	caractérisés par le matériau, p.ex. matériaux de plaquage ou de revêtement [4]	C
H01R 13/04	· · Pins or blades for co-operation with sockets	Broches ou lames destinées à coopérer avec des alvéoles	C
H01R 13/05	· · · Resilient pins or blades (carrying separate resilient parts H01R 13/15) [3]	Fiches ou lames élastiques (comportant des parties élastiques séparées H01R 13/15) [3]	
H01R 13/08	· · · Resiliently-mounted rigid pins or blades	Broches ou lames rigides montées élastiquement	
H01R 13/10	· · Sockets for co-operation with pins or blades	Alvéoles destinés à coopérer avec des broches ou lames	C
H01R 13/11	· · · Resilient sockets (carrying	Alvéoles élastiques (comportant des	C

	separate resilient parts H01R 13/15) [3]	parties élastiques séparées H01R 13/15) [3]	
 H01R 13/115	• • • U-shaped sockets having inwardly-bent legs [3]	Alvéoles en forme de U comportant des branches recourbées intérieurement [3]	
 H01R 13/14	• • • Resiliently-mounted rigid sockets	Alvéoles rigides montés élastiquement	
 H01R 13/15	• • Pins, blades or sockets having separate spring member for producing or increasing contact pressure [3]	Broches, lames ou alvéoles ayant un ressort indépendant pour produire ou améliorer la pression de contact [3]	
 H01R 13/17	• • • the spring member being on the pin [3]	le ressort étant sur la broche [3]	
 H01R 13/18	• • • with the spring member surrounding the socket	le ressort entourant l'alvéole	
 H01R 13/187	• • • the spring member being in the socket [3]	le ressort étant dans l'alvéole [3]	
 H01R 13/193	• • Means for increasing contact pressure at the end of engagement of coupling part [3]	Moyens pour améliorer la pression de contact à la fin de l'engagement des pièces de couplage [3]	
 H01R 13/20	• • Pins, blades, or sockets shaped, or provided with separate member, to retain co-operating parts together	Broches, lames ou alvéoles conformés ou ayant une pièce séparée en vue de retenir ensemble les parties en fonctionnement	
 H01R 13/207	• • • by screw-in connection [3]	par connexion vissée [3]	
 H01R 13/213	• • • by bayonet connection [3]	par connexion à baïonnette [3]	
 H01R 13/22	• • Contacts for co-operating by abutting	Contacts pour coopération par aboutage	
 H01R 13/24	• • • resilient; resiliently mounted	élastiques; montés élastiquement	
 H01R 13/26	• • Pin or blade contacts for sliding co-operation on one side only	Broches ou lames de contact pour coopération par glissement sur un seul côté	
 H01R 13/28	• • Contacts for sliding co-operation with identically-shaped contact, e.g. for hermaphroditic coupling devices	Contacts destinés à coopérer par glissement avec un contact de forme identique, p.ex. pour des dispositifs de couplage hermaphrodites	
 H01R 13/33	• • Contact members made of resilient wire [3]	Pièces de contact faites de fil souple [3]	
 H01R 13/35	• • for non-simultaneous co-operation with different types of contact member, e.g. socket co-operating with either round or flat pin [3]	conçues pour une coopération non simultanée avec différents types de pièces de contact, p.ex. alvéole coopérant soit avec une broche ronde soit avec une broche plate [3]	
 H01R 13/40	• Securing contact members in or to a base or case; Insulating of contact members	Fixation des pièces de contact dans ou sur un socle ou un boîtier; Isolement des pièces de contact	
 H01R 13/405	• • Securing in non-demountable manner, e.g. moulding, riveting [3]	Fixation d'une manière non démontable, p.ex. par moulage, rivetage [3]	
 H01R 13/41	• • • by frictional grip in grommet, panel or base [3]	par engagement à frottement dans une rondelle isolante, un panneau ou une base [3]	
 H01R 13/415	• • • by permanent deformation of contact member [3]	par déformation permanente de la pièce de contact [3]	
 H01R 13/42	• • Securing in a demountable manner	Fixation de manière démontable	
 H01R 13/422	• • • in resilient one-piece base or case; One-piece base or case formed with resilient locking means [3]	sur un socle ou dans un boîtier flexible en une seule pièce; Socle ou boîtier en une seule pièce comportant des moyens de verrouillage élastiques [3]	
 H01R 13/424	• • • in base or case composed of a plurality of insulating parts having at least one resilient insulating part [3]	sur un socle ou dans un boîtier composé de plusieurs pièces isolantes dont l'une au moins est flexible [3]	
 H01R 13/426	• • • by separate resilient retaining piece supported by base or case, e.g. collar [3]	par un dispositif de retenue indépendant et élastique porté par le socle ou par le boîtier, p.ex. par un collier [3]	
 H01R 13/428	• • • by resilient locking means on the contact members; by locking means on resilient contact members [3]	par des moyens de verrouillage élastiques situés sur les pièces de contact; par des moyens de verrouillage situés sur des pièces de contact élastiques [3]	

	H01R 13/432	• • • by stamped-out resilient tongue snapping behind shoulder in base or case [3]	par une lame élastique emboutie à enclenchement brusque derrière un épaulement du socle ou du boîtier [3]	
	H01R 13/434	• • • by separate resilient locking means on contact member, e.g. retainer collar or ring around contact member [3]	par des moyens de verrouillage élastiques indépendants situés sur une pièce de contact, p.ex. par un collier de retenue ou un anneau situé autour de la pièce de contact [3]	
	H01R 13/436	• • • Securing a plurality of contact members by one locking piece [3]	Fixation de plusieurs pièces de contact par une seule pièce de verrouillage [3]	
	H01R 13/44	• Means for preventing access to live contacts	Moyens pour empêcher l'accès aux contacts actifs	
	H01R 13/443	• • Dummy plugs [7]	Fiches factices [7]	
	H01R 13/447	• • Shutter or cover plate [3]	Volet ou plaque de recouvrement [3]	
	H01R 13/453	• • • Shutter or cover plate opened by engagement of counterpart [3]	Volet ou plaque de recouvrement ouvert par l'engagement de la pièce complémentaire [3]	
	H01R 13/46	• Bases; Cases	Socles; Boîtiers	
	H01R 13/50	• • formed as an integral body (H01R 13/514 takes precedence) [3]	formés comme un corps intégré (H01R 13/514 a priorité) [3]	
	H01R 13/502	• • composed of different pieces (H01R 13/514 takes precedence) [3]	composés de différentes pièces (H01R 13/514 a priorité) [3]	
	H01R 13/504	• • • different pieces being moulded, cemented, welded, e.g. ultrasonic, or swaged together [3]	les différentes pièces étant moulées, collées, soudées, p.ex. par soudage à ultrasons, ou réunies par estampage [3]	
	H01R 13/506	• • • assembled by snap action of the parts [3]	assemblées par enclenchement réciproque des pièces [3]	
	H01R 13/508	• • • assembled by clip or spring [3]	assemblées par une bride ou par un ressort [3]	
	H01R 13/512	• • • assembled by screw or screws [3]	assemblées par une vis ou par des vis [3]	
	H01R 13/514	• • formed as a modular block or assembly, i.e. composed of co-operating parts provided with contact members or holding contact members between them [3]	formés comme un bloc ou un assemblage modulaire, c. à d. composés de parties coopérantes pourvues de pièces de contact ou maintenant entre elles des pièces de contact [3]	
	H01R 13/516	• • Means for holding or embracing insulating body, e.g. casing [3]	Moyens pour maintenir ou envelopper un corps isolant, p.ex. boîtier [3]	
	H01R 13/518	• • • for holding or embracing several coupling parts, e.g. frames [3]	pour maintenir ou envelopper plusieurs pièces de couplage, p.ex. châssis [3]	
	H01R 13/52	• • Dustproof, splashproof, drip-proof, waterproof, or flameproof cases	Boîtiers protégés contre la poussière, les projections, les éclaboussures, l'eau ou les flammes	
	H01R 13/523	• • • for use under water [3]	pour l'emploi sous l'eau [3]	
	H01R 13/527	• • • Flameproof cases (H01R 13/70 takes precedence) [3]	Boîtiers protégés contre les flammes (H01R 13/70 a priorité) [3]	
	H01R 13/53	• • Bases or cases for heavy duty; Bases or cases with means for preventing corona or arcing [3]	Socles ou boîtiers pour dures conditions de service; Socles ou boîtiers avec des moyens pour éviter l'effet couronne ou l'amorçage d'un arc [3]	
	H01R 13/533	• • Bases or cases made for use in extreme conditions, e.g. high temperature, radiation, vibration, corrosive environment, pressure (H01R 13/52 takes precedence) [3]	Socles ou boîtiers conçus pour l'emploi dans des conditions extrêmes, p.ex. haute température, rayonnements, vibrations, environnement corrosif, pression (H01R 13/52 a priorité) [3]	
	H01R 13/56	• Means for preventing chafing or fracture of flexible leads at outlet from coupling part	Moyens pour empêcher l'usure ou la fracture des conducteurs flexibles de sortie contre les pièces de couplage	
	H01R 13/58	• Means for relieving strain on wire connection, e.g. cord grip	Moyens pour atténuer l'effort de tension sur le câble de connexion, p.ex. serre-câble	
	H01R 13/585	• • Grip increasing with strain force [3]	le serrage augmentant avec l'effort de tension [3]	
	H01R 13/59	• • Threaded ferrule or bolt operating in a direction parallel to the cable or	une bague filetée ou un boulon agissant dans une direction parallèle à celle du	

	wire [3]	câble ou du fil [3]	
H01R 13/595	• Bolts operating in a direction transverse to the cable or wire [3]	des boulons agissant dans une direction transversale par rapport à celle du câble ou du fil [3]	
H01R 13/60	• Means for supporting coupling part when not engaged	Moyens pour supporter les pièces de couplage non engagées	
H01R 13/62	• Means for facilitating engagement or disengagement of coupling parts or for holding them in engagement [3]	Moyens pour faciliter l'engagement ou la séparation des pièces de couplage ou pour les maintenir engagées [3]	
H01R 13/621	• Bolt, set screw or screw clamp [3,5]	Boulon, vis de serrage ou attache à vis [3,5]	
H01R 13/622	• Screw-ring or screw-casing (H01R 13/623 takes precedence) [5]	Bague ou boîtier filetés (H01R 13/623 a priorité) [5]	
H01R 13/623	• Casing or ring with helicoidal groove [3,5]	Boîtier ou bague comportant une rainure hélicoïdale [3,5]	
H01R 13/625	• Casing or ring with bayonet engagement [3,5]	Boîtier ou bague à couplage à baïonnette [3,5]	
H01R 13/627	• Snap-action fastening [3]	Fixation du type à action brusque [3]	
H01R 13/629	• Additional means for facilitating engagement or disengagement of coupling parts, e.g. aligning or guiding means, levers, gas pressure [3]	Moyens additionnels pour faciliter l'engagement ou la séparation des pièces de couplage, p.ex. moyens pour aligner ou guider, leviers, pression de gaz [3]	
H01R 13/631	• • for engagement only [3]	pour l'engagement uniquement [3]	
H01R 13/633	• • for disengagement only [3]	pour la séparation uniquement [3]	
H01R 13/635	• • • by mechanical pressure, e.g. spring force [3]	par une pression mécanique, p.ex. par la force d'un ressort [3]	
H01R 13/637	• • • by fluid pressure, e.g. explosion [3]	par la pression d'un fluide, p.ex. par explosion [3]	
H01R 13/639	• Additional means for holding or locking coupling parts together after engagement [3]	Moyens additionnels pour maintenir ou verrouiller les pièces de couplage entre elles après l'engagement [3]	
H01R 13/64	• Means for preventing, inhibiting or avoiding incorrect coupling	Moyens pour empêcher, bloquer ou éviter le couplage incorrect	
H01R 13/641	• by indicating incorrect coupling; by indicating correct or full engagement [7]	par l'indication du couplage incorrect; par l'indication d'un engagement complet ou correct [7]	
H01R 13/642	• by position or shape of contact members [3]	par la position ou la forme des pièces de contact [3]	
H01R 13/645	• by exchangeable elements on case or base [3]	par des éléments interchangeables sur le boîtier ou sur le socle [3]	
H01R 13/646	• Special adaptation for high-frequency, e.g. structures providing an impedance match or phase match (H01R 24/02 takes precedence; shielding arrangements H01R 13/658; special adaptation for high-frequency by way of structural association with built-in electrical component H01R 13/719) [7]	Adaptation particulière à la haute fréquence, p.ex. structures procurant une adaptation d'impédance ou un accord de phase (H01R 24/02 a priorité; dispositions pour le blindage H01R 13/658; adaptation particulière à la haute fréquence au moyen d'association structurelle avec des composants électriques incorporés H01R 13/719) [7]	
H01R 13/648	• Protective earth or shield arrangements on coupling devices [3]	Dispositions pour mise à la terre ou pour servir d'écran sur les dispositifs de couplage [3]	
H01R 13/652	• with earth pin, blade or socket [3]	avec broche, lame ou alvéole de mise à la terre [3]	
H01R 13/655	• with earth brace [3]	avec étrier de mise à la terre [3]	
H01R 13/658	• High frequency shielding arrangements [3]	Dispositions pour le blindage en haute fréquence [3]	
H01R 13/66	• Structural association with built-in electrical component	Association constructive avec des composants électriques incorporés	
H01R 13/68	• with built-in fuse	avec fusible incorporé	
H01R 13/70	• with built-in switch	avec interrupteur incorporé	
H01R 13/703	• • operated by engagement or	actionné par l'engagement ou le retrait des	

	disengagement of coupling parts (H01R 13/71 takes precedence) [3]	pièces de couplage (H01R 13/71 a priorité) [3]	
	H01R 13/707 · · · interlocked with contact members or counterpart [3]	verrouillé avec les pièces de contact ou la pièce complémentaire [3]	
	H01R 13/71 · · · Contact members of coupling parts operating as switch [3]	Eléments de contact des pièces de couplage agissant comme interrupteur [3]	
	H01R 13/713 · · · the switch being a safety switch [3]	l'interrupteur étant un interrupteur de sécurité [3]	
	H01R 13/717 · · with built-in light bulb [3]	avec ampoule électrique incorporée [3]	
	H01R 13/719 · · specially adapted for high frequency, e.g. with filters [4]	spécialement adaptés à la haute fréquence, p.ex. avec des filtres [4]	
	H01R 13/72 · Means for accommodating flexible lead within the holder	Moyens pour adapter une connexion flexible dans le support	
	H01R 13/73 · Means for mounting coupling parts to apparatus or structures, e.g. to a wall [4]	Moyens de montage des pièces de couplage sur les appareils ou structures, p.ex. sur un mur [4]	
	H01R 13/74 · · for mounting coupling parts in openings of a panel [3]	Montage des pièces de couplage dans les ouvertures d'un panneau [3]	



IPC/A 022

ORIGINAL: English/French

DATE: 10.06.2009

WORLD INTELLECTUAL PROPERTY ORGANIZATION
ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE
GENEVA/GENÈVE

COMMITTEE OF EXPERTS OF THE IPC UNION
COMITÉ D'EXPERTS DE L'UNION DE L'IPC

AL REVISION PROJECT FILE
DOSSIER DE PROJET RÉVISION NIVEAU ÉLEVÉ

PROPOSAL BY : PROPOSITION DE :	EP	IPC AREA: DOMAINE DE LA CIB :	H01R 24/00
RAPPORTEUR :	EP	TECHNICAL FIELD : DOMAINE TECHNIQUE :	E

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Decision of the subcommittee	Décision du sous-comité	IB	18.12.2008
2	Initial Proposal	Proposition Initiale	EP	19.12.2008
3	Comments	Observations	JP	24.12.2008
4	Comments	Observations	US	25.12.2008
5	Comments	Observations	IB	04.02.2009
6	Rapporteur summary for the next ALS		EP	19.02.2009
7	Comments	Observations	DE	13.03.2009
8	Decision of the subcommittee	Décision du sous-comité	IB	24.03.2009
9	Comments	Observations	US	30.04.2009
10	Rapporteur report	Rapport du rapporteur	EP	05.06.2009
11	Proposal - scheme	Proposition - schéma	EP	05.06.2009

Principal Directorate Patent Grant Automation - Directorate Classification		
Project: A022	Overall structure of electrical connectors	IPC range: H01R 24
Rapporteur Initial Scheme Proposal		19 December 2008

Background

At the ALS extraordinary meeting in November 2008, project A022 was created. This advanced level revision project is based on the results of Harmony project T046.

Comments

To avoid a complicated and thus user unfriendly group numbering by introducing the new proposed groups in the existing scheme of H01R24/00, **R** preferred to renumber all existing groups.

Scheme Proposal

		H01R	
CL	U	24/00	Two-part coupling devices, or either of their cooperating parts, characterised by their overall structure (specially adapted for printed circuits, flat or ribbon cables, or like structures H01R 12/00 ; specially adapted for supporting apparatus H01R 33/00)
AL	N	24/20	• Coupling parts carrying sockets, clips, or analogous counter contacts and secured only to wire or cable
AL	N	24/22	• • with additional earth or shield contact
AL	N	24/24	• • • with earth brace
AL	N	24/26	• • • the additional contact being formed as pin or socket contact
AL	N	24/28	• Coupling parts carrying pins, blades or analogous contacts and secured only to wire or cable
AL	N	24/30	• • with additional earth or shield contact
AL	N	24/32	• • • with earth brace
AL	N	24/34	• • • the additional contact being formed as pin or socket contact
AL	N	24/36	• comprising means for reducing cross-talk, e.g. special layout of conductors between input and output pins
AL	N	24/38	• having concentrically or coaxially-arranged contacts
AL	N	24/40	• • specially adapted for high frequency
AL	N	24/42	• • • comprising impedance matching means or electrical components, e.g. filters or switches
AL	N	24/422	• • • • comprising impedance matching means
AL	N	24/425	• • • • comprising switches
AL	N	24/428	• • • • comprising protection devices, e.g. overvoltage protection

AL	N	24/44	• • • mounted on a printed circuit board
AL	N	24/46	• • • mounted in or to a panel or structure
AL	N	24/48	• • • Intermediate parts, e.g. adapters, splitters or elbows
AL	N	24/50	• • • characterised by the shape of the cable, e.g. corrugated cable, twisted pair cable, cables with two screens or hollow cable
AL	N	24/52	• Contacts spaced along longitudinal axis of engagement
AL	N	24/54	• Contacts spaced along planar side wall transverse to longitudinal axis of engagement
AL	N	24/56	• • Sliding engagements with one side only, e.g. modular jack coupling devices
AL	N	24/58	• • • for high frequency e.g. RJ 45
AL	N	24/60	• with current-carrying pins, blades or analogous contacts and secured to apparatus or structure, e.g. to a wall
AL	N	24/62	• • mounted on directly pluggable apparatus
AL	N	24/64	• • with additional earth or shield contact
AL	N	24/66	• • • with earth brace
AL	N	24/68	• • • the additional contact being formed as pin or socket contact
AL	N	24/70	• with current-carrying sockets, clips or analogous contacts and secured to apparatus or structure, e.g. to a wall
AL	N	24/72	• • with additional earth or shield contact
AL	N	24/74	• • • with earth brace
AL	N	24/76	• • • the additional contact being formed as pin or socket contact
AL	N	24/78	• Hermaphroditic coupling devices
AL	N	24/80	• Parallel contacts arranged about a common axis
	D	24/02	< transferred to H01R24/38 + sub groups >
	D	24/04	< transferred to H01R24/52 >
	D	24/06	< transferred to H01R24/00 + sub groups >
	D	24/08	< transferred to H01R24/00 + sub groups >
	D	24/10	< transferred to H01R24/00 + sub groups >
	D	24/12	< transferred to H01R24/00 + sub groups >
	D	24/14	< transferred to H01R24/60 + sub groups >
	D	24/16	< transferred to H01R24/70 + subgroups >
	D	24/18	< transferred to H01R24/78 >

<u>WORLD INTELLECTUAL PROPERTY ORGANIZATION</u>	
IPC ADVANCED LEVEL SUBCOMMITTEE	
Project: A 022 H01R 24/00 Comments	January, 2009

Renumbering of scheme

The scheme below is based on the Rapporteur proposal of Annex 2, renumbered in order to comply with the IPC numbering rules.

		H01R	
CL	U	24/00	Two-part coupling devices, or either of their cooperating parts, characterised by their overall structure (specially adapted for printed circuits, flat or ribbon cables, or like structures H01R 12/00 ; specially adapted for supporting apparatus H01R 33/00)
AL	N	24/20	• Coupling parts carrying sockets, clips, or analogous counter contacts and secured only to wire or cable
AL	N	24/22	• • with additional earth or shield contact
AL	N	24/24	• • • with earth brace
AL	N	24/26	• • • the additional contact being formed as pin or socket contact
AL	N	24/28	• Coupling parts carrying pins, blades or analogous contacts and secured only to wire or cable
AL	N	24/30	• • with additional earth or shield contact
AL	N	24/32	• • • with earth brace
AL	N	24/34	• • • the additional contact being formed as pin or socket contact
AL	N	24/36	• comprising means for reducing cross-talk, e.g. special layout of conductors between input and output pins
AL	N	24/38	• having concentrically or coaxially-arranged contacts
AL	N	24/40	• • specially adapted for high frequency
AL	N	24/42	• • • comprising impedance matching means or electrical components, e.g. filters or switches
AL	N	24/44> 24/422	• • • • comprising impedance matching means
AL	N	24/46> 24/425	• • • • comprising switches
AL	N	24/48> 24/428	• • • • comprising protection devices, e.g. overvoltage protection
AL	N	24/50> 24/44	• • • mounted on a printed circuit board

AL	N	24/52> 24/46	• • • mounted in or to a panel or structure
AL	N	24/54> 24/48	• • • Intermediate parts, e.g. adapters, splitters or elbows
AL	N	24/56> 24/50	• • • characterised by the shape of the cable, e.g. corrugated cable, twisted pair cable, cables with two screens or hollow cable
AL	N	24/58> 24/52	• Contacts spaced along longitudinal axis of engagement
AL	N	24/60> 24/54	• Contacts spaced along planar side wall transverse to longitudinal axis of engagement
AL	N	24/62> 24/56	• • Sliding engagements with one side only, e.g. modular jack coupling devices
AL	N	24/64> 24/58	• • • for high frequency e.g. RJ 45
AL	N	24/66> 24/60	• with current-carrying pins, blades or analogous contacts and secured to apparatus or structure, e.g. to a wall
AL	N	24/68> 24/62	• • mounted on directly pluggable apparatus
AL	N	24/70> 24/64	• • with additional earth or shield contact
AL	N	24/72> 24/66	• • • with earth brace
AL	N	24/74> 24/68	• • • the additional contact being formed as pin or socket contact
AL	N	24/76> 24/70	• with current-carrying sockets, clips or analogous contacts and secured to apparatus or structure, e.g. to a wall
AL	N	24/78> 24/72	• • with additional earth or shield contact
AL	N	24/80> 24/74	• • • with earth brace
AL	N	24/82> 24/76	• • • the additional contact being formed as pin or socket contact
AL	N	24/84> 24/78	• Hermaphroditic coupling devices
AL	N	24/86> 24/80	• Parallel contacts arranged about a common axis
	D	24/02	< transferred to H01R24/38 + sub groups >
	D	24/04	< transferred to H01R24/52 >
	D	24/06	< transferred to H01R24/00 + sub groups >
	D	24/08	< transferred to H01R24/00 + sub groups >
	D	24/10	< transferred to H01R24/00 + sub groups >
	D	24/12	< transferred to H01R24/00 + sub groups >
	D	24/14	< transferred to H01R24/60 + sub groups >

	D	24/16	< transferred to H01R24/70 + subgroups >
	D	24/18	< transferred to H01R24/78 >

Rapporteur Summary**Project Number: A022****Rapporteur: EP****IPC: H01R24****Subject: Overall structure of electrical connectors (T046)****Core Level Impact: No**

Scheme adopted		RCL	Definitions		Expected Date for completion of reclassification			Expected date entry into AL	Expected date entry into CL
En	Fr		En	Fr	EP	JP	US		
NO	NO	TBP	TBP		TBD	TBD	TBD		

1. Background/Summary

- IB posted decision to create an A-project (Project A022) on December 18, 2008.
- EP posted an initial Proposal of the scheme on December 19, 2008.
- JP posted comment and expressed support of EP proposal on December 24, 2008
- US posted comment and expressed support of EP proposal on December 25, 2008
- IB posted comments and renumbered the scheme on February 4, 2009.
- All comments on A022 requested to be posted by Feb 27, 2009.

2. Discussion items for ALS

- Project still open for comments, so no particular requirements.
- Possibly preliminary adoption of the scheme.

3. Future steps for completion

- EP to post draft for definition
- IB to prepare the French version of the scheme
- IB to prepare the RCL

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DEUTSCHES PATENT- UND MARKENAMT	Class/Subcl.: H01R 24/00
German Patent and Trade Mark Office	Date:13.03.2009
DE - Comments — A 022	

Re: Annex 5

DE experts had detailed discussions about the proposed scheme and have the following comments:

- 1) The projects **A021 and A022** should be treated in relation to each other because of reciprocal overlaps.
- 2) To groups H01R 13/646 versus H01R 24/36, 24/38 et seq.:
 - There exist overlaps between the groups H01R 13/6461 and H01R 24/36, as well as between H01R 13/6473 et seq. and H01R 24/44; the differences between them with regard to the contents are therefore not clear. This situation would lead in both cases to a random classification of application documents in one of the groups.
 - In DE almost only coax-connectors (ca. 3500 documents) are classified within group H01R 13/646, which came there from H01R 17/12 through the transfer rule (IPC 7 from 1.1.2000); until now, EP classified only a few documents (ca. 120) within this group. DE classified about 2000 documents within the group 24/02; EP classified under 17/12 ca. 8800 documents.
 - Besides that, coax-connectors are “characterized by their overall structure” (the title of H01R 24/00); on the other hand there exists also “special adaptation for high-frequency” as a detail in subgroups 13/658 and 13/719.
 - For these reasons, **we propose to eliminate the subgroup H01R 13/646** and to integrate its contents within H01R 24/36, resp. 24/40 et seq. (with the proposed subgroups); the new proposed subgroups 13/6461 et seq., resp. 13/6473 et seq., would be transferred to 24/36 et seq., resp. 24/44 et seq..
 - The subgroup 13/6463 doesn't appear to make sense, because “twisted pair of wires” aren't a component part of a connector and an adaptation of the connector especially therefore isn't visible either.

3) Further comments to H01R 24/.. :

- The differentiation between 24/20 and 24/28 appears to be superfluous, because in most cases it doesn't care or it's not specified whether "sockets, clips" or "pins, blades" are claimed; the same applies for 24/66 and 24/76.
- The proposed subgroups 24/24, 24/26, 24/32, 24/34, 24/72, 24/74, 24/80 and 24/82 within 24/... appear to be superfluous, because they relate to *details* of a connector, which are already provided within the subgroups H01R 13/652 and 13/655; so here a similar situation to 2) would arise, in which the differences between the groups aren't clear and therefore it wouldn't be clear where to classify such documents. A permanent redundant classification would lead to an useless growth of the patent documents database.
- Because of H01R 24/50, a reference should be inserted in the definition text of H01R 12/00 that coax-connectors are to be classified under 24/... (provided that 13/646 is eliminated; otherwise the reference should comprise also 13/646)
- The term "current-carrying" in 24/66 and 24/76 is in our opinion superfluous, since the "sockets, clips" or the "pins, blades" of a connector have only this function; in case this term is kept, it should be inserted also in 24/20 and 24/28 due to consistency reasons.

4) Further comment to H01R 13/.. :

- The proposed subgroup 13/6599 appears to be superfluous, because (almost) no other materials besides conductive or dielectric ones are imaginable for shielding.

5) In the D part (last part) of the proposed scheme there are some numbering mapping errors; the corrected version thereof is:

	D	24/02	< transferred to H01R24/38 + sub groups >
	D	24/04	< transferred to H01R24/58 >
	D	24/06	< transferred to H01R24/00 + sub groups >
	D	24/08	< transferred to H01R24/00 + sub groups >
	D	24/10	< transferred to H01R24/00 + sub groups >
	D	24/12	< transferred to H01R24/00 + sub groups >
	D	24/14	< transferred to H01R24/66 + sub groups >
	D	24/16	< transferred to H01R24/76 + subgroups >

	D	24/18	< transferred to H01R24/84 >
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WORLD INTELLECTUAL PROPERTY ORGANIZATION	
IPC ADVANCED LEVEL SUBCOMMITTEE	
Project: A022 Decision of the Subcommittee	Date: February 25 to 27, 2009

IPC/ALS/7/09b) A022 (H01R24)

The ALS agreed to a provisional adoption of the scheme. Subject to no more technical comments arriving from other offices by end of March 2009, IB will add the changes to RIPCIS by the beginning of April 2009.

EPO to prepare first draft of Definitions by the end of April 2009 based on the Definitions made at Harmony Project.

IB to prepare the French version of the scheme, RCL and list of cross-references by the end of May 2009.

Before the end of March 2009, EPO will check whether transfer notes in the technical annex can be made more precise.

USPTO to complete reclassification by the end of 2010. JPO and EPO were not able to give a date yet.

Annex 3**Action Points**

AP	Reference Meeting	Description	To report	Target Date

United States Patent and Trademark Office	
Topic: A022, Subclass H01R24/00	Date: 30-April-09

Ref: A022-Annex 7: DE comments, 13-Mar-09
A022-Annex 5: IB comments, 04-Feb-09
A021-Annex 6: US comments, 18-Feb-09

US greatly thanks DE for its comments.

US comments under each item listed in Annex 7 are presented as follows:

Referring to 1):

US agrees there are some overlaps between A021 and A022 that need to be resolved.

Referring to 2):

- **H01R 13/646-13/6599:** US proposed range, H01R 13/646-13/6479, to cover non-coaxial connectors specifically adapted for high-frequency, which are distinct from subject matter covered by H01R 24/00, especially H01R24/38-24/50 which are coaxial connectors or coaxially arranged contacts. Therefore, US can't agree with DE suggestion as presented in item 2), fourth bullet and would like to keep the range as is.
- **H01R13/6463:** US views "twisted pair of wires" as a structure of connector [as in US 5,899,770] and would like to maintain it.

Referring to 3):

- **H01R24/20 and 24/28, 24/66 and 24/76:**
US views that the subject matter covered in these subgroups are distinct from one another and the inclusion of these subgroups in the scheme provides an efficient arrangement for the search of the art. US would like to maintain them as is.
- **H01R24/24, 24/26, 24/32, 24/34, 24/72, 24/74, 24/80 and 24/82:**
US agrees to delete these subgroups since they are already covered by H01R13/652-13/655.
- **Reference added:**
Since H01R13/646-13/6479 stay and are for non coax-connectors, a reference should be inserted in the definition text of H01R 13/646 to specify that coax-connectors are found in H01R24/38-24/50.
- **H01R 24/66 and 24.76:**
US does not have any objection if the term "current-carrying" in 24/66 and 24/76 are removed.

Referring to 4):

H01R13/6599: This subgroup is intended to cover subject matter such as plastic plated with metal [as in US 5,509,823]. Its title could be changed to the one presented in ECLA

13/658D, which is "dielectric material made conductive, e.g. plastics material coated with metal".

Proposed Modifications:

- **For A021 Scheme:**

1/ US would like to add notes under H01R13/646 and H01R13/648 as follows:

H01R13/646 . Special adaptation for high-frequency, e.g. structures providing an impedance match or phase match

Note: Exclude shielding and coaxial type shielded connectors.

[to be distinct from H01R13/648, and 13/658+]

H01R13/648 · Protective earth or shield arrangements on coupling devices

Note: Exclude coaxial connectors. *[to be distinct from H01R24/38]*

2/ US proposes to change the title of H01R13/6599 as

H01R13/6599 Dielectric material made conductive, e.g., plastics material coated with metal

- **For A022 Scheme:**

US proposes to delete H01R24/36 (comprising means for reducing cross-talk, ...), since most of connectors with means to reduce cross-talk are adapted for high frequency.

Thus, all non-coaxial connectors specifically adapted for high frequency with means for reducing cross-talk are classified in H01R13/6461-13/6471 and coaxial connectors with means for reducing cross-talk will be placed in H01R24/38 or H01R24/40-24/50 appropriately according to with or without adapting for high frequency.

[end]

Principal Directorate Patent Grant Automation - Directorate Classification		
Project: A022	Overall structure of electrical connectors	IPC range: H01R 24
Rapporteur Report		05 Jun 2009

Ref: A022-Annex 5, R proposed scheme with IB numbering, 04-Feb-09
A022-Annex 8, IB Decision of the subcommittee, 24-Mar-09
A022-Annex 7, DE comments on A021 and A022 schemes, 13-Mar-09
A022-Annex 9, US comments on DE comments, 30-April-09
A021-Annex 10, US new scheme proposal , 05-May-09

Referring to A022-Annex 8:

At the last ALS committee meeting it was decided that the R-proposed scheme in A022-Annex 5 was provisionally to be adopted being only subject to technical comments arriving from other offices by the end of March 2009. Comments have arrived though from DE (Annex 7) and US (Annex 9) and will be discussed below and consequently a new scheme proposal will be annexed.

The Rapporteur is currently preparing a first draft of Definitions based on the Definitions made in the Harmony Project.

The Rapporteur was to check whether transfer notes in the technical annex can be made more precise. An improved list is integrated in the new scheme proposal, as annexed.

Referring to A022-Annexes 7, 9 and 10:

Referring to point 1 of Annex 7, R concurs with the comments of DE and US in that the projects A021 and A022 are related to each other. R considers the proposal of the new schemes of A021 (A021-Annex 10) and the A022 as attached in a separate annex to resolve any possible overlap.

Referring to point 2 of Annex 7, fourth bullet, R proposes to delete H01R 24/36 in favour of the H01R13/6461, since most of connectors with means to reduce cross-talk are adapted for high frequency and are to be found there.

Referring to point 3 (first bullet) of Annex 7, R respectfully disagrees with DE since R considers that there are important structural differences between "sockets, clips" and "pins and blades". R therefore proposes to maintain the H01R 24/20 and 24/28 as well as the 24/66 and 24/76 in concurrence with the comments of US, Annex 9.

Referring to point 3 (second bullet) of Annex 7, R agrees with DE to delete the listed subgroups because of the already existing IPC entries H01R 13/652 and 13/655.

Referring to point 3 (fourth bullet) of Annex 7, R agrees with DE to remove the term "current-carrying" in 24/66 and 24/76, which is also supported by US , Annex 9.

Referring to point 5 of Annex 7, R concurs with the comments of DE regarding mapping errors, which therefore have been taken into account in the new scheme proposal as annexed.

Roland Tappeiner,

Ruben de Bekker

Principal Directorate Patent Grant Automation - Directorate Classification		
Project: A022	Overall structure of electrical connectors	IPC range: H01R 24
Rapporteur Scheme Proposal		05 Jun 2009

Background

Reference: Annex 10, A022-RR.

A022 updated scheme with proposed modifications presented in Annex-10.

Comments

The changes to the scheme have been proposed thereby referring to the latest scheme as renumbered by the IB in Annex-5.

Scheme Proposal

		H01R	
CL	U	24/00	Two-part coupling devices, or either of their cooperating parts, characterised by their overall structure (specially adapted for printed circuits, flat or ribbon cables, or like structures H01R 12/00 ; specially adapted for supporting apparatus H01R 33/00)
AL	N	24/20	Coupling parts carrying sockets, clips, or analogous counter contacts and secured only to wire or cable
AL	N	24/22	• • with additional earth or shield contact
~~AL~~	~~N~~	~~24/24~~	~~• • • with earth brace~~
~~AL~~	~~N~~	~~24/26~~	~~• • • the additional contact being formed as pin or socket contact~~
AL	N	24/28	Coupling parts carrying pins, blades or analogous contacts and secured only to wire or cable
AL	N	24/30	• • with additional earth or shield contact
~~AL~~	~~N~~	~~24/32~~	~~• • • with earth brace~~
~~AL~~	~~N~~	~~24/34~~	~~• • • the additional contact being formed as pin or socket contact~~
~~AL~~	~~N~~	~~24/36~~	~~• comprising means for reducing cross talk, e.g. special layout of conductors between input and output pins~~
AL	N	24/38	having concentrically or coaxially-arranged contacts
AL	N	24/40	• • specially adapted for high frequency
AL	N	24/42	• • • comprising impedance matching means or electrical components, e.g. filters or switches
AL	N	24/44 24/422	• • • • comprising impedance matching means
AL	N	24/46 24/425	• • • • comprising switches

AL	N	24/48> 24/428	• • • • comprising protection devices, e.g. overvoltage protection
AL	N	24/50> 24/44	• • • mounted on a printed circuit board
AL	N	24/52> 24/46	• • • mounted in or to a panel or structure
AL	N	24/54> 24/48	• • • Intermediate parts, e.g. adapters, splitters or elbows
AL	N	24/56> 24/50	• • • characterised by the shape of the cable, e.g. corrugated cable, twisted pair cable, cables with two screens or hollow cable
AL	N	24/58> 24/52	• Contacts spaced along longitudinal axis of engagement
AL	N	24/60> 24/54	• Contacts spaced along planar side wall transverse to longitudinal axis of engagement
AL	N	24/62> 24/56	• • Sliding engagements with one side only, e.g. modular jack coupling devices
AL	N	24/64> 24/58	• • • for high frequency e.g. RJ 45
AL	N	24/66> 24/60	• with ~~current-carrying~~ pins, blades or analogous contacts and secured to apparatus or structure, e.g. to a wall
AL	N	24/68> 24/62	• • mounted on directly pluggable apparatus
AL	N	24/70> 24/64	• • with additional earth or shield contact
~~AL~~	~~N~~	~~24/72> 24/66~~	~~• • • with earth brace~~
~~AL~~	~~N~~	~~24/74> 24/68~~	~~• • • the additional contact being formed as pin or socket contact~~
AL	N	24/76> 24/70	• with ~~current-carrying~~ sockets, clips or analogous contacts and secured to apparatus or structure, e.g. to a wall
AL	N	24/78> 24/72	• • with additional earth or shield contact
~~AL~~	~~N~~	~~24/80> 24/74~~	~~• • • with earth brace~~
~~AL~~	~~N~~	~~24/82> 24/76~~	~~• • • the additional contact being formed as pin or socket contact~~
AL	N	24/84> 24/78	• Hermaphroditic coupling devices
AL	N	24/86> 24/80	• Parallel contacts arranged about a common axis
	D	24/02	< transferred to H01R24/38 + sub groups >
	D	24/04	< transferred to H01R 24/58 >24/52 >
	D	24/06	< transferred to H01R24/28, H01R 24/66 > 24/60 >

	D	24/08	< transferred to H01R24/30, H01R24/70> 24/64>
	D	24/10	< transferred to H01R24/20, H01R24/76> 24/70>
	D	24/12	< transferred to H01R24/22, H01R24/78> 24/72 >
	D	24/14	< transferred to H01R24/66>24/60 >
	D	24/16	< transferred to H01R24/76>24/70 >
	D	24/18	< transferred to H01R24/84>24/78 >



IPC/A 023
ORIGINAL: English/French
DATE: 10.06.2009

WORLD INTELLECTUAL PROPERTY ORGANIZATION
ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE
GENEVA/GENÈVE

COMMITTEE OF EXPERTS OF THE IPC UNION
COMITÉ D'EXPERTS DE L'UNION DE L'IPC

AL REVISION PROJECT FILE
DOSSIER DE PROJET RÉVISION NIVEAU ÉLEVÉ

PROPOSAL BY : PROPOSITION DE :	US	IPC AREA: DOMAINE DE LA CIB :	G03F 1/00
RAPPORTEUR :	US	TECHNICAL FIELD : DOMAINE TECHNIQUE :	E

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Decision of the subcommittee	Décision du sous-comité	IB	20.03.2009
2	Revision request with proposal	Demande de révision avec proposition	US	31.03.2009
3	Comments	Observations	EP	17.04.2009
4	Rapporteur report	Rapport du rapporteur	US	08.06.2009

WORLD INTELLECTUAL PROPERTY ORGANIZATION	
IPC ADVANCED LEVEL SUBCOMMITTEE	
Project: A023 Decision of the Subcommittee	Date: February 25 to 27, 2009

IPC/ALS/7/09b) G03F (T036)

AL revision project A023 (based on T036) is created, with US as Rapporteur.
USPTO to post initial proposal once the new project is created by the IB on the IEF.

REQUEST FOR REVISION OF THE IPC (AL)

Class(es) or Subclass(es): **G03F 1/00**

1. Demarcation of the area to be revised: **Photo-masks and screens**

2. Reasons for the request:

- (a) Subdivision of IPC groups having an excessive file size and a high rate of growth of the PCT minimum documentation [☐]
- (b) Change of the classification structure where it has become inefficient for searching [X]
- (c) Clarification of wordings in order to improve consistency in classifying or to avoid overlap with other places of the IPC [☐]

Explanation of above:

This proposal aims at making this highly active technical area visible to all the users of the IPC.

3. For requests under 2(a), numerical data (PCT min. one document per family):

- (a) File size: [☐]
- (b) Rate of growth (applications filed in) 2004: [☐] 2005: [☐]
- (c) Average size of new subgroups: [☐]
- (d) Proposal tested ? **YES** [☐] **NO** [X]

4. Detailed proposal: Submitted herewith [X]
 We are prepared to elaborate it [☐]
 We are not in a position to elaborate it [☐]

5. General outline, possible solutions, options ,etc.:

The annexed proposal is based on the final scheme agreement of Trilateral Harmony project **T036**.

Proposing Office: **USPTO**

Date: February 11, 2009

Signature: Terrence Mackey / John Salotto

	Type	Number	Indent level and titles
CL	C	G03F 1/00	Originals for the photomechanical production of textured or patterned surfaces, e.g. photo-masks, masks or reticles; Mask blanks or pellicles therefor; Containers specially adapted therefor; Preparation thereof
CL	N	Notes	1. In this main group, the first place priority rule is applied, i.e. at each hierarchical level, classification is made in the first appropriate place.
AL	D	G03F 1/02	<i>transferred to 1/88</i>
AL	D	G03F 1/04	<i>transferred to 1/90</i>
AL	D	G03F 1/06	<i>transferred to 1/92</i>
AL	N	G03F 1/20	. Masks or mask blanks for imaging by charged particle beam [CPB] radiation, e.g. by electron beam; Preparation thereof
AL	N	G03F 1/22	. Masks or mask blanks for imaging by radiation of 100nm or shorter wavelength, e.g. X-ray masks, Extreme ultra-violet [EUV] masks; Preparation thereof
AL	N	G03F 1/24	. . Reflection masks
AL	N	G03F 1/26	. Phase shift masks [PSM]; PSM blanks; Preparation thereof
AL	N	G03F 1/28	. . Three or more diverse phases on the same PSM
AL	N	G03F 1/30	. . Alternating PSM, e.g. Levenson-Shibuya PSM
AL	N	G03F 1/32	. . Attenuating PSM, e.g. halftone PSM or masks having semi-transparent phase shift portions
AL	N	G03F 1/34	. . Phase-edge PSM, e.g. chromeless PSM
AL	N	G03F 1/36	. Masks having optical proximity correction [OPC] features; Preparation thereof, e.g. OPC design processes
AL	N	G03F 1/38	. Masks having auxiliary features, e.g. for alignment or for testing
AL	N	G03F 1/40	. . Electrostatic discharge [ESD] features, e.g. ESD feature of conductive metal layer around periphery of the mask substrate
AL	N	G03F 1/42	. . Alignment or registration features, e.g. alignment marks on the mask substrate
AL	N	G03F 1/44	. . Testing or measuring features, e.g. focus monitors, sawtooth or notched scales, or grid patterns
AL	N	G03F 1/46	. . Antireflective coatings
AL	N	G03F 1/48	. . Protective coatings
AL	N	G03F 1/50	. Mask blanks; Preparation thereof
AL	N	G03F 1/52	. Reflectors

AL	N	G03F 1/54	. Absorbers, e.g. of opaque material
AL	N	G03F 1/56	. . Organic absorbers, e.g. photo-resists
AL	N	G03F 1/58	. . with plural diverse absorber layers, e.g. stacked multilayer absorbers
AL	N	G03F 1/60	. Substrates
AL	N	G03F 1/62	. Pellicles, e.g. pellicle assemblies having membrane on support frame
AL	N	G03F 1/64	. . having special frames, e.g. structure or material
AL	N	G03F 1/66	. Containers specially adapted for masks, mask blanks or pellicles
AL	N	G03F 1/68	. Preparation methods
AL	N	G03F 1/70	. . Layout or design processes, e.g. with second iteration correction of mask pattern for imaging
AL	N	G03F 1/72	. . Repair or correction of mask defects
AL	N	G03F 1/74	. . . by charged particle beam [CPB], e.g. focused ion beam repair or correction of defects
AL	N	G03F 1/76	. . Patterning of masks
AL	N	G03F 1/78	. . . by charged particle beam [CPB], e.g. electron beam patterning of masks
AL	N	G03F 1/80	. . Etching
AL	N	G03F 1/82	. . Auxiliary processes, e.g. cleaning or inspecting
AL	N	G03F 1/84	. . . Inspecting
AL	N	G03F 1/86	 by charged particle beam [CPB]
AL	N	G03F 1/88	. by photographic processes for production of originals simulating relief
AL	N	G03F 1/90	. by montage processes
AL	N	G04F 1/92	. from printing surfaces

United States Patent and Trademark Office	
WIPO Revision Working Group	
Project: A023 Photo-masks and screens (T036)	Date: June 8, 2009

Rapporteur Report

During the recent T036 harmony project visit held May, 2009 in Tokyo, communications highlighted differing viewpoints between the opinions of JP, EP, and US representatives which resulted in a modified proposal. Consensus was achieved to modify the T036/A023 proposal for subgroups to be established under G03F 1/00 as follows:

	Type	Number	Indent level and titles
CL	C	G03F 1/00	Originals for ~~the~~ photomechanical production of textured or patterned surfaces, e.g., masks, photo-masks, ~~masks or~~ reticles; Mask blanks or pellicles therefor; Containers specially adapted therefor; Preparation thereof
CL	N	Notes	1. In this main group, the first place priority rule is applied, i.e. at each hierarchical level, classification is made in the first appropriate place.
AL	D	G03F 1/02	<i>transferred to 1/88</i>
AL	D	G03F 1/04	<i>transferred to 1/90</i>
AL	D	G03F 1/06	<i>transferred to 1/92</i>
AL	N	G03F 1/20	. Masks or mask blanks for imaging by charged particle beam [CPB] radiation, e.g. by electron beam; Preparation thereof
AL	N	G03F 1/22	. Masks or mask blanks for imaging by radiation of 100nm or shorter wavelength, e.g. X-ray masks, Extreme ultra-violet [EUV] masks; Preparation thereof
AL	N	G03F 1/24	. . Reflection masks; Preparation thereof
AL	N	G03F 1/26	. Phase shift masks [PSM's]; PSM blanks; Preparation thereof
AL	N	G03F 1/28	. . Three or more diverse phases on the same PSM; Preparation thereof
AL	N	G03F 1/29	. . Rim PSM or outrigger PSM; Preparation thereof
AL	N	G03F 1/30	. . Alternating PSM, e.g. Levenson-Shibuya PSM; Preparation thereof
AL	N	G03F 1/32	. . Attenuating PSM [att-PSM], e.g. ~~halftone~~ -PSM ~~or masks~~ having semi-transparent phase shift portions, halftone PSM ; Preparation thereof

AL	N	G03F 1/34	. . Phase-edge PSM, e.g. chromeless PSM; Preparation thereof
AL	N	G03F 1/36	. Masks having ~~optical~~ proximity correction ~~[OPC]~~ features; Preparation thereof, e.g. optical proximity correction [OPC] design processes
AL	N	G03F 1/38	. Masks having auxiliary features, e.g. marks for alignment or ~~for~~ testing, special coatings ; Preparation thereof
AL	N	G03F 1/40	. . Electrostatic discharge [ESD] features, e.g. ESD feature of conductive metal layer around periphery of the mask substrate
AL	N	G03F 1/42	. . Alignment or registration features, e.g. alignment marks on the mask substrate
AL	N	G03F 1/44	. . Testing or measuring features, e.g. focus monitors, sawtooth or notched scales, or grid patterns
AL	N	G03F 1/46	. . Antireflective coatings
AL	N	G03F 1/48	. . Protective coatings
AL	N	G03F 1/50	. Mask blanks; Preparation thereof
AL	N	G03F 1/52	. Reflectors
AL	N	G03F 1/54	. Absorbers, e.g. of opaque material
AL	N	G03F 1/56	. . Organic absorbers, e.g. of photo-resists
AL	N	G03F 1/58	. . ~~with p~~ lural diverse absorber layers, e.g. stacked multilayer absorbers
AL	N	G03F 1/60	. Substrates
AL	N	G03F 1/62	. Pellicles, e.g. pellicle assemblies having membrane on support frame; Preparation thereof
AL	N	G03F 1/64	. . having special frames, e.g. structure or material, including bonding means therefor
AL	N	G03F 1/66	. Containers specially adapted for masks, mask blanks or pellicles; Preparation thereof
AL	N	G03F 1/68	. Preparation ~~methods~~ processes
AL	N	G03F 1/70	. . Adaptating basic layout or design of mask to lithographic process requirement ~~Layout or design processes~~ , e.g. ~~with~~ second iteration correction of mask pattern for imaging
AL	N	G03F 1/72	. . Repair or correction of mask defects
AL	N	G03F 1/74	. . . by charged particle beam [CPB], e.g. focused ion beam repair or correction of defects
AL	N	G03F 1/76	. . Patterning of masks by imaging
AL	N	G03F 1/78	. . . by charged particle beam [CPB], e.g. electron beam patterning of masks
AL	N	G03F 1/80	. . Etching

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AL	N	G03F 1/82	. . Auxiliary processes, e.g. cleaning or inspecting
AL	N	G03F 1/84	. . . Inspecting
AL	N	G03F 1/86	 by charged particle beam [CPB]
AL	N	G03F 1/88	. by photographic processes for production of originals simulating relief
AL	N	G03F 1/90	. by montage processes
AL	N	G03 ⁴ F 1/92	. from printing surfaces



IPC/A 027
ORIGINAL: English/French
DATE: 10.06.2009

WORLD INTELLECTUAL PROPERTY ORGANIZATION
ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE
GENEVA/GENÈVE

COMMITTEE OF EXPERTS OF THE IPC UNION
COMITÉ D'EXPERTS DE L'UNION DE L'IPC

AL REVISION PROJECT FILE
DOSSIER DE PROJET RÉVISION NIVEAU ÉLEVÉ

PROPOSAL BY : PROPOSITION DE :	EP	IPC AREA: DOMAINE DE LA CIB :	H04B, H04J
RAPPORTEUR :	EP	TECHNICAL FIELD : DOMAINE TECHNIQUE :	E

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Decision of the subcommittee	Décision du sous-comité	IB	20.03.2009
2	Initial Proposal	Proposition Initiale	EP	31.03.2009
3	Comments	Observations	SE	29.04.2009
4	Comments	Observations	DE	30.04.2009
5	Comments	Observations	JP	15.05.2009
6	Rapporteur report	Rapport du rapporteur	EP	29.05.2009
7	Comments	Observations	IB	29.05.2009
8	Rapporteur report	Rapport du rapporteur	EP	08.06.2009

REQUEST FOR REVISION OF THE IPC (AL)

Class(es) or Subclass(es): **H04J, H04B**

1. Demarcation of the area to be revised: **H04B1/69 H04J11, H04J13**

2. Reasons for the request:

- (a) Subdivision of IPC groups having an excessive file size and a high rate of growth of the PCT minimum documentation []
- (b) Change of the classification structure where it has become inefficient for searching [x]
- (c) Clarification of wordings in order to improve consistency in classifying or to avoid overlap with other places of the IPC []

Explanation of above:

This project was initiated to provide an opportunity to clearly define and develop proper schemes under IPC H04J13/00 and H04B1/69 since:

- Over the years, the classification practice of the EPO, JPO and USPTO in relation to CDMA has diverged.
- The CDMA area has seen rapid growth and there are several new emerging technologies in the field.
- The borderlines between these technologies and neighbouring fields are often unclear.

The areas of discrepancy were discussed in detail and the definition of the entries was worked on in order to clarify their meaning, as is now represented by the newly proposed scheme.

3. For requests under 2(a), numerical data (PCT min. one document per family):

- (a) File size: []
 - (b) Rate of growth (applications filed in) 2004: [] 2005: []
 - (c) Average size of new subgroups: []
 - (d) Proposal tested ? **YES** [] **NO** [x]
-

- 4. Detailed proposal: Submitted herewith [X]
We are prepared to elaborate it []
We are not in a position to elaborate it []
-

5. General outline, possible solutions, options ,etc.:

The annexed proposal is based on the proposed scheme of Trilateral Harmony project **T067**.

Proposing Office: **EPO**

Date: 18 February 2009

Signature: Ruben de Bekker / Pierre Held

Scheme Proposal

		H04J	
CL	M	13/00	Code division multiplex systems (for frequency hopping H04B1/713, for Multi-carrier CDMA H04J11/00, spread spectrum techniques H04B1/69)
CL	N	/012	• Code generation
AL	N	/0122	• • Orthogonal
AL	N	/0124	• • Zero correlation zone
CL	N	/014	• Code allocation
AL	N	/0142	• • Orthogonal
		/01421	• • • Orthogonal variable spreading factor [OVSF]
AL	N	/0144	• • Zero correlation zone
AL	D	/02	• using spread spectrum techniques
AL	D	/04	• • using direct sequence modulation
AL	D	/06	• • using frequency hopping

		H04B	
CL	M	1/69	• Spread spectrum techniques (code division multiplex systems H04J 13/00)
CL	N	/70	• • Hybrid form using combinations of two or more spread spectrum techniques
CL		/707	• • using direct sequence modulation
AL	N	/709	• • • Synchronization aspects
AL	N	/7091	• • • • with code phase acquisition
AL	N	/7095	• • • • • Multi-step acquisition, e.g. multi-dwell, coarse-fine or validation
	N	/7096	• • • • • Parallel implementation
AL	N	/7093	• • • • Cell search, e.g. three-step approach
AL	N	/7097	• • • • using a code tracking loop, e.g. a delay locked loop
AL	N	/7099	• • • • Carrier synchronization aspects (carrier synchronization per se H04L7/06)
AL	N	/710	• • • Correlator structure
AL	N	/7103	• • • • Matched filter type
AL	N	/7107	• • • • Sliding correlator type
AL	N	/711	• • • Interference related aspects
AL	N	/7112	• • • • the interference being narrowband
AL	N	/7115	• • • • the interference being multiple access interference
AL	N	/71153	• • • • • Using joint detection techniques, e.g. linear detectors

AL	N	/71157	• • • • • Using subtractive interference cancellation
AL	N	/7118	• • • • the interference being multi path interference
		/71181	• • • • • Determination of path profile
		/71182	• • • • • Constructive combining of multi-paths, i.e. RAKE receivers
AL	N	/711821	• • • • • • Rake finger management, i.e. selection, re-selection, allocation and re-allocation of paths to fingers, e.g. timing offset control of allocated fingers
AL	N	/7118211	• • • • • • • Fat finger aspects, i.e. dealing with paths which have small or negligible timing difference
AL	N	/711823	• • • • • • Weighting of fingers for combining, e.g. amplitude control, phase rotation, e.g. inner loop
AL		/713	• • using frequency hopping
AL	N	/7131	• • • Arrangements for generation of hop frequencies, e.g. using a bank of frequency sources, using continuous tuning or using a transform
AL	N	/7133	• • • Arrangements for generation of hop patterns
AL	N	/7135	• • • Interference related aspects
AL	N	/7137	• • • Arrangements for sequence synchronization
AL	N	/714	• • using impulse radio
AL	N	/7142	• • • Pulse related aspects
AL	N	/7144	• • • Data mapping, i.e. modulation
AL	N	/7146	• • • Synchronization
AL	N	/7148	• • • Interference related aspects

Swedish Patent and Registration Office

IPC AL Revision Project A027, subclass H04B, H04J

29-04-2009

Comment

SE has a few comments on the proposal:

1. WIPO standard ST.8 does not allow seven-digit numbers for subgroups. We would prefer a much more compact numbering, but this might of course be taken care of by the IB after the new groups are adopted.
2. A big improvement in the proposed changes is that CDMA is subdivided and therefore classification and searching are simplified in the art.
3. However, the technical aspect of CDMA still remains in two different places. For example: When do you generate an orthogonal code (H04J 13/0122) without sending it (H04B 1/69)?

The main problem with the current H04B 1/69 and H04J 13/00 and their subgroups is that documents can be classified in both places. The art is not clearly subdivided between the two places and perhaps it would be better if they were put together as one? For example, transfer the current H04B 1/69 to H04J 13 and let H04B 1 /69 concern transmitters.

SE does not think that the main problem has been solved by this proposal. We still consider that there are two possible classes for classifying spread spectrum (CDMA).

We also have some detailed comments on the scheme proposal:

H04J

- | | |
|----------|---|
| 13/00 | Should "Multi-carrier" have a capital M? 13/00 is a main group – is CDMA a well-known abbreviation to non-experts or should the full expression be given? |
| 13/0122 | The title looks a bit incomplete – how does it follow on from its parent group? |
| 13/01222 | The title looks a bit incomplete – how does it follow on from its parent group? |
| 13/0142 | The title looks a bit incomplete – how does it follow on from its parent group? |
| 13/01421 | The title looks a bit incomplete – how does it follow on from its parent group? |
| 13/0144 | The title looks a bit incomplete – how does it follow on from its parent group? |

H04B

- | | |
|---------|---|
| 1/70 | Would "Hybrid techniques" be better? The symbol 1/70 was used in IPC1-IPC3, so it should not be used. |
| 1/709 | "Synchronisation" instead of "Synchronization" |
| 1/7093 | Should the example say "e.g. using a three-step approach"? |
| 1/7097 | Should it be "delay-locked" with a hyphen? |
| 1/7099 | "Synchronisation" |
| 1/711 | Should it be "Interference-related" with a hyphen? |
| 1/7112 | Should the title say "narrowband interference" in parallel with the other four-dot groups? |
| 1/7118 | Should it be "multi-path" with a hyphen? |
| 1/71182 | We do not think "rake" is an abbreviation – should it really be in capitals? |

- 1/711821 Is the term "finger" well-known enough to be used without explanation? Is it translatable?
- 1/711823 "e.g." is used twice. Nested examples should be avoided, so some rewording will be necessary.
- 1/7135 Should it be "Interference-related" with a hyphen?
- 1/7137 "Synchronisation"
- 1/7142 Should it be "Pulse-related" with a hyphen?
- 1/7146 "Synchronisation"
- 1/7148 Should it be "Interference-related" with a hyphen?

Sofia Sjögren

DEUTSCHES PATENT- UND MARKENAMT German Patent and Trade Mark Office	Class/Subcl.: H04B, H04J
	Date : 30.4.2009
DE comments - A 027	

DE welcomes the suggested revision of subclasses H04B and H04J and thanks EP for the proposed revision scheme (Annex 2).

Our experts strongly support the proposal with the minor remark that the 6- and 7-dot subgroups H04B 1/71182xy may not really be needed.

Markus Seitz

JAPAN PATENT OFFICE

May 15th, 2009

Project: A027Subclass: H04B, H04J

JP Comment

With regard to this new Project A027, JP thanks EP Rapporteur for the posting of Initial Proposal on March 31 last. We note that SE and DE already submitted comments thereto. JP would wish to follow with the following two remarks.

1. Subgroups with 6-dots and 7-dots (Ref: Annex 3 Item 1, Annex 4)

In the Scheme Proposal, subgroups H04B 1/711821 and 1/711823 are 6-dotted and 1/7118211 is 7-dotted. Both DE and SE commented on these three subgroups.

JP considers that they may not necessarily be adopted as advanced level entries in the IPC, but would be able to be utilized in the internal classification of each Office. Therefore, JP would propose to remove these three subgroups from the Scheme Proposal for the IPC revision.

2. Possible double classification of CDMA in H04B and H04J

SE raised this question by saying;

The main problem with the current H04B 1/69 and H04J 13/00 and their subgroups is that documents can be classified in both places. The art is not clearly subdivided between the two places SE does not think that the main problem has been solved by this proposal.

However, JP understands that CDMA communication technology is a combination of transmitting/receiving techniques and multi-access techniques and, in the cases involving combined technologies as such, the classification should be given in respect of each of technical aspects contained therein. The situation raised by SE as being problematic could well take place in the technical fields wherein more than two technical aspects are involved. CDMA is an example of such technical fields. JP would doubt if the SE-remarked situation be really problematic.

During the Trilateral Harmony Visit held at USPTO last year, experts of the Trilateral Offices agreed on the following points.

- Subclass H04B 1/69 covers spread spectrum techniques (e.g. the specifics of receiving, transmitting spread spectrum signals, or the specifics of processing spread spectrum signals.)
- Subclass H04J 13/00 covers multi-access techniques with aspect of coding involved (e.g. code allocation, code generation, code manipulation)
- When the two technical aspects are contained, classification shall be given in both subclasses.

Principal Directorate Patent Grant Automation - Directorate Classification		
Project: A027	Spread spectrum communication	IPC range: H04B, H04J
Rapporteur Report		25 May 2009

Ref: Annex 2, R initial Proposal, 31-Mar-09
 Annex 3, SE comments, 29-Apr-09
 Annex 4, DE comments, 30-Apr-09
 Annex 5, JP comments, 15-May-09

R thanks SE, DE and JP for their comments, which are dealt with below:

1. Classification depth:

Regarding the comments from DE and SE on the dots of the subgroups, R admits that the issue had never been considered. To overcome the problem, R proposes to delete the entry "7118211 - fat finger aspects (i.e. dealing with paths which have small or negligible timing difference)". R does not agree that the other 6-dot classes are not really needed, since a considerable number of documents is concerned.

2. CDMA vs. spread spectrum:

Regarding the comments from SE in Annex 3 on the fact that technical aspects of CDMA still remain in two different places, R agrees with the comments given by JP under point 2. of Annex 5 dated 15.05.2009, and further offers the following comments:

CDMA is a multiple-access technique that utilizes spread spectrum techniques. However, spread spectrum techniques can be used outside the context of multiple access. It is important to note that CDMA and spread spectrum are not identical.

In the current proposal, technical content that is not necessarily linked to multiple access would be classified in H04B1/69+ whereas technical content dealing with the specifics of multiple access would be classified in H04J13.

3. Linguistic issues:

Regarding the detailed comments on the scheme proposal from SE in Annex 3, R is of the opinion that

1. CDMA is a well-known abbreviation in the technical field
2. RAKE although not being an abbreviation is commonly written in capitals.

3. Both "synchronisation" and "synchronization" are correct, according to the "Oxford English Dictionary". However, "synchronization" is preferred.
4. The term "finger" is well-known to the skilled person, making further explanations unnecessary. It is translatable (e.g. German: Finger, French: doigt).

However, R does agree that some improvements can be made as suggested by SE.

Considering said comments, R proposes the following scheme comprising minor modifications in relation to the original proposal:

		H04J	
CL	M	13/00	Code division multiplex systems (for frequency hopping H04B1/713, for multi-carrier CDMA H04J11/00, spread spectrum techniques H04B1/69)
CL	N	/012	• Code generation
AL	N	/0122	• • Generation of orthogonal codes
AL	N	/0124	• • Generation of codes with a zero correlation zone
CL	N	/014	• Code allocation
AL	N	/0142	• • Allocation of orthogonal codes
		/01421	• • • having an orthogonal variable spreading factor [OVSF]
AL	N	/0144	• • Allocation of codes with a zero correlation zone
AL	D	/02	• using spread spectrum techniques
AL	D	/04	• • using direct sequence modulation
AL	D	/06	• • using frequency hopping

		H04B	
CL	M	1/69	• Spread spectrum techniques (code division multiplex systems H04J 13/00)
CL	N	/692	• • Hybrid techniques using combinations of two or more spread spectrum techniques
CL		/707	• • using direct sequence modulation
AL	N	/709	• • • Synchronization aspects
AL	N	/7091	• • • • with code phase acquisition
AL	N	/7095	• • • • • Multi-step acquisition, e.g. multi-dwell, coarse-fine or validation

	N	/7096	• • • • • Parallel implementation
AL	N	/7093	• • • • Cell search, e.g. using a three-step approach
AL	N	/7097	• • • • using a code tracking loop, e.g. a delay-locked loop
AL	N	/7099	• • • • Carrier synchronization aspects (for carrier synchronization per se see H04L7/06)
AL	N	/710	• • • Correlator structure
AL	N	/7103	• • • • Matched filter type
AL	N	/7107	• • • • Sliding correlator type
AL	N	/711	• • • Interference-related aspects
AL	N	/7112	• • • • the interference being narrowband interference
AL	N	/7115	• • • • the interference being multiple access interference
AL	N	/71153	• • • • • Joint detection techniques, e.g. linear detectors
AL	N	/71157	• • • • • Subtractive interference cancellation
AL	N	/7118	• • • • the interference being multi-path interference
		/71181	• • • • • Determination of path profile
		/71182	• • • • • Constructive combining of multi-paths, i.e. RAKE receivers
AL	N	/711821	• • • • • • Selection, re-selection, allocation and re-allocation of paths to fingers, e.g. timing offset control of allocated fingers
~~AL~~	~~N~~	~~/711821~~ 1	~~• • • • • • fat finger aspects (i.e. dealing with paths which have small or negligible timing difference)~~
AL	N	/711823	• • • • • • Weighting of fingers for combining, e.g. amplitude control or phase rotation using an inner loop
CL		/713	• • using frequency hopping
AL	N	/7131	• • • Arrangements for generation of hop frequencies, e.g. using a bank of frequency sources, using continuous tuning or using a transform
AL	N	/7133	• • • Arrangements for generation of hop patterns
AL	N	/7135	• • • Interference-related aspects
AL	N	/7137	• • • Arrangements for sequence synchronization
AL	N	/714	• • using impulse radio
AL	N	/7142	• • • Pulse-related aspects
AL	N	/7144	• • • Data mapping, i.e. modulation
AL	N	/7146	• • • Synchronization
AL	N	/7148	• • • Interference-related aspects

WORLD INTELLECTUAL PROPERTY ORGANIZATION	
IPC REVISION WORKING GROUP	
Project: A027 Subclass: H04B, H04J	May 2009

Renumbering of scheme

The scheme below is based on the Rapporteur proposal of Annex 6, renumbered in order to comply with the IPC numbering rules.

		H04J	
CL	M	13/00	Code division multiplex systems (for frequency hopping H04B1/713, for multi-carrier CDMA H04J11/00, spread spectrum techniques H04B1/69)
CL	N	13/01>/012	• Code generation
AL	N	13/011>/0122	• • Generation of orthogonal codes
AL	N	13/013>/0124	• • Generation of codes with a zero correlation zone
CL	N	13/014>/014	• Code allocation
AL	N	13/016>/0142	• • Allocation of orthogonal codes
		13/017>/01421	• • • having an orthogonal variable spreading factor [OVSF]
AL	N	13/019>/0144	• • Allocation of codes with a zero correlation zone
AL	D	/02	• using spread spectrum techniques
AL	D	/04	• • using direct sequence modulation
AL	D	/06	• • using frequency hopping

		H04B	
CL	M	1/69	• Spread spectrum techniques (code division multiplex systems H04J 13/00)

CL	N	1/70 >/69 2	• • Hybrid techniques using combinations of two or more spread spectrum techniques
CL		/707	• • using direct sequence modulation
AL	N	1/7073 >/709	• • • Synchronization aspects
AL	N	1/7075 /7091	• • • • with code phase acquisition
AL	N	1/7077 > /7095	• • • • • Multi-step acquisition, e.g. multi-dwell, coarse-fine or validation
	N	1/708 /7096	• • • • • Parallel implementation
AL	N	1/7083 > /7093	• • • • Cell search, e.g. using a three-step approach
AL	N	1/7085 > /7097	• • • • using a code tracking loop, e.g. a delay-locked loop
AL	N	1/7087 > /7099	• • • • Carrier synchronization aspects (for carrier synchronization per se see H04L7/06)
AL	N	1/709 > /710	• • • Correlator structure
AL	N	1/7093 > /7103	• • • • Matched filter type
AL	N	1/7095 > /7107	• • • • Sliding correlator type
AL	N	1/7097 > /711	• • • Interference-related aspects
AL	N	1/710 > /7112	• • • • the interference being narrowband interference
AL	N	1/7103 > /7115	• • • • the interference being multiple access interference
AL	N	1/7105 > /71153	• • • • • Joint detection techniques, e.g. linear detectors
AL	N	1/7107 > /71157	• • • • • Subtractive interference cancellation
AL	N	1/711 > /7118	• • • • the interference being multi-path interference
		1/7113 > /71181	• • • • • Determination of path profile
		1/7115 > /71182	• • • • • Constructive combining of multi-paths, i.e. RAKE receivers
AL	N	1/7117 > /711821	• • • • • • Selection, re-selection, allocation and re-allocation of paths to fingers, e.g. timing offset control of allocated fingers

AL	N	~~/711821~~ ~~1~~	~~• • • • • fat finger aspects (i.e. dealing with paths which have small or negligible timing difference)~~
AL	N	1/712 > /711823	• • • • • Weighting of fingers for combining, e.g. amplitude control or phase rotation using an inner loop
CL		/713	• • using frequency hopping
AL	N	1/7136 > /7131	• • • Arrangements for generation of hop frequencies, e.g. using a bank of frequency sources, using continuous tuning or using a transform
AL	N	1/7143 > /7133	• • • Arrangements for generation of hop patterns
AL	N	1/715 > /7135	• • • Interference-related aspects
AL	N	1/7156 > /7137	• • • Arrangements for sequence synchronization
AL	N	1/7163 > /714	• • using impulse radio
AL	N	1/717 > /7142	• • • Pulse-related aspects
AL	N	1/7176 > /7144	• • • Data mapping, i.e. modulation
AL	N	1/7183 > /7146	• • • Synchronization
AL	N	1/719 > /7148	• • • Interference-related aspects

Principal Directorate Patent Grant Automation - Directorate Classification		
Project: A027	Spread spectrum communication	IPC range: H04B, H04J
Rapporteur Report		5 Jun 2009

Ref: Annex 6, R Proposal, 29-May-09
Annex 7, IB comments, 29-May-09
Remarks JP and US of 2 and 5 Jun-09

- 1) The deletion of the H04J /02 , /04 , /06 would need the contents to be transferred to the H04J 13/00 and subgroups.
- 2) the acronym of the CDMA should be explained (see new RR H04J 13/00)
- 3) A more simple renumbering can be proposed (see new RR: H04J /10, /12, ... /22)
- 4) regarding your proposed renumbering of Annex 7 it is noted that the symbol H04B 1/70 already has been used in IPC1-IPC3, so I think it should not be used again.

R proposes the following scheme comprising minor modifications in relation to the original proposal of Annex 6:

		H04J	
CL	M	13/00	Code division multiplex systems (for frequency hopping H04B1/713, for multi-carrier Code Division Multiple Access [CDMA] H04J11/00, spread spectrum techniques H04B1/69)
CL	N	/10	• Code generation
AL	N	/12	• • Generation of orthogonal codes
AL	N	/14	• • Generation of codes with a zero correlation zone
CL	N	/16	• Code allocation
AL	N	/18	• • Allocation of orthogonal codes
AL	N	/20	• • • having an orthogonal variable spreading factor [OVSF]
AL	N	/22	• • Allocation of codes with a zero correlation zone
AL	D	/02	< transferred to H04J13/00 + sub groups >
AL	D	/04	< transferred to H04J13/00 + sub groups >
AL	D	/06	< transferred to H04J13/00 + sub groups >

		H04B	
CL	M	1/69	• Spread spectrum techniques (code division multiplex systems H04J 13/00)
CL	N	/692	• • Hybrid techniques using combinations of two or more spread spectrum techniques
CL		/707	• • using direct sequence modulation
AL	N	/7073	• • • Synchronization aspects
AL	N	/7075	• • • • with code phase acquisition
AL	N	/7077	• • • • • Multi-step acquisition, e.g. multi-dwell, coarse-fine or validation
	N	/708	• • • • • Parallel implementation
AL	N	/7083	• • • • Cell search, e.g. using a three-step approach
AL	N	/7085	• • • • using a code tracking loop, e.g. a delay-locked loop
AL	N	/7087	• • • • Carrier synchronization aspects (for carrier synchronization per se H04L7/06)
AL	N	/709	• • • Correlator structure
AL	N	/7093	• • • • Matched filter type
AL	N	/7095	• • • • Sliding correlator type
AL	N	/7097	• • • Interference-related aspects
AL	N	/710	• • • • the interference being narrowband interference
AL	N	/7103	• • • • the interference being multiple access interference
AL	N	/7105	• • • • • Joint detection techniques, e.g. linear detectors
AL	N	/7107	• • • • • Subtractive interference cancellation
AL	N	/711	• • • • the interference being multi-path interference
		/7113	• • • • • Determination of path profile
		/7115	• • • • • Constructive combining of multi-paths, i.e. RAKE receivers
AL	N	/7117	• • • • • • Selection, re-selection, allocation and re-allocation of paths to fingers, e.g. timing offset control of allocated fingers
~~AL~~	~~N~~	~~/711821~~ ~~1~~	~~• • • • • • fat finger aspects (i.e. dealing with paths which have small or negligible timing difference)~~
AL	N	/712	• • • • • • Weighting of fingers for combining, e.g. amplitude control or phase rotation using an inner loop

CL		/713	• • using frequency hopping
AL	N	/7136	• • • Arrangements for generation of hop frequencies, e.g. using a bank of frequency sources, using continuous tuning or using a transform
AL	N	/7143	• • • Arrangements for generation of hop patterns
AL	N	/715	• • • Interference-related aspects
AL	N	/7156	• • • Arrangements for sequence synchronization
AL	N	/7163	• • using impulse radio
AL	N	/717	• • • Pulse-related aspects
AL	N	/7176	• • • Data mapping, i.e. modulation
AL	N	/7183	• • • Synchronization
AL	N	/719	• • • Interference-related aspects

Emma O'Donnabhain, Michael Bossen

Ruben de Bekker



IPC/A 029
ORIGINAL: English/French
DATE: 03.06.2009

WORLD INTELLECTUAL PROPERTY ORGANIZATION
ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE
GENEVA/GENÈVE

COMMITTEE OF EXPERTS OF THE IPC UNION
COMITÉ D'EXPERTS DE L'UNION DE L'IPC

AL REVISION PROJECT FILE
DOSSIER DE PROJET RÉVISION NIVEAU ÉLEVÉ

PROPOSAL BY : PROPOSITION DE :	EP	IPC AREA: DOMAINE DE LA CIB :	H04N
RAPPORTEUR :	EP	TECHNICAL FIELD : DOMAINE TECHNIQUE :	E

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Decision of the subcommittee	Décision du sous-comité	IB	20.03.2009
2	Initial Proposal	Proposition Initiale	EP	26.03.2009
3	Comments	Observations	SE	29.04.2009

REQUEST FOR REVISION OF THE IPC (AL)

Class(es) or Subclass(es): **H04N**

1. Demarcation of the area to be revised: **H04N3/15 H04N5/335, H04N5/217**

2. Reasons for the request:

- | | |
|---|-----|
| (a) Subdivision of IPC groups having an excessive file size and a high rate of growth of the PCT minimum documentation | [] |
| (b) Change of the classification structure where it has become inefficient for searching | [x] |
| (c) Clarification of wordings in order to improve consistency in classifying or to avoid overlap with other places of the IPC | [] |

Explanation of above:

The image sensor technology has seen fast-paced developments in the last 20 years, which are not reflected in the current IPC classification scheme. Subdividing existing subgroups thus does not seem appropriate for capturing recent techniques. Similarly, clarification of wordings is also not sufficient. Therefore, a new scheme is proposed, gathering all image sensors related documents, which are currently classified under two different main groups (H04N 3/00 and H04N 5/00), under a single entry: H04N5/335.

3. For requests under 2(a), numerical data (PCT min. one document per family):

- | | | |
|--|----------------|---------------|
| (a) File size: | [] | |
| (b) Rate of growth (applications filed in) | 2004: [] | 2005: [] |
| (c) Average size of new subgroups: | [] | |
| (d) Proposal tested ? | YES [x] | NO [] |

- | | | |
|-----------------------|--|-----|
| 4. Detailed proposal: | Submitted herewith | [X] |
| | We are prepared to elaborate it | [] |
| | We are not in a position to elaborate it | [] |

5. General outline, possible solutions, options ,etc.:

The annexed proposal is based on the final scheme agreement of Trilateral Harmony project **T073**.

Proposing Office: **EPO**

Date: 05 February 2009

Signature: Ruben de Bekker / Pierre Held

Scheme Proposal

		H04N	
CL	C	5/335	• • using Solid-State Image Sensors [SSIS] (H04N 5/32, H04N 5/33 take precedence)
AL	C	5/335	• • using Solid-State Image Sensors [SSIS] (H04N 5/32, H04N 5/33 take precedence) <u>Note</u> In this group, at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.
AL	N	5/341	• • • Extracting pixel data from an image sensor by controlling scanning circuits, e.g. modifying the number of pixels
AL	N	5/343	• • • • by switching between different modes of operations using different resolutions or aspect ratios, e.g. between still and video mode or between interlaced and non-interlaced mode
AL	N	5/345	• • • • by partially reading an SSIS array
AL	N	5/347	• • • • by combining or binning pixels in SSIS
AL	N	5/349	• • • • for increasing resolution by shifting the sensor relative to the scene
AL	N	5/351	• • • Control of the SSIS depending on the scene, e.g. brightness or motion in the scene
AL	N	5/353	• • • • Control of the integration time
AL	N	5/355	• • • • Control of the dynamic range
AL	N	5/357	• • • Noise processing, e.g. detecting, correcting, reducing or removing noise
AL	N	5/359	• • • • applied to excess charges produced by the exposure, e.g. smear, blooming, ghost image, crosstalk or leakage between pixels
AL	N	5/361	• • • • applied to dark current
AL	N	5/363	• • • • applied to reset noise, e.g. KTC noise
AL	N	5/365	• • • • applied to fixed-pattern noise, e.g. non-uniformity of response
AL	N	5/367	• • • • • applied to defects, e.g. non-responsive pixels
AL	N	5/369	• • • SSIS architecture; circuitry associated therewith
AL	N	5/372	• • • • Charge-coupled device [CCD] sensors; Time delay and integration [TDI] registers or shift registers specially adapted to SSIS
AL	N	5/3722	• • • • • using Frame interline transfer
AL	N	5/3725	• • • • • using Frame transfer
AL	N	5/3728	• • • • • using Interline transfer
AL	N	5/374	• • • • Addressed sensors
AL	N	5/3745	• • • • • having additional components embedded within a pixel or connected to a group of pixels within a sensor matrix, e.g. memories, A/D converters, pixel amplifiers, shared circuits or shared components

AL	N	5/376	• • • • Addressing circuits
AL	N	5/378	• • • • Readout circuits, e.g. correlated double sampling [CDS] circuits, output amplifiers or A/D converters
CL	D	3/15	transferred to H04N 5/335
CL	C	5/217	• • • in picture signal generation (noise reduction or noise suppression performed by solid-state image sensors H04N 5/357)

Swedish Patent and Registration Office

IPC AL Revision Project A029, subclass H04N

29-04-2009

Comments

SE supports the scheme proposal in annex 2 as a whole, but we have a few comments on the proposal:

1. Documents under H04N 3/15 are transferred to H04N 5/335. The transferred subgroup was in the latest version of IPC under H04N 3/14. Documents under this group (3/14) are not transferred. Perhaps there is a need for a reference to H04N 5/335? SE assumes that transfer of the content under H04N 3/14 was also considered, since this subgroup also contains use of SSIS.

2. H04N 5/372 specifies the use of CCD sensors. It makes sense to include such a subgroup. Perhaps there is also a need for inclusion of a subgroup containing CMOS sensors?

3. There may be a need for notes, or references, under H04N 5/335 specifying that H01L in general and especially H01L 27/146 and/or H01L 27/148 may be of interest for solid-state components; Imager structures and Charge coupled imagers.

We also have some detailed comments on the scheme proposal:

5/341 Should the example say "e.g. by modifying ..."?

5/347 The title looks a bit incomplete – "in the SSIS", "in an SSIS" or "in SSISs"?

5/363 Is "KTC" a well-known abbreviation or should the full wording be included?

5/369 "Circuitry" should have a capital C.

5/372 Is "and" correct, or should it be "or"? Should SSISs be in plural?

5/3722-3728 Should "Frame" and "Interline" start with capital letters?

5/217 Should "performed by" be replaced by "performed in"?

Sofia Sjögren

Principal Directorate Patent Grant Automation - Directorate Classification		
Project: A029	Subject: Solid State Image Sensors	Subclass: H04N
Rapporteur Report		29 May 2009

R thanks SE for its support and constructive comments, which have been taken into account.
R has improved titles and motivated the amendments.

1. H04N3/14 is amended for including the following reference to the 5/335: "(for picture signal generation H04N5/335). It clarifies that SSIS are not part anymore of H04N3/14.

2. It is agreed that a subgroup containing CMOS sensors should be included. These sensors (or MOS sensors) were considered implicitly as being addressed sensors which are defined in the subgroup H04N5/374.

**The title of this subgroup is amended for clarifying this interpretation.
H04N5/374 Addressed sensors, e.g. MOS or CMOS sensors**

3. As to the question "should a reference to H01L be included to the definition of H04N5/3352 ?" H01L should be considered for constructional aspects of the SSIS. The features which are specifically classified in H01L should not be classified in H04N.

As a consequence such a reference would be considered as limitative and should be introduced in the definition of H04N5/335.

H04N5/335 is amended as follows:

H04N5/335 .. using Solid-State Image Sensors [SSIS] (H04N5/32, H04N5/33 take precedence; semiconductor devices H01L)

4. 5/341 The example has been amended "e.g. by modifying the number of pixels"

5. 5/347 The expression SSIS is an acronym which has been defined in H04N5/335 (see [SSIS]). It should therefore always be considered in the plural when used alone (in 3/345 it is an SSIS array which is defined).

6. 5/363 KTC noise is a well known abbreviation due to a FET switch capacitance (K: Boltzmann's constant; T: temperature; C: capacitance). It does not need to be further clarified.

$$\text{KTC noise (voltage) - } \sigma_{KTC} = \sqrt{\frac{kT}{C}}$$

7. 5/369 It has been amended to include a capital letter in "circuitry".

8. 5/372 TDI is an acronym for "time delay and integration" or "time delay integration". Both delay and integration are necessary, delay "or" integration is thus not appropriate.

Relating to the SSISs in the plural, the same explanation as for 5/347 is valid.

9. 5/3722-3728 These subgroups have been amended to include capital letters in "Frame", "Interline", "Transfer" and their acronyms "[FIT], [FT], [IT].

10. 5/217 Replacing "performed by" with "performed in" would restrict 5/357 to noise corrections which are performed in the SSIS themselves whereas it is also meant to cover noise corrections performed outside the SSIS (e.g. non-responsive pixels can be interpolated outside the SSIS). The subgroup has been amended to replace "performed by" with "involving" which better characterises the content of 5/357.

Ruben de Bekker

Principal Directorate Patent Grant Automation - Directorate Classification		
Project: A029	Subject: Solid State Image Sensors	Subclass: H04N
Scheme proposal		29 May 2009

		H04N	
CL	C	3/14	. . by means of electrically scanned solid-state devices (for picture generation H04N5/335)
CL	C	5/335	• • using Solid-State Image Sensors [SSIS] (H04N 5/32, H04N 5/33 take precedence; semiconductor devices H01L)
AL	C	5/335	• • using Solid-State Image Sensors [SSIS] (H04N 5/32, H04N 5/33 take precedence; semiconductor devices H01L) Note In this group, at each hierarchical level, in the absence of an indication to the contrary, classification is made in the first appropriate place.
AL	N	5/341	• • • Extracting pixel data from an image sensor by controlling scanning circuits, e.g. by modifying the number of pixels
AL	N	5/343	• • • • by switching between different modes of operations using different resolutions or aspect ratios, e.g. between still and video mode or between interlaced and non-interlaced mode
AL	N	5/345	• • • • by partially reading an SSIS array
AL	N	5/347	• • • • by combining or binning pixels in SSIS
AL	N	5/349	• • • • for increasing resolution by shifting the sensor relative to the scene
AL	N	5/351	• • • Control of the SSIS depending on the scene, e.g. brightness or motion in the scene
AL	N	5/353	• • • • Control of the integration time
AL	N	5/355	• • • • Control of the dynamic range
AL	N	5/357	• • • Noise processing, e.g. detecting, correcting, reducing or removing noise
AL	N	5/359	• • • • applied to excess charges produced by the exposure, e.g. smear, blooming, ghost image, crosstalk or leakage between pixels
AL	N	5/361	• • • • applied to dark current
AL	N	5/363	• • • • applied to reset noise, e.g. KTC noise
AL	N	5/365	• • • • applied to fixed-pattern noise, e.g. non-uniformity of response
AL	N	5/367	• • • • • applied to defects, e.g. non-responsive pixels
AL	N	5/369	• • • SSIS architecture; Circuitry associated therewith

AL	N	5/372	• • • • Charge-coupled device [CCD] sensors; Time delay and integration [TDI] registers or shift registers specially adapted to SSIS
AL	N	5/3722	• • • • • using Frame Interline Transfer [FIT]
AL	N	5/3725	• • • • • using Frame Transfer [FT]
AL	N	5/3728	• • • • • using Interline Transfer [IT]
AL	N	5/374	• • • • Addressed sensors, e.g. MOS or CMOS sensors
AL	N	5/3745	• • • • • having additional components embedded within a pixel or connected to a group of pixels within a sensor matrix, e.g. memories, A/D converters, pixel amplifiers, shared circuits or shared components
AL	N	5/376	• • • • Addressing circuits
AL	N	5/378	• • • • Readout circuits, e.g. correlated double sampling [CDS] circuits, output amplifiers or A/D converters
CL	D	3/15	transferred to H04N 5/335
CL	C	5/217	• • • in picture signal generation (noise reduction or noise suppression involving solid-state image sensors H04N 5/357)

JAPAN PATENT OFFICE

June 10, 2009

Project: A029Subclass: H04N

JP Comment

JP greatly appreciates EP Rapporteur's Report (Annex 4) and revised Proposal (Annex 5) that have carefully taken comments and discussions to date into consideration.

JP supports the revised Proposal in Annex 5, but with the exception of the following one point.

That is, while it is noted that a Limiting reference to "Semiconductor devices H01L" was added after the title of the group H04N 5/335, JP believes that this reference is closer to an Informative reference rather than a Limiting reference and it would not be needed to add this reference in the scheme.

Because H01L is subclass-level and the scope of the reference is so broad.

Moreover, the structural aspect of SSIS should be classified in H01L 27/146 and such a classification appears to be obvious when reading the definition of this group H01L 27/146 (solid state imager structures) in addition to the definitions of H01L 27/00 and H01L 27/14.

[END]



IPC/C 447
ORIGINAL: English/French
DATE: 04.06.2009

WORLD INTELLECTUAL PROPERTY ORGANIZATION
ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE
GENEVA/GENÈVE

COMMITTEE OF EXPERTS OF THE IPC UNION
COMITÉ D'EXPERTS DE L'UNION DE L'IPC

CL REVISION PROJECT FILE
DOSSIER DE PROJET RÉVISION NIVEAU DE BASE

PROPOSAL BY : PROPOSITION DE :	WG	IPC AREA: DOMAINE DE LA CIB :	G07D
RAPPORTEUR :	EP	TECHNICAL FIELD : DOMAINE TECHNIQUE :	E

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Working Group decision	Décision du groupe de travail	IB	21.12.2006
2	Confirmation byTOs on reclassification		JP	05.01.2007
3	Comments	Observations	US	11.01.2007
4	Confirmation byTOs on reclassification		EP	16.01.2007
5	Working Group decision	Décision du groupe de travail	IB	11.07.2007
6	Rapporteur report	Rapport du rapporteur	EP	12.11.2007
7	Rapporteur proposal	Proposition du rapporteur	EP	12.11.2007
8	Comments	Observations	US	15.11.2007
9	Comments	Observations	JP	20.11.2007
10	Rapporteur report	Rapport du rapporteur	EP	13.12.2007
11	Rapporteur proposal	Proposition du rapporteur	EP	13.12.2007
12	Comments	Observations	JP	19.12.2007
13	Working Group decision	Décision du groupe de travail	IB	14.01.2008
14	Rapporteur report	Rapport du rapporteur	EP	07.05.2008
15	Comments	Observations	DE	03.06.2008
16	Working Group decision	Décision du groupe de travail	IB	26.06.2008

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
17	Comments	Observations	SE	02.09.2008
18	Comments	Observations	EP	10.10.2008
19	Rapporteur report	Rapport du rapporteur	EP	17.10.2008
20	Rapporteur proposal	Proposition du rapporteur	EP	17.10.2008
21	Comments	Observations	RO	17.10.2008
22	Comments	Observations	US	20.11.2008
23	Working Group decision	Décision du groupe de travail	IB	07.01.2009
24	Comments	Observations	JP	30.01.2009
25	French version	Version française	EP	16.02.2009
26	Rapporteur report	Rapport du rapporteur	EP	03.06.2009

EXCERPT FROM DOCUMENT IPC/WG/20/2
EXTRAIT DU DOCUMENT IPC/WG/20/2

Project C 447 (electrical) – Discussions were based on the latest rapporteur proposal (see Annex 20 to the project file) which was approved (see Technical Annex 14 to this report).

It was however pointed out that the problem of where to classify “sorting, counting and handling of paper currency or similar valuable papers” was not solved. Proposals were invited on how to achieve consistent classification of the above subject matter, taking into account that this subject matter is covered under different IPC main groups in ECLA and in FI. A viable solution should also propose ways for an automatic reclassification of the PCT minimum documentation.

Furthermore, comments were invited on whether a residual main group is needed in subclass G07D. The Rapporteur was invited to submit a report following the submission of the above proposals/comments.

Projet C 447 (électricité) – les délibérations ont eu lieu sur la base de la dernière proposition du rapporteur (voir l’annexe 20 du dossier de projet) qui a été approuvée (voir l’annexe technique 14 du présent rapport).

Il a toutefois été souligné que le problème de savoir où classer “tri, comptage et manipulation du papier-monnaie ou des papiers de valeur analogues” n’avait pas été résolu. Des propositions ont été demandées sur les modalités d’un classement cohérent de la matière précitée, compte tenu du fait qu’elle entre dans plusieurs groupes principaux de la CIB dans ECLA et FI. Une solution viable devrait aussi proposer un système de reclassement automatique de la documentation minimale du PCT.

Par ailleurs, des observations ont été demandées sur le point de savoir s’il était nécessaire d’introduire un groupe principal résiduel dans la sous-classe G07D. Le rapporteur a été invité à présenter un rapport après la communication des propositions et observations susmentionnées.

**ANNEX 14E G07D [Project-Rapporteur : C447/EP <WG20>
]**

CL M Note
G07D In this subclass, the following terms or expressions are used with the meaning indicated:

- "coins" also covers tokens of similar nature;
- *"paper currency or similar valuable papers" covers banknotes, bills, cheques, vouchers, securities, bonds or the like. [new.]*

CL M 3/00 **Sorting a mixed bulk of coins into denominations**

AL M 3/14 · Apparatus driven under control of coin-sensing elements

AL M 3/16 · in combination with coin-counting

CL M 9/00 **Counting coins** (in combination with coin-sorting [G07D 3/16](#)) ;
Handling of coins not provided for in the other groups of this subclass

CL M 11/00 **Devices accepting coins or paper currency, e.g. depositing machines** (apparatus freed or actuated by coins or the like [G07F](#); apparatus freed or actuated by paper currency [G07F 7/04](#); complete banking systems [G07F 19/00](#))

JAPAN PATENT OFFICE

January , 2009

Project: C447Subclass: G07D

JP Comment

This is in response to the Working Group Decision posted by IB as Annex 23 in Project C447. There were two questions raised.

1. Classification of "Sorting, counting and handling of paper currency or similar valuable papers"

As was mentioned by IB, this subject matter is covered by different places in FI. JP considers that it is impossible to determine appropriate classification without breaking down the scope of this subject matter. That is, as concerns "sorting", it would be properly classified in G07D since this term must include the concept of determining the kinds of paper currency, etc. As concerns "counting", it would be classifiable in G07D as far as the determination of the kind of paper currency, etc. is involved in the "counting." However, for the simple counting of the number of paper currency, etc. without determination of the kind, etc., the classification would be proper in G06M as before.

On the other hand, since the term "handling" can cover wide range of subject matter, JP finds it difficult to decide proper classification without properly dividing the subject scope.

2. Necessity of residual main group in G07D

Residual main group is the place where the documents relating to a variety of technologies that are not classified in other main groups are to be classified. As such, JP would not believe it appropriate to easily prepare for any residual main group in G07D while proper main groups for the classification of "Sorting, counting and handling of paper currency or similar valuable papers" have not been determined.

Principal Directorate Patent Grant Automation - Directorate Classification		
Projet: C447	Sujet : Manipulation ... pièces ... papier-monnaie	CIB : G07D
Proposition de projet		13 février 2009

G07D

M	Titre	MANIPULATION DE PIECES DE MONNAIE, DE PAPIER-MONNAIE OU DE PAPIERS DE VALEUR ANALOGUES, p.ex. VERIFICATION, TRI PAR VALEURS, COMPTAGE, DISTRIBUTION, CHANGE OU DEPOT
M		<u>Note</u> Dans la présente sous-classe, les termes ou expressions suivants ont la signification ci-dessous indiquée : – "pièces de monnaie" couvre également les jetons de nature similaire ; – "papier-monnaie ou papiers de valeur analogues" couvre les billets de banque, les effets de commerce, les chèques, les documents commerciaux, les titres, les bons ou analogues.
M	1/00	Distributeurs de pièces de monnaie
M	1/02	• faisant de la monnaie
M	3/00	Tri, selon leur valeur, de pièces de monnaie en vrac
M	3/02	• Tri de pièces de monnaie au moyen d'orifices calibrés
M	3/12	• Tri de pièces de monnaie au moyen de déflecteurs échelonnés
M	3/14	• Appareils mus sous l'action d'éléments détectant les pièces de monnaie
M	3/16	• combiné avec comptage de pièces de monnaie
M	5/00	Vérification spécialement adaptée à la détermination de l'identité ou de l'authenticité des pièces de monnaie, p.ex. pour séparer les pièces qui sont inacceptables ou en monnaie étrangère
M	7/00	Vérification spécialement adaptée à la détermination de l'identité ou de l'authenticité de papier-monnaie ou de papiers de valeur analogues, p.ex. pour séparer ceux qui sont inacceptables ou en monnaie étrangère
M	9/00	Comptage de pièces de monnaie (combiné avec tri de pièces G07D 3/16) ; Manipulation de pièces de monnaie non prévue dans les autres groupes de la présente sous-classe
M	9/04	• Dispositifs, mus à la main ou par moteur [<i>alternative: manuels ou motorisés</i>], pour compter des pièces de monnaie

M	11/00	Dispositifs acceptant des pièces de monnaie ou du papier-monnaie, p. ex. machines de dépôt (appareils débloqués ou déclenchés par des pièces de monnaie ou appareils similaires G07F ; appareils débloqués ou déclenchés par du papier-monnaie G07F 7/04 ; systèmes bancaires complets G07F 19/00)
M	13/00	Manipulation de pièces de monnaie, de papier-monnaie ou de papiers de valeur analogues, caractérisée par une combinaison de mécanismes non couverts par un seul des groupes G07D 1/00-G07D 11/00

Principal Directorate Patent Grant Automation - Directorate Classification		
Project: C447	Subject: Handling coins ... paper currency ...	IPC range: G07D
Rapporteur Report		3 June 2009

Ref.: Annexes 11, 18, 23-24 of project file

Background

At the latest Working Group (WG) meeting in Geneva, two issues were (re)identified (see a23):

1. The problem of where to classify “sorting, counting and handling of paper currency or similar valuable papers” was not solved. Proposals were invited on how to achieve consistent classification of the above subject matter, taking into account that this subject matter is covered under different IPC main groups in ECLA and in FI. A viable solution should also propose ways for an automatic reclassification of the PCT minimum documentation.
2. Whether a residual main group is needed in subclass G07D. The Rapporteur was invited to submit a report following the submission of the above proposals/comments.

Comments/proposals received and next actions

Comments were sent by JP only (a24).

R needs more input to formulate any proposal on an issue (1.) which has been quite long already on the table. **R** reminds that previous proposals to make "handling of paper currency" more visible in G07D have been rejected from more sides – see particularly a18 after a11.

In the absence of more comments/proposals, **R** would recommend to abandon this project.

Roberto Iasevoli



IPC/C 449
ORIGINAL: English/French
DATE: 03.06.2009

WORLD INTELLECTUAL PROPERTY ORGANIZATION
ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE
GENEVA/GENÈVE

COMMITTEE OF EXPERTS OF THE IPC UNION
COMITÉ D'EXPERTS DE L'UNION DE L'IPC

CL REVISION PROJECT FILE
DOSSIER DE PROJET RÉVISION NIVEAU DE BASE

PROPOSAL BY : PROPOSITION DE :	IPC AREA: DOMAINE DE LA CIB : G07B, G08G
RAPPORTEUR : GB	TECHNICAL FIELD : DOMAINE TECHNIQUE : E

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Working Group decision	Décision du groupe de travail	IB	10.07.2007
2	Comments	Observations	US	15.08.2007
3	Document-examples	Exemples de documents	JP	27.08.2007
4	Document-examples	Exemples de documents	GB	28.08.2007
5	Comments	Observations	JP	12.09.2007
6	Comments	Observations	FR	18.09.2007
7	Rapporteur report	Rapport du rapporteur	GB	10.10.2007
8	Comments	Observations	JP	30.10.2007
9	Comments	Observations	EP	08.11.2007
10	Comments	Observations	BR	12.11.2007
11	Rapporteur report	Rapport du rapporteur	GB	19.11.2007
12	Comments	Observations	JP	21.11.2007
13	Working Group decision	Décision du groupe de travail	IB	14.01.2008
14	Comments	Observations	DE	28.03.2008
15	Comments	Observations	EP	28.03.2008
16	Comments	Observations	US	02.04.2008
17	Comments	Observations	SE	07.04.2008

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
18	Rapporteur proposal	Proposition du rapporteur	GB	24.04.2008
19	Comments	Observations	DE	19.05.2008
20	Comments	Observations	US	21.05.2008
21	French version	Version française	FR	22.05.2008
22	Working Group decision	Décision du groupe de travail	IB	26.06.2008
23	Comments	Observations	DE	12.09.2008
24	Comments	Observations	US	12.09.2008
25	Comments	Observations	EP	26.09.2008
26	Comments	Observations	SE	07.10.2008
27	Comments	Observations	JP	09.10.2008
28	Rapporteur proposal	Proposition du rapporteur	GB	17.10.2008
29	Comments	Observations	US	20.11.2008
30	Comments	Observations	EP	21.11.2008
31	Working Group decision	Décision du groupe de travail	IB	07.01.2009
32	Rapporteur proposal	Proposition du rapporteur	GB	04.02.2009
33	French version	Version française	FR	07.04.2009
34	Comments	Observations	CA	21.04.2009

EXCERPT FROM DOCUMENT IPC/WG/20/2
EXTRAIT DU DOCUMENT IPC/WG/20/2

Project C 449 (electrical) – Discussions were based on the latest rapporteur report (see Annex 28 to the project file). The proposal therein was approved, with some amendments (see Technical Annexes 15 to 16 to this report). Rapporteur was invited to consider whether the second part of the title of subclass G07B and the part of the G07B subclass index relating to group 15/00, in particular the use of the term “apparatus”, were adequate to cover the subject matter of group 15/00 as presently defined, and to prepare a proposal for their modification, if needed.

A French version was requested for consideration at the next session of the Working Group.

Projet C 449 (électricité) – les délibérations ont eu lieu sur la base du dernier rapport du rapporteur (voir l'annexe 28 du dossier de projet). La proposition présentée dans le rapport en question a été approuvée avec quelques modifications (voir les annexes techniques 15 et 16 du présent rapport). Le rapporteur a été invité à vérifier si la deuxième partie du titre de la sous-classe G07B et la partie du schéma général de la sous-classe G07B relative au groupe 15/00, en particulier en ce qui concerne l'utilisation du terme « appareils », étaient appropriées pour couvrir la matière classée dans le groupe 15/00, tel qu'il est défini actuellement, et à élaborer une proposition de modification, le cas échéant.

Une version française a été demandée pour examen à la session suivante du groupe de travail.

ANNEX 15E G07B [Project-Rapporteur : C449/GB <WG20>
]

CL C 15/00 *Arrangements or apparatus for collecting fares, tolls or entrance fees at one or more control points (handling coins or paper currency **G07D**; apparatus for vending or hiring articles or services activated by coins, credit cards, paper currency or the like **G07F 7/00**, **G07F 17/00**)*

CL N Note
15/00 Data processing aspects of payment systems or protocols relating to toll, entrance fee or fare collection, e.g. in road pricing or congestion charging, are also classified in **G06Q 20/00**. [new.]

CL C 15/02 · taking into account a variable factor such as distance or time, e.g. for passenger transport, parking systems or car rental systems (**G07B 15/06** takes precedence; taximeters **G07B 13/00**; parking meters per se **G07F 17/24**)

CL N 15/06 · Arrangements for road pricing or congestion charging of vehicles or vehicle users, e.g. automatic toll systems

CL N Note
15/06 This group covers the identification or tracking of vehicles or vehicle users for the purpose of road pricing or congestion charging, which means that vehicles or vehicle users are not necessarily

channelled through fixed control points, e.g. toll booths or overhead gantries, but may be detected at a number of places when they travel in normal fashion in a pre-defined locality, e.g. a defined area in a city centre or an expressway, and where the information so generated is then used to determine a charge to be paid. **[new.]**

ANNEX 16E G08G [Project-Rapporteur : C449/GB <WG20>
]

CL M 1/01 · Detecting movement of traffic to be counted or controlled (**G08G 1/07-G08G 1/14** take precedence; road pricing or congestion charging of vehicles or vehicle users **G07B 15/06**)

CL M 1/065 · by counting the vehicles in a section of the road or in a parking area, i.e. comparing incoming count with outgoing count (road pricing or congestion charging of vehicles or vehicle users **G07B 15/06**)

UK Intellectual Property Office	GB Rapporteur report
IPC Revision project C449 Subclasses G07B, G06Q etc.	Date: 4 February 2009

Following the adoption of the Annex 31 proposal at RWG/20, the WG asked the Rapporteur to investigate whether the second part of the title of subclass G07B, and the subclass index, needed consequential changes.

R agrees that these items clearly need a change. The second part of the subclass title (which corresponds to group 15/00 and its subgroups) clearly needs improvement because the expression “fare-registering apparatus” is incorrect and does not cover the contents of that group. In fact, it has never properly covered the content of that group, because the intention was never to limit the group to registering only; collecting the money was always covered. See for example groups 15/00 and 15/04 where a transfer of money clearly has been made.

R sees no alternative but to reproduce the newly-amended title of group 15/00 in full in the subclass title (as a third part of the title – see below). A similar change is proposed for the subclass index.

In addition to this, R feels that taximeters (group 13/00) are not properly covered in the G07B subclass title, and proposes to add this as an all-new second part of the subclass title.

Proposal (change in subclass title underlined):

G07B subclass title **Ticket-issuing apparatus; Taximeters; Arrangements or apparatus for collecting fares, tolls or entrance fees at one or more control points; Franking apparatus**

G07B subclass index

TAXIMETERS	13/00
ARRANGEMENTS OR APPARATUS FOR COLLECTING FARES, TOLLS OR ENTRANCE FEES AT ONE OR MORE CONTROL POINTS	15/00
Franking apparatus	17/00

Martin Price

**ANNEX 15E G07B [Project-Rapporteur : C449/GB <WG20>
]**

CL C 15/00 *Dispositions ou appareils pour encaisser le prix des billets ou les droits d'entrée ou de péage en un ou plusieurs points de contrôle (manipulation de pièces de monnaie ou de papier-monnaie [G07D](#); appareil de vente ou de location d'articles ou de services actionnés par jetons, cartes de crédit, papier-monnaie ou analogues [G07F 7/00](#), [G07F 17/00](#))*

CL N Note
15/00 Les aspects de traitement de données des systèmes ou des protocoles de paiement relatifs à l'encaissement du prix des billets, des droits d'entrée ou de péage, p.ex. pour la tarification routière modulable ou la taxation de congestion sont également classés en [G06Q 20/00](#). [nouveau.]

CL C 15/02 · *prenant en compte un facteur variable tel que la distance ou le temps, p.ex. pour le transport de passagers, les systèmes de parcs de stationnement ou les systèmes de location de véhicules ([G07B 15/06](#) a priorité; taximètres [G07B 13/00](#); horodateurs en soi [G07F 17/24](#))*

CL N 15/06 · *Dispositions pour la tarification routière modulable ou la taxation de congestion de véhicules ou d'utilisateurs de véhicules, p.ex. systèmes de péage automatiques*

CL N Note
15/06 Le présent groupe couvre l'identification et le suivi de véhicules ou d'utilisateurs de véhicules à des fins de tarification routière modulable ou de taxation de congestion, ce qui signifie que les véhicules ou les utilisateurs de véhicules ne doivent pas nécessairement passer par des points de contrôle fixes, p. ex. un péage ou un portique, mais peuvent être détectés en certains endroits tout en circulant de manière normale dans une localité particulière, p. ex. une zone déterminée dans un centre ville ou sur une autoroute, et où les informations ainsi fournies sont utilisées pour calculer une taxe à payer.

**ANNEX 16E G08G [Project-Rapporteur : C449/GB <WG20>
]**

CL M 1/01 · *Détection du mouvement du trafic pour le comptage ou la commande ([G08G 1/07](#) à [G08G 1/14](#) ont priorité; tarification routière modulable ou taxation de congestion de véhicules ou d'utilisateurs de véhicules [G07B 15/06](#))*

CL M 1/065 · par comptage des véhicules dans une section de la route ou dans un parc de stationnement, c. à d. en comparant le nombre des arrivants et celui des partants (tarification routière modulable ou taxation de congestion de véhicules ou d'utilisateurs de véhicules **G07B 15/06**)



Project Number : C449
Class/Subclass : G07B, G08G
Date : 2009/04/21

CA approuve en général la teneur de la proposition FR de l'annexe 33. Nous aimerions faire part de l'observation suivante.

Note sous le G07B 15/00

Afin d'être constant avec la terminologie utilisée dans la sous-classe du G06Q, nous suggérons le changement suivant.

« Les aspects de traitement de données des systèmes ou des protocoles de ~~payement~~ **paiement** relatifs à l'encaissement du prix des billets, des droits d'entrée ou de péage, p.ex. pour la tarification routière modulable ou la taxation de congestion sont également classés en G06Q 20/00. »

Philippe Perras
Examineur en classification de brevets



IPC/C 452
ORIGINAL: English/French
DATE: 03.06.2009

WORLD INTELLECTUAL PROPERTY ORGANIZATION
ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE
GENEVA/GENÈVE

COMMITTEE OF EXPERTS OF THE IPC UNION
COMITÉ D'EXPERTS DE L'UNION DE L'IPC

CL REVISION PROJECT FILE
DOSSIER DE PROJET RÉVISION NIVEAU DE BASE

PROPOSAL BY : PROPOSITION DE :	IPC AREA: DOMAINE DE LA CIB : B82
RAPPORTEUR : US	TECHNICAL FIELD : DOMAINE TECHNIQUE : E

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Decision of the subcommittee	Décision du sous-comité	IB	03.01.2008
2	Revision request with proposal	Demande de révision avec proposition	US	03.01.2008
3	Comments	Observations	CN	28.03.2008
4	Comments	Observations	RU	23.04.2008
5	Comments	Observations	US	15.05.2008
6	Proposal - scheme	Proposition - schéma	US	15.05.2008
7	Comments	Observations	IB	20.05.2008
8	Proposal	Proposition	IB	28.05.2008
9	Comments	Observations	EP	28.05.2008
10	Comments	Observations	DE	02.06.2008
11	Comments	Observations	JP	06.06.2008
12	Working Group decision	Décision du groupe de travail	IB	26.06.2008
13	Comments	Observations	EP	30.06.2008
14	Comments	Observations	SE	27.08.2008
15	Comments	Observations	JP	16.09.2008
16	Comments	Observations	IB	02.10.2008

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
17	Comments	Observations	RU	06.10.2008
18	Comments	Observations	JP	16.10.2008
19	Rapporteur report	Rapport du rapporteur	US	30.10.2008
20	Rapporteur report	Rapport du rapporteur	US	30.10.2008
21	Comments	Observations	JP	06.11.2008
22	Comments	Observations	RU	07.11.2008
23	Working Group decision	Décision du groupe de travail	IB	07.01.2009
24	Rapporteur report	Rapport du rapporteur	US	05.03.2009
25	Consideration by IPC/CE	Examen par le Comité d'experts	IB	09.04.2009
26	Comments	Observations	JP	17.04.2009
27	Comments	Observations	RU	18.05.2009
28	Rapporteur report	Rapport du rapporteur	US	29.05.2009
29	Rapporteur proposal	Proposition du rapporteur	US	30.05.2009
30	Comments	Observations	RU	03.06.2009

EXCERPT FROM DOCUMENT IPC/WG/20/2
EXTRAIT DU DOCUMENT IPC/WG/20/2

Project C 452 (electrical) – A general discussion took place which was based on Annexes 10 to 22 to the project file and, in particular, on Annex 20 containing a rapporteur report.

It was noted that the purpose of the new proposed scheme was:

- to collect in one single place, readily visible to all users, all art related to nanotechnology;
- to serve for searching, in combination with classification symbols, nanotechnology aspects in places where subdivisions relating to nanotechnology are not explicit;
- to help in identifying places where nanotechnology-related subdivisions should be created and in identifying the documents to be reclassified therein;

In order to serve the above purposes, this scheme should be:

- universal, i.e. applied in combination with any other symbol throughout the IPC;
- used obligatorily, in the sense that its use should be compulsory and not in the sense that it should be used to classify invention information only;
- secondary, i.e. that its symbols should be allotted with at least one additional ordinary classification symbol (primary symbol);
- applied even if the primary symbol already covers the particular aspect of nanotechnology; and
- “temporary”. When in the future nanotechnology becomes a “mature” technology and is concentrated in particular areas in the IPC where nanotechnology groups are created, then this scheme could be abolished without any harm or need for reclassification.

Currently, the *Guide to the IPC* has provision for two types of schemes in addition to ordinary classification:

- indexing schemes. However, their application is not compulsory, they are applied in combination with symbols from identified specific places in the IPC (i.e. indexing schemes are not universal) and they provide aspects that do not exist in the ordinary associated classification schemes. Furthermore, subdivision of classification places along the line of an indexing scheme is prohibited; and
- secondary classification schemes. Their use is obligatory; however, like the indexing schemes, they are not universal. They provide different aspects than the associated classification schemes which cannot be subdivided along the line of the secondary scheme.

In view of the above limitations, it was agreed that a new type of universal (tagging, indexing, secondary classification) scheme is needed. This new type should be:

- universal;
- secondary;
- obligatorily applied;
- allow the development of related subdivisions in ordinary classification schemes;
- “temporary”; and
- readily visible to all users.

In that respect, it was agreed that a new section (e.g. “J”) could be created, which could, in the future, collect other technologies or uses with universal application (e.g. environment protection, biotechnology, although these are examples from the past).

It was therefore decided to bring this matter to the attention of the Committee at its forty-first session in March 2009. The International Bureau was requested to draft an official request for the creation of this new type of scheme, including all necessary amendments to the *Guide*. A relevant CE project should also be created to offer a forum of discussion.

It was however noted that, although the Working Group had a preferred choice, other solutions could be presented during the discussion, such as broadening the use of existing secondary classification schemes.

In order to allow the continuation of the technical discussion in project C 452, the Rapporteur was requested to draft a new proposal taking into account the rules of the new type of scheme as described above.

In addition, it was agreed that this new proposal should contain a limited number of entries at the main group level only. Comments were invited on this proposal to be submitted, to be followed by a rapporteur report.

Projet C 452 (électricité) – un débat général a eu lieu sur la base des annexes 10 à 22 du dossier de projet, plus particulièrement sur la base de l’annexe 20 qui contient un rapport du rapporteur.

Il a été noté que le nouveau schéma proposé avait pour objet :

- de rassembler toute la technique relative à la nanotechnologie en un seul endroit facile à repérer pour tous les utilisateurs;
- de servir à retrouver, en association avec des symboles de classement, les aspects relatifs à la nanotechnologie dans les endroits où les subdivisions relatives à la nanotechnologie ne sont pas claires;
- d’aider à repérer les endroits dans lesquels les subdivisions relatives à la nanotechnologie devraient être créées et les documents qu’il faudrait reclasser dans ces subdivisions.

Afin de répondre à ces objectifs, ce schéma devrait être :

- universel, c’est-à-dire appliqué en association avec tout autre symbole dans la CIB;
- utilisé obligatoirement, dans le sens où son utilisation devrait être obligatoire, pas dans le sens où il devrait être utilisé pour classer l’information d’invention uniquement;
- secondaire, c’est-à-dire que ses symboles devraient être attribués avec au moins un symbole de classement supplémentaire (symbole primaire);
- appliqué même si le symbole primaire vise déjà l’aspect particulier de la nanotechnologie; et
- “temporaire”. Dans l’avenir, lorsque la nanotechnologie sera devenue une technologie “mature” et portera essentiellement sur des domaines particuliers de la CIB dans lesquels des groupes relatifs à la nanotechnologie seront créés, ce schéma pourra alors être supprimé sans causer de dommages et sans qu’il soit nécessaire de procéder à un reclassement.

Actuellement, le *Guide d’utilisation de la CIB* contient des dispositions pour deux types de schémas en plus du classement ordinaire :

- les schémas d’indexation. Leur application n’est pas obligatoire; ils sont appliqués en association avec des symboles provenant d’endroits spécifiques identifiés dans la CIB (ce qui signifie que les schémas d’indexation n’ont pas un caractère universel) et ils présentent des aspects qui n’existent pas dans les schémas de classement associés ordinaires. En outre, la subdivision des entrées conformément à un schéma d’indexation est interdite; et
- les schémas de classement secondaire. Leur utilisation est obligatoire; toutefois, à l’instar des schémas d’indexation, ils n’ont pas un caractère universel. Ces schémas présentent d’autres aspects que les schémas de classement associés qui ne peuvent pas être subdivisés sur le modèle des schémas secondaires.

Compte tenu des limitations précitées, il a été convenu qu'un nouveau type de schéma universel (balisage, indexation, classement secondaire) était nécessaire. Ce nouveau schéma devrait :

- être universel;
- être secondaire;
- être obligatoirement appliqué;
- permettre l'élaboration de subdivisions correspondantes dans les schémas de classement ordinaire;
- être "temporaire";
- être facile à repérer pour tous les utilisateurs.

À cet égard, il a été convenu qu'une nouvelle section (par exemple, "J") pourrait être créée afin de rassembler plus tard d'autres technologies ou utilisations ayant une application universelle (par exemple, la protection de l'environnement ou la biotechnologie, bien que ces exemples appartiennent au passé).

Il a donc été décidé de porter cette question à l'attention du comité à sa quarante et unième session, prévue en mars 2009. Le Bureau international a été prié d'établir une demande officielle pour la création de ce nouveau type de schéma, y compris toutes les modifications à apporter au *Guide*. Un projet CE correspondant devrait aussi être créé afin de permettre un échange de vues.

Toutefois, il a été noté que, bien que le groupe de travail ait une préférence quant au choix possible, d'autres solutions pouvaient être présentées au cours des débats, par exemple l'extension de l'utilisation des schémas de classement secondaire existants.

Pour la poursuite de l'examen technique du projet C 452, le rapporteur a été prié d'élaborer une nouvelle proposition compte tenu des règles du nouveau type de schéma décrit ci-dessus.

En outre, il a été convenu que cette nouvelle proposition devrait contenir un nombre limité d'entrées au niveau du groupe principal seulement. Des observations ont été demandées sur cette proposition à soumettre, qui sera suivie d'un rapport du rapporteur.

EXCERPT FROM DOCUMENT IPC/CE/41/6
EXTRAIT DU DOCUMENT IPC/CE/41/6

INTRODUCTION OF A NEW TYPE OF UNIVERSAL INDEXING/TAGGING SCHEME
IN THE IPC

41. Discussions were based on Annex 1 to project CE 413, containing a proposal prepared by the International Bureau on the introduction of a new type of universal indexing/tagging scheme in the IPC.

42. It was recalled that the Working Group, at its twentieth session held in November 2008, had concluded that the new scheme proposed in the framework of project C 452 (nano-technology) should be:

- universal;
- secondary;
- obligatorily applied;
- allow the development of related subdivisions in ordinary classification places;
- “temporary”; and
- readily visible to all users.

43. Since paragraph 107 of the *Guide to the IPC* (hereinafter referred to as the *Guide*), does not cover all the above features, the Working Group had requested the Committee to create a new type of scheme with the above features, or to broaden the scope of paragraph 107.

44. It was noted that the *Guide* had several provisions for multiple classification, such as multi-aspect obligatory or non-obligatory classification, indexing, secondary obligatory, and although finally, the practical result is almost always the same, nonetheless some contradictions and confusions arise. Furthermore, introduction of a new section in the IPC should not be adopted in an expeditious manner since this could require major changes in many of the associated IT systems.

45. It was therefore decided, instead of introducing another type of scheme, to review and amend all paragraphs of the *Guide* relative to multiple classification and indexing, aiming at simplification. The International Bureau was requested to prepare and post a comprehensive proposal to project CE 413 and subsequently discussion could take place in the framework of that project.

46. The Working Group was invited to continue the revision work on project C 452, taking into account the following remarks:

– all nano-technology related art should be collected in one place, namely class B82 in order to assure better visibility;

– a new subclass should be created to provide a basis for a complete search to be made with respect to nano-technology applications, as defined in the subclass title, notes and definitions. It should be used, in combination with other classification symbols which cover relevant aspects of the subject matter, to obligatorily classify either invention or additional information. It should be used in order to easily collect statistics to identify trends in nano-technology applications and to identify places elsewhere in the IPC where nano-technology applications develop;

– this new subclass should be created at the end of class B82, e.g., as B82Y, so as to clearly distinguish it from the other “ordinary” subclass for nano-technology. It should be broadly subdivided into main groups which should not be further subdivided according to technical features; and

– the scope of existing subclass B82B should be broadened in order to cover technical features that fall under the new definition of “nano-structure”, as proposed in the new Note under the title of class B82 (see Annex 6 to project file C 452).

INTRODUCTION D’UN NOUVEAU TYPE DE SCHÉMA D’INDEXATION OU DE BALISAGE UNIVERSEL DANS LA CIB

41. Les délibérations ont eu lieu sur la base de l’annexe 1 du projet CE 413, contenant une proposition du Bureau international relative à l’introduction d’un nouveau type de schéma universel d’indexation ou de balisage dans la CIB.

42. Il a été rappelé que le groupe de travail, à sa vingtième session tenue en novembre 2008, était parvenu à la conclusion que le nouveau schéma proposé dans le cadre du projet C 452 (nanotechnologie) devrait

- être universel;
- être secondaire;
- être d’application obligatoire;
- permettre l’élaboration de subdivisions correspondantes dans les endroits de classement ordinaire;
- être “temporaire”; et
- être facile à repérer pour tous les utilisateurs.

43. Étant donné que le paragraphe 107 du *Guide d’utilisation de la CIB* (ci-après dénommé “*guide d’utilisation*”) ne couvre pas toutes les caractéristiques susmentionnées, le groupe de travail a prié le comité de créer un nouveau type de schéma doté des caractéristiques susmentionnées, ou d’élargir la portée du paragraphe 107.

44. Il a été indiqué que le *guide d’utilisation* contenait plusieurs dispositions relatives au classement multiple, telles que le classement obligatoire ou non obligatoire selon plusieurs aspects, l’indexation ou le classement secondaire obligatoire. Même si, en définitive, le résultat concret était presque toujours identique, elles pouvaient être source de contradictions et de confusion. Par ailleurs, l’introduction d’une nouvelle section dans la CIB ne devrait pas être adoptée de manière hâtive étant donné qu’elle peut nécessiter des changements majeurs dans de nombreux systèmes informatiques.

45. C’est pourquoi, il a été décidé, au lieu d’introduire un nouveau type de schéma, de réexaminer et de modifier tous les paragraphes du *guide d’utilisation* relatifs au classement multiple et au classement avec indexation, dans un but de simplification. Le Bureau international a été prié d’établir et de publier une proposition détaillée dans la partie consacrée au projet CE 413, afin qu’une discussion puisse avoir lieu par la suite dans le cadre de ce projet.

46. Le groupe de travail a été invité à poursuivre le travail de révision sur le projet C 452, compte tenu des observations ci-après :

- toutes les techniques relatives à la nanotechnologie devraient être rassemblées dans un seul endroit, à savoir la classe B82, afin d’assurer une meilleure visibilité;
- une nouvelle sous-classe devrait être créée pour permettre d’effectuer une recherche complète sur les applications de la nanotechnologie, conformément au titre, aux notes et aux définitions de la sous-classe. Elle devrait être utilisée, en corrélation avec les autres symboles de classement qui couvrent les aspects pertinents de la matière, pour le classement obligatoire soit de l’invention, soit de l’information supplémentaire. Elle servirait à faciliter la collecte de statistiques pour dégager les tendances des applications de la nanotechnologie et recenser les autres endroits de la CIB où ces applications se développent;
- cette nouvelle sous-classe devrait être créée à la fin de la classe B82, par exemple en tant que B82Y, afin de la différencier clairement des autres sous-classes “ordinaires” dans le domaine de la

nanotechnologie. Elle devrait être *grosso modo* subdivisée en deux groupes principaux, lesquels ne devraient pas être subdivisés en fonction des éléments techniques; et

– la portée de la sous-classe B82B actuelle devrait être élargie afin de couvrir les éléments techniques qui relèvent de la nouvelle définition d’une “nanostructure”, ainsi qu’il est proposé dans la nouvelle note sous le titre de la classe B82 (voir l’annexe 6 du dossier de projet C 452).

JAPAN PATENT OFFICE

April 17, 2009

Project: C452

Subclass: B82

JP Comment

IB made the following appeal in Annex 25 of the project file of C452 by citing paragraphs 41 ~ 46 from the Report of the recent 41st CE meeting.

“The Working Group was invited to continue the revision work on project C452, taking into account the following (4) remarks:”

JP would like to explain the JP position in respect of those four remarks as follows.

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(a) JP position in respect of Remarks 1 and 4

1. all nano-technology related art should be collected in one place, namely class B82 in order to assure better visibility;

4. the scope of existing subclass B82B should be broadened in order to cover technical features that fall under the new definition of “nano-structure”, as proposed in the new Note under the title of class B82 (see Annex 6 to project file C 452).

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JP cannot agree with Remark 1 on the understanding that it is intended to collect primary classifications relating to nano-technology in class B82. Neither JP can support the idea expressed in Remark 4. JP has repeatedly drawn attention (see Annex 11, 15, 18) to problematic points in creating an ordinary IPC classification in respect of “nano-structure” in wider sense (as seen in the Note after the title of B82 as proposed in Annex 6).

If primary classifications having nano-structure in wider sense as scope were established, there would be caused a state of duplication of scope with other existing IPC subclasses in many technical areas. Under that situation, there might occur such cases wherein only the newly created nano-technology classification is given, but the existing classification, which has been unavoidably given to date, may fail to be given. The existence of such defective classification would result in the defective search or the necessity of complex search strategy on the part of users attempting to make search on the subject matters covered by existing subclasses. (see Annex 15)

The current situation is that the invention information in patent documents is being properly classified under the existing IPC system. There should be no need to create primary classification in connection with the arts related to nano-technology in particular. (see Annex 18)

With specific regard to the scope of B82B, this point was fully discussed in the 20th meeting of IPC Revision WG and, as JP understands it, the majority of opinions were to retain the scope as at present.

In conclusion, JP would raise objection against collecting primary classification related to nano-technology in class B82. JP believes that the classification of such technology should be developed under each of existing subclasses covering that technology in its own scope and that the scope of B82B should remain to be the same as at present.

(b) JP position in respect of Remark 2

2. a new subclass should be created to provide a basis for a complete search to be made with respect to nano-technology applications, as defined in the subclass title, notes and definitions. It should be used, in combination with other classification symbols which cover relevant aspects of the subject matter, to obligatorily classify either invention or additional information. It should be used in order to easily collect statistics to identify trends in nano-technology applications and to identify places elsewhere in the IPC where nano-technology applications develop;

JP agrees with this remark. For the realization of these objectives, it must be kept in mind that such conditions would be important as that the new subclass shall be universal and that the cases having overlapping aspects with other subclasses shall not be excluded.

(c) JP position in respect of Remark 3

3. this new subclass should be created at the end of class B82, e.g., as B82Y, so as to clearly distinguish it from the other “ordinary” subclass for nano-technology. It should be broadly subdivided into main groups which should not be further subdivided according to technical features;

JP is not specifically against the creation of the new subclass in the name of “B82Y”, but should like to present some alternatives below. As can be seen in Annex 25, the introduction of another type of scheme in the Guide was not materialized. As concerns the creation of a new Section, however, it was the cost for the restructuring of IT system that was regarded problematic and it was not rejected to create a new classification in line with the scheme proposed in the 20th meeting of IPC Revision WG (Paragraph 42 in Annex 25). Furthermore, the creation of other new classifications following the said scheme can be expected in various fields of technology beside nano-technology in future. It is considered of advantage to collect such new classifications at one place, so that they be easily distinguishable from the other “ordinary” classifications, in the following manner for example.

- To collect all subclasses following the said new scheme at one place. Since the new scheme is universal, it may not be appropriate to place that collection in an existing section, or else, it may be placed in the last section, e.g., as “H90”, so as to clearly distinguish the different feature from ordinary classification.
- To provide a sub-section for the new scheme in every section, using the same numeral after the section-indicating alphabet, e.g. A90, B90, C90, etc.
- To provide a subclass in the most relevant class to the technology in question. It may be desirable to use the same alphabet (e.g. “Y”) as the last or fourth character in the subclass symbol.

With regard to the second sentence in Remark 3, JP would support the idea of limiting the subdividing of the new subclass at the level of main groups. As is pointed out in Remark 2, the new subclass is to be used in combination with other classification and it should not be needed to provide with overly detailed classification.

[END]

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FEDERAL INSTITUTE OF INDUSTRIAL PROPERTY

IPC Project C452, B82
2009

May 18th,

RU COMMENTS

Re: paragraph 46 of IPC/CE/41/6

“The Working Group was invited to continue the revision work on project C452, taking into account the following (4) remarks”:

(1) - all nano-technology related art should be collected in one place, namely class B82 in order to assure better visibility

In RU opinion the expression “should be collected in one place” (class B82) can not be considered quite correct since it is not clear

- how to use for classifying the existing subclass B82B with respect to other IPC places;
- whether a new subclass under B82 (presumably B82Y) would be created, and if yes, what kind of subclass it should be.

Moreover B82 is not a single place for classifying “nano-documents”.

We support the intention to make visible all “nano-documents” by means of assigning the symbols of a new subclass (e.g. B82Y).

(2) - a new subclass should be created to provide a basis for a complete search to be made with respect to nano-technology applications, as defined in the subclass title, notes and definitions

RU propose to create a new subclass under B82 as application-oriented place but not as a basis for complete search. This new subclass should be used for collecting “nano-inventions” according to their use or applications (as it was suggested in our proposal).

- **a new subclass should be used, in combination with relevant aspects of the subject matter, to obligatorily classify either invention or additional information**

RU fully agree that this new subclass can not be used independently but ***always*** in combination with other classification symbols which cover ***relevant aspects*** of the subject matter. We would particularly pay attention to the statement about ***obligatory classification*** in this new subclass either invention or additional information. We understand it as obligatory multiple classification of “nano-objects”.

RU fully support the last statement of the remark (2).

(3) - **this new subclass should be created at the end of class B82, e.g., as B82Y, so as to clearly distinguish it from the other “ordinary” subclass for nano-technology**

RU believe it to be much simpler to create subclass B82Y than Section J.

- **this new subclass should be broadly subdivided into main groups which should not be further subdivided according to the technical features**

We would prefer to have in it a limited number of very general main groups with the ***residual*** one. These main groups should cover application aspects of nano-technologies. Technical features should be covered by the appropriate IPC places including B82B.

(4) - **the scope of existing subclass B82B should be broaden in order to cover technical features that fall under the new definition of “nano-structure”, as proposed in the new Note under the title of class B82 (see Ann.6 to the project file C452)**

RU do not support broadening the scope of the existing subclass B82B as it is indicated in this remark.

In our opinion firstly it should be solved the problem of relationship (or overlapping) between B82B and specific nano-related IPC places. It could be done by the introduction of a delimitation note after the title of subclass B82B or by the amendment of the title of B82B.

We believe the priority of development of nano-technology-related entries should belong to the appropriate places of the IPC.

Lada Tsikunova

United States Patent and Trademark Office	
Topic: Project C452, IPC B82 Nanotechnology	Date: 29 May 2009

Rapporteur Report

Ref: CE419-Annex 15: Adoption of CE/41 session report, 08-Apr-09
 C452-Annex 6: R- Initial proposal, 15-May 08
 C-452-Annex 11: JP comments on R- initial proposal, 06-Jun-08
 C-452-Annex 15: JP comments on R- initial proposal, 16-Sept-08
 C-452-Annex 18: JP comments on R- initial proposal, 16-Oct-08
 C452-Annex 8: IB proposal, 28-May-08
 C452-Annex 25: Consideration by IPC/CE, 09-Apr-09
 C452-Annex 26: JP comments, 17 Apr 09
 C452-Annex 27: RU comments on Annex 25

Rapporteur greatly thanks IB for the CE/41session report and JP and RU for their comments.

A. Summaries of main points in each referred annex:

C452-Annex 25:

Paragraph 46 presented the four remarks that the Working Group should consider to continue the revision work on project C452. They are:

1. all nano-technology related art should be collected in one place, namely class B82 in order to assure better visibility;
2. a new subclass should be created to provide a basis for a complete search to be made with respect to nano-technology applications, as defined in the subclass title, notes and definitions. It should be used, in combination with other classification symbols which cover relevant aspects of the subject matter, to obligatorily classify either invention or additional information. It should be used in order to easily collect statistics to identify trends in nano-technology applications and to identify places elsewhere in the IPC where nano-technology applications develop;
3. this new subclass should be created at the end of class B82, e.g., as B82Y, so as to clearly distinguish it from the other “ordinary” subclass for nano-technology. It should be broadly subdivided into main groups which should not be further subdivided according to technical features; and
4. the scope of existing subclass B82B should be broadened in order to cover technical features that fall under the new definition of “nano-structure”, as proposed in the new Note under the title of class B82 (see Annex 6 to project file C 452).

C452-Annex 26: JP comments on the above four remarks.

- JP can't agree with remarks 1 and 4 based on their understanding that the proposed nanotechnology scheme is intended to collect primary classifications related to nano-technology in class B82. JP also does not support the idea of broadening the scope of B82B. JP points to the reasons presented in the project file of C452-Annexes 11, 15 and 18. In these annexes JP has addressed the “problematic points in creating an ordinary IPC classification in respect of nano-structure in “a wider sense” (as seen in the Note after the title of B82 as proposed in Annex 6)”. JP believes that having B82 as a place for primary classifications of nano-technology and broadening the scope of B82 nano-structure will create a situation where classifications are only given in the newly created nano-technology scheme rather than in the existing areas of the IPC that should be used for primary classification and that there will be a duplication of scope with existing IPC technical areas. JP believes that nano-technology related primary classifications should be developed under appropriate existing IPC subclasses covering the technology and the scope of B82B should remain as it is now.
- JP agrees with remark 2 and emphasizes that the new subclass should be universal and that overlapping aspects with other subclasses should not be prohibited.

- With respect to remark 3, JP supports the idea of limiting the new scheme to main group level and is not opposed to the creation of new subclass B82Y. However, JP proposes alternatives for collecting universal-type schemes, like the nano-technology scheme, in a visible location without incurring the expense of creating a new Section in the IPC. JP suggests creating a Class under one existing IPC section (A-H), such as H90 which could collect all new universal-type schemes. For example the Nano-technology scheme could be H90A. As another alternative, JP suggests that new Classes could be created in all Sections of the IPC for collecting the universal-type schemes, e.g. A90, B90, C90. Lastly, JP suggests providing a Subclass in the most relevant Class for the technology in question.

C452-Annex 27: RU comments on the above four remarks.

- RU found remark 1 (“should be collected in one place”) unclear. They question how B82B will be used with respect to other IPC places and whether B82Y will be created and what kind of subclass it will be. However, RU supports the intention to make the nano-documents visible by assigning symbols of a new subclass such as B82Y.
- With respect to remark 2, RU proposes to create a new subclass under B82 as application-oriented place but not as a basis for complete search.
- With respect to remark 3, RU supports the creation of subclass B82Y rather than a new IPC section-J. However, the main groups of the new scheme should cover application aspects of nano-technologies and should include a residual main group.
- RU doesn’t support remark 4 to broaden the scope of the existing subclass B82B in order to cover technical features.

B. US comments on the four remarks:

- US agrees with remark 1 with the understanding that this new scheme will be a **secondary** obligatory classification place, not primary. US cannot agree with remark 4 to have the scope of the existing subclass B82B broadened to cover technical features, but instead, believes its scope should remain as is and that the priority of development of nano-technology-related entries should belong to the appropriate existing places of the IPC.
- US agrees with remark 2 and supports JP comments on remark 2.
- US agrees with remark 3 and supports RU’s proposal to add a residual main group to the new scheme. As for the JP alternatives for providing for this universal-type scheme, the nanotechnology scheme in particular, US prefers creating a subclass (B82Y) in the class most relevant to the technology, i.e. class B82 for nanotechnology, which will collect all nano-technology related art in one place.

C. Summary:

Rapporteur has taken all comments into consideration and has modified the proposal presented in C452-Annex 6 to create a secondary obligatory subclass B82Y, instead of B82C. This subclass will be in Class B82 and will provide a basis for a complete search of nano-technology classified primarily elsewhere in the IPC. It will comply with all of the characteristics of the scheme defined in the paragraph 42 of C452-Annex 25. The proposed subclass B82Y covers nano-structures, applications, manufacture, and treatment thereof wherein the nanostructure is in a “broader sense” than those of existing subclass B82B, i.e. nano-structures derived from any process. Additionally, the proposed scheme includes only main groups. A residual main group has also been included.

Notes: R adopted the titles of main groups B82C 5/00-35/00 and 99/00 presented in IB proposal of scheme [C452-Annex 8] for main groups B82Y 3/00-8/00 and 99/00 in the R modified scheme proposal found in the next annex, text in blue color font indicates modifications or new language inserted in the original proposal of Annex 6 and "strike-through" indicates deletions.

[End]

Modified Proposal

M **B82 NANO-TECHNOLOGY**

Note

In this class, the following terms are used with the meaning indicated:

- "nano-size" or "nano-scale" relate to a controlled geometrical size below 100 nanometres (nm) in one or more dimensions;
- "nano-structure" means an entity having at least one nano-sized functional component susceptible to make physical, chemical or biological properties or effects available uniquely attributable to the nano-scale.

M B82B NANO-STRUCTURES FORMED BY INDIVIDUAL MANIPULATION OF ATOMS, MOLECULES, OR LIMITED COLLECTIONS OF ATOMS OR MOLECULES AS DISCRETE UNITS; MANUFACTURE OR TREATMENT THEREOF

M **Note(s)**

1. Attention is drawn to the Note following the title of class B82, which defines the meaning of the terms "nano-size", "nano-scale" and "nano-structure" in this class.
2. Attention is drawn to Notes (3)-(5) following the title of subclass **B82Y**, which requires further classification in **B82Y** of subject matter already classified in this subclass)
3. This subclass does not cover chemical or biological nano-structures per se, provided for elsewhere, e.g., in classes C08 or C12.
4. Nano-structures having specified features are also classified in appropriate places provided for their structural or functional features, if such features are of interest, in IPC sections A-H.

M 1/00 Nano-structures formed by individual manipulation of atoms, molecules, or
limited collections of atoms or molecules as discrete units.

M 3/00 Manufacture or treatment of nano-structures by manipulation of
individual atoms, molecules, or limited collections of atoms or
molecules as discrete units

N B82Y NANO-STRUCTURES IN GENERAL; MANUFACTURE, TREATMENT OR PROPERTIES THEREOF; APPLICATIONS OF NANO-STRUCTURES; MEASUREMENT OR ANALYSIS AT THE NANO-SCALE

~~Nano-structures in a "broader sense" than those of subclass B82B; use of a nano-structure in a component of a device or system or as part of a process with a particular function or purpose.~~

N Note(s)

1. This subclass covers nano-structures in a "broader sense" than those of subclass B82B, i.e. nano-structures derived from any process; use of at least once of such nano-structure in a component of a device or system or part of a process with a particular function or purpose.
2. Attention is drawn to the Note following the title of class B82, which defines the meaning of the terms "nano-size", "nano-scale" and "nano-structure" in this class.
3. This subclass is intended to provide a basis for a complete search to be made with respect to the subject matter defined by the subclass title and therefore it covers nano-structures and aspects of nano-structures that already have their primary classification elsewhere in the IPC.
4. This subclass is for secondary classification, i.e. for obligatory supplementary classification of subject-matter already obligatorily classified such in other classification places, e.g.:
 - B82B Nano-structure formed by individual manipulation of atoms, molecules, or limited collections of atoms or molecules as discrete units; manufacture or treatment thereof
 - A61K 9/51 Nano-capsules for medicinal preparations
 - B05D 1/20 Langmuir-Blodgett films
 - C01B31/02 Carbon nanostructures, e.g. bucky-balls, nanotubes, nanocoils, nano-doughnuts or nano-onions
 - G01Q Scanning Probes techniques; Apparatus structure and manufacture thereof; Scanning probe microscopy.
 - 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-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. For example, a nano- capsule for medical preparations that exhibits a specific physical effect uniquely attributable to the nano-scale receives a primary classification in A61K9/51 and is required to be classified in groups B82Y 1/00, 2/00 and 3/00 of this subclass.

7. This subclass **B82Y** gives no restrictive effect against the developing and use of subdivisions under other IPC classes.

N 1/00	Nano-structures
N 2/00 scale	~~Specified~~ Specific properties or effects uniquely attributable to the nano-
N 3/00	Nano-biotechnology or nano-medicine, e.g. protein engineering or drug delivery
N 4/00	Nano-technology for information processing, storage or transmission, e.g. quantum computing or single electron logic
N 5/00	Nano-technology for interacting, sensing or actuating, e.g. quantum dots as markers in protein assays or molecular motors
N 6/00	Nano-optics, e.g. quantum optics or photonic crystals
N 7/00	Nano-magnetism, e.g. magnetoimpedance, anisotropic magnetoresistance, giant magnetoresistance or tunnelling magnetoresistance
N 8/00	Nano-technology for materials or surface science, e.g. nano-composites
N 9/00	Method or apparatus for measurement or analysis of nano-structures
N 10/00	Manufacture or treatment of nano-structures
N 99/00	Subject matter not provided for in other groups of this subclass

RU PATENT OFFICE	
IPC Revision Project: C 452, Class 452	Date: June 3, 2009

RU thanks US Rapporteur for the scrutinized summary of all the discussion in this project.

RU would like to submit the alternative proposal based on

R's modified proposal (Ann.29, 30.05.09),

IB counter proposal (Ann.8, 28.05.08)

taking into account SE comments (Ann. 10.03.09) and RU comments (Ann.17, 06.10.08)

RU counterproposal

N **B82** Note

In this class, the following terms are used with the meaning indicated:

- “nano-size” or “nano-scale” relate to a controlled geometrical size below 100 nanometres (nm) in one or more dimensions
- “nano-structure” means an entity having at least one nano-sized functional component susceptible to make physical, chemical or biological properties or effects available uniquely attributable to the nano-scale.

C B82B **NANOSTRUCTURES NOT PROVIDED FOR ELSEWHERE;
MANUFACTURE OR TREATMENT THEREOF NOT PROVIDED
FOR ELSEWHERE**

Notes

1. Attention is drawn to the notes following the title of class B82, which define the meaning of the terms "nano-size", "nano-scale" and "nano-structure" in this class.

Taking into account the proposed wording of B82B Notes 2 and 3(Ann.8)

"This subclass does not cover chemical or biological nano-structures per se, provided for elsewhere, e.g. in classes C08 or C12.

When classifying in this subclass, subject matter of interest is also classified in other appropriate places, e.g.:

- A61K 9/51 *Nano-capsules for medicinal preparations*
- B05D 1/20 *Langmuir-Blodgett films*
- C01B31/02 *Carbon nanostructures, e.g. bucky-balls, nanotubes, nanocoils, nano-doughnuts or nano-onions*
- G01Q *Scanning Probes techniques; Apparatus structure and manufacture thereof; Scanning probe microscopy.*
- 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*

seem superfluous.

2. This subclass covers subject matter which is not specified elsewhere in the IPC.
3. In this subclass, multi-aspect classification is applied, so that subject matter characterised by aspects covered by more than one of its groups is classified in each one of these groups.

- | | |
|------|--|
| 1/00 | Nano-structures formed by manipulation of individual atoms, molecules or limited collections of atoms or molecules as discrete units |
| 3/00 | Manufacture or treatment of nano-structures formed by manipulation of individual atoms, molecules or limited collections of atoms or molecules as discrete units |

N B82Y SPECIFIC USES OR APPLICATIONS OF NANO-STRUCTURES

N Notes

1. Attention is drawn to the notes following the title of class B82, which define the meaning of the terms "nano-size", "nano-scale" and "nano-structure" in this class.
2. This subclass is intended for obligatory ***coding (classifying)*** documents already classified or indexed elsewhere in the IPC including B82B which relate to one or more than one general field of use or application of nanostructures.
3. The groups of this subclass are intended for monitoring new trends of development of nanotechnologies and do not replace the classification or indexing codes of other places of the IPC.
4. In this subclass, the use or application of nano-structures is classified in all appropriate groups.
5. The ***codes (classification symbols)*** of this subclass are not listed first when assigned to patent documents.

N 5/00 Nano-biotechnology or nano-medicine, e.g. protein engineering or drug delivery

N 15/00 Nano-technology for information processing, storage or transmission, e.g. quantum computing or single electron logic

N 20/00 Nano-technology for interacting, sensing or actuating, e.g. quantum dots as markers in protein assays or molecular motors

N 25/00 Nano-optics, e.g. quantum optics or photonic crystals

N 30/00 Nano-magnetism, e.g. magnetoimpedance, anisotropic magnetoresistance, giant magnetoresistance or tunnelling magnetoresistance

N 35/00 Nano-technology for materials or surface science, e.g. nano-composites

N 99/00 Subject matter not provided for in other groups of this subclass



IPC/C 453
ORIGINAL: English/French
DATE: 03.06.2009

WORLD INTELLECTUAL PROPERTY ORGANIZATION
ORGANISATION MONDIALE DE LA PROPRIÉTÉ INTELLECTUELLE
GENEVA/GENÈVE

COMMITTEE OF EXPERTS OF THE IPC UNION
COMITÉ D'EXPERTS DE L'UNION DE L'IPC

CL REVISION PROJECT FILE
DOSSIER DE PROJET RÉVISION NIVEAU DE BASE

PROPOSAL BY : PROPOSITION DE :	WG	IPC AREA: DOMAINE DE LA CIB :	G01M & H01T
RAPPORTEUR :	EP	TECHNICAL FIELD : DOMAINE TECHNIQUE :	E

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Rapporteur proposal	Proposition du rapporteur	EP	16.06.2008
2	Comments	Observations	CA	19.06.2008
3	Working Group decision	Décision du groupe de travail	IB	26.06.2008
4	Rapporteur proposal	Proposition du rapporteur	EP	07.08.2008
5	Comments	Observations	DE	14.08.2008
6	Comments	Observations	RU	02.09.2008
7	Comments	Observations	SE	02.09.2008
8	Comments	Observations	JP	04.09.2008
9	Rapporteur report	Rapport du rapporteur	EP	02.10.2008
10	Rapporteur proposal	Proposition du rapporteur	EP	02.10.2008
11	Comments	Observations	US	06.10.2008
12	Comments	Observations	CA	08.10.2008
13	Comments	Observations	RO	17.10.2008
14	Comments	Observations	JP	21.10.2008
15	Rapporteur report	Rapport du rapporteur	EP	13.11.2008
16	Comments	Observations	GB	20.11.2008
17	Comments	Observations	US	20.11.2008

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
18	Comments	Observations	JP	21.11.2008
19	Comments	Observations	CA	21.11.2008
20	Working Group decision	Décision du groupe de travail	IB	07.01.2009
21	French version	Version française	EP	10.02.2009
22	Rapporteur proposal	Proposition du rapporteur	EP	26.03.2009

EXCERPT FROM DOCUMENT IPC/WG/20/2
EXTRAIT DU DOCUMENT IPC/WG/20/2

Project C 453 (electrical) – Discussions were based on the latest rapporteur proposal (see Annex 10 to the project file). It was decided to use Option 2 as the basis for the amendments that were finally approved (see Technical Annexes 18 to 21 to this report). Rapporteur was invited to check whether the approved amendments had an impact on the definitions of subclasses G01M and G01R (projects D 027 and D 179, respectively) and to propose any corrections needed.

A French version was requested for consideration at the next session of the Working Group.

Projet C 453 (électricité) – les délibérations ont eu lieu sur la base de la dernière proposition du rapporteur (voir l'annexe 10 du dossier de projet). Il a été décidé d'utiliser l'option 2 comme point de départ pour les modifications qui ont finalement été approuvées (voir les annexes techniques 18 à 21 du présent rapport). Le rapporteur a été invité à vérifier si les modifications approuvées avaient une incidence sur les définitions des sous-classes G01M et G01R (respectivement les projets D 027 et D 179) et à proposer toute correction nécessaire.

Une version française a été demandée pour examen à la session suivante du groupe de travail.

**ANNEX 18E F23Q [Project-Rapporteur : C453/EP <WG20>
]**

CL M 3/00 **Igniters using electrically-produced sparks** (sparking plugs **H01T 13/00**)

CL M 23/00 **Testing of ignition installations** (peculiar to internal-combustion engines **F02P 17/00**; testing of sparking plugs **H01T 13/58**)

**ANNEXE 18F F23Q [Project-Rapporteur : C453/EP] <WG20>
[Tr.: EP]**

CL U 3/00 < Inchangé >

**ANNEX 19E G01M [Project-Rapporteur : C453/EP <WG20>
]**

CL M **Title** TESTING STATIC OR DYNAMIC BALANCE OF MACHINES OR STRUCTURES;
TESTING OF STRUCTURES OR APPARATUS, NOT OTHERWISE PROVIDED FOR

CL D 19/00 (transferred to [G01M 99/00](#))

CL D 19/02 (transferred to [H01T 13/58](#))

CL N 99/00 *Subject matter not provided for in other groups of this subclass*

ANNEX 20EF G01R [Project-Rapporteur : C453/EP <WG20>
]

CL D 31/38 (transferred to [H01T 13/60](#))

ANNEX 21E H01T [Project-Rapporteur : C453/EP <WG20>
]

AL M 4/10 · having a single gap or a plurality of gaps in parallel (sparking plugs [H01T 13/00](#))

CL only C 13/00 *Sparkign plugs (combined or associated with fuel injectors [F02M 57/00](#); structurally combined with other parts of internal-combustion engines [F02P 13/00](#))*

AL C 13/00 *Sparkign plugs*

AL N 13/58 · *Testing (testing characteristics of the spark in internal-combustion engine ignition [F02P 17/12](#))*

AL N 13/60 · · *of electrical properties*

AL M 21/04 · · Cleaning (means for self-cleaning [H01T 13/14](#); abrasive blasting devices for cleaning sparking plugs [B24C 3/34](#))

AL M 21/06 · Adjustment of spark gaps (sparking plugs having movable electrodes for adjusting the gap [H01T 13/26](#))

ANNEXE 21F **H01T** **[Projet-Rapporteur : C453/EP] <WG20>**
[Tr.: EP]

AL U 4/10 < Inchangé >

AL U 21/06 < Inchangé >

Principal Directorate Patent Grant Automation - Directorate Classification		
Project: C453	Subject: Testing of Sparking Plugs	IPC range: H01T
French Version		9 February 2009

Ref.: Annex 20 of project file

F23Q	Adopted EV	FV
CL M 3/00	Igniters using electrically-produced sparks (sparking plugs H01T 13/00)	<i>inchangé</i>
CL M 23/00	Testing of ignition installations (peculiar to internal-combustion engines F02P 17/00 ; testing of sparking plugs H01T 13/58)	Vérification des installations d'allumage (particulière aux moteurs à combustion interne F02P 17/00 ; essai des bougies d'allumage H01T 13/58)
G01M		
CL M Title	TESTING STATIC OR DYNAMIC BALANCE OF MACHINES OR STRUCTURES; TESTING OF STRUCTURES OR APPARATUS, NOT OTHERWISE PROVIDED FOR	<i>inchangé</i> <i>NB: French version also quotes "ouvrages" ... interesting</i>
CL D 19/00	(transferred to G01M 99/00)	transféré en G01M 99/00
CL D 19/02	(transferred to H01T 13/58)	transféré en H01T 13/58
CL N 99/00	<i>Subject matter not provided for in other groups of this subclass</i>	Matière non couverte par les autres groupes de la présente sous-classe

G01R		
CL D 31/38	(transferred to H01T 13/60)	transféré en H01T 13/60
H01T		
AL M 4/10 ·	having a single gap or a plurality of gaps in parallel (sparkling plugs H01T 13/00)	<i>inchangé</i>
CL only C 13/00	Sparkling plugs (combined or associated with fuel injectors F02M 57/00 ; structurally combined with other parts of internal-combustion engines F02P 13/00)	Bougies d'allumage (combinées ou associées avec des injecteurs de combustible F02M 57/06 ; combinées structuralement avec d'autres parties de moteurs à combustion interne F02P 13/00)
AL C 13/00	Sparkling plugs	Bougies d'allumage
AL N 13/58 ·	<i>Testing (testing characteristics of the spark in internal-combustion engine ignition F02P 17/12)</i>	Essai (essai des caractéristiques de l'étincelle d'allumage dans les moteurs à compression interne F02P 17/12)
AL N 13/60 · ·	<i>of electrical properties</i>	des propriétés électriques
AL M 21/04 · ·	Cleaning (means for self-cleaning H01T 13/14 ; abrasive blasting devices for cleaning sparking plugs B24C 3/34)	Nettoyage (moyens de nettoyage automatique H01T 13/54 ; dispositifs de traitement au jet abrasif pour nettoyer les bougies d'allumage B24C 3/34)
AL M 21/06 ·	Adjustment of spark gaps (sparkling plugs having movable electrodes for adjusting the gap H01T 13/26)	<i>inchangé</i>

Principal Directorate Patent Grant Automation - Directorate Classification		
Project: C453	Subject: Testing of Sparking Plugs	IPC range: H01T
Rapporteur Proposal		26 March 2009

Ref: Annex 20 of the project file

At the last WG meeting, Rapporteur for this project was invited to check whether the approved amendments had an impact on the definitions of subclasses G01M and G01R (projects D 027 and D 179, respectively) and to propose any corrections needed.

R remarks that project **D179 (G01R)** is still ongoing, so there is time and room to consider any impact there.

Project **D027 (G01M)** was completed.

The following should be amended in view of the impact of the approved C453 amendments:

- group 19/00 to be changed into 99/00
- Informative reference:

Testing of electrical properties of sparking plugs

G01R 31/38

to be changed into:

Testing of sparking plugs

H01T 13/58

Roberto Iasevoli



IPC/C 454
ORIGINAL: English/French
DATE: 03.06.2009

WORLD INTELLECTUAL PROPERTY ORGANIZATION
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GENEVA/GENÈVE

COMMITTEE OF EXPERTS OF THE IPC UNION
COMITÉ D'EXPERTS DE L'UNION DE L'IPC

CL REVISION PROJECT FILE
DOSSIER DE PROJET RÉVISION NIVEAU DE BASE

PROPOSAL BY : PROPOSITION DE :	WG	IPC AREA: DOMAINE DE LA CIB :	H04N 21/00
RAPPORTEUR :	EP	TECHNICAL FIELD : DOMAINE TECHNIQUE :	E

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Working Group decision	Décision du groupe de travail	IB	26.06.2008
2	Table of references	Tableaux des renvois	IB	01.08.2008
3	Rapporteur report	Rapport du rapporteur	EP	22.09.2008
4	Rapporteur proposal	Proposition du rapporteur	EP	22.09.2008
5	Comments	Observations	SE	16.10.2008
6	Comments	Observations	GB	21.11.2008
7	Working Group decision	Décision du groupe de travail	IB	07.01.2009
8	Rapporteur proposal	Proposition du rapporteur	EP	20.03.2009
9	Comments	Observations	JP	29.05.2009
10	Rapporteur report	Rapport du rapporteur	EP	29.05.2009

EXCERPT FROM DOCUMENT IPC/WG/20/2
EXTRAIT DU DOCUMENT IPC/WG/20/2

Project C 454 (electrical) – Discussions were based on the initial rapporteur proposal (see Annex 4 to the project file). The new main group H04N 21/00 was approved, as well as amendments of the relevant scope-modified core level groups H04N 5/00, 7/00, 7/16, 7/24 and 7/52 (see Technical Annex 22 to this report). It was noted that the subgroups of H04N 21/00 that were used as references in some of the above approved amendments had not yet been approved since they would be considered by the ALS in the framework of project A 014.

Rapporteur was invited to consider as to whether the notes in group H01N 21/00 could be condensed in order to appear in the scheme, in particular whether Note (2) could be transformed into a limiting reference, or whether they could simply appear only in the definitions of that group.

Finally, Rapporteur was also invited to consider Annex 2 to the project file which contains a list of existing references in subclass H04N, submitted by the International Bureau, and to submit an amended version as needed.

Projet C 454 (électricité) – les délibérations ont eu lieu sur la base de la proposition initiale du rapporteur (voir l'annexe 4 du dossier de projet). Le nouveau groupe principal H04N 21/00 a été approuvé, de même que les modifications relatives à la portée modifiée applicable des groupes du niveau de base H04N 5/00, 7/00, 7/16, 7/24 et 7/52 (voir l'annexe technique 22 du présent rapport). Il a été noté que les sous-groupes de H04N 21/00 qui ont été utilisés comme renvois pour certaines des modifications approuvées précitées n'ont pas encore été approuvés puisqu'ils seront examinés par l'ALS dans le cadre du projet A 014.

Le rapporteur a été invité à examiner si les notes figurant dans le groupe H01N 21/00 pouvaient être condensées pour apparaître dans le schéma, en particulier si la note (2) pouvait être transformée en renvoi limitatif, ou si elles pourraient simplement apparaître uniquement dans les définitions de ce groupe.

Enfin, le rapporteur a aussi été invité à examiner l'annexe 2 du dossier de projet qui contient une liste des renvois existants dans la sous-classe H04N, soumise par le Bureau international, et à présenter une version modifiée, le cas échéant.

ANNEX 22E H04N [Project-Rapporteur : C454/EP <WG20>
]

CL C 5/00 *Details of television systems (scanning details or combination thereof with generation of supply voltages [H04N 3/00](#); specially adapted for colour television [H04N 9/00](#); servers specially adapted for the distribution of content [H04N 21/20](#); client devices specially adapted for the reception of or interaction with content [H04N 21/40](#))*

CL C 7/00 *Television systems (details [H04N 3/00](#), [H04N 5/00](#); specially adapted for colour television [H04N 11/00](#); stereoscopic television systems [H04N 13/00](#); selective content distribution [H04N 21/00](#))*

CL C 7/16 · *Analogue secrecy systems; Analogue subscription systems*

CL C 7/24 · Systems for the transmission of television signals using pulse code modulation

CL C 7/52 · · Systems for transmission of a pulse code modulated video signal with one or more other pulse code modulated signals, e.g. an audio signal or a synchronising signal (assembling of a transport stream by combining a video stream with other content, remultiplexing of transport streams or insertion of stuffing data into the transport stream [H04N 21/236](#); disassembling of a transport stream, remultiplexing of transport streams or processing of service information [H04N 21/434](#))

CL N, C 21/00 Selective content distribution, e.g. interactive television or VOD [Video On Demand]

Principal Directorate Patent Grant Automation - Directorate Classification		
Project: C454/A014	Subject: Pictorial Communication	IPC range: H04N
Removal of informative references from the scheme		20 March 2009

After the latest WG meeting in Geneva, Rapporteur was invited to consider Annex 2 to the project file which contains a list of existing references in subclass H04N, submitted by the IB, and to submit an amended version as needed.

R remarks that the current project only deals with H04N 21/00, and therefore in order to prevent confusion it would be maybe better to create a specific M project for H04N references.
Having said that, here below follows the amended version with comments.

With regard to paragraphs 1 and 2 of the annex 7, R refers to the parallel project A014.

Table of references in H04N
References according to Version 2008.04

Subclass: H04N Project: C 454

Place	Reference to	Category	Proposed action	Comments
H04N	G01	informative	Remove and put in definition	
H04N	G08	limiting		informative, Remove and put in definition
H04N	G11B	informative	Remove and put in definition	
H04N	H03M	informative	Remove and put in definition	
H04N	H04H	informative	Remove and put in definition	
H04N 1/03	H04N 1/19	limiting		
H04N 1/032	B41C 1/02	informative	Remove and put in definition	
H04N 1/04	H04N 1/387	Precedence		
H04N 1/047	H04N 1/17	Precedence		
H04N 1/12	H04N 1/19	limiting		
H04N 1/21	H04N 1/387	Precedence		
H04N 1/21	H04N 1/41	Precedence		
H04N 1/21	G11	informative	Remove and put in definition	
H04N 1/23	H04N 1/024	limiting		
H04N 1/23	H04N 1/04	limiting		
H04N 1/38	H04N 1/387	Precedence		
H04N 1/387	B41B 19/00	informative	Remove and put in definition	
H04N 1/40	H04N 1/387	Precedence		obsolete, remove
H04N 1/401	H04N 1/403	Precedence		
H04N 1/403	H03K 5/08	informative	Remove and put in definition	
H04N 1/41	H04N 1/17	limiting		
H04N 1/48	H04N 1/52	limiting		
H04N 1/50	H04N 1/52	limiting		
H04N 1/56	H04N 1/52	Precedence		
H04N 1/58	H04N 1/62	Precedence		
H04N 3/02	H04N 3/36	Precedence		
H04N 3/02	G02B 26/10	informative	Remove and put in definition	

H04N 3/10.	H04N 3/36	Precedence		
H04N 3/10.	G02F	informative	Remove and put in definition	limiting
H04N 3/16	H03K 4/00	informative	Remove and put in definition	
H04N 3/185	G05F	informative	Remove and put in definition	
H04N 3/223	H04N 3/185	limiting		
H04N 3/26	H01J	informative	Remove and put in definition	
H04N 3/27	H04N 5/46	informative	Remove and put in definition	
H04N 5/00	H04N 3/00	limiting		
H04N 5/00	H04N 9/00	limiting		
H04N 5/04	H04N 7/24	limiting		
H04N 5/04	H03L 7/00	informative	Remove and put in definition	
H04N 5/14	H04N 5/222	Precedence		
H04N 5/21	H04N 5/911	limiting		
H04N 5/213	H04N 5/217	Precedence		
H04N 5/232	H04N 5/235	Precedence		
H04N 5/232	G03B 7/00	limiting		informative, Remove and put in definition
H04N 5/232	G03B 13/00	limiting		informative, Remove and put in definition
H04N 5/232	G03B 17/00	limiting		informative, Remove and put in definition
H04N 5/253	H04N 3/36	limiting		
H04N 5/257	H04N 5/253	Precedence		
H04N 5/268	H04H 20/00	limiting		
H04N 5/30	H04N 5/222	Precedence		
H04N 5/30	H04N 3/00	limiting		
H04N 5/30	G01S 7/52	informative	Remove and put in definition	
H04N 5/30	G01S 15/89	informative	Remove and put in definition	
H04N 5/30	H01J	informative	Remove and put in definition	
H04N 5/30	H01L	informative	Remove and put in definition	
H04N 5/335	H04N 5/32	Precedence		
H04N 5/335	H04N 5/33	Precedence		
H04N 5/38	H04N 5/14	Precedence		
H04N 5/44	H04N 5/14	Precedence		
H04N 5/445	H04N 5/50	Precedence		
H04N 5/455	H03D	informative	Remove and put in definition	
H04N 5/46	H04N 3/27	limiting		
H04N 5/50	H03J	informative	Remove and put in definition	
H04N 5/54	H04N 5/53	Precedence		
H04N 5/56	H04N 5/53	Precedence		
H04N 5/63	H04N 3/18	limiting		
H04N 5/63	G05F	informative	Remove and put in definition	
H04N 5/63	H01F	informative	Remove and put in definition	
H04N 5/63	H02J	informative	Remove and put in definition	
H04N 5/63	H02M	informative	Remove and put in definition	
H04N 5/64	A47B	limiting		
H04N 5/64	A47B 81/06	limiting		
H04N 5/66	H04N 3/00	limiting		
H04N 5/72	G02B 5/00	informative	Remove and put in definition	
H04N 5/74	G02B	informative	Remove and put in definition	
H04N 5/76	H04N 17/06	informative	Remove and put in definition	
H04N 5/76	G01D	informative	Remove and put in definition	
H04N 5/76	G11	informative	Remove and put in definition	

H04N 5/76	G11B	informative	Remove and put in definition	
H04N 5/765	G11B 31/00	limiting		
H04N 5/78	H04N 5/91	Precedence		
H04N 5/80	H04N 5/91	Precedence		
H04N 5/84	H04N 5/80	Precedence		
H04N 5/84	H04N 5/89	Precedence		
H04N 5/84	H04N 5/91	Precedence		
H04N 5/87	H04N 3/36	informative	Remove and put in definition	
H04N 5/87	H04N 5/253	informative	Remove and put in definition	
H04N 5/87	H04N 9/11	informative	Remove and put in definition	
H04N 5/89	H04N 5/91	Precedence		
H04N 5/903	H04N 5/91	Precedence		
H04N 5/907	H04N 5/91	Precedence		
H04N 5/907	H04N 5/78– H04N 5/903	limiting		
H04N 5/91	H04N 9/79	limiting		
H04N 5/913	H04N 7/167	informative	Remove and put in definition	
H04N 5/917	H04N 7/12	informative	Remove and put in definition	
H04N 5/917	H04N 7/24	limiting		
H04N 5/926	H04N 5/919	Precedence		
H04N 5/945	G11B 20/18	informative	Remove and put in definition	
H04N 7/00	H04N 3/00	limiting		
H04N 7/00	H04N 5/00	limiting		
H04N 7/00	H04N 11/00	limiting		
H04N 7/00	H04N 13/00	limiting		
H04N 7/10	H04N 7/12	Precedence		
H04N 7/12	H04N 7/24	Precedence		
H04N 7/12	H04N 7/015	limiting		
H04N 7/14	H04N 7/173	Precedence		
H04N 7/15	H04M 3/56	limiting		
H04N 7/26	H03M 7/30	informative	Remove and put in definition	limiting
H04N 7/30	H04N 7/50	Precedence		
H04N 7/30	G06F 17/14	informative	Remove and put in definition	limiting
H04N 7/32	H04N 7/48	Precedence		
H04N 7/32	H04N 7/50	Precedence		
H04N 7/38	H04B 14/06	informative	Remove and put in definition	
H04N 7/42	H04B 14/06	informative	Remove and put in definition	
H04N 7/64	H03M 13/00	informative	Remove and put in definition	limiting
H04N 9/097	G02B 27/10	informative	Remove and put in definition	
H04N 9/10	H04N 9/11	Precedence		
H04N 9/10	G02B 26/10	informative	Remove and put in definition	
H04N 9/12	H04N 9/11	Precedence		obsolete, remove
H04N 9/12	G02F	informative	Remove and put in definition	
H04N 9/14	G02B 26/10	informative	Remove and put in definition	
H04N 9/16	H04N 9/11	Precedence		
H04N 9/16	H01J 31/00	informative	Remove and put in definition	
H04N 9/18	H04N 9/27	Precedence		
H04N 9/22	H04N 9/27	Precedence		
H04N 9/285	G21K 1/08	informative	Remove and put in definition	
H04N 9/285	H01J 3/14	informative	Remove and put in definition	
H04N 9/285	H01J 29/58	informative	Remove and put in definition	
H04N 9/285	H01J 37/10	informative	Remove and put in definition	
H04N 9/455	H04N 9/45	Precedence		
H04N 9/64	H04N 9/77	Precedence		
H04N 9/68	H04N 9/71	Precedence		
H04N 9/68	H04N 9/73	Precedence		

H04N 9/74	H04N 9/65– H04N 9/73	Precedence		
H04N 9/76	H04N 9/75	Precedence		
H04N 9/77	H04N 9/67	limiting		
H04N 9/797	H04N 9/804	Precedence		
H04N 9/797	H04N 9/81	Precedence		
H04N 9/797	H04N 9/82	Precedence		
H04N 9/802	H04N 9/806	Precedence		
H04N 9/802	H04N 9/835	Precedence		
H04N 9/87	H04N 9/80	Precedence		
H04N 9/888	G11B 20/18	informative	Remove and put in definition	
H04N 11/00	H04N 9/00	limiting		
H04N 11/00	H04N 15/00	limiting		
H04N 11/02	H04N 11/04	Precedence		
H04N 11/08	H04N 11/12	limiting		
H04N 13/00	H04N 15/00	limiting		

JAPAN PATENT OFFICEMay 29, 2009

Project: C454

Subclass: H04N

JP Comment

JP is grateful to EP Rapporteur' preparation and posting of amended version of the list of references (Annex 8) covering the whole range of subclass H04N.

JP is currently reviewing all the references appearing in the scheme of H04N, but has not been able to collect and coordinate opinions of various experts. JP plans to post some comments by the end of June, which please be awaited by other offices.

With regard to the suggestion of Rapporteur to create an M-project for the references in H04N, JP would support such action. When the M-project is established, JP will post comments in that project.

[END]

Principal Directorate Patent Grant Automation - Directorate Classification		
Project: C454/A014	Subject: Pictorial Communication	IPC range: H04N
Rapporteur Report		29 May 2009

After the Rapporteur proposal of Annex 8 (20.03.2009) one comment has been received from JP relating to the issue of comments on the list of existing references in subclass H04N. Since further comments are to be expected from JP, R would like to wait and not post a R proposal before reading JP comments.

With regard to the other issues of the current project, R refers to the parallel project A014, more in particular Annex 15, the decision of the subcommittee regarding the scheme.