



IPC/C 373/96 Rev.5
ORIGINAL: English/French
DATE: April 28, 2000

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

IPC REVISION PROJECT FILE/DOSSIER DE PROJET DE RÉVISION DE LA CIB

PROPOSAL BY: PROPOSITION DE :	EP	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	G 01 N
KIND OF REVISION: TYPE DE RÉVISION :	Creation of subgroups Création de sous-groupes		

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 373/96	ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal / Demande de révision avec proposition détaillée		EP	11.01.96
2	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	GB	02.10.96
3	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	CA	18.10.96
4	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	FR	-11.96
5	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.2	DE	18.02.97
6	Rapporteur report / Rapport du rapporteur	Rev.2	EP	27.03.97
7	Modified proposal / Proposition modifiée	Rev.3	EP	22.05.97
8	Decision of the Working Group / Décision du groupe de travail	Rev.4	WG	07.99
9	Comments / Observations	Rev.4	DE	07.99
10	Comments / Observations	Rev.4	CA	10.99
11	Comments / Observations	Rev.4	EP	10.99
12	Comments / Observations	Rev.4	RO	10.99
13	Comments / Observations	Rev.4	GB	11.99
14	Comments / Observations	Rev.4	SE	11.99

RAPPORTEUR : EP **TECHNICAL FIELD/DOMAINE TECHNIQUE :** E

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 373/96	ORIGIN/ ORIGINE	DATE
15	French version of approved amendments / Version française des modifications approuvées	Rev.4	EP	11.99
16	Rapporteur report / Rapport du rapporteur	Rev.4	EP	11.99
17	Rapporteur proposal / Proposition du rapporteur	Rev.4	EP	11.99
18	Decision of the Working Group / Décision du groupe de travail	Rev.5	WG	12.99
19	Comments / Observations	Rev.5	EP	03.00
20	Comments / Observations	Rev.5	JP	03.00
21	Comments / Observations	Rev.5	CA	03.00
22	Comments / Observations	Rev.5	SE	03.00
23	Comments / Observations	Rev.5	RO	03.00
24	Comments / Observations	Rev.5	DE	04.00
25	Rapporteur report / Rapport du rapporteur	Rev.5	EP	04.00
26	Rapporteur proposal / Proposition du rapporteur	Rev.5	EP	04.00
27	French version of approved amendments / Version française des modifications approuvées	Rev.5	EP	04.00

EXCERPT FROM DOCUMENT IPC/WG/2/3/
EXTRAIT DU DOCUMENT IPC/WG/2/3

Project C 373 (electrical) – Comments were invited on:

- the relationship between group 29/06 and the other groups of main group G 01 N 29/00;
- whether, in view of this relationship, group 29/06 could be used for multiple classification and where it should be better placed, for example, as a one-dot group at the end of the scheme of main group 29/00;
- the relationship between the proposed groups G 01 N 29/36 and 29/44 (see Annex 17 to the project file), especially in respect of subject matter relating to “improving the signal-to-noise ratio”, whether a clear borderline between them could be elaborated or whether they should be combined in one group.

Projet C 373 (électricité) – Des observations ont été demandées

- sur les liens entre le groupe 29/06 et les autres groupes du groupe principal G 01 N 29/00;
- sur le point de savoir si, compte tenu de ces liens, le groupe 29/06 pourrait être utilisé à des fins de classement multiple et sur le meilleur endroit où le placer, par exemple en tant que groupe à un point en fin de schéma du groupe principal 29/00;
- sur les liens entre les groupes G 01 N 29/36 et 29/44 qu’il est proposé de créer (voir l’annexe 17 du dossier de projet), en particulier pour ce qui concerne la matière ayant trait à une “amélioration du rapport signal sur bruit”, et sur le point de savoir si une ligne de démarcation nette peut être établie entre eux ou s’il faut les fusionner en un même groupe.

ANNEX	34	G 01 N	[Project-Rapporteur : 373/EP]	<SC02034E>
C	29/02		• <i>Analysing fluids (using acoustic emission techniques 29/14)</i>	
N	29/024		• • <i>by measuring propagation velocity or propagation time of acoustic waves</i>	
N	29/028		• • <i>by measuring mechanical or acoustic impedance</i>	
N	29/032		• • <i>by measuring attenuation of acoustic waves</i>	

- N 29/036
 - • *by measuring frequency or resonance of acoustic waves*
- C 29/04
 - *Analysing solids (using acoustic emission techniques 29/14)*
- N 29/07
 - • *by measuring propagation velocity or propagation time of acoustic waves*
- D 29/08
 - (transferred to 29/07, 29/09, 29/11, 29/12)*
- N 29/09
 - • *by measuring mechanical or acoustic impedance*
- D 29/10
 - (transferred to 29/07, 29/09, 29/11, 29/12)*
- N 29/11
 - • *by measuring attenuation of acoustic waves*
- C 29/12
 - • *by measuring frequency or resonance of acoustic waves*
- C 29/14
 - --- *emission techniques*
- D 29/16
 - (transferred to 29/028, 29/09)*
- D 29/18
 - (transferred to 29/024, 29/07)*
- D 29/20
 - (transferred to 29/032, 29/11)*
- N 29/34
 - *Signal generating*

R

Project: **C373**
Subclass: **G01N**

In the document IPC/WG/2/3 comments were invited on the relationship between the group 29/06 with the other groups of main group 29/00 and where it should better be placed in the proposed scheme, and on the relationship between the proposed groups 29/36 and 29/44, especially in respect of subject matter of "Improving the signal-to-noise ratio".

As to the group 29/06, we would like to stress that, according to our expert working in the field, the subject matter of "Visualisation of the interior" is truly specific to solids, e.g. investigating cavities in solid bodies. Therefore the group 29/06 should remain as a two-dot sub-group of 29/04 "Analysing solids".

As to "Improving the signal-to-noise ratio", we found that indeed this is a very general subject matter common to groups 29/36 "Signal detecting" and 29/44 "Signal processing", and even to some extent to 29/34 "Signal generating".

Therefore it seems appropriate to us to keep this subject matter out of the title of the proposed group 29/36, namely to modify the title of the group 29/36 as it follows:

C 29/36 § Signal detecting

Creating a new specific entry for the subject matter of "Improving the signal-to-noise ratio" would maybe be redundant. Otherwise a new one-dot entry could be introduced, namely

N 29/54 § Improving the signal-to-noise ratio

to be intentionally used in "multiple-classification" way together with the other one-dot entries 29/34, 29/36 and 29/44, or sub-groups thereof.

Roberto Iasevoli

Japanese Patent Office

10 march 2000

Project: **C-373**

Subclass: G01N

-
1. We think the 29/06 is in the proper position. It should be here in a hierarchically lower position of 29/04, since “analyzing materials by visualization of the interior” is performed only for “solid”.

We do not find any problem in using 29/06 as multiple classification.

2. It is difficult to distinguish clearly “signal detecting” from “signal processing”. And improving signal-to-noise ratio is a common problem for both signal detecting and signal processing and should be solved interactively. We think, therefore, that both should be covered in a same group collectively.

It is not clear what technologies to be covered in the proposed group 29/33 (Signal generating). And we have no idea whether it is necessary or not.

CA COMMENTS	
IPC Project: C373/96	Date: March 7, 2000
Class \ Subclass: G01N	Page 1 of 1

In main group 29/00, most of the groups are means to make the measurements whereas 29/06 is a result of the acoustic measuring. One would think that it doesn't belong here, but there is no more appropriate spot to put it, other than in analysing solids. CA therefore recommends that it remain as a two-dot subgroup under the modified 29/04 of Annex 17.

With respect to 29/36 and 29/44, >improving signal-to-noise ratio= can be accomplished by means other than signal processing, for example, improvements in the detector per se. A clear borderline can be established between these two groups by adding the following reference note to 29/36:

C 29/36 . . ---ratio (using signal processing techniques 29/44)

This should alleviate any confusion.

John Dowding

Swedish Patent and Registration Office

IPC Revision Project C 373, subclass G01S

March 10th, 2000

COMMENTS relating to Annex 18

Comments were invited on:

- **The relationship between group 29/06 and the other groups of main group G01N29/00**
- **whether, in view of this relationship, group 29/06 could be used for multiple classification and where it should be better placed, for example, as a one-dot group at the end of the scheme of main group 29/00;**

It is our opinion that group 29/06 should be on the one-dot level, the same as 29/02 and 29/04. If the “invention information” is going beyond this group, multiple classification could be used. It may be necessary to divide 29/06 into relevant subgroups, as it seems to hold many documents, some of them regarding detection in fluids.

- **the relationship between the proposed groups G 01 N 29/36 and 29/44 (see Annex 17 to the project file), especially in respect of subject matter relating to “improving the signal-to-noise ratio”, whether a clear borderline between them could be elaborated or whether they should be combined in one group.**

It is not clear whether “Signal detecting” and “Improving. .:” are two different qualifiers as denoted by the semi-colon or if it is meant to be one. Improving signal-to-noise ratio is usually implicit and can be removed from the title. "Improving the signal-to-noise ratio" might be added to the beginning of the titles of the subgroups of 29/36.

It should be made clear that 29/44 aims at post-detection analysis, perhaps by saying "Processing of the detected signal"

Sture Elnäs

OFICIUL DE STAT PENTRU RO COMMENTS
INVENŢIILE ÎN MATERIA

Date: March 2000

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PROJECT C 373

CLASS/SUBCLASS G01N

We consider that the group 29/06 is important because the visualisation of the interior with the example acoustic microscopy is typical for investigating and analysing materials. The group 29/06 could be used for multiple classification.

The proposed groups G01N 29/36 and G01N 29/44 should be combined in one group.

L. Cojocaru

DEUTSCHES PATENTAMT German Patent Office	Class/Subcl.: G01N
	Date : 27. March 2000
DE - Comments — C 373	

Group 29/06

Following our experts, "visualisation of the interior" is an important subject matter which requires an IPC-entry for itself.

"Visualisation of the interior" is mostly specific to "analysing solids" and so the actual two-dot-entry 29/06 under "analysing solids" is absolutely correct.

DE proposes to add "eg acoustic microscopy" as an example. To make things clear, group 29/06 should have precedence over the other subgroups of 29/04.

Group 29/14

We apologize for coming back to a group already adopted in the last session. Our examiner in this field is not very happy with the creation of 29/14 as a one-dot-group outside of the scheme of groups 29/02 and 29/04 for fluids and solids, respectively. In our opinion a consequent and clear split of fluid- and solid-groups should be valid for all measurement techniques, including "emission techniques". This would simplify the task for the classifier.

We find no reason to handle "acoustic emission techniques" in an other way as all the other measurement methods now split in fluid- and solid-groups.

DE prefers creation of 29/14 as a two-dot-subgroup "acoustic emission techniques" under 29/04. The creation of a parallel entry under 29/02 for fluids would be desirable from symmetry of the scheme but may have not a too large number of documents.

"improving signal-to-noise ratio"

Indeed, not only signal detecting, but also signal processing and even signal generating is involved by "improving signal-to-noise ratio". Since "improving signal-to-noise ratio" is a rather obvious task for all kinds of measurements, it is abundant to have an own IPC-entry for this.

DE proposes to adopt 29/36 with the wording "signal processing" and to adopt groups 29/38 to 29/52 from annex 17.

Rainer Anders

Project: **C373**
 Subclass: **G01N**

In the document IPC/WG/2/3 comments were invited on the relationship between the group 29/06 with the other groups of main group 29/00 and where it should better be placed in the proposed scheme, and on the relationship between the proposed groups 29/36 and 29/44, especially in respect of subject matter of "Improving the signal-to-noise ratio".

Comments were received from EP, JP, CA, SE, RO, DE.

As to group 29/06 "Visualisation of the interior"

EP, DE, JP, CA and RO found that the actual position of the two-dot-entry 29/06 -- in hierarchically lower position than 29/04 "Analysing solids" -- is absolutely correct, because the subject matter of "Visualisation of the interior" is mostly specific to solids.

DE and RO proposed to add "e.g. acoustic microscopy" as an example in the title of 29/06.

None objected the use of this group in "multiple-classification" way.

R suggests to keep the entry 29/06 as a two-dot one under 29/04 and to include the example in the title, namely

C 29/06 . . Visualisation of the interior, e.g. acoustic microscopy

As to "Improving the signal-to-noise ratio" in the title of 29/36

EP, DE, JP, SE, all found that indeed this is a very common problem for both 29/36 "Signal detecting" and 29/44 "Signal processing" and therefore this subject-matter should be removed from the title of the proposed group 29/36.

R suggests to modify the title of the group 29/36 as it follows:

C 29/36 . Detecting the signal

As to the group 29/44 "Signal processing"

SE proposed to make clear that 29/44 aims at post-detection analysis of the signal, for example by saying "Processing the detected signal".

R agrees with SE and suggests to modify the title of the group 29/44 as it follows:

C 29/44 . Processing the detected signal

As to the group 29/34 "Signal generating"

JP objected that it is not clear what technologies would be covered in the (already approved) group 29/34 for "Signal generating" and whether this group is really necessary.

R found that Japanese F-Terms exist under 2G047/CA00 for "Methods for generating and detecting ultrasonic waves". It is likely that most of the JP documents to be collected in the new group 29/34 have at least one of these F-Terms.

JP's remarks stimulated though **R** to look for a clearer definition for the title of the (already approved) group 29/34 and **R** suggests now the following amendment:

C 29/34 . Generating the ultrasonic, sonic or infrasonic waves

As to the group 29/14 "Using acoustic emission techniques"

DE objected the creation of the (already approved) group 29/14 out of the schemes for groups 29/02 and 29/04 for fluids and solids, respectively.

DE find that a clear split of "fluids"- and "solids"-groups should be maintained.

DE would like to keep the group 29/14 under 29/04 and create a parallel entry for fluids, say 29/038, under 29/02.

R cannot see enough support or evidence for this counter-proposal, but the one of the symmetry of the scheme.

Rapporteur's Recommendations

R recommends the WG to proceed with the discussion and approval of the proposed new groups 29/34 to 29/52 as they appear in the newly submitted "Modified Proposal", and after to have an open discussion on the DE counter-proposal as to the group 29/14 "Using acoustic emission techniques".

Roberto Iasevoli

Project: **C373**
 Subclass: **G01N**

Taking into account the comments received and the Rapporteur Report, we herewith submit a modified proposal as a basis for discussion at IPC/WG/3.

We would like to make clear that groups 29/02, 29/04 and 29/14 were already approved in the last meeting of the WG and we reproduce here their title for the sake of making the discussion easier.

Likewise, groups 29/06 and 29/34 were approved already in the last meeting of the WG but, in view of the comments received, we submit an amendment in their title.

All other groups (29/36 to 29/52) have not been discussed so far.

- 29/02 . Analysing fluids (using acoustic emission techniques 29/14)
- 29/04 . Analysing solids (using acoustic emission techniques 29/14)
- C 29/06 . . Visualisation of the interior, e.g. acoustic microscopy
- 29/14 . Using acoustic emission techniques

- C 29/34 . Generating the ultrasonic, sonic or infrasonic waves
- N 29/36 . Detecting the signal
- N 29/38 . . by time filtering, e.g. using time gates
- N 29/40 . . by amplitude filtering, e.g. applying a threshold
- N 29/42 . . by frequency filtering
- N 29/44 . Processing the detected signal
- N 29/46 . . Spectral analysis, e.g. Fourier analysis
- N 29/48 . . Amplitude comparison
- N 29/50 . . Auto-correlation techniques or cross-correlation techniques
- N 29/52 . . Inversion methods other than spectral analysis, e.g. conjugated gradient inversion

Roberto Iasevoli

Projet: **C373**
 Sous-classe: **G 01 N**
 Ref: **Annexe 15 du dossier du projet**
 Ref: **Annexe 34 du document IPC/WG/2/3**

En tenant compte des toutes récentes remarques de FR, nous repropsons une version modifiée de l'annexe 15 du dossier du projet (qui reste à adopter) intégrée avec la traduction de l'annexe 34 (déjà présentée dans le fichier 373ep07d.wpd).

- C 29/02 . Analyse de fluides (utilisant des techniques d'émission acoustique 29/14)
- N 29/024 . . en mesurant la vitesse de propagation ou le temps de propagation des ondes acoustiques
- N 29/028 . . en mesurant l'impédance mécanique ou acoustique
- N 29/032 . . en mesurant l'atténuation des ondes acoustiques
- N 29/036 . . en mesurant la fréquence ou la résonance des ondes acoustiques
- C 29/04 . Analyse de solides (utilisant des techniques d'émission acoustique 29/14)
- N 29/07 . . en mesurant la vitesse de propagation ou le temps de propagation des ondes acoustiques
- D 29/08 (transféré en 29/07, 29/09, 29/11, 29/12)
- N 29/09 . . en mesurant l'impédance mécanique ou acoustique
- D 29/10 (transféré en 29/07, 29/09, 29/11, 29/12)
- N 29/11 . . en mesurant l'atténuation des ondes acoustiques
- C 29/12 . . en mesurant la fréquence ou la résonance des ondes acoustiques
- C 29/14 . --- d'émission acoustique
- D 29/16 (transféré en 29/028, 29/09)
- D 29/18 (transféré en 29/024, 29/07)
- D 29/20 (transféré en 29/032, 29/11)
- N 29/265 . . . en déplaçant le capteur par rapport à un matériau fixe
- N 29/27 . . . en déplaçant le matériau par rapport à un capteur fixe
- N 29/275 . . . en déplaçant à la fois le capteur et le matériau
- N 29/30 . . Dispositions pour l'étalonnage ou la comparaison, p.ex. avec des objets standard
- N 29/32 . . Dispositions pour supprimer des influences indésirables, p.ex. des variations de température ou de pression



IPC/C 375/96 Rev.5
ORIGINAL: English/French
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GENEVA/GENÈVE

COMMITTEE OF EXPERTS OF THE IPC UNION
COMITÉ D' EXPERTS DEL' UNION DEL' IPC

IPC REVISION PROJECT FILE/DOSSIER DE PROJET DE RÉVISION DE LA CIB

PROPOSAL BY: PROPOSITION DE :	EP	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	G 01 R
KIND OF REVISION: TYPE DE RÉVISION :	Creation of subgroups Création de sous-groupes		

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 375/96	ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal / Demande de révision avec proposition détaillée		EP	09.01.96
2	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	GB	16.07.96
3	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	CA	18.10.96
4	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	FR	-11.96
5	Rapporteur report / Rapport du rapporteur	Rev.2	EP	27.03.97
6	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.3	JP	30.05.97
7	Decision of the Working Group / Décision du groupe de travail	Rev.4	WG	07.99
8	Comments / Observations	Rev.4	EP	10.99
9	Comments / Observations	Rev.4	RO	10.99
10	Comments / Observations	Rev.4	DE	11.99
11	French version of approved amendments / Version française des modifications approuvées	Rev.4	EP	11.99
12	Rapporteur report / Rapport du rapporteur	Rev.4	EP	11.99
13	Decision of the Working Group / Décision du groupe de travail	Rev.5	WG	12.99

RAPPORTEUR : EP **TECHNICAL FIELD/DOMAINE TECHNIQUE :** E

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 375/96	ORIGIN/ ORIGINE	DATE
14	French version of approved amendments / Version française des modifications approuvées	Rev.5	EP	04.00

EXCERPT FROM DOCUMENT IPC/WG/2/3/
EXTRAIT DU DOCUMENT IPC/WG/2/3

ANNEX	35E	G 01 R	[Project-Rapporteur : 375/EP]	<SC02035E>
	Note(s) after the title			
N		(4)	<i>In this subclass, instruments or arrangements for measuring electric variables are classified in the following way:</i>	
N			– <i>Electromechanical instruments where the measured electric variables directly effect the indication of the measured value, including combined effects of two or more values, are classified in groups 5/00 to 11/00.</i>	
N			– <i>Details common to different types of the instruments covered by groups 5/00 to 11/00 are classified in group 1/00.</i>	
N			– <i>Arrangements involving circuitry to obtain an indication of a measured value by deriving, calculating or otherwise processing electric variables, e.g. by comparison with another value, are classified in groups 17/00 to 29/00.</i>	
N			– <i>Details common to different types of arrangements covered by groups 17/00 to 29/00 are classified in group 15/00.</i>	
	1/04	(5)	<Former note (4)>	
			• • – – – of terminals	
N	Note(s) after 1/04			
			<u><i>Informative note</i></u>	
			<i>References listed below indicate IPC places which could also be of interest when carrying out a search in respect of the subject matter covered by the preceding group:</i>	
			<i>Terminals in general H 01 R</i>	
			<i>Terminal strips or boards H 02 B</i>	
			<i>Casing, cabinets or drawers for electrical apparatus H 05 K</i>	
	1/10		• • – – – of bearings	

N Note(s) after
1/10

Informative note

References listed below indicate IPC places which could also be of interest when carrying out a search in respect of the subject matter covered by the preceding group:

Bearings in general [F 16 C](#)

1/16

- • Magnets

N Note(s) after
1/16

Informative note

References listed below indicate IPC places which could also be of interest when carrying out a search in respect of the subject matter covered by the preceding group:

Magnets in general [H 01 F](#)

1/20

- --- such instruments

N Note(s) after
1/20

Informative note

References listed below indicate IPC places which could also be of interest when carrying out a search in respect of the subject matter covered by the preceding group:

Instrument transformers per se [H 01 F 38/20](#)

1/36

- --- measuring instruments

N Note(s) after
1/36

Informative note

References listed below indicate IPC places which could also be of interest when carrying out a search in respect of the subject matter covered by the preceding group:

Overload-protection arrangements in general [H 02 H](#)

11/00

- • • **of consumption** (monitoring electric consumption • • •

N Note(s) after
11/00

Informative note

References listed below indicate IPC places which could also be of interest when carrying out a search in respect of the subject matter covered by the preceding group:

Other arrangements for measuring time integral of electric power or current [22/00](#)

11/12

- • --- of bearings

N Note(s) after
11/12

Informative note

References listed below indicate IPC places which could also be of interest when carrying out a search in respect of the subject matter covered by the preceding group:

Bearings in general [F 16 C](#)

- 11/56
- --- tariff meters

N Note(s) after
11/56

Informative note

References listed below indicate IPC places which could also be of interest when carrying out a search in respect of the subject matter covered by the preceding group:

Tariff metering in general [G 01 D 4/00](#)

- 19/32
- Compensating for temperature change (modifications of instruments for temperature compensation [1/44](#))

ANNEXE 35F	G 01 R	[Project-Rapporteur : 375/EP] (T:EP) - SC/01/2	<SC02036F> <SC01019E>
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- C [1/00](#) --- à [13/00](#) et [31/00](#) (détails structurels ---)
- C [15/00](#) --- [17/00](#) à [29/00](#), [33/00](#) à [33/26](#) et [35/00](#) (détails ---)
- C [22/00](#) --- courant, p.ex. compteurs d'électricité (dispositions électromécaniques à cet effet [11/00](#); contrôle ---)
- N [22/06](#) • par des méthodes électroniques
- N [22/08](#) • • en utilisant des techniques analogiques
- N [22/10](#) • • en utilisant des techniques numériques



Projet: **C375**
Sous-classe: **G 01 R**
Ref: **Annexe 35E du document IPC/WG/2/3**

En tenant compte des toutes récentes remarques de FR, nous repropsons une version modifiée de la traduction de l'annexe 35E (déjà présentée dans le fichier 373ep04d.wpd).

Note(s) après le titre

- N (4) Dans la présente sous-classe, les instruments ou les dispositions pour mesurer les variables électriques sont classés de la façon suivante
- N - Les instruments électromécaniques dans lesquels les variables électriques mesurées influencent directement l'indication de la valeur mesurée, y compris les effets combinés de plusieurs valeurs, sont classés dans les groupes 5/00 à 11/00.
- N - Les détails communs aux différents types d'instruments couverts par les groupes 5/00 à 11/00 sont classés dans le groupe 11/00.
- N - Les dispositions impliquant des circuits pour obtenir une indication de la valeur mesurée par dérivation, calcul ou autre traitement des variables électriques, p.ex. par comparaison avec une autre valeur, sont classées dans les groupes 17/00 à 29/00.
- N - Les détails communs aux différents types des dispositions couvertes par les groupes 17/00 à 29/00 sont classés dans le groupe 15/00.
- (5) < ancienne note (4) >

1/04 --- des bornes

N Note(s) après 1/04

Note informative

Les renvois ci-après indiquent les endroits de la CIB qui peuvent également présenter un intérêt pour une recherche portant sur la matière couverte par le groupe qui précède:

- Bornes en général H01R
 - Barrettes ou panneaux de bornes H02B
 - Boîtiers, coffrets ou tiroirs pour appareils électriques H05K
- 1/10 --- des supports

N Note(s) après 1/10

Note informative

Les renvois ci-après indiquent les endroits de la CIB qui peuvent également présenter un intérêt pour une recherche portant sur la matière couverte par le groupe qui précède:

- Supports en général F16C

1/16 --- Aimants

N Note(s) après 1/16

Note informative

Les renvois ci-après indiquent les endroits de la CIB qui peuvent également présenter un intérêt pour une recherche portant sur la matière couverte par le groupe qui précède:

- Aimants en général H01F

1/20 --- ces appareils

N Note(s) après 1/20

Note informative

Les renvois ci-après indiquent les endroits de la CIB qui peuvent également présenter un intérêt pour une recherche portant sur la matière couverte par le groupe qui précède:

- Transformateurs de mesure en soi H01F 38/20

1/36 --- mesures électriques

N Note(s) après 1/36

Note informative

Les renvois ci-après indiquent les endroits de la CIB qui peuvent également présenter un intérêt pour une recherche portant sur la matière couverte par le groupe qui précède:

- Circuits de protection contre les surcharges en général H02H

11/00 --- de la consommation (contrôle de la consommation électrique ---

N Note(s) après 11/00

Note informative

Les renvois ci-après indiquent les endroits de la CIB qui peuvent également présenter un intérêt pour une recherche portant sur la matière couverte par le groupe qui précède:

- Autres dispositions pour la mesure de l'intégrale dans le temps d'une puissance ou d'un courant électriques 22/00

11/12 --- de supports

N Note(s) après 11/12

Note informative

Les renvois ci-après indiquent les endroits de la CIB qui peuvent également présenter un intérêt pour une recherche portant sur la matière couverte par le groupe qui précède:

- Supports en général F16C

11/56 --- Compteurs à tarifs particuliers

N Note(s) après 11/56

Note informative

Les renvois ci-après indiquent les endroits de la CIB qui peuvent également présenter un intérêt pour une recherche portant sur la matière couverte par le groupe qui précède:

- Compteurs à tarif en général G01D 4/00

19/32 § Compensation des variations de température (modifications des instruments pour la compensation des variations de température 1/44)



IPC/C 378/96 Rev.4
ORIGINAL: English/French
DATE: April 28, 2000

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

IPC REVISION PROJECT FILE/DOSSIER DE PROJET DE RÉVISION DE LA CIB

PROPOSAL BY: PROPOSITION DE :	GB	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	H 01 H
KIND OF REVISION: TYPE DE RÉVISION :	Creation of subgroups Création de sous-groupes		

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 378/96	ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal / Demande de révision avec proposition détaillée		GB	25.01.96
2	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	GB	02.10.96
3	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	CA	13.09.96
4	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	EP	29.10.96
5	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	FR	-11.96
6	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	DE	14.11.96
7	Rapporteur report / Rapport du rapporteur	Rev.2	GB	30.05.97
8	Decision of the Working Group / Décision du groupe de travail	Rev.3	WG	07.99
9	Comments / Observations	Rev.3	EP	10.99
10	Comments / Observations	Rev.3	CA	10.99
11	Comments / Observations	Rev.3	RO	10.99
12	Comments / Observations	Rev.3	FR	10.99
13	Comments / Observations	Rev.3	DE	10.99
14	Comments / Observations	Rev.3	SE	11.99

RAPPORTEUR : GB **TECHNICAL FIELD/DOMAINE TECHNIQUE :** E

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 378/96	ORIGIN/ ORIGINE	DATE
15	French version of approved amendments / Version française des modifications approuvées	Rev.3	FR	11.99
16	Rapporteur report / Rapport du rapporteur	Rev.3	GB	11.99
17	Comments / Observations	Rev.4	JP	12.99
18	Decision of the Working Group / Décision du groupe de travail	Rev.4	WG	12.99
19	French version of approved amendments / Version française des modifications approuvées	Rev.4	FR	04.00

J P COMMENTS

Date 14.11.99

PCI/C-378 ; Subclass H 01H

- 1. After consulting certain dictionaries (e.g. McGraw Hill Dictionary of Scientific and Technical Terms), we reached the conclusion that the term “composite material” in the adopted group H01H 1/021 could be well distinguished from such other technical terms as “clad”, “coating”, or “metal plating”. We think, therefore, the term is sufficiently clear.**

- 2. We support the opinion that applying multiple classification would in this case be preferable.**

EXCERPT FROM DOCUMENT IPC/WG/2/3/
EXTRAIT DU DOCUMENT IPC/WG/2/3

Project C 378 (electrical) – It was agreed that in the new classification scheme under group H 01 H 1/02, based on the nature of the material, overlap among its subgroups should not be eliminated by precedence references, but multiple classification should be used. To that end, a note specifying how multiple classification should be applied in this area was introduced.

Projet C 378 (électricité) – Il a été décidé que dans le nouveau schéma de classement du groupe H 01 H 1/02, basé sur la nature du matériau, il est préférable de ne pas éliminer les chevauchements entre sous-groupes au moyen de renvois de priorité, mais d'utiliser un classement multiple. À cette fin, une note a été introduite qui précise comment le classement multiple doit être appliqué dans ce domaine.

ANNEX	37E	H 01 H	[Project-Rapporteur : 378/GB]	<SC02037E>
N	Note(s) after 1/021			
		(1)	<i>In this group, the following expression is used with the meaning indicated:</i>	
			– <i>"composite material" is a material made of two or more different materials, e.g. coated material, layered materials or carbon fibres in a copper base or matrix.</i>	
		(2)	<i>Subject matter classifiable in more than one of groups 1/023 to 1/029 should be classified in all relevant groups.</i>	
N	1/029	• • •	<i>comprising conducting material dispersed in an elastic support or binding material</i>	R

ANNEXE	37F	H 01 H	[Project-Rapporteur : 378/GB] (T:FR) - SC/01/2	<SC02038F> <SC01021E>
N	1/021	• •	<i>Matériau composite</i>	
N	1/023	• • •	<i>avec un métal noble comme matériau de base</i>	
N	1/0233	• • • •	<i>et contenant des carbures</i>	
N	1/0237	• • • •	<i>et contenant des oxydes</i>	

- N 1/025 • • • *avec du cuivre comme matériau de base*
- N 1/027 • • • *contenant des particules ou des fibres de carbone*
- N 1/029 • • • *comprenant un matériau conducteur dispersé dans un support ou dans un matériau liant élastiques*

Projet IPC / C 378
Sous-classe **H 01 H**

VERSION FRANÇAISE

Ce document a été établi sur la base de notre proposition, après consultation des autres offices et du Bureau international.

(ref : annexe 37E du document IPC/WG/2/3)

H 01 H

N Note(s) après
1/021

- (1) *Dans le présent groupe, l'expression suivante a la signification ci-dessous indiquée:*
- *un "matériau composite" est un matériau constitué de plusieurs matériaux différents, p.ex. d'un matériau revêtu, de matériaux disposés en couches ou de fibres de carbone dans une base ou matrice en cuivre.*
- (1) *La matière pouvant être classée dans plus d' un des groupes 1/023 à 1/029 doit être classée dans tous les groupes appropriés .*



IPC/C 379/96 Rev.5
ORIGINAL: English/French
DATE: May 23, 2000

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

IPC REVISION PROJECT FILE/DOSSIER DE PROJET DE RÉVISION DE LA CIB

PROPOSAL BY: PROPOSITION DE :	GB	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	H 01 H
KIND OF REVISION: TYPE DE RÉVISION :	Creation of subgroups Création de sous-groupes		

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 379/96	ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal / Demande de révision avec proposition détaillée		GB	25.01.96
2	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	GB	02.10.96
3	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	CA	13.09.96
4	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	EP	29.10.96
5	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	FR	-11.96
6	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	DE	14.11.96
7	Rapporteur report / Rapport du rapporteur	Rev.2	GB	30.05.97
8	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.2	JP	30.05.97
9	Comments / Observations	Rev.3	JP	02.99
10	Proposal / Proposition	Rev.3	EP	02.99
11	Comments / Observations	Rev.3	EP	02.99
12	Comments / Observations	Rev.3	FR	02.99
13	Comments / Observations	Rev.3	RO	05.99

RAPPORTEUR : GB TECHNICAL FIELD/DOMAINE TECHNIQUE : E

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 379/96	ORIGIN/ ORIGINE	DATE
14	Rapporteur report / Rapport du rapporteur	Rev.4	GB	05.99
15	Decision of the Working Group / Décision du groupe de travail	Rev.4	WG	07.99
16	Comments / Observations	Rev.4	DE	10.99
17	Proposal / Proposition	Rev.4	GB	10.99
18	Comments / Observations	Rev.4	EP	10.99
19	Comments / Observations	Rev.4	RO	10.99
20	Comments / Observations	Rev.4	FR	10.99
21	Comments / Observations	Rev.4	DE	10.99
22	Rapporteur proposal / Proposition du rapporteur	Rev.4	GB	11.99
23	Comments / Observations	Rev.4	GB	11.99
24	Decision of the Working Group / Décision du groupe de travail	Rev.5	WG	12.99
25	Comments / Observations	Rev.5	GB	03.00
26	Comments / Observations	Rev.5	RO	03.00
27	Comments / Observations	Rev.5	EP	03.00
28	Comments / Observations	Rev.5	JP	03.00
29	Comments / Observations	Rev.5	CA	03.00
30	Rapporteur report / Rapport du rapporteur	Rev.5	GB	05.00

EXCERPT FROM DOCUMENT IPC/WG/2/3/
EXTRAIT DU DOCUMENT IPC/WG/2/3

Project C 379 (electrical) – The Working Group agreed that multiple classification in group H 01 H 13/70, as well as in groups H 01 H 13/50 and 13/68, should not be used.

Comments were invited on how group H 01 H 13/70 should be further subdivided.

Projet C 379 (électricité) – Le groupe de travail a convenu que le classement multiple ne doit pas être utilisé dans le groupe H 01 H 13/70, pas plus que dans les groupes H 01 H 13/50 et 13/68.

Des observations ont été demandées sur les nouvelles subdivisions à introduire dans le groupe H 01 H 13/70.

UK Patent Office**Date: 6 March 2000**

Comments on Project C379/96, Subclass H 01 H

IPC/WG/2/3 invited comments on how group H 01 H 13/70 should be further subdivided.

It has already been agreed that file size amply justifies further subdivision of 13/70. Now that multiple classification is not considered worthwhile we suggest going back to Annex 1 as a starting point, with some amendment to try to remove likely overlaps pointed out by EP in previous comments (Annex 4). The amendments could be to the effect to preface all of the wordings with **A**Characterised by....@ as in the following proposal:-

- 13/7032 . . . characterised by construction, mounting or arrangement of insulative spacing layers or projections
- 13/7033 . . . characterised by associated distinguishing marks or indicators, e.g. light emitting or guiding means
- 13/7034 . . . characterised by protective layers or seals
- 13/7035 . . . characterised by venting or pressure equalisation means

Jim Calvert

**OFICIUL DE STAT PENTRU
INVENȚII ÎN ROMÂNIA**

RO COMMENTS

Date: March 2000

Page: 1 of 1

PROJECT C 379

CLASS/SUBCLASS H01 H

We support the GB's proposal (see Annex 17 to the project file) for a classification subdivision of the existing group H01H 13/70.

L. Cojocaru

Project: C 379 Subclass: H01H

Re: IPC/WG/2/3, paragraph 16

Comments have been invited on how group 13/70 should be further subdivided.

We disagree with a further subdivision of group 13/70, for the following reason.
At the last meeting, the Working Group agreed that multiple classification in 13/70 should not be used.

At the same time, it was common opinion that, in this field, many technical aspects can be identified (see also our comments dated 29.10.1996, Annex 4 to the project file).

If a subdivision scheme of the concerned groups should be devised, in order to be consistent and exhaustive, it should necessarily comprise all the most important of said aspects.

This would generate, as a consequence, a big number of subdivisions.

As the vast majority of documents in this domain disclose several of these aspects simultaneously, this would necessarily generate multiple classification, in disagreement with what decided by the Working Group.

Therefore, we are not in favour of further subdividing group 13/70.

P. Foglia

Japanese Patent Office

10 march 2000

Project: **C-379**

Subclass: H01H

We think that the subdivision of subgroup H01H 13/70 is enough as it is in the 7th edition of the IPC.

CA COMMENTS	
IPC Project: C379/96	Date: March 7, 2000
Class \ Subclass: H01H	Page 1 of 1

CA has no further comments.

John Dowding

UK Patent Office**Date: 16 May 2000**

Project leader Report on Project C379/97, Subclass H 01 H

Background

GB submitted a revision proposal in 1996 to subdivide H 01 H 13/70 due to excessive file size. Part of the subgroups proposed were included in Edition 7 but some were postponed for consideration of inclusion for Edition 8. The postponed subgroups caused concern regarding overlap and the possibility of several aspects classifiable therein being mentioned in a document. With the advent of IPC Reform, the Revision Working Group considered the possibility of multiple classification in this area. It was however concluded at the second meeting of the Revision Working Group that multiple classification was not practicable as this area was part of a much larger main group with many parallel entries, and also because the subject matter did not involve different aspects for classification.

The Working Group therefore agreed that multiple classification in group H 01 H 13/70, as well as in groups H 01 H 13/50 and 13/68, should not be used, and invited comments on how group H 01 H 13/70 should be further subdivided.

Comments

Comments were received from CA, EP, JP and RO.

GB suggested going back to Annex 1 as a basis and trying to avoid the problems of overlap by emphasising that for primary classification consideration of the characterising features of the claim were to be given priority.

RO favour the multiple classification type proposal of Annex 17.

EP, JP do not favour any further subdivision over IPC7 as documents mention many of the aspects involved.

CA has no further comments.

Project leader's opinion

RO favour the multiple classification approach but the Revision Working Group has effectively excluded that possibility. Given EP and JP opinions, the future of this revision project must be in considerable doubt. It is however clear that the file sizes justify the proposed groups, so does the GB proposal of emphasising the characterising features of the inventive matter provide a way to include these subdivisions? After all, the present rules of IPC enable supplementary classification of

any interesting other features that may be disclosed, as opposed to being inventive.

These questions are of general applicability to the future of IPC so project leader thinks it essential that they should be discussed by Revision Working Group. In particular, can this project continue on the basis of the relevant part of the original proposal in Annex 1, amended as suggested by GB in Annex 25, or should it simply be discontinued as suggested by EP, JP.

Jim Calvert



IPC/C 380/96 Rev.4
ORIGINAL: English/French
DATE: April 28, 2000

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

IPC REVISION PROJECT FILE/DOSSIER DE PROJET DE RÉVISION DE LA CIB

PROPOSAL BY: PROPOSITION DE :	GB	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	H 01 H
KIND OF REVISION: TYPE DE RÉVISION :	Clarification of wordings Clarification de libellés		

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 380/96	ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal / Demande de révision avec proposition détaillée		GB	25.01.96
2	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	CA	16.09.96
3	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	EP	29.10.96
4	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	FR	-11.96
5	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	DE	14.11.96
6	Rapporteur report / Rapport du rapporteur	Rev.2	GB	30.05.97
7	Decision of the Working Group / Décision du groupe de travail	Rev.3	WG	07.99
8	Comments / Observations	Rev.3	EP	10.99
9	Comments / Observations	Rev.3	CA	10.99
10	Comments / Observations	Rev.3	RO	10.99
11	Comments / Observations	Rev.3	FR	10.99
12	Comments / Observations	Rev.3	DE	11.99
13	French version of approved amendments / Version française des modifications approuvées	Rev.3	FR	11.99

RAPPORTEUR : GB **TECHNICAL FIELD/DOMAINE TECHNIQUE :** E

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 380/96	ORIGIN/ ORIGINE	DATE
14	Rapporteur report / Rapport du rapporteur	Rev.3	GB	11.99
15	Decision of the Working Group / Décision du groupe de travail	Rev.4	WG	12.99
16	French version of approved amendments / Version française des modifications approuvées	Rev.4	FR	04.00

EXCERPT FROM DOCUMENT IPC/WG/2/3/
EXTRAIT DU DOCUMENT IPC/WG/2/3

ANNEX	38	H 01 H	[Project-Rapporteur : 380/GB]	<SC02041E>
N	19/635	• • •	<i>Contacts actuated by rectilinearly-movable member linked to operating part, e.g. by pin and slot</i>	
D	21/80		<i>(covered by 19/36, 19/46, 19/50, 19/60)</i>	R
D	21/82		<i>(covered by 19/36, 19/46, 19/50, 19/62)</i>	R
D	21/84		<i>(transferred to 19/635, covered by 19/36, 19/46, 19/50)</i>	R
	23/00		Tumbler or rocker switches, i.e. switches characterised by being operated by rocking an operating member in the form of a rocker button	R
N	Note(s) after 23/00			

In this group, the term "rocking" is defined as pivotal motion in one plane about an axis parallel to the switch faceplate and located substantially centrally between the ends of the rocker button.

Session:	IPC/WG
Subclass:	H 01 H
Project(s):	C 380
Language:	F
Translator office:	FR
Translation source session:	IPC/WG/1/2 & IPC/WG/2/3
Translation source annex filename:	Annexe 18 & Annexe 38

Mod. type	IPC entry (interval)	Text or Instruction
C	19/00	<i>Interrupteurs actionnés par un organe moteur qui est rotatif autour de son axe longitudinal et qui est entraîné directement par - - - p.ex. une main (collecteur de courant - - -</i>
<i>N</i>	<i>19/03</i>	<i>. . Moyens pour limiter l' angle de rotation de l' organe moteur</i>
<i>N</i>	<i>19/11</i>	<i>. . . avec des moyens de repérage</i>
<i>N</i>	<i>19/635</i>	<i>. . . Contacts actionnés par un élément à mouvement rectiligne couplé à l' organe moteur, p.ex. broche et fente</i>
C	21/00	<i>Interrupteurs actionnés par un organe moteur en forme d'élément pivotant entraîné directement par - - - p.ex. une main (interrupteurs à bascule ou à berceau 23/00; interrupteurs ayant un organe moteur à mouvement angulaire dans plus d'un plan 25/04)</i>
<i>D</i>	<i>21/62</i>	(couvert par 19/56)
<i>D</i>	<i>21/64</i>	(couvert par 19/36)
<i>D</i>	<i>21/66</i>	(couvert par 19/40 , 19/44)
<i>D</i>	<i>21/68</i>	(couvert par 19/46)
<i>D</i>	<i>21/70</i>	(couvert par 19/48)
<i>D</i>	<i>21/72</i>	(couvert par 19/50)
<i>D</i>	<i>21/74</i>	(couvert par 19/52)
<i>D</i>	<i>21/76</i>	(couvert par 19/54)
<i>D</i>	<i>21/78</i>	(couvert par 19/58)
<i>D</i>	<i>21/80</i>	(couvert par 19/36 , 19/46 , 19/50 , 19/60)

D 21/82 (couvert par 19/36, 19/46, 19/50, 19/62)

D 21/84 (transféré en 19/635, couvert par 19/36, 19/46, 19/50)

23/00 Interrupteurs à bascule ou à berceau, c. à d. interrupteurs caractérisés en ce qu' ils sont actionnés par basculement d'un organe de l'interrupteur en forme de bouton à bascule

N Note(s)
après
23/00

N *Dans le présent groupe, l' expression "à bascule" désigne un mouvement de pivotement dans un seul plan autour d' un axe parallèle à la plaque frontale de l' interrupteur et situé sensiblement à égale distance des extrémités du bouton à bascule.*



IPC/C 382/96 Rev.5
ORIGINAL: English/French
DATE: April 28, 2000

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IPC REVISION PROJECT FILE/DOSSIER DE PROJET DE RÉVISION DE LA CIB

PROPOSAL BY: PROPOSITION DE :	GB	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	H 01 H
KIND OF REVISION: TYPE DE RÉVISION :	Creation of subdivisions Création de sous-divisions		

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 382/96	ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal / Demande de révision avec proposition détaillée		GB	25.01.96
2	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	GB	02.10.96
3	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	CA	13.09.96
4	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	EP	29.10.96
5	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	FR	-11.96
6	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.1	DE	19.11.96
7	Rapporteur report / Rapport du rapporteur	Rev.2	GB	30.05.97
8	Comments (re Annex 1) / Observations (réf. annexe 1)	Rev.2	JP	30.05.97
9	Comments / Observations	Rev.3	JP	02.99
10	Decision of the Working Group / Décision du groupe de travail	Rev.4	WG	07.99
11	Comments / Observations	Rev.4	CA	10.99
12	Comments / Observations	Rev.4	RO	10.99
13	Comments / Observations	Rev.4	FR	10.99
14	Comments / Observations	Rev.4	EP	10.99

RAPPORTEUR : GB TECHNICAL FIELD/DOMAINE TECHNIQUE : E

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 382/96	ORIGIN/ ORIGINE	DATE
15	French version of approved amendments / Version française des modifications approuvées	Rev.4	FR	11.99
16	Rapporteur report / Rapport du rapporteur	Rev.5	GB	12.99
17	Comments / Observations	Rev.5	DE	12.99
18	Comments / Observations	Rev.5	JP	12.99
19	Decision of the Working Group / Décision du groupe de travail	Rev.5	WG	12.99
20	French version of approved amendments / Version française des modifications approuvées	Rev.5	FR	04.00

UK Patent Office
Date: 5 November 1999

Rapporteur Report on Project C382/96, Subclass H01H

This project is based on a GB proposal (annex 1); wording for main group 89/00 (as proposed in annex 1) was adopted by the last WG. R suggests that annex 1 be used as the working document.

Comments have been received from CA, EP and FR

- !** *the need for, and wording of, a note clarifying the contents of 89/00; wording of group 89/00, its overlap with other H01H groups; whether 89/00 should be a residual group for combinations*

CA considers that the title of 89/00 should be clarified by addition of the words “per se” following “structural combinations” to specify that only patents where the invention lies in the combination are classified in 89/00. EP proposes limiting the scope of 89/00 by classifying only combinations not provided for in a single one of the preceding main groups of H01H. FR wishes to add a note stating that the association or juxtaposition of switching devices at the time of their installation is classified in H02B 1/00.

R considers that the subject matter to be classified under 89/00 is intended to be characterised by the structural combination of two or more different basic types of switch etc and *suggests that the wording proposed by CA (annex) should be adopted*. R considers that this will avoid overlap with H02B 1/26. This would solve the problem of overlap with the other main groups of H01H, with the exception of emergency protective devices comprising the combination of a release mechanism operated by a first means (such as thermal effects, or electromagnetic effects) and a separately operated resetting mechanism (see, for example, subgroups 71/50 to 71/74, 73/24 to 73/34, 73/38 to 73/46, 73/50 to 73/58, 75/04 etc); these can thus be viewed either as a combinations of two different basic switch types or as a single switch. R accepts that without taking this into account, overlap will remain a problem, and *proposes that a precedence note be added* (see modified proposal below).

- !** *whether there is overlap between 89/02 and 89/04 and other groups in H01H*

R considers that the matter to be classified in 27/06 comprises a single switch operated by inserting and then turning a key; 27/06 is not a place for classifying combinations of different switch types, there is thus no overlap. CA has pointed out that the proposed amendment to 89/00 makes this clear; EP has no difficulties with this point, although FR considers that overlap may be a problem.

Although FR continues to have problems with the overlap of 89/04 ad 37/00+ (the overlap with 73/00+ has been dealt with by the addition of a precedence note) R notes that 37/00+ contains no specific provision for the classification of reset means of thermally activated switches (is this implied in 37/74). R therefore **proposes** that WG discuss whether reset means for thermally actuated switches should be classified in 37/00 (analogous to what is proposed for 71/00 to 83/00) or in 89/04.

Rapporteur's Recommendations

The following points should be consider at Revision Working Group No 2 taking into account the modified proposal.

- ! the wording of the title of 89/00
- ! whether an emergency protective device or thermally actuated switch comprising a release mechanism actuated a by first mechanism intrinsically combined with a reset mechanism operated by a second, different mechanise should be classified in 89/00 or 73/00 to 83/00 and 37/00
- ! whether the proposed precedence note avoids overlap with other main groups of H01H, H02B

Modified Proposal

- | | | |
|---|-------|---|
| N | 89/00 | Structural combinations per se of two or more different basic types of electric switches, relays, selectors and emergency protective devices (emergency protective switches having a release mechanism operated by a first means and a reset mechanism operated by a second, different means 71/00 to 83/00; juxtaposition of two or more different switch types at time of installation H02B 1/00) |
| N | 89/02 | • Combination of a key operated switch with a manually operated switch, eg ignition and lighting switches |
| N | 89/04 | • Combination of a thermally actuated switch with a manually operated switch |
| N | 89/06 | • Combination of a manual reset circuit with a contactor, ie the same circuit controlled by both a protective and a remote control device |
| N | 89/08 | • • with both devices using the same contact pair |
| N | 89/10 | • • • with each device controlling one of the two co-operating contacts |

Melvyn Rees

Deutsches Patent- und Markenamt German Patent and Trademark Office	Class/Subcl.: H01H 89/00
	Date : 8/11/99
DE - Comments — C 382	

Re: IPC/WG/1/2, Annex C

1. We think that the present wording of H01H 89/00 needs some clarification in order to exclude mere collections or assemblies of several independent and different switches in a single housing (as in H02..).

One possible solution might be to simply replace the term "structural" by "functional"; another way to go would be the addition of a more extended remark e.g. "(this subgroup does not cover the mere structural combinations of such devices in a common housing without any inherent common functional relationship between them)".

2. Having H01H 89/00 as a residual group for combinations does not make sense if no such combinations are explicitly mentioned in other entries. We have not been able to locate such entries in H01H.

3. We still maintain our concerns towards 89/02 and 89/04.

As for 89/02 the given example EP497661 describes a key operated switch which is manually operated simply because any key has to be manually operated. Therefore, it is not a combination of two different types of switches but a single switch. Even if such a key were to be operated by two different manual operations (e.g. rotating and pushing) that key would still be a key operated switch. Furthermore, this document teaches that an additional "secondary switch" may be added. However that secondary switch is effectively but an additional set of contacts being operated by the same key. Therefore, this example does not meet the definition of that subgroup.

We think that H01H 27/06 is fully sufficient here, especially for the given example. As we doubt there being a sufficient number of relevant documents showing true combinations of manually and key operated switches we consider a creation of that subgroup not necessary.

As for 89/04 in the given examples emphasis is very much on details related to the thermal actuation. We therefore prefer to have such subjects classified in 37/00.. or 61/00.., respectively. If new such subgroups were created in 37/00 or 61/00, a residual remark should be included in the wording of 89/00.

L. Mailänder

J P COMMENTS

Date 14.11.99

PCI/C-382 ; Subclass H 01H

We agree with the EP proposal dated 7 October 1999.

EXCERPT FROM DOCUMENT IPC/WG/2/3/
EXTRAIT DU DOCUMENT IPC/WG/2/3

ANNEX	39	H 01 H	[Project-Rapporteur : 382/GB]	<SC02042E>
N	89/00	<i>Combinations of two or more different basic types of electric switches, relays, selectors and emergency protective devices, not covered by a single one of the preceding main groups</i>		R
N	89/02	<ul style="list-style-type: none"> • <i>Combination of a key operated switch with a manually operated switch, e.g. ignition and lighting switches</i> 		
N	89/04	<ul style="list-style-type: none"> • <i>Combination of a thermally actuated switch with a manually operated switch</i> 		
N	89/06	<ul style="list-style-type: none"> • <i>Combination of a manual reset circuit with a contactor, i.e. the same circuit controlled by both a protective and a remote control device</i> 		
N	89/08	<ul style="list-style-type: none"> • • <i>with both devices using the same contact pair</i> 		
N	89/10	<ul style="list-style-type: none"> • • • <i>with each device controlling one of the two co-operating contacts</i> 		

Projet IPC / C 382
Sous-classe **H 01 H**

VERSION FRANÇAISE

Ce document a été établi sur la base de notre proposition, après consultation des autres offices et du Bureau international.

(ref : annexe 39 du document IPC/WG/2/3)

H 01 H

- N 89/00 Combinaisons de plusieurs types d'interrupteurs électriques, de relais, de sélecteurs et de dispositifs de protection d'urgence, non couvertes par un seul des groupes principaux précédents*
- N 89/02 . Combinaison d'un interrupteur actionné par clé avec un interrupteur actionné manuellement, p. ex. interrupteurs d'allumage et d'éclairage*
- N 89/04 . Combinaison d'un interrupteur actionné thermiquement avec un interrupteur actionné manuellement*
- N 89/06 . Combinaison d'un circuit à réarmement manuel avec un contacteur, c. à d. le même circuit étant commandé à la fois par un dispositif de télécommande et un dispositif de protection*
- N 89/08 . . les deux dispositifs utilisant la même paire de contacts*
- N 89/10 . . . chaque dispositif commandant un des deux contacts coopérants*



IPC/C 397/97 Rev.2
ORIGINAL: English/French
DATE: April 28, 2000

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

IPC REVISION PROJECT FILE/ DOSSIER DE PROJET DE RÉVISION DE LA CIB

PROPOSAL BY: PROPOSITION DE :	GB	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	G 01 S
KIND OF REVISION: TYPE DE RÉVISION :	Creation of subgroups Création de sous-groupes		

ANNEX/ ANNEXE	CONTENT/CONTENU		SEE/VOIR C 397/97	ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal	/ Demande de révision avec proposition détaillée		GB	30.01.97
2	Comments	/ Observations		JP	07.98
3	Comments	/ Observations		CA	07.98
4	Comments	/ Observations		EP	07.98
5	Comments	/ Observations		FR	07.98
6	Comments	/ Observations		DE	07.98
7	Comments	/ Observations		JP	07.98
8	Rapporteur report	/ Rapport du rapporteur		GB	02.99
9	Comments	/ Observations	Rev.1	JP	05.99
10	Decision of the Working Group	/ Décision du groupe de travail	Rev.1	WG	07.99
11	Comments	/ Observations	Rev.1	CA	10.99
12	Comments	/ Observations	Rev.1	RO	10.99
13	Comments	/ Observations	Rev.1	FR	10.99
14	Comments	/ Observations	Rev.1	GB	11.99

RAPPORTEUR : GB

TECHNICAL FIELD/DOMAINE TECHNIQUE : E

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 397/97	ORIGIN/ ORIGINE	DATE
15	Rapporteur report / Rapport du rapporteur	Rev.1	GB	11.99
16	Comments / Observations	Rev.2	JP	12.99
17	Comments / Observations	Rev.2	EP	12.99
18	Decision of the Working Group / Décision du groupe de travail	Rev.2	WG	12.99
19	Comments / Observations	Rev.2	GB	03.00
20	Comments / Observations	Rev.2	RU	03.00
21	Comments / Observations	Rev.2	EP	03.00
22	Comments / Observations	Rev.2	JP	03.00
23	Comments / Observations	Rev.2	CA	03.00
24	Comments / Observations	Rev.2	SE	03.00
25	Comments / Observations	Rev.2	RO	03.00
26	French version of approved amendments / Version française des modifications approuvées	Rev.2	CH	04.00
27	Rapporteur report / Rapport du rapporteur	Rev.2	GB	04.00
28	Rapporteur proposal / Proposition du rapporteur	Rev.2	GB	04.00

J P COMMENTS

Date 14.11.99

IPC-397 ; Subclass G01S

1. Considering the modified title of G01C (7th edition), we think it is desirable that “active triangulation” would be covered in the subgroups under G01C. Thus, we do not agree to create a subgroup of 17/48 (“active triangulation systems”) under the subclass of G01S.

2. We do not think there are any possible overlap between G01C and Group G02B 7/32. Because the technological border between them is clear when seeing both references of G02B (“measuring-instruments, see the relevant subclass G01, e.g. optical rangefinders G01C”) and of G02B 7/28 (hierarchically higher group of G02B 7/32: “measuring distance per se G01C, S”).

Regarding FR comment (Annex 5), we do not agree to add the wording “by active triangulation systems” to the title of G01S 17/46 for the above (1) reason.

Project: **C397**
Subclass: **G01S**

In the document IPC/WG/1/2, par.18, page 11, comments were invited on whether the "active triangulation" would be covered by the subclass G01C in view of its title in IPC-7, in which case a creation of a specific group under G01S would be undesirable.

We still support the introduction of a new four-dot entry G01S 17/48 under 17/46.

The subclass G01S title in IPC-7 relates to:

"Determining distance by use of radio waves; [...] Analogous arrangements using other waves".

The subclass G01C title in IPC-7 relates instead to:

"Measuring distances [...]"

Moreover, a reference in the G01C title clearly refers out the subject matter of G01S.

Particularly, the scope of the group G01S 17/46 covers the subject matter of:

"Determining distance by using the reflection or reradiation of electromagnetic waves other than radio waves; Determining position data of a target; Indirect determination of position data".

We would like to stress that, according to our expert working in the field, the active triangulation systems of G01S involve the use of a transmitter and a receiver (of an electromagnetic wave) whereas the passive triangulation systems of G01C involve optical elements using natural light, e.g. day-light.

There seems then to be no misunderstanding nor overlapping as to "Active triangulation systems" and a new entry 17/48 would be then consistent with the present IPC.

Moreover, the ECLA-based statistics of documents fitting into the new group would be above 100 documents, what further supports the introduction of the new group.

Finally we support the adoption of the 17/48 title as originally proposed by GB (Annex 1).

R. Iasevoli

EXCERPT FROM DOCUMENT IPC/WG/2/3/
EXTRAIT DU DOCUMENT IPC/WG/2/3

Project C 397 (electrical) – The Working Group agreed that subject matter relating to “active triangulation” should be covered by subclass G 01 S.

Comments were invited on:

- whether the borderline between subclasses G 01 C and G 01 S could be clarified by including, in the reference to G 01 S in the title of subclass G 01 C, the full text of the title of subclass G 01 S;
- whether a reference to the approved group G 01 S 17/48 (“active triangulation”) should be introduced in group G 01 C 3/00 or its subgroups, in the light of the existing references to subclass G 01 C in group G 01 S 17/08.

Projet C 397 (électricité) – Le groupe de travail a convenu que la matière se rapportant à la “triangulation active” doit être couverte par la sous-classe G 01 S.

Des observations ont été demandées

- sur le point de savoir si l’on pourrait délimiter plus clairement les sous-classes G 01 C et G 01 S en incorporant, dans le renvoi à la sous-classe G 01 S dans le titre de la sous-classe G 01 C, le libellé intégral du titre de la sous-classe G 01 S;
- sur l’opportunité de faire figurer dans le groupe G 01 C 3/00 ou dans ses sous-groupes un renvoi au groupe approuvé G 01 S 17/48 (“triangulation active”), eu égard aux renvois à la sous-classe G 01 C déjà présents dans le groupe G 01 S 17/08.

ANNEX 43 G 01 S [Project-Rapporteur : 397/GB] <SC02043E>

N 17/48 • • • • Active triangulation systems (active systems for automatic generation of focusing signals G 02 B 7/32)

UK Patent Office

Date: 9 March 2000

Comments on Project C397/97, Subclass G 01 S

IPC/WG/2/3 invited comments on:-

B whether the borderline between subclasses G 01 C and G 01 S could be clarified by including, in the reference to G 01 S in the title of subclass G 01 C, the full text of the title of subclass G 01 S;

We don't think this would help particularly as the title of G 01 S is so long and the relevant part is "Analogous arrangements using other waves" which is not sufficiently specific to be of much use.

B whether a reference to the approved group G 01 S 17/48 (Active triangulation) should be introduced in group G 01 C 3/00 or its subgroups, in the light of the existing references to subclass G 01 C in group G 01 S 17/08.

We think that the existing reference in G 01 S 17/08 should be amended to refer only to passive systems using parallax triangles and to refer also to the new 17/48 for active triangulation. This would then allow a reference in G 01 C 3/00 or 3/02 to G 01 S 17/48 for active triangulation perhaps also clarifying that G 01 C covers only passive triangulation.

Jim Calvert

FEDERAL INSTITUTE OF INDUSTRIAL PROPERTY

RU comments	
Project: C 397	Date: 27/03/00 2:30 PM
Class/subclass: G 01S	Page 1 of 1

1) We support the introduction of new four-dot entry G 01S 17/48.

The existent wording of the reference in the title of subclass G 01C to G 01S is sufficient for clarifying the borderline between subclasses G 01C covering the passive triangulation systems and G 01S covering the active triangulation systems.

2) We support the introduction of the reference to group G 01S 17/48 in the title of group G 01C 3/00, e.g. as: "indirect determination of position data using active triangulation systems G 01S 17/48".

V. Nyukhovsky

Project: **C397**
 Subclass: **G01S**

In the document IPC/WG/2/3 comments were invited on whether and how to clarify the borderline between the subclasses G01C and G01S and whether and how references should be introduced in the cross-related (sub)groups of G01C and G01S.

After consultation of our expert working in the field, we believe that the borderline between subclasses G01C and G01S could be clarified by modifying the reference to G01S in the title of G01C, as it follows:

C G01C --- G01R; radio navigation, determining distance or velocity by use of radio waves, locating or presence detecting by use of the reflection or reradiation of radio waves, analogous arrangements using other waves
 G01S; optical ---

Moreover the definition of "active triangulation systems" for the approved group G01S 17/48 could be improved by stressing the use of transmission and reflection of electromagnetic waves other than radio waves. References to the "passive systems" of G01C 3/10, 3/22, 3/24, 3/26 should be introduced both for the group 17/08 and for the group 17/48, namely:

G01S

C 17/08 --- indirect measurement 17/46; active triangulation systems 17/48; passive systems using a parallactic triangle G01C 3/10, 3/22, 3/24, 3/26)

C 17/48 § § § § Active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves (passive systems using a parallactic triangle G01C 3/10, 3/22, 3/24, 3/26; active systems for automatic generation of focusing signals G02B 7/32)

Finally references to the approved group for "active triangulation systems" should be introduced for the relevant subgroups of G01C 3/00, namely:

G01C

C 3/10 --- instrument (active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves G01S 17/48)

C 3/22 --- object (active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves G01S 17/48)

C 3/24 --- instrument (active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves G01S 17/48)

C 3/26 --- object (active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves G01S 17/48)

Roberto Iasevoli

Japanese Patent Office

10 march 2000

Project: **C-397**

Subclass: G01S

Since the creation of G01S 17/48 (active triangulation) was agreed, it is necessary to introduce a reference note to clarify the relation with G01C.

1. The reference note in G01C to G01S should be changed with the wording of the title of G01S in the 7th edition of the IPC as follows:

Radio direction-finding; radio navigation; determining distance or velocity by use of radio waves; locating or presence-detecting by use of the reflection or reradiation of radio waves; analogous arrangements using other waves G01S

2. Reference notes should be added as follows:

- “Active triangulation systems G01S 17/48” should be added into the note after the title of G01C 3/00.
- “Using a parallactic triangle G01C 3/10, 3/22, 3/24, 3/26” should be added into the note after the title of G01S 17/48.

CA COMMENTS	
IPC Project: C397/97	Date: March 9, 2000
Class \ Subclass: G01S	Page 1 of 1

The Rapporteur has requested input on whether placing the full text of the title of G01S in the note following the title of G01C will clarify the apparent confusion surrounding ~~active triangulation~~ systems. We are of the opinion that if we, as the experts, are still in disagreement over this issue, then a novice searcher using the IPC will not likely find the situation any clearer by placing G01S's full title in G01C. We are still not in favour of the new group G01S 17/48; however, if it is adopted, then a clear note and clear definitions of active vs. passive triangulation should appear in G01C.

John Dowding

Swedish Patent and Registration Office

IPC Revision Project C 397, subclass G01S

March 10th, 2000

COMMENTS relating to Annex 18

Comments were invited on:

- **whether the borderline between subclasses G 01 C and G 01 S could be clarified by including, in the reference to G 01 S in the title of subclass G 01 C, the full text of the title of subclass G 01 S;**

The existing reference in the G01C title seems to be clear enough

- **whether a reference to the approved group G 01 S 17/48 (“active triangulation”) should be introduced in group G 01 C 3/00 or its subgroups, in the light of the existing references to subclass G 01 C in group G 01 S 17/08.**

The concept of “active triangulation” may not be clear to classifiers. To distinguish it from “passive”, “transmitting and receiving waves” could be added to the title “active triangulation”

Sture Elnäs

OFICIUL DE STAT PENTRU RO COMMENTS Date: March 2000
INVENȚII ÎN MĂRI RCI Page: 1 of 1

PROJECT C 397

CLASS/SUBCLASS G01 S

We think that is better to clarify the borderline between subclasses G01C and G01S by including the full text of the title of subclass G01S, in the reference to G01S from the title of subclass G01C.

Also, a reference to the approved group G01S 17/48 **Active triangulation systems** could be introduced in group G01C 3/00 for clarifying.

L. Cojocaru

Session:	IPC/WG
Subclass:	G01S
Project(s):	C 397
Language:	F
Translator office:	CH
Translation source session:	IPC/WG/2
Translation source annex filename:	Annex 43

(Proposition de traduction CH 10.03.00)

Mod. IPC entry Text or Instruction
type (interval)

*N 17/48 Systèmes de triangulation active (systèmes actifs pour la
génération automatique de signaux de mise au point G02B 7/32)*

UK Patent Office**Date: 18 April 2000**

Rapporteur Report on Project C397/97, Subclass G 01 S

Background

The second session of the RWG adopted the proposed G 01 S 17/48 but invited comments regarding appropriate references to define the borderline between G 01 C and G 01 S as regards triangulation systems.

Comments

Comments were received from JP, EP, GB, RU, SE, RO, CA.

B whether the borderline between subclasses G 01 C and G 01 S could be clarified by including, in the reference to G 01 S in the title of subclass G 01 C, the full text of the title of subclass G 01 S;

EP proposed a reference corresponding to a large extent to the title of G 01 S, and JP proposed a similar reference. RO support a reference in the form of the full title of G 01 S.

GB thinkst that such a reference would be too unwieldy and would not ultimately help. CA think the full title would not help either. RU and SE think the existing references in G 01 C are adequate.

Rapporteur thinks there is a division of opinion here. To include the full title of G 01 S would be unwieldy but is the present reference in the title of G 01 C adequate? Perhaps more specific references at subgroup level are the answer, and therefore Rapporteur does not make any further proposal here at the moment.

B whether a reference to the approved group G 01 S 17/48 (Active triangulation@) should be introduced in group G 01 C 3/00 or its subgroups, in the light of the existing references to subclass G 01 C in group G 01 S 17/08.

In this difficult technical area all comments support some references in both G 01 S 17/08 or 17/48 and in G 01 C 3/00 or subgroups thereof. There are various suggested permutations but Rapporteur suggests that the EP suggestion is the most complete and therefore includes that as a working document.

UK Patent Office

Date: 18 April 2000

Rapporteur Proposal for Project C397/97, Subclass G 01 S

G01S

C 17/08 --- indirect measurement 17/46; active triangulation systems 17/48; passive systems using a parallactic triangle G01C 3/10, 3/22, 3/24, 3/26)

C 17/48 --- Active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves (passive systems using a parallactic triangle G01C 3/10, 3/22, 3/24, 3/26; active systems for automatic generation of focusing signals G02B 7/32)

G01C

C 3/10 --- instrument (active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves G01S 17/48)

C 3/22 --- object (active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves G01S 17/48)

C 3/24 --- instrument (active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves G01S 17/48)

C 3/26 --- object (active triangulation systems, i.e. using the transmission and reflection of electromagnetic waves other than radio waves G01S 17/48)

Jim Calvert

U.K. Patent Office



IPC/C 399/97 Rev.2
ORIGINAL: English/French
DATE: April 28, 2000

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

IPC REVISION PROJECT FILE/ DOSSIER DE PROJET DE RÉVISION DE LA CIB

PROPOSAL BY: PROPOSITION DE :	EP	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	G 06 F
KIND OF REVISION: TYPE DE RÉVISION :	Creation of subgroups Création de sous-groupes		

ANNEX/ ANNEXE	CONTENT/CONTENU		SEE/VOIR C 399/97	ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal	/ Demande de révision avec proposition détaillée		EP	21.01.97
2	Comments	/ Observations		EP	08.98
3	Comments	/ Observations		SE	08.98
4	Comments	/ Observations		JP	08.98
5	Rapporteur report	/ Rapport du rapporteur		EP	02.99
6	Rapporteur proposal	/ Proposition du rapporteur		EP	02.99
7	Decision of the Working Group	/ Décision du groupe de travail	Rev.1	WG	07.99
8	Comments	/ Observations	Rev.1	EP	10.99
9	Comments	/ Observations	Rev.1	EP	10.99
10	Comments	/ Observations	Rev.1	RO	10.99
11	Comments	/ Observations	Rev.1	FR	10.99
12	Comments	/ Observations	Rev.1	GB	11.99
13	Rapporteur report	/ Rapport du rapporteur	Rev.1	EP	11.99
14	Rapporteur proposal	/ Proposition du rapporteur	Rev.1	EP	11.99

RAPPORTEUR : EP

TECHNICAL FIELD/DOMAINE TECHNIQUE : E

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 399/97	ORIGIN/ ORIGINE	DATE
15	French version of approved amendments / Version française des modifications approuvées	Rev.1	EP	11.99
16	Decision of the Working Group / Décision du groupe de travail	Rev.2	WG	12.99
17	Comments / Observations	Rev.2	EP	03.00
18	French version of approved amendments / Version française des modifications approuvées	Rev.2	EP	04.00

EXCERPT FROM DOCUMENT IPC/WG/2/3/
EXTRAIT DU DOCUMENT IPC/WG/2/3

ANNEX	44	G 06 F	[Project-Rapporteur : 399/EP]	<SC02047E>
N	21/00	<i>Security arrangements for protecting computers or computer systems against unauthorised activity</i> (multiprogramming 9/46; protection against unauthorised use of memory 12/14; dispensing apparatus actuated by coded identity card or credit card G 07 F 7/08; equipment anti-theft monitoring by a central station G 08 B 26/00; secret or secure communication H 04 L 9/00; data switching networks H 04 L 12/00)		R
N	21/02	• <i>by protecting specific internal components</i>		
N	21/04	• <i>by protecting specific peripheral devices, e.g. keyboards or displays</i>		
N	21/06	• <i>by restricting access to nodes in a computer system or computer network</i>		
N	21/08	• <i>by restricting access to, or manipulation of, programmes or processes</i>		
N	21/10	• <i>by protecting data directly, e.g. by labelling</i>		
N	21/12	• <i>by sensing unauthorised manipulation of, or intrusion into, an enclosure e.g. a housing or a room</i>		



EUROPEAN PATENT OFFICE
Principal Directorate Documentation

Comments
8 March 2000

Project: C 399 **Subclass: G06F**

Even though no comments have been asked for, we would like to submit the following.

We propose to change the place of group 21/12, and in particular to move it between groups 21/04 and 21/06.

The reason for this is to improve the scheme logical order, i.e. essentially by listing and regrouping hardware techniques (21/02, 21/04, 21/12) before software (21/06 to 21/10) ones.

P. Foglia



Projet: C 399 Sous-Classe: G06F

Re: IPC/WG/2/3, Technical Annex 44

Les observations présentées par FR ont été prises en considération.

C 1/00 --- à 13/00 et 21/00 (architecture de ---

N 21/00 Dispositions de sécurité pour protéger les calculateurs ou les systèmes de calculateurs contre une activité non autorisée (multiprogrammation 9/46; protection contre l'utilisation non autorisée de mémoire 12/14; appareil de distribution actionné par carte d'identité codée ou carte de crédit codée G 07 F 7/08; surveillance antivol de matériel par une station centrale G 08 B 26/00; communications secrètes ou protégées H 04 L 9/00; réseaux de données à commutation H 04 L 12/00)

N 21/02 \$ par protection de composants internes spécifiques

N 21/04 \$ par protection de périphériques spécifiques, p.ex. de claviers ou de dispositifs d'affichage

N 21/06 \$ par limitation de l'accès aux noeuds dans un système informatique ou un réseau informatique

N 21/08 \$ par limitation de l'accès à des programmes ou traitements ou par limitation de leur manipulation

N 21/10 \$ par protection directe des données, p.ex. par étiquetage

N 21/12 \$ par détection de la manipulation non autorisée de, ou de l'intrusion dans, une enceinte, p.ex. un boîtier ou une salle

P. Foglia



IPC/C 400/97 Rev.2
ORIGINAL: English/French
DATE: April 28, 2000

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

IPC REVISION PROJECT FILE/ DOSSIER DE PROJET DE RÉVISION DE LA CIB

PROPOSAL BY: PROPOSITION DE :	EP	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	G 06 F
KIND OF REVISION: TYPE DE RÉVISION :	Creation of subgroups Création de sous-groupes		

ANNEX/ ANNEXE	CONTENT/CONTENU		SEE/VOIR C 400/97	ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal	/ Demande de révision avec proposition détaillée		EP	17.01.97
2	Comments	/ Observations		EP	08.98
3	Rapporteur report	/ Rapport du rapporteur		EP	02.99
4	Rapporteur proposal	/ Proposition du rapporteur		EP	02.99
5	Decision of the Working Group	/ Décision du groupe de travail	Rev.1	WG	07.99
6	Comments	/ Observations	Rev.1	EP	10.99
7	French version of approved amendments	/ Version française des modifications approuvées	Rev.1	EP	11.99
8	Decision of the Working Group	/ Décision du groupe de travail	Rev.2	WG	12.99
9	Comments	/ Observations	Rev.2	EP	03.00
10	Comments	/ Observations	Rev.2	CA	03.00
11	Comments	/ Observations	Rev.2	RO	03.00
12	Rapporteur report	/ Rapport du rapporteur	Rev.2	EP	04.00

RAPPORTEUR : EP

TECHNICAL FIELD/DOMAINE TECHNIQUE : E

EXCERPT FROM DOCUMENT IPC/WG/2/3/
EXTRAIT DU DOCUMENT IPC/WG/2/3

Project C 400 (electrical) – Comments were invited on the correctness of the wording of approved group G 06 F 5/14 (see Annex 45E to this report), in English and French, in the light of its intended scope.

Projet C 400 (électricité) – Des observations ont été demandées sur l'exactitude du libellé du groupe G 06 F 5/14 dont la création a été approuvée (voir l'annexe 45E du présent rapport), en français et en anglais, compte tenu de la portée prévue pour ce groupe.

ANNEX	45E	G 06 F	[Project-Rapporteur : 400/EP]	<SC02044E>
N	5/14	• • • •	<i>for overflow or underflow handling, e.g. full or empty flags</i>	R
ANNEXE	45F	G 06 F	[Project-Rapporteur : 400/EP] (T:EP) - SC/01/2	<SC02045F> <SC01026E>
N	5/08	• •	<i>ayant une séquence d'emplacements d'emmagasinage, les emplacements intermédiaires n'étant pas accessibles pour des opérations soit de mise en file d'attente, soit de retrait de file d'attente, p.ex. utilisant un registre à décalage</i>	
N	5/10	• •	<i>ayant une séquence d'emplacements d'emmagasinage, chacun étant individuellement accessible à la fois pour des opérations de mise en file d'attente et pour des opérations de retrait de file d'attente, p.ex. utilisant une mémoire à accès aléatoire</i>	
N	5/12	• • •	<i>Moyens de contrôle de niveau de remplissage; Moyens de résolution des conflits d'utilisation, c. à d. des conflits entre des opérations simultanées de mise en file d'attente et de retrait de file d'attente</i>	
N	5/14	• • • •	<i>pour la maîtrise du dépassement de la capacité du système ou de sa sous-alimentation, p.ex. drapeaux plein ou vide</i>	
N	5/16	• •	<i>Systèmes multiplexés, c. à d. utilisant plusieurs dispositifs similaires à accès alterné pour des opérations de mise en file d'attente et de retrait de file d'attente, p.ex. des tampons ping-pong</i>	

Project: C 400 Subclass: G06F

Re: IPC/WG/2/3, paragraph 16

Comments have been invited on the correctness of the wording of approved group G06F5/14.

We agree with both English and French versions.

P. Foglia

CA COMMENTS	
IPC Project: C400/97	Date: March 9, 2000
Class \ Subclass: G06F	Page 1 of 1

Since control is not always intended, the word ~~handling~~ would appear to be more appropriate, as is evidenced by the representative example.

Puisque certains cas ne feraient pas intervenir de contrôle en soi, le terme *~~maîtrise~~ convient mieux, comme le suggère d'ailleurs l'exemple type mentionné.

John Dowding
Claude Plante

OFICIUL DE STAT PENTRU RO COMMENTS Date: March 2000
INVENȚII ÎN M{ RCI Page: 1 of 1

PROJECT C 400

CLASS/SUBCLASS G06F

We think that the expression **overflow or underflow handling** is more appropriate in the approved group **G06F 5/14** in view of the scope of main group **G06F 5/00**.

L. Cojocaru

Project: C 400 Subclass: G06F

This project concerns an EP proposal for introducing new subdivisions under existing groups G06F5/06 because of considerable file size and activity.

Comments have been invited on the correctness of the wording of approved group 5/14, in English and French, in the light of its intended scope.

Comments have been received from EP and RO.

Both commenting Offices agree with the adopted wording.

Rapporteur's recommendations

Rapporteur suggests that the approved wording be kept unchanged.

P. Foglia



IPC/C 402/97 Rev.2
ORIGINAL: English/French
DATE: December 17, 1999

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

IPC REVISION PROJECT FILE/ DOSSIER DE PROJET DE RÉVISION DE LA CIB

PROPOSAL BY: PROPOSITION DE :	EP	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	G 06 F
KIND OF REVISION: TYPE DE RÉVISION :	Creation of subgroups Création de sous-groupes		

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 402/97	ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal / Demande de révision avec proposition détaillée		EP	17.01.97
2	Comments / Observations		EP	08.98
3	Comments / Observations		JP	08.98
4	Comments / Observations		DE	08.98
5	Comments / Observations		JP	08.98
6	Rapporteur report / Rapport du rapporteur		EP	02.99
7	Rapporteur proposal / Proposition du rapporteur		EP	02.99
8	Decision of the Working Group / Décision du groupe de travail	Rev.1	WG	07.99
9	Comments / Observations	Rev.1	EP	10.99
10	Comments / Observations	Rev.1	CA	10.99
11	Comments / Observations	Rev.1	RO	10.99
12	Comments / Observations	Rev.1	FR	10.99
13	Comments / Observations	Rev.1	DE	10.99
14	Rapporteur report / Rapport du rapporteur	Rev.1	EP	11.99

RAPPORTEUR : EP TECHNICAL FIELD/DOMAINE TECHNIQUE : E

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 402/97	ORIGIN/ ORIGINE	DATE
15	French version of approved amendments / Version française des modifications approuvées	Rev.1	EP	11.99
16	Comments / Observations	Rev.2	JP	12.99

J P COMMENTS

Date 14.11.99

PCI/C-402 ; Subclass G06F

7/499

We agree with the proposed 7/499 in Annex 8.

7/533

The wording of 7/533 is not proper, as it seems to be limited to the use of the Booth algorithm. We are in the same opinion as EP (Annex 9) and DE (Annex 13) that it should be modified to the original expression.

7/525-7/53

We think the precedence references are preferable in 7/525-7/53 referring to 7/533.

7/57

As CA comment shown in Annex 10, we do not think a reference to G06F 9/30 is necessary in G06F 7/57.



IPC/C 404/97 Rev.2
ORIGINAL: English/French
DATE: May 11, 2000

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

IPC REVISION PROJECT FILE/ DOSSIER DE PROJET DE RÉVISION DE LA CIB

PROPOSAL BY: PROPOSITION DE :	GB	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	G 11 B
KIND OF REVISION: TYPE DE RÉVISION :	Creation of subgroups Création de sous-groupes		

ANNEX/ ANNEXE	CONTENT/CONTENU		SEE/VOIR C 404/97	ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal	/ Demande de révision avec proposition détaillée		GB	30.01.97
2	Comments (re Annex 1)	/ Observations (réf. annexe 1)		DE	27.08.97
3	Comments	/ Observations		EP	08.98
4	Counter- proposal	/ Contre-proposition		EP	08.98
5	Comments	/ Observations		SE	08.98
6	Comments	/ Observations		CA	08.98
7	Comments	/ Observations		JP	08.98
8	Rapporteur report	/ Rapport du rapporteur		GB	02.99
9	Decision of the Working Group	/ Décision du groupe de travail	Rev.1	WG	07.99
10	Comments	/ Observations	Rev.1	EP	10.99
11	Comments	/ Observations	Rev.1	CA	10.99
12	Comments	/ Observations	Rev.1	RO	10.99
13	Comments	/ Observations	Rev.1	FR	10.99
14	Comments	/ Observations	Rev.1	DE	10.99

RAPPORTEUR : GB

TECHNICAL FIELD/DOMAIN TECHNIQUE : E

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 404/97	ORIGIN/ ORIGINE	DATE
15	French version of approved amendments / Version française des modifications approuvées	Rev.1	FR	11.99
16	Rapporteur report / Rapport du rapporteur	Rev.2	GB	12.99
17	Decision of the Working Group / Décision du groupe de travail	Rev.2	WG	12.99
18	Comments / Observations	Rev.2	GB	03.00
19	Comments / Observations	Rev.2	EP	03.00
20	Comments / Observations	Rev.2	RO	03.00
21	Rapporteur report / Rapport du rapporteur	Rev.2	GB	05.00

UK Patent Office**Date: 8 November 1999**

Rapporteur Report on Project C404/97, Subclass G11B

This project is based on a GB proposal (annex 1) to further subdivide G11B 7/24, later modified in a RR (annex 8). The last Working Group adopted a part of the proposal (annex 9); R proposes that annex 9 (and for subgroups 7/253 to 7/259, annex 8) be adopted as the working document.

Comments were invited and have been received from CA, DE, EP and FR on the following topics:

! *whether overlap between groups 7/253 to 7/258 should be eliminated with precedence references, or whether multiple classification should apply*

DE, EP and FR are in favour of multiple classification, but CA would like to see overlaps eliminated using precedence references. R concurs with the majority view that multiple classification will be more effective for search in this area and *proposes that multiple classification be adopted with a note indicating this in the subclass introduction* (see modified proposal)

! *whether each of groups 7/253 to 7/258 are needed*

DE, EP and FR consider that each of groups 7/253 to 7/258 are needed. R *agrees with this.*

! *on the wording of groups 7/247, 7/248 and 7/25*

CA, DE and FR agreed with the wording of 7/247 and 7/248 as given in annex 9; EP would prefer the wording “methine or polymethine dyes” in 7/247 and “porphines, azaporphines, dg phthalocyanines” in 7/248. R *proposes that the wording put forward by EP should be adopted*, as the additional dyes stuffs included seem to be closely related to those already mentioned (see C09B 23/00, C09B 47/00, 47/04).

CA, DE, EP prefer that the title of 7/25 should read “containing liquid crystals”; FR would prefer it to be “in the form of liquid crystals”. R agreed with the reasoning expressed by EP and DE and *proposes that the wording “containing liquid crystals” be adopted.*

Rapporteur's Recommendations

The following points should be consider at Revision Working Group No 2 taking into account the modified proposal.

- ! the adoption of all proposed group 7/253 to 7/258
- ! the adoption of multiple classification for subgroups 7/253 to 7/258 and approval of the proposed note (see modified proposal)
- ! the wording of titles for groups 7/247. 7/248 and 7/25

Modified Proposal

- N **Note** - - - relatively to the record carrier
- (3) In this subclass multiple classification should be applied for the following subgroups:
- 7/253 to 7/258 should be applied as multi-aspect classification, so that if an invention is characterised by aspects covered by more than one of these subgroups then the subject matter should be in classified in each of those subgroups. Application of more than two subgroups should be avoided.
- N 7/241 •• characterised by the selection of the material
- N 7/242 ••• of recording layers
- N 7/243 •••• comprising inorganic material only, e.g. ablative layers
- N 7/244 •••• comprising organic material only
- N 7/245 ••••• containing a polymeric component
- N 7/246 ••••• containing dyes
- N 7/247 ••••• methine or polymethine dyes
- N 7/248 ••••• porphines, azaporphines, eg phthalocyanines
- N 7/249 ••••• containing organo-metallic compounds (7/246 takes precedence)
- N 7/25 ••••• containing liquid crystals
- N 7/251 •••• comprising inorganic material dispersed in an organic matrix

- N 7/252 ••• of layers other than recording layers
- N 7/253 •••• base layers
- N 7/254 •••• protective topcoat layers
- N 7/256 •••• layers improving adhesion between layers
- N 7/257 •••• layers having properties involved in recording or reproduction, eg optical interference layers, sensitising layers
- N 7/258 •••• reflective layers
- N 7/259 •• structural means, eg covers, for protecting the record carrier or reducing the influence of physical parameters, eg temperature change, moisture, dust, on the record carrier (protective topcoat layers 7/254; containers 23/02)

Melvyn K Rees

EXCERPT FROM DOCUMENT IPC/WG/2/3/
EXTRAIT DU DOCUMENT IPC/WG/2/3

Project C 404 (electrical) – Comments were invited on the rapporteur report (see Annex 16 to the project file), in particular on the applicability of multi-aspect classification in the area in question.

Projet C 404 (électricité) – Des observations ont été demandées sur le rapport du rapporteur (voir l'annexe 16 du dossier de projet), en particulier sur la possibilité d'appliquer un classement selon plusieurs aspects dans le domaine en question.

UK Patent Office**Date: 2 March 2000**

Comments on Project C404/97, Subclass G11B

WG have invited comments on the rapporteur report, particularly in regard to the use of multi-aspect classification.

We consider that multi-aspect classification should be adopted for subgroups 7/253 to 7/258; the titles of these marks must always be read under the hierarchically superior title of group 7/24, these subgroups will only be applied when the record carrier is characterised by the selection of the material or by the structure or form. We consider that a note of the form proposed in RR (annex 16) will make it clear when multi-aspect classification should be applied.

We have considered CA's views (annex 11), and note that classification serves two purposes, 1) the classification of published patent documents to enable search to be carried out effectively and efficiently, and 2) the allocation of patent applications (by for example the Canadian Intellectual Property Office) to the appropriate examiner. GB considers that the benefits of shorter search and more narrowly designed files of patent documents will outweigh any disadvantage to those IP Offices using the IPC for allocation; the major effort in searching patent applications is devoted to the search itself.

We consider that the titles for subgroups 7/247, 7/248 and 7/25 proposed in RR (annex 16) are clear and should be adopted.

Melvyn Rees

Project: C 404 Subclass: G11B

Re: IPC/WG/2/3, paragraph 16

Comments have been invited on the Rapporteur report (see Annex 16 to the project file), in particular on the applicability of multi-aspect classification in the area in question.

1. We agree on the proposal that multiple classification be adopted with a note indicating this after the subclass title.
2. We agree with the new subdivisions proposed by the Rapporteur, with the exception however of group 7/259, because at IPC/WG/1 (June 99), it already had been decided not to adopt this group.

P. Foglia

OFICIUL DE STAT PENTRU RO COMMENTS Date: March 2000
INVENȚII ÎN M{ RCI Page: 1 of 1

PROJECT C 404

CLASS/SUBCLASS G011B

In our last comments we favoured to adopt multiple classification for subgroups G11B 7/253 to G11B 7/258.

L. Cojocaru

UK Patent Office
Date: 11 May 2000

Rapporteur Report on Project C404/97, Subclass G11B

This project is based on a GB proposal (annex 1) to subdivide further G11B 7/24 as modified in the last RR (annex 16). The last Working Group (annex 17) invited comments on the RR, particularly on whether multi-aspect classification should be adopted. R proposes that annex 9 (as modified by annex 16) be adopted as the working document.

Comments were invited by WG and have been received from EP, GB and RO (comments from DE (annex 21) do not relate to this project and have not been considered) on the following points:

! *whether multi-aspect classification should be adopted*

All agree that multi-aspect classification should be adopted in this area; EP has called for a note to indicate this after the subclass title. ***R agrees with this.***

! *on 7/259*

EP points out that it was decided at IPC/WG/1 not to adopt subgroup 7/259. ***R goes along with this.***

! *whether 7/251 to 7/258 should be adopted (re CA comments (annex 11))*

GB is of the view that creation of these subgroups would increase search effectiveness and efficiency, this outweighing increased difficulty in assigning cases to examiners. ***R agrees to this.***

! *on titles of subgroups 7/247, 7/248 and 7/25*

GB considers that the titles of the above subgroups are clear. ***R agrees with this.***

Rapporteur's Recommendations

The following point should be considered at Revision Working Group No 3, taking into account the modified proposal (subgroup 7/259 has been deleted):

! the adoption of multi-aspect classification for subgroups 7/253 to 7/258 and related note

Modified Proposal

N Note - - - relatively to the record carrier

(3) In this subclass multiple classification should be applied for the following

subgroups:

- 7/253 to 7/258 should be applied as multi-aspect classification, so that if an invention is characterised by aspects covered by more than one of these subgroups then the subject matter should be in classified in each of those subgroups.

- N 7/241 \$ \$ characterised by the selection of the material
- N 7/242 \$ \$ \$ of recording layers
- N 7/243 \$ \$ \$ \$ comprising inorganic material only, e.g. ablative layers
- N 7/244 \$ \$ \$ \$ comprising organic material only
- N 7/245 \$ \$ \$ \$ \$ containing a polymeric component
- N 7/246 \$ \$ \$ \$ \$ containing dyes
- N 7/247 \$ \$ \$ \$ \$ \$ methine or polymethine dyes
- N 7/248 \$ \$ \$ \$ \$ \$ porphines, azaporphines, eg phthalocyanines
- N 7/249 \$ \$ \$ \$ \$ containing organo-metallic compounds (7/246 takes precedence)
- N 7/25 \$ \$ \$ \$ \$ containing liquid crystals
- N 7/251 \$ \$ \$ \$ comprising inorganic material dispersed in an organic matrix
- N 7/252 \$ \$ \$ of layers other than recording layers
- N 7/253 \$ \$ \$ \$ base layers
- N 7/254 \$ \$ \$ \$ protective topcoat layers
- N 7/256 \$ \$ \$ \$ layers improving adhesion between layers
- N 7/257 \$ \$ \$ \$ layers having properties involved in recording or reproduction, eg optical interference layers, sensitising layers
- N 7/258 \$ \$ \$ \$ reflective layers

Melvyn Rees



IPC/C 406/97 Rev.2
ORIGINAL: English/French
DATE: April 28, 2000

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

COMMITTEE OF EXPERTS OF THE IPC UNION
COMITÉ D' EXPERTS DEL' UNION DEL' IPC

IPC REVISION PROJECT FILE/ DOSSIER DE PROJET DE RÉVISION DE LA CIB

PROPOSAL BY: PROPOSITION DE :	EP	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	G 11 C
KIND OF REVISION: TYPE DE RÉVISION :	Creation of subgroups Création de sous-groupes		

ANNEX/ ANNEXE	CONTENT/CONTENU		SEE/VOIR C 406/97	ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal	/ Demande de révision avec proposition détaillée		EP	06.01.97
2	Comments	/ Observations		DE	08.98
3	Comments	/ Observations		EP	08.98
4	Comments	/ Observations		JP	08.98
5	Rapporteur report	/ Rapport du rapporteur		EP	02.99
6	Rapporteur proposal	/ Proposition du rapporteur		EP	02.99
7	Comments	/ Observations	Rev.1	JP	07.99
8	Decision of the Working Group	/ Décision du groupe de travail	Rev.2	WG	12.99
9	Comments	/ Observations	Rev.2	EP	03.00
10	Comments	/ Observations	Rev.2	CA	03.00
11	Comments	/ Observations	Rev.2	SE	03.00
12	Comments	/ Observations	Rev.2	RO	03.00
13	Comments	/ Observations	Rev.2	DE	04.00
14	Rapporteur report	/ Rapport du rapporteur	Rev.2	EP	04.00

RAPPORTEUR : EP

TECHNICAL FIELD/DOMAINE TECHNIQUE : E

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 406/97	ORIGIN/ ORIGINE	DATE
15	Rapporteur proposal / Proposition du rapporteur	Rev.2	EP	04.00

EXCERPT FROM DOCUMENT IPC/WG/2/3/
EXTRAIT DU DOCUMENT IPC/WG/2/3

Project C 406 (electrical) – Comments were invited on the rapporteur report (see Annex 6 to the project file).

Projet C 406 (électricité) – Des observations ont été demandées sur le rapport du rapporteur (voir l'annexe 6 du dossier de projet).



EUROPEAN PATENT OFFICE
Principal Directorate Documentation

Comments
8 March 2000

Project: C 406 Subclass: G11C

Re: IPC/WG/2/3, paragraph 16

Comments have been invited on the Rapporteur report.

We agree with the Rapporteur report, however we propose a small correction: in group 29/44 the term "Arrangement" should be replaced by "Arrangements".

P. Foglia

CA COMMENTS	
IPC Project: C406/97	Date: March 9, 2000
Class \ Subclass: G11C	Page 1 of 1

Since our file size is small for this art, we will offer no comments.

John Dowding

Swedish Patent and Registration Office

IPC Revision Project C 406, subclass G11C

March 11th, 2000

COMMENTS relating to Annex 8

Comments were invited on the rapporteur report (see Annex 6 to the project file)

In general we support the proposal, but the wording appears incomplete in some cases. We have some detail for the wording of different entries and examples:

29/00	We propose adding a third part: - - - <i>standby operation; Testing stores off line (testing - - -</i>
29/02	What does the example exemplify? Should it say " <i>e.g. by/using refresh counters</i> "?
29/04	What does the example exemplify? We do not understand the connection between the example and the title
29/06	Plurals missing, better to use "or" before last example: - - - <i>e.g. tests during - - - self tests (POST) or distributed - - -</i>
29/08	Does the acronym "MScan" need an explanation?
29/16	Should it say " <i>; Devices for accessing memories - - -</i> "
29/20	What does the example exemplify? Should it say " <i>e.g. dummy cells, redundant cells</i> "?
29/24	Should it say " <i>e.g. multi-bit arrays</i> "?
29/38	Should it say " <i>- - - parity codes or - - -</i> "?
29/44	What do the examples exemplify? Should the first example say " <i>e.g. using direct memory access (DMA)</i> "? The second example relating to "access paths" appears to need elaborating, but we have no proposal.
29/74	We are not sure what the word "design" means – does it mean "adaptation"? Should it say " <i>Design of test tools</i> " instead?
29/80	Is "test interfaces" an example or a second part of the title?

Anders Bruun

**OFICIUL DE STAT PENTRU
INVENȚII ÎN M{ RCI**

RO COMMENTS

Date: March 2000

Page: 1 of 1

PROJECT C 406

CLASS/SUBCLASS G11C

We agree with the EP proposed scheme for introducing subdivisions under main group G11C 29/00. We are in favour of the wording of subgroups as proposed by the Rapporteur (Annex 6 to the project file) and we support the JP proposal of adding a new subgroup G11C 29/05 for documents concerning the acceleration tests.

L. Cojocaru

Deutsches Patent- und Markenamt German Patent and Trademark Office	Class/Subcl.: G11C
	Date : 13. April 2000
DE - Comments — C 406	

Re:

Comments were invited on the Rapporteur Report (see Annex 6 to the project file)

On the whole we support the proposal. However we have some problems with the proposed wording of some examples:

29/06 The abbreviation " POST" seems to be not very usual. We think " BIST (Built-In-Self-Test)" would be more usual.

29/08 " Mscan" seems to need an explanation. Anyhow we would prefer a replacement by or an addition of " Hamming Code" which would be more convenient to this topic.

29/04; 29/14 We are not sure what " timing of test signals" and " state machines" will embrace.

29/20 It should be clarified what is meant by the terms " dummy" and " redundant" . Are the examples directed to " dummy cells" and redundant cells" ?

Böhm-Wirt

Project: C 406 Subclass: G11C

This project concerns and EP proposal for introducing subdivisions under main group G11C29/00 because of considerable file size and growth.

Comments have been received from DE, EP, JP, RO and SE.

All commenting Offices support the proposal.

In addition, suggestions have been submitted in order to clarify the titles of various groups.

Also, JP proposed to create a group for 'acceleration testing', supported in this by RO.

Detailed discussion

Most of the proposed suggestions have been introduced in the scheme for the sake of improvement.

Some modifications however seems to need a detailed motivation.

29/02 ---, e.g. *defective* refresh counter

As shown in the example documents cited for this group (see Annex 1 to the project file), refresh counters are among the typical auxiliary circuits that can be subject to test. Rapporteur proposes the addition of the word *defective* in order to improve clarity of this title.

29/04

Doubts were raised on the logical connection between examples and title of this group. Rapporteur agrees on this point and suggests to take said examples away.

29/06

It does not seem advisable to Rapporteur to follow the suggestion of DE to introduce "BIST" as an example in group 29/06, since a subgroup thereof - 29/10 - appears to cover this subject matter.

29/08

DE proposes the addition of "Hamming Code" to the cited examples. At present, Rapporteur does not see the relation of this example with the concerned title.

Also, it was suggested that the wording of the examples was rather incomplete, referring only to "MScan, checkerboard". In order to clarify the examples, Rapporteur investigated in the concerned technical literature (G11C29/00), thereby arriving at the proposed modification.

29/14

DE expressed some perplexities on the use of the wording "state machines" in the example.

Considering that such a wording corresponds to a well established terminology in the field of micro control logic, Rapporteur proposes to leave it as it is.

29/44

The wording "access paths" as second example for this group was deemed not sufficiently clear. In order to clarify the meaning of this wording, Rapporteur examined the example documents cited

for this group (see Annex 1 to the project file). It seems, to Rapporteur that the paths referred to in this case should refer to paths other than the main (or direct) one, and specifically used or adapted for testing purposes. This is the basis for Rapporteur's proposed modification of the wording.

29/74

In order to clarify the rather laconic original title, Rapporteur took the initiative not only to check the example document cited for this group, but also to search into the related technical documentation (G11C29/00). There, many documents can be found concerning design techniques for test circuits, and the subject matter of these documents seems to be the intended scope for the group 29/74.

As a matter of fact, the wording "design for test" and its corresponding acronym (DFT) appear rather frequently in the concerned literature. Hence, Rapporteur proposes to modify the title of group 29/74 into "Design of test circuits", adding the originally proposed "design for test" and the corresponding acronym as example.

Also, Rapporteur proposes the addition of a reference in group G06F17/50 to group 29/74 in view of the diffused use of computer-aided tools for the design of this kind of test circuitry found in the G11C29/00 literature.

29/80

In order to make it clear that "interfaces" should not be considered as an example, Rapporteur proposes to have a two-part title, the second part of it concerning the interfaces for the memory tester equipment referred to in the first part of the title.

Rapporteur's recommendations

The above-mentioned suggestions have been incorporated in the accompanying Rapporteur modified proposal. Rapporteur suggests that this proposal be used as a basis for discussion at IPC/WG/3.

P. Foglia

**Project: C 406****Subclass: G11C**

- C 29/00 Checking stores for correct operation; Testing stores during standby or off line operation (testing of electronic circuits in general G01R 31/28; error detection or error correction in computers during normal operation G06F 11/00; testing of computers during standby G06F 11/22)
- N 29/02 § Detection or location of defective auxiliary circuits, e.g. defective refresh counter
- N 29/04 § Detection or location of defective memory elements
- N 29/05 § § Acceleration testing
- N 29/06 § § Functional testing, e.g. testing during refresh, power-on self testing (POST) or distributed testing
- N 29/08 § § § Test algorithms or patterns, e.g. memory scan (MScan) algorithm, checkerboard pattern
- N 29/10 § § § Built-in arrangements for testing, e.g. interconnection details
- N 29/12 § § § § Control logic implementation, e.g. test mode decoders
- N 29/14 § § § § § using microprogrammed units, e.g. state machines
- N 29/16 § § § § Address generation devices; Devices for accessing memories, e.g. addressing circuits details
- N 29/18 § § § § § using counters or linear-feedback shift registers (LFSR)
- N 29/19 § § § § § Accessing serial memories
- N 29/20 § § § § § Accessing extra cells, e.g. dummy cells, redundant cells

- N 29/22 \$ \$ \$ \$ \$ Accessing multiple arrays (29/20 takes precedence)
- N 29/24 \$ \$ \$ \$ \$ \$ Dependent multiple arrays, e.g. multi-bit arrays
- N 29/26 \$ \$ \$ \$ \$ Accessing single arrays
- N 29/28 \$ \$ \$ \$ \$ \$ Serial access; Scan testing
- N 29/30 \$ \$ \$ \$ \$ \$ Accessing multiple bits simultaneously
- N 29/32 \$ \$ \$ \$ Data generation devices, e.g. data inverters
- N 29/34 \$ \$ \$ \$ Response verification devices
- N 29/36 \$ \$ \$ \$ \$ using compression techniques
- N 29/38 \$ \$ \$ \$ \$ using parity or error correcting codes (ECC)
- N 29/40 \$ \$ \$ \$ Indication or identification of errors, e.g. for repair
- N 29/42 \$ \$ \$ \$ Test trigger logic
- N 29/44 \$ \$ \$ Arrangements allowing testing with means external to the memory,
 e.g. using direct memory access (DMA), using auxiliary access
 paths (29/80 takes precedence)
- N 29/50 \$ \$ Marginal testing, e.g. race, voltage, current testing
- N 29/70 \$ Memory contents protection; Detection of contents errors
- N 29/74 \$ Design of test circuits, e.g. design for test (DFT) tools
- N 29/80 \$ Memory tester equipment, e.g. automatic test equipment (ATE);
 Interfaces therefor
- C G06F17/50 \$ Computer-aided design (for the design of test circuits, G11C29/74)



IPC/C 408/97 Rev.2
ORIGINAL: English/French
DATE: March 27, 2000

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

IPC REVISION PROJECT FILE/ DOSSIER DE PROJET DE RÉVISION DE LA CIB

PROPOSAL BY: PROPOSITION DE :	DE	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	H 01 L
KIND OF REVISION: TYPE DE RÉVISION :	Creation of subgroups Création de sous-groupes		

ANNEX/ ANNEXE	CONTENT/CONTENU		SEE/VOIR C 408/97	ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal	/ Demande de révision avec proposition détaillée		DE	04.02.97
2	Comments	/ Observations		SE	08.98
3	Comments	/ Observations		JP	08.98
4	Comments	/ Observations		CA	08.98
5	Comments	/ Observations		EP	08.98
6	Comments	/ Observations		US	08.98
7	Comments	/ Observations		FR	08.98
8	Comments	/ Observations		GB	08.98
9	Comments	/ Observations		JP	08.98
10	Rapporteur report	/ Rapport du rapporteur	Rev.1	NO	05.99
11	Comments	/ Observations	Rev.2	JP	03.00

RAPPORTEUR : NO

TECHNICAL FIELD/DOMAINE TECHNIQUE : E

Japanese Patent Office

10 march 2000

Project: **C-408**

Subclass: H01L

The fragmentation has been already taken place concerning apparatus for handling or transporting of semiconductor wafers during manufacturing:

B65G 49/07 conveying systems for semiconductor wafers

H01L 21/68 apparatus for supporting or positioning semiconductor wafers during manufacturing

B65D carriers or containers for transport of materials, etc.

The scope of B65G 49/07 could be broadened to include "handling", an upper concept of "conveying" or "transporting". However, if "handling with chucks" could be included into 49/07, it would be too much broad interpretation of 49/07. Besides, it is not a desirable classification scheme where supporting or positioning is covered in H01L, carriers or containers in B65D, while handling is covered by B65G 49/07. Because "handling" could contain "conveying", "supporting", "carriers" and "containers" altogether. It is fully understood that it is necessary to collect them into one subgroup to classify.

Therefore, we propose to create new subgroups for apparatus for handling in H01L as follows:

- H01L 21/67 • apparatus for handling components during manufacture
- H01L 21/68 • specially for supporting or positioning
- H01L 21/682 • using chucks (H01L 21/682 takes precedence over H01L 21/68)
- H01L 21/684 • using carriers and containers



IPC/C 410/97 Rev.2
ORIGINAL: English/French
DATE: April 28, 2000

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

IPC REVISION PROJECT FILE/ DOSSIER DE PROJET DE RÉVISION DE LA CIB

PROPOSAL BY: PROPOSITION DE :	DE	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	H 02 P
KIND OF REVISION: TYPE DE RÉVISION :	Creation of subgroups Création de sous-groupes		

ANNEX/ ANNEXE	CONTENT/CONTENU		SEE/VOIR C 410/97	ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal	/ Demande de révision avec proposition détaillée		DE	10.02.97
2	Comments	/ Observations		EP	08.98
3	Counter-proposal	/ Contre-proposition		EP	08.98
4	Comments	/ Observations		SE	08.98
5	Comments	/ Observations		JP	08.98
6	Comments	/ Observations		CA	08.98
7	Comments	/ Observations		FR	08.98
8	Comments	/ Observations		GB	08.98
9	Comments	/ Observations		DE	05.99
10	Proposal	/ Proposition		DE	05.99
11	Rapporteur report	/ Rapport du rapporteur		DE	05.99
12	Comments	/ Observations	Rev.1	JP	07.99
13	Decision of the Working Group	/ Décision du groupe de travail	Rev.1	WG	07.99
14	Rapporteur report	/ Rapport du rapporteur	Rev.1	DE	10.99

RAPPORTEUR : DE TECHNICAL FIELD/DOMAINE TECHNIQUE : E

ANNEX/ ANNEXE	CONTENT/CONTENU	SEE/VOIR C 410/97	ORIGIN/ ORIGINE	DATE
15	Rapporteur report / Rapport du rapporteur	Rev.1	DE	10.99
16	Rapporteur proposal / Proposition du rapporteur	Rev.1	DE	10.99
17	Comments / Observations	Rev.1	RO	10.99
18	Comments / Observations	Rev.1	EP	11.99
19	Decision of the Working Group / Décision du groupe de travail	Rev.2	WG	12.99
20	Comments / Observations	Rev.2	GB	03.00
21	Comments / Observations	Rev.2	EP	03.00
22	Comments / Observations	Rev.2	JP	03.00
23	Comments / Observations	Rev.2	CA	03.00
24	Comments / Observations	Rev.2	SE	03.00
25	Comments / Observations	Rev.2	RO	03.00
26	Comments / Observations	Rev.2	DE	04.00
27	Rapporteur report / Rapport du rapporteur	Rev.2	DE	04.00
28	Rapporteur proposal / Proposition du rapporteur	Rev.2	DE	04.00
29	Rapporteur proposal / Proposition du rapporteur	Rev.2	DE	04.00

EXCERPT FROM DOCUMENT IPC/WG/2/3/
EXTRAIT DU DOCUMENT IPC/WG/2/3

Project C 410 (electrical) – Comments were invited on the rapporteur report and the Rapporteur's proposal (see Annexes 15 and 16, respectively, to the project file), especially on the proposed notes, in the light of the comments from the EPO (see Annex 18 to the project file).

Projet C 410 (électricité) – Des observations ont été demandées sur le rapport du rapporteur et sur la proposition de celui-ci (voir les annexes 15 et 16, respectivement, du dossier de projet), en particulier sur les notes proposées, eu égard aux observations de l'OEB (voir l'annexe 18 du dossier de projet).

UK Patent Office**Date: 6 March 2000**

Comments on Project C410/97, Subclass H02P

WG invited comments on the latest rapporteurs' report and proposal (annexes 15 and 16) with reference to the EP comments on it (annex 18).

Multi-aspect classification

GB supports the general recasting of the H02P proposal (annex 16) as multi-aspect classification by DE, and agree that multi-aspect classification is particularly suited to the nature of motor control subject matter.

DE have proposed notes under the titles of groups 23/00 and 25/00 to indicate that multi-aspect classification is to be used, but group 21/00 is also involved. GB considers it would be better if a note were to be placed above the title of group 21/00 indicating where multi-aspect classification is made.

Group 25/00 vs 21/00, 23/54

We agree with EP that group 25/00 will be confusing for classifiers, the control of ac motors (if the proposal is adopted) will then be split in three, that is, 21/00, 23/54 and 25/00. The distinction between **A**special@ and **A**general@ methods/principles of controlling ac motors is very small and this will result in incorrect assignment of IPC symbols. Moreover the subgroups 25/02 to 25/06 are of a different nature to the other subgroups, these are essentially indexing type terms (equally applicable to ac and dc motors) and more thought needs to be given to how this valuable information should be recorded.

GB supports the generality of the EP proposed amendment to group 23/54, and below makes a suggestion of how group 23/54 should now read.

We do not support the note under 25/00, and consider that it should not be implemented (say under 23/54).

Title, Note of 23/00

The title of 23/00 is too narrowly drawn in view of the subject matter now to be classified there; methods as well as arrangements for control of ac motors are included.

Group 21/00

GB supports the EP proposed amendment of 21/00

GB suggestion regarding group the proposed amendment

- N **Note:** **Multi-aspect classification is to be applied amongst groups 21/00 to 21/14 and 23/54 to 23/88**
- C **21/00** **Arrangements for controlling electric motors by field orientation; Vector control**
- .
- .
- N 23/00 **Arrangements and methods for the control of ac-motors** (6/00 and 8/00 take precedence)
- .
- .
- N 23/54 . characterized by the methods of motor control used (vector- or field-oriented control 21/00)
- N 23/64 . . by adding a dc current (dc current braking 3/24)
- N 23/68 . . with a given slip frequency, e.g. adding slip frequency and speed proportional frequency
- N 23/70 . . Running the motor in four quadrants
- N 23/72 . . Damping motor oscillations, eg reducing hunting
- N 23/76 . . Estimation of motor parameters e.g. rotor time constant flux, speed, current or voltage
- N 23/78 . . Observer control, eg Luenburger observer, Kalman filter
- N 23/88 . . optimising the efficiency at low load

Melvyn Rees

Project: C 410 Subclass: H02P

Re: IPC/WG/2/3, par. 16

Comments have been invited on the Rapporteur report and proposal (see Annexes 15 and 16 to the project file), especially on the proposed notes, in the light of the comments from the EPO (see Annex 18 to the project file).

On the whole, we maintain the opinions expressed in our last comments dated 25.10.1999 (see Annex 18 to the project file). Shortly:

Structure of the subdivisions of proposed main group 21/00.

According to our experts, there are presently two important methods for implementing field orientation control: stator and rotor flux based. We feel that the balance of the scheme would be improved by introducing a one dot subdivision for each of them. Furthermore, the hierarchy of proposed groups 21/06 and 21/10 of the Rapporteur report (see Annex 16 to the project file) seems not to be correct. Estimation is one of the methods used in order to achieve adaptation of motor parameters, thus the "adaptation" group should have one dot, with the "estimation" group as a subdivision thereof (see Annex 18 to the project file).

Additional subdivisions under proposed main group 21/00.

We would like a few additional subdivisions to be introduced under main group 21/00, respectively for a group for direct field-oriented control, a group for flux estimation, and separate entries for "starting" and for "stopping" under the proposed group for very low speed arrangements.

Usefulness of proposed main group 25/00.

We are not in favour of retaining proposed groups 25/02, 25/06 and 25/08, nor of creating corresponding subdivisions thereof under group 23/54.

We expect that considerable difficulties would arise for classifiers to distinguish between "special methods for the motor control" (to be classified in proposed group 23/54 or its subdivisions) and "General principles for controlling ac-motors" (to be classified in proposed groups 25/00 to 25/14). Instead of introducing this main group, additional subdivisions of 23/54 could be introduced corresponding to proposed groups 25/04 and 25/10 to 25/14.

Note to 23/00

This note seems to be superfluous because the concerned group sets refer to quite distinct aspects.

Indeed, groups 23/02 to 23/52 relate to *what* is controlled (the kind of motor, kind of wiring, kind of supply voltage), whereas groups 21/00 and 23/54 concern *how* it is controlled (respectively motor control by field orientation and by special methods).

Documents containing these different aspects should necessarily be classified in said respective groups despite the absence of such a note.

Note to 25/00

We deem this note superfluous, also in the light of our previous comments on the main group. Indeed, the mere presence of a note, valid for a whole main group, and imperatively prescribing additional classification elsewhere for all documents classified therein casts, in our view, serious doubts on the very need or usefulness of that main group.

As a consequence of the above, we consider it unadvisable to adopt the proposed note, as well as proposed main group 25/00 for that matter.

P. Foglia

Japanese Patent Office

10 march 2000

Project: **C-410** Subclass: H02P

We support the notes as proposed.

CA COMMENTS	
IPC Project: C410/97	Date: March 7, 2000
Class \ Subclass: H02P	Page 1 of 1

With regard to main group 25/00, **CA** is in agreement with **EP**, in that this subject matter should be included as further subdivisions of group 23/54. Their proposed schedule in Annex 18 is what we would prefer. The remainder of the Rapporteur proposal of Annex 16 is acceptable.

With this change, the note in 25/00 will not be necessary and the note in 23/00 will remain appropriate.

John Dowding

Swedish Patent and Registration Office

IPC Revision Project C 410, subclass H02P

March 10th, 2000

COMMENTS (relating to Annex 19)

Comments were invited on the rapporteur report and the Rapporteur's proposal (see Annexes 15 and 16, respectively, to the project file), especially on the proposed notes, in the light of the comments from the EPO (see Annex 18 to the project file).

In general, we support the comments by EP in Annex 18. We have the following detailed comments:

21/00			EP version preferable
21/01 – 21/03	Annex 18	+	
21/04		+	
21/05 – 21/08	A18	+	
21/10	A16	-	
21/12		x	We propose "specially adapted for very low speeds"
21/127	A18	x	We propose "for starting"
21/132	A18	x	We propose "for stopping"
21/14		x	This appears to be a very narrow coverage – could it be improved?
23/00			<p>The relationship between 23/00 and 21/00 is difficult - there is a lot of overlap and all of it is not useful. The note proposed in A16 is not sufficient – it only solves the problems between 21/00 and the subgroups of 23/00. It appears that a reference at main group level is necessary, but it is difficult to find solutions that do not point in both ways. We propose putting the note in 21/00 instead:</p> <p>21/00 - - - ; Vector control</p> <p>Note If an ac motor control arrangement classified in this group is also characterised by features covered by groups 23/02 – 23/52, classification should also be made in these groups.</p> <p>23/00 - - - 8/00 take precedence; arrangements characterised by features relating to controlling by field orientation or vector control 21/00)</p> <p>The part of the proposed note relating to multiple classification within 23/00 appears unnecessary, since the different one-dot groups start by "characterised by - - -".</p>

Note after 23/00		-	
23/02		+	
23/04 – 23/10		x	The titles should start with capital letters
23/12		x	The title does not read well on the 23/10 title – is " <i>Controlling by shifting the brushes of commutator motors</i> " better?
23/14		x	The title of this group is unclear and does not clearly cover its subgroups – is some part of the title missing? "Characterised by the kind of wiring" is pretty clear, but "characterised by the configuration" is very wide and obscure. We have no suggestions, but the title must be improved.
23/16		x	The title does not read well on the 23/14 title – is " <i>Controlling by switching - - -</i> " better?
23/18		+	
23/20		x	The second part of the title appears not to be covered by the 23/14 title
23/22 – 23/30		x	Not covered by the 23/14 title
23/31		x	Should a reference to 23/64 (and 25/08) be added, since this group also deals with supply voltage?
23/32 – 23/48		+	
23/50		x	Half waves
23/52		+	
23/54		x	The reference is not necessary if it is moved to 23/00. The order of the subgroups should be improved.
23/60	A18	-	Not covered by 23/54 – not a special method
23/64	A18	+	
23/68	A18	x	Does not read well together with the 23/54 title, but we have no suggestions.
23/70	A18	+	
23/72	A18	-	Not covered by 23/54 – not a special method
23/76	A18	+	
23/78	A18	x	The examples do not read well together with the title – should they say "using Luenburger - - -" etc.?
23/88	A18	x	See comment on 21/14!

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INVENȚII ÎN M{ RCI**

RO COMMENTS

Date: March 2000

Page: 1 of 1

PROJECT C410

CLASS/SUBCLASS H02P

In our last comments we favoured to the proposal by DE and we support the improved proposal by EP to separate entries for **Astarting@** and for **Astopping@** under the proposed group for very low speed arrangements.

L. Cojocaru

DEUTSCHES PATENT- UND MARKENAMT German Patent and Trademark Office	Class/Subclass: H 02 P
	Date: 28. March 2000
DE - Comment -- C 410	

#WG invited comments on the latest rapporteur report and the Rapporteur' s proposal (annexes 15 and 16), especially on the proposed notes, in the light of the comments from the EPO (annex 18)#

DE supports the general line of the rapporteur proposal (annex 16). The introduction of the possibility of multi-aspect classification seems to be a large progress compared to the original proposal.

A further improvement of the proposal could be achieved by combining the methods for the control of an ac-motor, being now split in three places 21/00, 23/54 and 25/00, into one maingroup. This best suited place is obviously maingroup 23/00.

This modified maingroup 23/00 should start with a first note emphasizing the multi-aspect classification in this classification area. A second note could specify some groups which should be used by preference.

DE thinks the hierarchy of 21/06 and 21/10 (annex 16) to be correct, because an adaption (21/10) of motor parameters requires a forgoing estimation of these parameters (21/06). Therefore we disagree with the hierarchy of groups 21/05, 21,06 and 21/08 (annex 18) as proposed by EP.

EP proposed groups 21/127 "arrangements for starting" and 21/133 "arrangements for stopping" in annex 18. DE does not support these groups since we expect overlap problems to maingroups 1/00 and 3/00, concerned with starting and stopping of electric motors.

Furthermore we believe that the group 23/60, proposed by EP in annex 18, is not suitable to be a subgroup of 23/54.

Rainer Anders

DEUTSCHES PATENT- UND MARKENAMT German Patent and Trademark Office	Class/Subclass: H 02 P
	Date: 20. April 2000
DE – Rapporteur-Report - C 410	

#WG (annex 19) invited comments on the latest rapporteur report and the Rapporteur' s proposal (annexes 15 and 16), especially on the proposed notes, in the light of the comments from the EPO (annex 18)#

Comments were received by RO (annex 17+25), EP (annex 18+21), GB (annex 20), JP (annex 22), CA (annex 23), SE (annex 24) and DE (annex 26).

EP agree with the general lines of the rapporteur proposal but propose some amendments:

- the subdivision of proposed maingroup 21/00 should be structurally better balanced
- introduction of a few additional subdivisions under proposed maingroup 21/00 would lead to an increase in search efficiency
- they have doubts about the usefulness of proposed maingroup 25/00

EP summarize the above by providing an improved version of maingroup 21/00 and groups 23/54 to 23/88.

RO support in a first comment the improved rapporteur proposal of annex 16 and remark that the new structure will organize the file better. In a second comment RO support the improved proposal by EP to separate entries for "starting" and for "stopping" under the proposed group for very low speed arrangements.

GB support the general recasting of the H02P proposal (annex 16) as multi-aspect classification and agree that multi-aspect classification is particularly suited to the nature of motor control subject matter.

GB agree with EP that group 25/00 will be confusing for classifiers and is against splitting the control of ac-motors in three IPC-places 21/00, 23/54 and 25/00. Suggestions are made for the wording of the note concerning multi-aspect classification and for the title of group 23/00 and 23/54 to 23/88.

JP support the notes as proposed.

CA disagree with maingroup 25/00 and prefer subdivision of 23/54 as proposed by EP. The remainder of the rapporteur proposal is acceptable for CA.

SE in general support the comments by EP in annex 18. Furthermore a lot of detailed comments are provided to the titles and contents of groups proposed in annex 16 and annex 18.

DE support the general line of the rapporteur proposal introducing now the possibility of multi-aspect classification. DE is not happy with the split of the specific control methods in three different maingroups, namely 21/00, 23/54 to 23/88 and 25/00. They propose to combine them in one maingroup 23/00.

DE disagree with EP concerning the hierarchy of "estimation" and "adapting" of motor parameters. Furthermore DE suspect overlap of the EP-proposed groups 21/127 and 21/133 for starting and stopping arrangements with the existing groups 1/00 and 3/00.

Rapporteur tries to incorporate **all proposed improvements** into the new rapporteur proposal(s).

Rapporteur notes a general rejection of proposed main group 25/00 by most commenting offices. This seems to originate from the split of subject matter 'how the ac-motor control is done' in the three main groups 21/00, 23/00 and 25/00. Rapporteur could offer two possibilities to bring subject matter together which belong together:

- A) all subject matter with ac-motor control (*vector control* or not) are combined in one main group 23/00. See appended rapporteur proposal, version A.
- B) all subject matter with *vector control* (ac-motor or not) are combined in one main group 21/00. See appended rapporteur proposal, version B.

Rapporteur invites WG to discuss on version A and B of rapporteur proposal and decide which of both could be the base for further progress in this project. Rapporteur personally prefers version A because it seems to be easier usable for the classifier.

A wording of the note(s) concerning multiple classification is proposed in the comments of GB and SE. Rapporteur uses the GB-proposed title and invites WG to discuss this.

Estimation and adaptation, respectively, of motor parameters are transferred in *one* group (23/95 in version A and 21/06 in version B). This can help to solve the disagreement of EP and DE on the hierarchy of both subject matter, if both have a group for its own.

Group 23/60 (torque control) from the EP proposal is not included in the rapporteur proposal(s) because Rapporteur support the vote of GB, SE and DE against this group.

EP propose two groups 'arrangements for starting' and 'arrangements for stopping' as subgroups of 'specially adapted for very low speeds' (23/96 in version A and 21/12 in version B). DE expects overlap problems to main groups 1/00 and 3/00 concerned with starting and stopping of electric motors. Rapporteur follows DE and invites WG to discuss this.

SE considers whether a reference in between 23/31 and 23/64 were necessary. Rapporteur thinks this to be dispensable because the possible overlap seems to be rather small. Furthermore, if a document were in fact in question between these two entries, following the concept a classification on both places could occur.

The **remaining** tasks of the project will include

- i) adapting the rest of IPC7 main groups 5/00 and 7/00 to the new scheme,
- ii) discussing the need for introducing an index-entry for 'speed control', 'torque control', 'speed- and torque-control' and maybe 'using fuzzy-logic'. These could be applicable not only for ac-motors as already proposed in the GB-comment.

Rainer Anders

- N 23/28 . . using an ac generator to supply the motor, the motor being controlled by a control effected upon the generator
- N 23/30 . . using discharge tubes
- N 23/31 . characterized by the kind of supply voltage
- N 23/32 . . using supply voltage with constant frequency and variable amplitude
- N 23/34 . . . of single phase motors, e.g. of capacitor motors (commutator motors 23/10) *[US 5 091 686, US 5 276 392]*
- N 23/36 . . using variable-frequency supply , e.g. inverter or converter supply
- N 23/38 . . . using dc to ac converters or inverters
- N 23/40 with pulse width modulation *[EP358225, EP413966]*
- N 23/42 with bang-bang controllers *[EP 541 253, US 4 306 182]*
- N 23/44 pulsing by guiding the flux-, current-, or voltage-vector on a circle or a closed curve, e.g. direct torque control *[US 4 763 060]*
- N 23/46 with three or more levels *[US 5 155 675, EP 571 755]*
- N 23/48 . . . using ac to ac converters without intermediate conversion to dc
- N 23/50 varying the frequency by omitting half waves *[EP 250 008, EP 311 031, US 4 300 077]*
- N 23/52 . . using ac supply for both rotor and stator circuits, the frequency of supply to a least one circuit being variable
- N 23/54 . characterized by the methods of motor control used (vector- or field-oriented control 23/90)
- N 23/64 . . by adding a dc current (dc current braking 3/24) *[GB 958 231, US 2 847 630, US 3 786 327]*
- N 23/68 . . with a given slip frequency, e.g. adding slip frequency and speed proportional frequency *[US 4 825 131, US 4 723 201, EP 93 929]*
- N 23/70 . . Running the motor in four quadrants *[WO 88/8221, US 4 787 021, GB 2 200 259]*
- N 23/72 . . Damping motor oscillations, e.g. reducing hunting *[EP 174 741, US 4 511 834]*
- N 23/76 . . Estimation of motor parameters e.g. rotor time constant, flux, speed, current or voltage
- N 23/78 . . Observer control, e.g. using Luenberger observer, Kalman filter

[US 4 442 393, EP 680 138]

- N 23/88 . . Optimising the efficiency at low load
[US 4 590 413, EP 615 336, US 4 800 326]

- N 23/90 . characterized by field-orientated methods of motor control,
i.e. vector control

- N 23/91 . . Rotor flux based control

- N 23/92 . . . Indirect field-oriented control, e.g. field phase angle calculation
based on rotor voltage equation by adding slip frequency and speed
proportional frequency *[US 4 818 927, US 4 677 361]*

- N 23/93 . . . Direct field-oriented control

- N 23/94 . . Stator flux based control

- N 23/95 . . Estimation or adaptation of motor parameters, e.g. rotor time
constant, flux, speed, current or voltage
[EP 330 188, EP 436 138]
[DE 42 35 607, US 5 498 945, EP 47 900]

- N 23/96 . . specially adapted for very low speeds

- N 23/98 . . specially adapted for optimising the efficiency at low load

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H02P

C 21/00 Arrangements and methods for the control of electric motors by field orientation, i.e vector control

Note: Multiple-aspect classification is to be applied amongst this maingroup and other classification places in this subclass, eg groups 23/02 to 23/52 for ac-motors

- N 21/01 . Rotor flux based control
- N 21/02 . . Indirect field-oriented control, e.g. field phase angle calculation based on rotor voltage equation by adding slip frequency and speed proportional frequency *[US 4 818 927, US 4 677 361]*
- N 21/03 . . Direct field-oriented control
- N 21/04 . Stator flux based control
- N 21/06 . Estimation or adaptation of motor parameters, e.g. rotor time constant, flux, speed, current or voltage *[EP 330 188, EP 436 138]*
[DE 42 35 607, US 5 498 945, EP 47 900]
- N 21/12 . specially adapted for very low speeds
- N 21/14 . specially adapted for optimising the efficiency at low load

N 23/00 Arrangements and methods for the control of ac-motors (6/00 and 8/00 takes precedence)

- N Notes:**
- (1) Field-oriented or vector control is classified in maingroup 21/00,**
 - (2) Multi-aspect classification is to be applied amongst maingroup 21/00 and one-dot-groups 23/02, 23/14, 23/31, 23/54 of this maingroup, respectively.**
 - (3) It is desirable, however, to have at least one classification in maingroup 21/00 or within one-dot-group 23/54 of this maingroup.**

- N 23/02 . characterized by the kind of the motor
- N 23/04 . . Single phase motors, e.g. capacitor motors

[US 3 504 255, US 4 117 383]

- N 23/06 . . Linear motors *[US 3 549 966, GB 1 269 159, US 4 013 014]*
- N 23/08 . . Reluctance motors
- N 23/10 . . Commutator motors, e.g. universal motors, repulsion motors
- N 23/12 . . . Controlling by shifting the brushes of a commutator motor
- N 23/14 . characterized by the kind of wiring or circuit arrangement
- N 23/16 . . Switching the windings, e.g. with mechanical switches or relays
[DE 43 35 917, US 5 341 080]
- N 23/18 . . . Pole-changing
- N 23/20 . . Multiple windings or windings for for more than three phases
[US 4 814 964, US 4 743 828]
- N 23/22 . . Variable impedance in stator or rotor circuit
- N 23/24 . . . Controlling secondary impedance
- N 23/26 . . using magnetic devices with controllable degree of saturation, e.g. transducers
- N 23/28 . . using an ac generator to supply the motor, the motor being controlled by a control effected upon the generator
- N 23/30 . . using discharge tubes
- N 23/31 . characterized by the kind of supply voltage
- N 23/32 . . using supply voltage with constant frequency and variable amplitude
- N 23/34 . . . of single phase motors, e.g. of capacitor motors (commutator motors 23/10) *[US 5 091 686, US 5 276 392]*
- N 23/36 . . using variable-frequency supply , e.g. inverter or converter supply
- N 23/38 . . . using dc to ac converters or inverters
- N 23/40 with pulse width modulation *[EP358225, EP413966]*
- N 23/42 with bang-bang controllers *[EP 541 253, US 4 306 182]*
- N 23/44 pulsing by guiding the flux-, current-, or voltage-vector on a circle or a closed curve, e.g. direct torque control
[US 4 763 060]
- N 23/46 with three or more levels *[US 5 155 675, EP 571 755]*

- N 23/48 . . . using ac to ac converters without intermediate conversion to dc
- N 23/50 varying the frequency by omitting half waves
[EP 250 008, EP 311 031, US 4 300 077]
- N 23/52 . . using ac supply for both rotor and stator circuits, the frequency of supply to a least one circuit being variable
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[GB 958 231, US 2 847 630, US 3 786 327]
- N 23/68 . . with a given slip frequency, e.g. adding slip frequency and speed proportional frequency [US 4 825 131, US 4 723 201, EP 93 929]
- N 23/70 . . Running the motor in four quadrants
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- N 23/72 . . Damping motor oscillations, e.g. reducing hunting
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