

**MAINTENANCE PROJECT FILE/
DOSSIER DE PROJET MAINTENANCE**

**CHEMICAL FIELD/
DOMAINE DE LA CHIMIE**



IPC/M 101
ORIGINAL: English/French
DATE: 03.06.2009

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

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

MAINTENANCE PROJECT FILE
DOSSIER DE PROJET MAINTENANCE

PROPOSAL BY : PROPOSITION DE :	WG	IPC AREA: DOMAINE DE LA CIB :	C07B
RAPPORTEUR :	SE	TECHNICAL FIELD : DOMAINE TECHNIQUE :	C

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Working Group decision	Décision du groupe de travail	IB	21.12.2006
2	Rapporteur report	Rapport du rapporteur	SE	28.03.2007
3	Rapporteur proposal	Proposition du rapporteur	SE	28.03.2007
4	Comments	Observations	US	30.03.2007
5	Comments	Observations	EP	02.04.2007
6	Comments	Observations	JP	12.04.2007
7	Comments	Observations	RU	02.05.2007
8	Rapporteur report	Rapport du rapporteur	SE	29.05.2007
9	Rapporteur proposal	Proposition du rapporteur	SE	29.05.2007
10	Rapporteur proposal	Proposition du rapporteur	SE	29.05.2007
11	Comments	Observations	JP	05.06.2007
12	Working Group decision	Décision du groupe de travail	IB	11.07.2007
13	Rapporteur report	Rapport du rapporteur	SE	04.10.2007
14	Comments	Observations	US	17.10.2007
15	Comments	Observations	RU	22.10.2007
16	Comments	Observations	DE	23.10.2007
17	Comments	Observations	EP	08.11.2007

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
18	Comments	Observations	JP	21.11.2007
19	Working Group decision	Décision du groupe de travail	IB	14.01.2008
20	Rapporteur report	Rapport du rapporteur	SE	13.05.2008
21	Comments	Observations	US	17.07.2008
22	Comments	Observations	EP	04.09.2008
23	Comments	Observations	GB	08.10.2008
24	Rapporteur report	Rapport du rapporteur	SE	14.11.2008
25	Working Group decision	Décision du groupe de travail	IB	08.01.2009
26	French version	Version française	FR	14.04.2009

EXCERPT FROM DOCUMENT IPC/WG/21/2
EXTRAIT DU DOCUMENT IPC/WG/21/2

IPC MAINTENANCE

General

1. Discussions were based on compilations of the relevant maintenance project files. The Working Group considered eight pending IPC maintenance projects and approved amendments relating to those projects (see the Technical Annexes to this report relating to maintenance projects). The status of those projects and the list of future actions and deadlines are indicated in Annex III to this report.

IPC Maintenance Projects

2. The Working Group made the following observations with respect to the IPC maintenance projects.

Project M 101 (chemical) – The French version was approved and appears as Technical Annex 111F to this report.

The Rapporteur was invited to submit a proposal for a RCL and the International Bureau to check cross-references.

MAINTENANCE DE LA CIB

Généralités

3. Les délibérations ont eu lieu sur la base de synthèses des dossiers de projet de maintenance correspondants. Le groupe de travail a examiné huit projets de maintenance de la CIB en instance et a approuvé les modifications relatives à ces projets (voir les annexes techniques du présent rapport relatives aux projets de maintenance). L'état d'avancement de ces projets et la liste des mesures à prendre et des délais correspondants font l'objet de l'annexe III du présent rapport.

Projets de maintenance de la CIB

4. Le groupe de travail a formulé les observations ci-après concernant les projets de maintenance de la CIB.

Projet M 101 (chimie) – La version française a été approuvée et fait l'objet de l'annexe technique 111F du présent rapport.

Le rapporteur a été invité à soumettre une proposition de table de concordance et le Bureau international a été prié de vérifier les renvois croisés.

ANNEXE C07B [**Projet-Rapporteur : M101/SE**] <WG21>
109F [Tr.:]

CL M Titre **PROCÉDÉS GÉNÉRAUX DE CHIMIE ORGANIQUE;**
APPAREILS À CET EFFET (télomérisation **C08F**)

1. CL M Note

C07B Dans la présente sous-classe, le groupe fonctionnel déjà présent dans un reste que l'on introduit et qui n'est pas directement impliqué dans la réaction chimique n'est pas considéré comme le groupe fonctionnel formé ou introduit par suite de la réaction chimique. [4]

2. Dans la présente sous-classe, l'expression suivante a la signification ci-dessous indiquée:
 - "séparation" signifie la séparation uniquement dans le cadre de l'isolement de composés organiques. [4]
3. Lors du classement dans la présente sous-classe, un classement dans le groupe **B01D 15/08** est également attribué si de la matière d'intérêt général relative à la chromatographie est concernée. [8]
4. Dans la présente sous-classe, sauf indication contraire, le classement s'effectue à la dernière place appropriée selon le type de réaction utilisé, en fonction de la liaison ou du groupe fonctionnel formés ou introduits par suite de la réaction chimique. [4]

CL	M	Schéma général	
		RÉDUCTION EN GÉNÉRAL	31/00
		OXYDATION EN GÉNÉRAL	33/00
		RÉACTIONS SANS FORMATION NI INTRODUCTION DE GROUPES FONCTIONNELS CONTENANT DES HÉTÉRO-ATOMES	
		Changement dans le type de liaison entre deux atomes de carbone déjà directement liés	35/00
		Formation de nouvelles liaisons carbone-carbone ou coupure de liaisons carbone-carbone existantes	37/00
		RÉACTIONS AVEC FORMATION OU INTRODUCTION DE GROUPES FONCTIONNELS CONTENANT DES HÉTÉRO-ATOMES	
		Halogénéation	39/00
		Groupes contenant de l'oxygène	41/00
		Groupes contenant de l'azote	43/00
		Groupes contenant du soufre	45/00
		Autres groupes	47/00
		RÉACTIONS DE GRIGNARD	49/00
		INTRODUCTION DE GROUPES PROTECTEURS OU ACTIVATEURS NON PRÉVUS DANS LES GROUPES PRÉCÉDENTS	51/00
		SYNTHÈSES ASYMÉTRIQUES	53/00
		RACÉMISATION, INVERSION	55/00
		SÉPARATION, PURIFICATION, STABILISATION, EMPLOI D'ADDITIFS	57/00, 63/00
		INTRODUCTION D'ISOTOPES	59/00
		PRODUCTION DE RADICAUX LIBRES ORGANIQUES	60/00
		AUTRES PROCÉDÉS GÉNÉRAUX	61/00

CL M 57/00 Séparation de composés organiques optiquement actifs

CL N 60/00 Production de radicaux libres organiques

AL D 61/02 (transféré en C07B 60/00)

CL M 63/00 Purification; Séparation spécialement adaptée aux fins
d'isolement des composés organiques (séparation de composés organiques optiquement actifs
C07B 57/00) ; Stabilisation; Emploi d'additifs

Swedish Patent and Registration Office

IPC Maintenance Project M 101, subclass C07B

August 25th, 2009

Proposal for Revision Concordance List

At WG/20 it was decided to delete group C07B 61/02 and transfer its contents to the new main group 60/00. Even though this would formally have bigger consequences, due to the last place rule of the subclass, it was reasoned that 61/02 had previously been used in the manner of a main group rather than as a subgroup of a residual group, and that no intellectual reclassification would be necessary. Therefore we propose the following:

IPC2009.01 source (deleted)	IPC2010.1 destination (new)
C07B 61/02	C07B 60/00

Anders Bruun

<i>WORLD INTELLECTUAL PROPERTY ORGANIZATION</i>	
IPC REVISION WORKING GROUP	
Project: M 101: C07B List of cross references	Date: July, 2009

References affected by revision project M 101 (C07B)

Del. existing group	Ref to this group	Proposed amendment	Comment
C07B 61/02	None		



IPC/M 713
ORIGINAL: English/French
DATE: 18.11.2009

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

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

MAINTENANCE PROJECT FILE
DOSSIER DE PROJET MAINTENANCE

PROPOSAL BY : PROPOSITION DE :	WG	IPC AREA: DOMAINE DE LA CIB :	C10J
RAPPORTEUR :	SE	TECHNICAL FIELD : DOMAINE TECHNIQUE :	C

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Working Group decision	Décision du groupe de travail	IB	07.01.2009
2	Initial Proposal	Proposition Initiale	SE	10.03.2009
3	Comments	Observations	DE	25.03.2009
4	Comments	Observations	GB	25.03.2009
5	Comments	Observations	US	01.04.2009
6	Comments	Observations	EP	15.05.2009
7	Rapporteur report	Rapport du rapporteur	SE	01.06.2009
8	Working Group decision	Décision du groupe de travail	IB	12.08.2009
9	Comments	Observations	DE	09.09.2009
10	Comments	Observations	US	29.09.2009
11	Comments	Observations	EP	16.10.2009

Swedish Patent and Registration Office

IPC Maintenance Project M 713, subclass C10J

June 1st, 2009

Rapporteur Report

(relating to annexes 1-6)

After finalising the definitions for subclass C10J during project D137, WG/20 created a project for amending the title of the subclass. In Annex 2 SE proposed the following title:

"Production of combustible gases containing carbon monoxide from solid carbonaceous materials by reactions involving air or steam (underground gasification of minerals E21B 43/295); Carburetting air or other gases"

Comments have been received from DE, GB, US and EP:

- **DE** basically agree with the proposal, but propose to replace "air" with "oxygen". **EP** also find "air or water" to restrictive.
Rapporteur agrees – the limitation to air was a mistake that R realised immediately after submitting the proposal!
- **GB** are also generally happy about the proposal, but prefer to keep "producer gas, water-gas, synthesis gas" as examples in the title.
Rapporteur agrees that it might be good to have an example or two, but at least "water-gas" appears to be dead technology.
- **US** generally agrees with the initial proposal, but question whether the proposed modifications would lead to a contradiction with groups C10J 3/68 and C10J 3/70, which mention pyrolysis. They wonder if it would be worthwhile to consider rewording the titles of these two groups.
Rapporteur agrees that these groups appear to be misplaced, and further notes that C10J 3/00 contains the reference "(destructive distillation processes C10B)". However, the two groups cover carburetting, and are thus covered by the second part of the subclass title, "Carburetting air or other gases", rather than the first. If something needs to be done to those groups it seems better to move them to main group 1/00 and remove the words "without pyrolysis" from the 1/00 main group title.
- **US** also note that thermal cracking of hydrocarbons is sometimes referred to as pyrolysis and may be conducted in the presence of steam, which means it would appear to be provided for in the proposed reworded title of subclass C10J. **US** think this issue should be reviewed in light of how it is handled in the ongoing definition project D207.
Rapporteur is not sure that thermal cracking would normally lead to gases containing carbon monoxide, but if this is a problem the best solution would probably be to put a limiting reference to C10G in the C10J title.
- **US** further wonder if a class index, similar to that found in for example class C25, would be useful for class C10.
Rapporteur thinks that might be a good idea, but is not in a position to draft one. The question should be discussed by WG/21.
- **EP** does not agree with the restriction to "combustible" gases, since the gases can be used for synthesis.
Rapporteur agrees that the gases can be used for synthesis, but thinks "combustible"

relates to the properties of the gas, rather than the purpose. Furthermore, the title of main group 3/00 is "Production of combustible gases...". Having said that, Rapporteur thinks the word "combustible" is of little use and potentially misleading, so it might well be removed. If this is done in the subclass title it should also be done in the title of main group 3/00.

- **EP** proposes the following alternative wording:
"Production of gases containing carbon monoxide and/or hydrogen from solid carbonaceous materials by gasification; Carburetting air or other gases"
Rapporteur notes that the definitions approved in project D137 only talk about carbon monoxide and do not give hydrogen as an alternative. The "or" is therefore not correct. "Gasification" is defined in the glossary of the definitions as *"a partial oxidation process that converts materials such as coal, biomass or plastic waste into a gaseous mixture of carbon monoxide and hydrogen ... by reacting the raw material at high temperatures with controlled amounts of oxygen and/or steam"*. R thinks it would be better to use a something on these lines, rather than the potentially misleading word "gasification".

Taking all the comments into account, Rapporteur proposes the following modifications:

- Remove "combustible" from the titles of C10J and C10J 3/00
- Use part of the definition of "gasification" in the titles of C10J and C10J 3/00
- Add examples to the title of C10J 3/00
- Move C10J 3/68 and C10J 3/70 to main group C10J 1/00
- Remove "without pyrolysis" from the title of C10J 1/00
- Add precedence references necessitated by the move

Details will be found in the proposal below. WG/21 should also discuss the following issues:

- The relationship between C10J and C10G, and whether a reference to C10G should be introduced
- The need for a class index in C10

Anders Bruun

PROPOSAL

- | | |
|--------------|---|
| C10J | Production of gases containing carbon monoxide and hydrogen from solid carbonaceous materials by partial oxidation processes involving oxygen or steam (underground gasification of minerals E21B 43/295);
Carburetting air or other gases |
| C10J 1/00 | Production of fuel gases by carburetting air or other gases (for internal-combustion engines F02M) |
| C10J 1/16 | . . with solid hydrocarbons (C10J 1/207, C10J 1/213 take precedence) |
| N C10J 1/207 | . Carburetting by pyrolysis of solid carbonaceous material in a fuel bed (C10J 3/66 takes precedence) |
| N C10J 1/213 | . Carburetting by pyrolysis of solid carbonaceous material in a carburettor |
| C10J 1/26 | . . using raised temperatures or pressures (C10J 1/207, C10J 1/213 take precedence) |
| C10J 3/00 | Production of gases containing carbon monoxide and hydrogen, e.g. synthesis gas or town gas, from solid carbonaceous materials by partial oxidation processes involving oxygen or steam |
| D C10J 3/68 | (transferred to C10J 1/207) |
| D C10J 3/70 | (transferred to C10J 1/213) |

EXCERPT FROM DOCUMENT IPC/WG/21/2
EXTRAIT DU DOCUMENT IPC/WG/21/2

IPC MAINTENANCE

General

1. Discussions were based on compilations of the relevant maintenance project files. The Working Group considered eight pending IPC maintenance projects and approved amendments relating to those projects (see the Technical Annexes to this report relating to maintenance projects). The status of those projects and the list of future actions and deadlines are indicated in Annex III to this report.

IPC Maintenance Projects

2. The Working Group made the following observations with respect to the IPC maintenance projects.

Project M 713 (chemical) – The modified title of subclass C10J was approved, as proposed by the Rapporteur, and appears as Technical Annex 117E to this report.

Comments were invited on:

- the remaining rapporteur proposal (see Annex 7 to the project file);
- the relationship between subclasses C10J and C10G, and whether a reference to subclass C10G should be introduced; and
- the need for a Class Index in class C10.

MAINTENANCE DE LA CIB

Généralités

3. Les délibérations ont eu lieu sur la base de synthèses des dossiers de projet de maintenance correspondants. Le groupe de travail a examiné huit projets de maintenance de la CIB en instance et a approuvé les modifications relatives à ces projets (voir les annexes techniques du présent rapport relatives aux projets de maintenance). L'état d'avancement de ces projets et la liste des mesures à prendre et des délais correspondants font l'objet de l'annexe III du présent rapport.

Projets de maintenance de la CIB

4. Le groupe de travail a formulé les observations ci-après concernant les projets de maintenance de la CIB.

Projet M 713 (chimie) – Le titre modifié de la sous-classe C10J a été approuvé, conformément à la proposition du rapporteur, et fait l'objet de l'annexe technique 117E du présent rapport.

Des observations ont été demandées :

- sur la proposition restante du rapporteur (voir l'annexe 7 du dossier de projet);
- sur le lien entre les sous-classes C10J et C10G et sur le point de savoir s'il convenait d'insérer un renvoi à la sous-classe C10G; et
- sur la nécessité de prévoir un schéma général dans la classe C10.

ANNEX 115E C10J

[Project-Rapporteur : M713/SE <WG21>
]

CL M Title PRODUCTION OF GASES CONTAINING CARBON
MONOXIDE AND HYDROGEN FROM SOLID CARBONACEOUS MATERIALS BY
PARTIAL OXIDATION PROCESSES INVOLVING OXYGEN OR STEAM (underground
gasification of minerals [E21B 43/295](#)) ; CARBURETTING AIR OR OTHER GASES

DEUTSCHES PATENT- UND MARKENAMT German Patent and Trade Mark Office	Subclass: C10J
	Date: 09 September 2009
DE - Comments — Project: <u>M713</u>	

Re: DE comments on SE Rapporteur Proposal of Annex 7

Basically, we agree with the rapporteur proposal concerning the modification of the classification scheme of C10J.

However, group C10J 1/26 should remain a one-dot-group and not be changed into a two-dot-group. We are sure this change is not intended by R.

Michael Maurus

<i>United States Patent and Trademark Office</i>	
IPC Revision Working Group	
Maintenance Project M713 Class/subclass: C10J	Date: September 29, 2009

Regarding Rapporteur's latest proposal for project M713 (Annex 7), US believes it would instead be preferable to modify the titles of subgroups C10J 3/68 and 3/70 by replacing the term "pyrolysis" with "gasification" per the delineation given for these two terms in the approved definition for C10J (see the D137 project file) rather than transferring these subgroups from under 3/00 to then reside under 1/00 (together with the proposed change for C10J 1/26 as a two-dot subgroup under new group 1/213). The suggested alternative avoids the possibility of inadvertent modification to the scope of these subgroups given that the current title of 1/00 specifically limits the subject matter therein to the production of fuel gases "without pyrolysis".



IPC/M 714
ORIGINAL: English/French
DATE: 18.11.2009

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

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

MAINTENANCE PROJECT FILE
DOSSIER DE PROJET MAINTENANCE

PROPOSAL BY : PROPOSITION DE :	WG	IPC AREA: DOMAINE DE LA CIB :	C07
RAPPORTEUR :	SE	TECHNICAL FIELD : DOMAINE TECHNIQUE :	C

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Initial Proposal	Proposition Initiale	SE	28.08.2009
2	Comments	Observations	DE	04.09.2009
3	Comments	Observations	US	22.09.2009
4	Comments	Observations	EP	23.09.2009
5	Comments	Observations	JP	25.09.2009

Swedish Patent and Registration Office

IPC Maintenance Project M 714, class C07

August 28th, 2009

Initial Proposal

Background

At WG/21 the removal of references from class titles was discussed, within the framework of project M032. One of the cases was the reference in the C07 class title to C08:

C07 ORGANIC CHEMISTRY (- - -; macromolecular compounds C08; - - -)

Sweden was invited to submit a proposal for a Note in class C07 replacing the reference to class C08.

Analysis

The reference is clearly of limiting nature, referring a large block of organic chemistry out of class C07. There are some references in different places in C08 that point to places in C07:

C08B POLYSACCHARIDES; DERIVATIVES THEREOF (polysaccharides containing less than six saccharide radicals attached to each other by glycosidic linkages C07H; - - -)

C08G 59/00 Polycondensates containing more than one epoxy group per molecule (low-molecular-weight polyepoxy compounds C07); - - -

C08G 65/00 Macromolecular compounds obtained by reactions forming an ether link in the main chain of the macromolecule (- - - ; polyethers containing less than eleven monomer units C07C)

C08G 73/02 . Polyamines (containing less than eleven monomer units C07C)

C08H 7/00 Lignin; Modified lignin; High-molecular-weight products derived therefrom (low-molecular-weight derivatives of lignin C07G 1/00)

C08J 11/10 . . by chemically breaking down the molecular chains of polymers or breaking of crosslinks, e.g. devulcanisation (depolymerisation to the original monomer C07)

These references do not contradict the instruction given by the reference in C07. They rather serve to clarify the borderlines in particular areas. Therefore the reference can simply be converted to a limiting-type note. According to Appendix I of the Guidelines for Revision it should be placed first in the list of notes. A proposal will be found below.

Anders Bruun

Proposal

C07

Notes

- (1) This class does not cover macromolecular compounds, which are covered by class C08.

<Existing notes (1) - (6) renumbered to (2) - (7)

DEUTSCHES PATENT- UND MARKENAMT German Patent and Trade Mark Office	Class/Subcl.: C07
	Date: 4 th September 2009
DE - Comments — M714	

Re: Initial Proposal in Annex 1

We thank SE for the proposal for replacing in C07 the reference to C08 by a note and agree with the analysis of the relationship between C07 and C08.

In our opinion the proposed note „This class does not cover macromolecular compounds, which are covered by class C08.” is a little ambiguous and could be interpreted secondary in a way, that there are macromolecular compounds, which are not covered by C08 but are covered by C07 instead.

Therefore we propose the following wording for a note in C07:

C07**Notes**

- (1) Organic macromolecular compounds are covered by class C08.
<Existing notes (1) - (6) renumbered to (2) - (7)

Frank Senftleben

United States Patent and Trademark Office	
IPC Revision Working Group	
Topic: M714, Class C07	Date: September 22, 2009

US appreciates Rapporteur's analysis and proposal of Annex 1.

US believes that C07 does provide for certain "macromolecular compounds" not provided for in C08. Since lipids (e.g. steroids) and proteins can be considered macromolecular compounds in the literature and these are classified in C07, US believes any note needs to be very clear that not ALL macromolecular compounds are classified in C08. As DE stated in Annex 2, Rapporteur's proposal could be interpreted to mean no macromolecular compounds are classified in C07 or that the only macromolecular compounds classified in C07 are those not in C08. Contrary to DE, we believe the second interpretation is the existing situation and would prefer a note that is clearly stating this and not open to multiple interpretations.

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Principal Directorate Patent Grant Automation - Directorate Classification		
Project: M 714	Subject: M 714	IPC range: C07
Comments		22 September 2009

Ref.:**Annexes 1 to 3 of project file****Comments**

We think that the note is helpful, and agree with US comment.

Such wording is used elsewhere in the IPC and we do not feel that it leads to misinterpretation.

Anne Glanddier.

JAPAN PATENT OFFICE

September 25, 2009

Project: M714Class: C07

Comment

With regard to the new task of removal of reference reading “macromolecular compounds C08” from within the title of class C07, JP has taken note of the DE comment on the Initial Proposal of SE Rapporteur.

JP feels hesitant to support DE’s counter-proposal reading “Organic macromolecular compounds are covered by class C08” because there exist macromolecular compounds that are covered by Class C07 but not covered by class C08, e.g. peptides (C07K) , nucleic acids (C07H 21/) . On the other hand, SE-proposed Note might be misinterpreted as saying that every and all organic macromolecular compounds should be covered by class C08.

For the purpose of making the intention of Note (1) clearer, JP may propose to describe it as follows.

“This class does not cover macromolecular compounds that are covered by class C08.”

[END]

Principal Directorate Patent Grant Automation - Directorate Classification		
Project: M713	Subject: Production of producer gas	IPC range: C10J
Comment		16-10-2009

Harmony Phase: M

Ref.: Annexe 7 of project file

Comments

EPO agrees with the rapporteur proposal concerning the change in the classification scheme of C10J with the group C10J1/26 remaining with one dot group.

Concerning the title of C10J who was adopted, EPO would like to know if syngas produced by other gas than oxygen or steam (it concerns few documents) will be classified under the subgroup C10J as the title is only restricted to oxygen or steam.

My apologies for the late comment.

Agnès Gamez