

# WIPO



IPC/WG/8/5

ORIGINAL: English only

DATE: November 15, 2002

**E**

**WORLD INTELLECTUAL PROPERTY ORGANIZATION**  
GENEVA

**SPECIAL UNION FOR THE INTERNATIONAL PATENT CLASSIFICATION  
(IPC UNION)**

**IPC REVISION WORKING GROUP**

**Eighth Session**

**Geneva, November 25 to December 5, 2002**

CHECKING OF NOTES AND REFERENCES IN THE REFORMED IPC

*Document prepared by the Secretariat*

1. At its seventh session, held in June 2002, the IPC Revision Working Group requested volunteering offices to work on the correction of notes and references based on a list of complex cases, compiled by the International Bureau, where intellectual consideration of the wordings or references was necessary. The following members of the Working Group volunteered to conduct this work on the following sections (see document IPC/WG/7/7, paragraphs 20 to 22):

Sections A and C: Ireland;  
Sections B, D, E and F: Sweden;  
Sections G and H: EPO.

2. The Working Group further requested its members to conduct a review of the X-type and P-type references identified by the International Bureau when carrying out automatic repointing of references (see document IPC/WG/7/7, paragraphs 23 to 26).

3. Annexes I to IV to this document contain the results of the work on sections A to H, submitted by the volunteering offices indicated in paragraph 1, above. Annexes I to III also contain, in addition, results of the review mentioned in paragraph 2, above.

*4. The Working Group is invited to take note of the contents of the Annexes to this document.*

[Annexes follow]

ANNEX I



**Oifig na bPaitinní**

**Irish Patents Office**

**Redirection of Advanced level notes, references and Precedence/limiting references for Section A**

Following the conducting of this exercise, I have a few observations on matters arising from the division of the IPC between core and advanced level.

- 1) In a great many places in the core level, none of the subgroups of main groups survive. In many of these places, it would appear necessary to rephrase the titles of these remaining groups as, without the context of their subgroups, it is sometimes not clear exactly what is intended to go in the main groups.
- 2) A method is required of locating and dealing with places where an advanced level group refers art out to another advanced place, but this place does not have the same core-level root equivalent. An example of this is as follows:

**C01B 3/00 Hydrogen; Gaseous mixtures containing hydrogen; Separation of hydrogen from mixtures containing it** (separation of gases by physical means B01D); **Purification of hydrogen** (production of water-gas or synthesis gas from solid carbonaceous material C10J; purifying or modifying the chemical compositions of combustible gases containing carbon monoxide C10K)

C01B 3/02 . Production of hydrogen or of gaseous mixtures containing hydrogen

C01B 3/06 . . by reaction of inorganic compounds containing electro-positively bound hydrogen, e.g. water, acids, bases, ammonia, with inorganic reducing agents (by electrolysis of water C25B 1/04)

C01B 3/12 . . . by reaction of water vapour with carbon monoxide

C01B 3/14 . . . . Handling of heat and steam)

C01B 3/50 . Separation of hydrogen or hydrogen containing gases from gaseous mixtures, e.g. purification (C01B 3/14 takes precedence)

In this example, the core level equivalent for 3/50 is 3/00, whereas for 3/14 it is 3/02. A core-level examiner will be oblivious to the precedence, and clearly art could be placed in 3/00 at core level which would, in fact, be rolled back to 3/02 from the advanced. This problem needs a systematic approach, to identify all such places and consider the best solution, in a manner similar to the present exercise.

Fergal Brady.  
Irish Patents Office.

Note concerning groups under A01D 34/00 : This is a complex family of groups, and its division between core and advanced level brings in groups at many different dot levels, while leaving many equivalents out. There are a number of references pointing to this group, and a more even distribution between core and advanced level is desirable.

**P** designates a precedence reference which was not identified.

*P* designates an incorrectly identified precedence reference.

Origin	Proposed redirection		Analysis
A01B (reference to A01D 42/04)	A01D 42/00		Agree: no 1 dot groups in core-level
A01B (reference to A01D 43/12)	A01D 43/00		Agree: no 1 dot groups in core-level
A01B 1/00 (reference to A01G 3/06)	A01G 3/00		Agree: no 1 dot groups in core-level
A01B 13/00 (reference to E02B 11/02)	E02B 11/00		Agree: no 1 dot groups in core-level
A01B 17/00 (reference to A01B 13/08)	A01B 13/00	P	Reference can be deleted. This is not a precedence reference, as the destination lies higher in the scheme anyway.
A01B 51/00 (Guide Heading reference to B60S 1/68)	B60S 1/00		Agree: existence of both 1 dot groups at core level would probably empty main group heading. Title of B60S should probably be reworded, however, to make scope clearer in core level (adding wheels as an e.g. perhaps).
A01B 63/00 (references to A01D 34/24, 34/28)	A01D 34/02		Agree: The two references should be replaced by a single one worded "for the cutter bar of a mower A01D 34/02"
A01B 63/118 (references to A01B 59/043, 59/041)	A01B 59/00	P	Disagree: retain 59/043. Only the former is a precedence reference. Redirecting this to the main group would broaden the scope of the precedence. Redirection of the latter as proposed is correct.

IPC/WG/8/5  
Annex I, page 3

A01C (reference to A01B 49/04)	A01B 49/00		Agree.
A01C 9/00 (reference to A01B 49/04)	A01B 49/00		Agree.
A01C 11/00 (reference to A01G 23/02)	A01G 23/00		Agree. No subgroups in core level.
A01C 15/00 (reference to A01C 7/06)	A01C 7/00	P	Agree: only the combination of fertilising and sowing will be subject to precedence.
A01C 15/00, 17/00 (reference to E01C 19/20)	E01C 19/00	P	Agree: explicit in destination title.
A01D 1/00 (Guide Heading reference to A01D 46/24)	A01D 46/00		Agree: The reference should be amended to reflect the new destination
A01D 1/00 (reference to A01G 3/04)	A01G 3/00		Agree: However, the reference could probably be deleted, as it is informative only.
A01D 3/00 (reference to B24D 15/06)	B24D 15/00		Agree.
A01D 7/00 (reference to A01D 42/02)	A01D 42/00		Agree.
A01D 7/00 (reference to A01D 43/02)	A01D 43/00		Agree.
A01D 34/64 (reference to A01D 34/695)	A01D 34/63	PX	Disagree: A01D 34/695 is a 4 dot group. This is also a PX reference, and would mean the (more generally worded parent) would take precedence. It is therefore recommended to incorporate A01D 34/695 into the core level. It may also be advisable to incorporate all groups at the 4 dot level under A01D 34/00.
A01D 46/00 (references to A01D 46/30, 46/02, 46/28)	A01D 46/00	PX	Delete the precedence reference under A01D 46/00
A01D 57/00 (Guide Heading reference to B60S 1/68)	B60S 1/00		Agree: As for A01B 51/00 above.
A01D 59/00 (reference to A01F 15/14)	A01F 15/00		Agree: reference should only refer to baling presses.
A01D 67/00 (reference to A01D 34/28)	A01D 34/02		Agree.
A01D 76/00 (Guide Heading reference to A01D 43/04)	A01D 43/00		Agree.
A01D 82/00 (reference to A01D 43/10)	A01D 43/00		Agree.
A01D 87/00 (reference to A01D 43/06)	A01D 43/00		Agree.
A01D 90/00 (reference to A01D 43/06)	A01D 43/00		Agree.
A01D 90/00 (reference to E02F 3/64)	E02F 3/04		Two options. Either redirect as proposed (adding bucket cars as an e.g. to the title of E02F 3/04) or incorporate E02F 3/64 into core scheme. Prefer latter if population can justify same.

IPC/WG/8/5  
Annex I, page 4

A01F (reference to A23N 15/08)	A23N 15/00		Agree. Should “flower bulbs” be replaced in the title by “bulbs”, so as to incorporate onions more clearly?
A01F 17/00 (Guide Heading reference to A01D 87/12)	A01D 87/00		Agree.
A01F 17/00 (Guide Heading reference to B26D 63/06)	B26D 63/00		Agree: The whole structure of this reference in the existing IPC is not desirable as the destination is itself a residual place, and it is possible that a trailer would on its own merit be classifiable elsewhere in B26D. However, that is not a matter for this exercise.
A01F 21/00 (reference to A01D 75/20)	A01D 75/00		Agree.
A01F 25/00 (reference to A23N 15/06)	A23N 15/00		Agree.
A01F 25/00 (reference to A24B 1/02)	A24B 1/00		Agree: reference needs to be reworded accordingly.
A01F 25/00 (reference to C12C 3/04)	C12C 3/00		Agree. In core level, “Treatment of hops” as title for C12C 3/00 should be amended to explicitly include storing, as it is not clear that the latter term is included in the former. This is clear in the advanced level by inclusion of 3/04.
A01F 25/14 (reference to E04H 7/22)	E04H 7/00		Agree.
A01F 29/00 (reference to A01D 43/08)	A01D 43/00		Agree.
A01G (reference to A23N 15/08)	A23N 15/00		Agree.
A01G 1/06 (reference to A01N 3/04)	A01N 3/00		Agree.
A01G 3/00 (reference to A01G 23/08)	A01G 23/00		Agree.
A01G 3/00 (reference to A01D 34/416)	A01D 34/412		Agree.
A01G 3/00 (reference to A01D 34/90)	A01D 34/00		Disagree: see note concerning A01D 34/00 above. It seems preferable to me to at least carry over all 1 dot groups, which would divert this redirection to A01D 34/835.
A01G 7/02 (reference to A01G 9/18)	A01G 9/00		Agree.
A01G 9/12 (reference to A01G 17/14)	A01G 17/00		Agree.
A01G 25/02 (reference to B05B 1/20)	B05B 1/14		Agree.
A01J 1/00 (Guide heading reference to A01K 1/12)	A01K 1/00		Agree, though the wording of the title to A01K 1/00 should make the contents devolving to its former subgroups clearer.
A01J 1/00 (reference to A47C 9/04)	A47C 9/00		Agree.
A01J 9/00 (reference to B65G 65/23)	B65G 65/00		Agree, though the title of B65G 65/00 may need to rephrased to make this clearer.
A01J 25/00 (reference to A01J 27/02)	A01J 27/00		Agree.

IPC/WG/8/5  
Annex I, page 5

A01K 5/00 (reference to A01K 1/10)	A01K 1/00	P	Agree, but will a core level examiner necessarily appreciate the logic of the precedence without the subgroups?
A01K 13/00 (reference to B68B 5/04)	B68B 5/00		Agree.
A01K 13/00 (reference to A01J 7/04)	A01J 7/00		Agree.
A01K 43/00 (reference to G01N 33/08)	G01N 33/02		Agree.
A01K 63/00 (reference to A01K 97/20)	A01K 97/00		Agree.
A01K 67/00 (reference to A01K 35/52)	A61K 35/48		Agree, but “sperm” should be introduced into the title of A61K 35/48, since it is neither a reproductive organ nor an embryo.
A01K 89/00 (reference to A01K 91/02)	A01K 91/00		Agree.
A01K 89/01 (reference to A01K 89/027)	A01K 89/00	PX	Disagree: To simply redirect the precedence is meaningless. A01K 89/02 should be retained and the precedence redirected here.
A01K 89/015 (reference to A01K 89/033)	A01K 89/00	PX	As for A01K 89/01 above. Redirect to retained 89/02.
A01K 97/12 (reference to A01K 91/06)	A01K 91/00	P	Agree. However, the identity of scope of the precedence should be confirmed.
A01L 11/00 (reference to B21H 7/12)	B21H 7/00		Agree.
A01L 11/00 (reference to B21K 15/02)	B21K 15/00		Agree.
A01M (reference to B64D 1/16)	B64D 1/00		Agree.
A01M 15/00 (reference to F41H 9/02)	F41H 9/00		Agree.
A01N (reference to A01M 31/06)	A01M 31/00		Agree.
A01N 43/00 (reference to A01N 41/12)	A01N 41/00		Agree.
A01N 45/00 (reference to A01N 29/08)	A01N 29/00		Agree.
A01N 47/00 (reference to A01N 29/02)	A01N 29/00		Agree.
A01N 47/28 (reference to A01N 47/42)	A01N 47/40		Agree.
A01N 47/40 (reference to A01N 59/24)	A01N 59/00		Agree.
A01N 57/10 (reference to A01N 57/02)	A01N 57/00	PX	Disagree, as precedence is meaningless. Either drop A01 57/10 itself or reintroduce all 1 dot groups under A01N 57/00. Otherwise, identity with advanced level roll-back is impossible.
A21D 15/00 (reference to B65B 23/10)	B65B 23/00		Agree.
A21D 15/00 (reference to B65B 25/16)	B65B 25/00		Agree.
A23B 4/02 (references to A23B 4/26, 4/32)	A23B 4/00	X	Agree.
A23B 4/14 (reference to A23B 4/12)	A23B 4/00	X	Disagree: delete reference.

IPC/WG/8/5  
Annex I, page 6

A23B 7/02 (reference to A23L 1/216)	A23L 1/214		Agree.
A23B 7/14 (reference to A23B 7/08)	A23B 7/00	X	Disagree: for consonance between core and advanced, it is necessary to reintroduce A23B 7/08.
A23C 1/00 (reference to A23B 15/14)	A23C 15/00		Agree.
A23C 1/00 (reference to A23C 19/086)	A23C 19/06		Agree.
A23C 3/00 (reference to A23C 13/08)	A23C 13/00		Agree, “preservation of cream” should be added to the title.
A23C 3/00 (reference to A23C 15/18)	A23C 15/00		Agree, “preservation of butter” should be added to the title.
A23C 3/00 (reference to A23C 19/097)	A23C 19/00		Agree, “preservation of cheese” should be added to the title.
A23C 9/00 (reference to A23C 21/06)	A23C 21/00	P	Agree, reword “mixtures with whey, A23C 21/00 takes precedence.”
A23C 17/00 (reference to A23C 9/14)	A23C 9/00	P	Disagree: for consistency of classification A23C 9/14 must be introduced into the core level.
A23C 19/00 (reference to A23J 1/20)	A23J 1/00		Agree.
A23C 19/06 (reference to A23C 19/097)	A23C 19/00	PX	Disagree: for consistency, A23C 19/097 should be introduced into the core level.
A23C 20/00 (reference to A23C 19/055)	A23C 19/00		Disagree: for consistency, A23C 19/055 should be introduced into the core level.
A23C 20/00 (reference to A23C 19/093)	A23C 19/06		Disagree: for consistency, A23C 19/093 should be introduced into the core level.
A23C 21/00 (reference to A23C 9/14)	A23C 9/00		Disagree: retain A23C 9/14
A23D (reference to C11C 3/12)	C11C 3/00		Agree.
A23F 3/06 (references to A23F 3/36)	A23F 3/00	X	Disagree: retain A23F 3/36.
A23F 3/06 (references to A23F 3/16)	A23F 3/00	X	Disagree: delete reference, as it is merely indicative.
A23F 5/24 (reference to A23F 5/20)	A23F 5/00	X	Disagree: retain A23F 5/20
A23F 5/24 (references to A23F 5/06)	A23F 5/00	X	Disagree: retain A23F 5/04 and redirect there.
A23G 9/04 (reference to B65D 85/78)	B65D 85/72		Agree.
A23J 3/00 (reference to A23J 3/20)	A23J 3/00	X	Disagree: redirect to A23J 3/14.
A23L 1/221 (reference to A23F 3/40)	A23F 3/00		Agree.
A23L 1/221 (reference to A23F 5/46)	A23F 5/00		Agree.
A23L 2/00 (reference to A23L 1/40)	A23L 1/39		Agree.
A23L 2/52 (reference to A23L 2/44)	A23L 2/42		Agree.



IPC/WG/8/5  
Annex I, page 7

A23N 4/00 (reference to A23N 7/08)	A23N 7/00		Agree: Replace wording with “in combination with peeling A23N 7/00”
A23N 7/00 (reference to A23N 15/08)	A23N 15/00		Agree.
A24B 1/00 (reference to A01D 45/16)	A01D 45/00		Agree.
A24B 13/00 (reference to A24B 3/14)	A24B 3/00		Agree.
A24C 1/00 (references to A24C 5/47, 5/52)	A24C 5/00		Agree.
A24C 5/14 (reference to A24C 5/39)	A24C 5/00	X	Disagree, retain A24C 5/39, (and 5/34, since there is a reference there too.)
A24F 3/00 (reference to A45B 3/16)	A45B 3/00		Agree.
A24F 25/00 (reference to A24B 3/04)	A24B 3/00		Agree.
A41B 11/00 (reference to A61F 13/08)	A61F 13/06		Agree.
A41C 1/00 (reference to A41F 1/04)	A41F 1/00		Agree.
A41D 7/00 (reference to A42B 1/12)	A42B 1/04		Agree.
A41D 13/00 (reference to G21F 3/02)	G21F 3/00		Agree.
A41D 19/00 (reference to A61B 19/04)	A61B 19/00		Agree.
A41D 19/00 (reference to A63B 31/02)	A63B 31/00		Agree.
A41D 19/00 (reference to A63B 71/14)	A63B 71/08		Agree.
A41D 19/00 (reference to B25J 21/02)	B25J 21/00		Agree.
A41D 20/00 (reference to A42C 5/02)	A42C 5/00		Agree.
A41G 1/00 (reference to A47G 33/06)	A47G 33/00		Agree.
A41G 3/00 (reference to A63H 3/44)	A63H 3/36		Agree.
A41H 1/00 (reference to A41H 3/04)	A41H 3/00		Agree.
A42B 3/00 (reference to A62B 18/04)	A62B 18/00		Agree.
A42B 3/00 (reference to F41H 1/04)	F41H 1/00		Agree.
A42B 7/00 (reference to A44B 9/06)	A44B 9/00		Agree.
A43B 3/10 (reference to A43B 3/12)	A43B 3/00	X	Agree, though deleting the reference may be just as effective.
A43C 3/00 (reference to B21D 53/46)	B21D 53/00		Agree.
A43D 27/00 (reference to A43D 8/32)	A43D 8/00		Agree.
A43D 33/00 (reference to A43D 8/02)	A43D 8/00		Agree.
A43D 35/00 (reference to A43D 25/06)	A43D 25/00		Agree.
A43D 43/00 (reference to A43D 8/52)	A43D 8/00		Agree.

IPC/WG/8/5  
Annex I, page 8

A44B 1/00 (reference to A41H 37/10)	A41H 37/00		Agree.
A44B 1/00 (reference to A43D 100/08)	A43D 100/00		Agree.
A44B 6/00 (reference to A44B 9/08)	A44B 9/00		Agree.
A44B 9/00 (reference to A45D 8/02)	A45D 8/00		Agree.
A44C (reference to A45C 11/16)	A45C 11/00		Agree.
A44C 3/00 (reference to A47G 1/12)	A47G 1/00		Agree.
A44C 21/00 (reference to G07F 1/06)	G07F 1/00		Agree.
A45B (reference to A47G 25/12)	A47G 25/00		Agree.
A45B 1/00 (Guide heading reference to A61H 3/06)	A61H 3/00		Agree.
A45B 1/00 (Guide heading reference to F16M 13/08)	F16M 13/06		Agree.
A45B 11/00 (Guide heading reference to A47B 37/04)	A47B 37/00		Agree.
A45B 25/00 (reference to A45B 3/02)	A45B 3/00		Agree.
A45C 3/00 (reference to A45D 42/04)	A45D 42/00		Agree.
A45C 9/00 (reference to A47B 61/06)	A47B 61/00		Agree.
A45C 9/00 (reference to A47C 17/82)	A47C 17/00		Agree.
A45C 11/00 (reference to A45F 3/48)	A45F 3/00		Agree.
A45C 13/26 (reference to A45C 13/22)	A45C 13/00	PX	Disagree: retain A45C 13/18 and redirect there.
A45C 15/00 (reference to A45C 1/08)	A45C 1/00		Agree.
A45C 15/00 (reference to A45C 3/14)	A45C 3/00		Disagree: retain A45C 3/14. Otherwise the scope of precedence will be considerably broadened.
A45D (reference to A47C 1/04)	A47C 1/00		Agree.
A45D 24/00 (reference to A45D 8/12)	A45D 8/00		Agree.
A45D 24/00 (references to A45D 20/52, 20/48)	A45D 20/00		Agree: replace with single reference.
A45D 26/00 (references to A61B 18/04, 18/18)	A61B 18/00		Agree: replace with single reference.
A45D 27/00 (reference to A45D 42/08)	A45D 42/00		Agree.
A45D 27/00 (reference to A47B 67/02)	A47B 67/00		Agree.
A45D 42/00 (reference to A47G 1/02)	A47G 1/00		Agree.
A47B 3/00 (reference to A47B 5/04)	A47B 5/00		Agree.

IPC/WG/8/5  
Annex I, page 9

A47B 3/00 (reference to A47B 31/04)	A47B 31/04		Agree.
A47B 13/08 (reference to A47B 95/04)	A47B 95/00		Agree.
A47B 17/00 (Guide heading reference to A47G 7/04)	A47G 7/00		Agree.
A47B 17/00 (Guide heading reference to B01L 9/02)	B01L 9/00		Agree.
A47B 27/00 (reference to A47B 85/02)	A47B 85/00		Agree.
A47B 27/00 (reference to A47B 97/04)	A47B 97/00		Agree.
A47B 39/00 (reference to A47B 91/08)	A47B 91/00		Agree.
A47B 41/00 (reference to A47B 91/08)	A47B 91/00		Agree.
A47B 43/00 (Guide heading reference to B25H 3/04)	B25H 3/00		Agree.
A47B 46/00 (reference to A47B 63/04)	A47B 63/00	P	Disagree: retain A47B 63/04 to maintain scope of precedence (this is a precedence reference).
A47B 46/00 (reference to A47B 77/10)	A47B 77/04	P	Disagree: retain A47B 77/10 to maintain scope of precedence (this is a precedence reference).
A47B 46/00 (reference to A47B 17/03)	A47B 17/00		Agree.
A47B 46/00 (reference to A47B 61/02)	A47B 61/00		Agree.
A47B 57/00 (reference to A47B 96/07)	A47B 96/06		Agree.
A47B 77/00 (reference to A47B 96/18)	A47B 96/00		Agree.
A47B 77/06 (reference to A47L 19/02)	A47L 19/00		Agree.
A47B 88/00 (reference to A47B 63/02)	A47B 63/00	P	Disagree: retain A47B 63/02 to maintain scope of precedence.
A47B 88/00 (reference to A47B 96/16)	A47B 96/00	P	Agree, but this is not a precedence reference.
A47B 96/02 (reference to A47B 96/16)	A47B 96/00	X	Agree.
A47C 1/02 (reference to A47C 7/50)	A47C 7/00		Disagree: it is logical to retain 7/50 to cater for all manner of body support in chairs.
A47C 3/02 (reference to A47D 13/10)	A47D 13/00		Agree.
A47C 4/00 (reference to A47C 5/10)	A47C 5/00		Agree.
A47C 4/00 (reference to A47D 1/02)	A47D 1/00		Agree.
A47C 7/00 (reference to A47B 91/08)	A47B 91/00		Agree.
A47C 7/02 (reference to A47C 5/06)	A47C 5/00		Agree.
A47C 9/00 (reference to A47C 3/18)	A47C 3/00		Agree.

IPC/WG/8/5  
Annex I, page 10

A47C 9/00 (references to A47C 16/02, 16/04)	A47C 16/00		Agree, replace with one reference.
A47C 9/00 (reference to A47C 97/22)	A01K 97/00		Agree.
A47C 13/00 (reference to A47C 12/02)	A47C 12/00		Agree.
A47C 13/00 (reference to A61G 1/017)	A61G 1/00		Agree.
A47C 20/00 (reference to A61G 7/065)	A61G 7/05		Agree.
A47C 21/00 (reference to A47B 23/02)	A47B 23/00		Agree.
A47C 27/04 (reference to A47C 27/20)	A47C 27/14	P	Agree.
A47C 29/00 (reference to A45F 3/52)	A45F 3/00		Agree.
A47D 13/00 (reference to A47K 13/06)	A47K 13/00		Disagree: retain A47K 13/06. See note for A47K 13/24 below.
A47D 15/00 (reference to A61J 9/06)	A61J 9/00		Agree.
A47D 15/00 (reference to B64D 25/06)	B64D 25/00		Agree.
A47F 5/01 (reference to A47F 5/13)	A47F 5/10		Agree.
A47F 7/12 (reference to A47G 25/74)	A47G 25/00		Agree.
A47F 13/00 (reference to E06C 9/06)	E06C 9/00		Agree.
A47G 3/00 (reference to F16B 15/02)	F16B 15/00		Agree.
A47G 5/00 (reference to A47K 3/30)	A47K 3/28		Agree.
A47G 5/00 (reference to E06B 9/52)	E06B 9/00		Agree.
A47G 9/02 (reference to A61G 1/01)	A61G 1/00		Agree; perhaps "accessories therefor" should be included in the destination title. It would not alter the scope in this case.
A47G 19/22 (reference to A47G 23/03)	A47G 23/00		Agree.
A47G 21/00 (reference to A47L 13/52)	A47L 13/50		Agree.
A47G 25/14 (reference to A47G 25/60)	A47G 25/00	PX	Disagree: retain A47G 25/60. Dropping precedence would cause divergence between core and advanced, and clearly a main group should not take precedence over its subgroup.
A47G 25/14 (reference to A47B 61/02)	A47B 61/00	P	Agree. Not a precedence reference.
A47G 27/02 (reference to A47L 23/22)	A47L 23/00		Agree.
A47G 29/00 (reference to A47K 10/04)	A47K 10/00		Agree.
A47G 29/12 (reference to A47G 29/16)	A47G 29/00	PX	Disagree: 29/14 should be retained and the reference redirected there.
A47H 23/00 (reference to A47K 3/38)	A47K 3/28		Agree.
A47J 21/00 (reference to A23N 15/02)	A23N 15/00		Agree.
A47J 25/00 (reference to A23N 4/12)	A23N 4/00		Agree.

IPC/WG/8/5  
Annex I, page 11

A47J 27/212 (reference to A47J 27/57)	A47J 27/56		Agree.
A47J 27/56 (reference to A01J 11/02)	A01J 11/00		Agree.
A47J 27/56 (reference to B01B 1/02)	B01B 1/00		Agree.
A47J 31/00 (references to A47G 19/14, 19/16)	A47G 19/00		Agree.
A47J 31/10 (reference to A47J 31/02)	A47J 31/00	PX	Disagree: retain 31/02
A47J 31/24 (reference to A47J 31/043)	A47J 31/04	P	<p>Disagree: the precedence destination is especially specific. 31/04 should be retained to maintain consistency between levels.</p> <p><i>A47J 31/04 . Coffee-making apparatus with rising pipes.</i>  <i>A47J 31/043 . . Vacuum-type coffee-making apparatus with rising pipes in which hot water is passed to the upper bowl in which the ground coffee is placed and subsequently the heat source is cut-off and the water is sucked through the filter by the vacuum in the lower bowl.</i></p> <p><i>A47J 31/24 . Coffee-making apparatus sin which hot water is passed through the filter under pressure (31/043 takes precedence)</i></p>
A47J 33/00 (reference to A47J 36/26)	A47J 36/24		Disagree: it is unlikely that a travelling cooker with one burner would be classified in this place other than by means of this reference. In the core level, it is possible that as “travelling” cookers, some art may be placed under A45F 3/00 instead. A47J 36/26 should be retained (and indeed edited, with a comma inserted after the word “gasoline”).

IPC/WG/8/5  
Annex I, page 12

A47J 43/04 (reference to A47J 43/25)	A47J 43/00	X	The whole scheme of A47J 43/= should be re-examined. Both surviving 1 dot groups are residual in nature, one to collect machines, and the other for hand-held implements. This does not make logical sense in comparison to the original scheme, nor the advanced classifications, which when rolled back to the core level will in many cases revert to different places to those allocated by a core-level examiner. For instance, a hand-held grater would be placed under 43/25 in the advanced level, reverting to 43/00 under roll-back to the core. A core-level examiner would have to classify under 43/28 (as a hand implement). Retaining the scheme in its entirety is one solution, though probably not justifiable on population grounds.
A47J 43/28 (reference to G01G 19/56)	G01G 19/52		Agree.
A47K 1/00 (reference to A47L 17/02)	A47L 17/00		Agree.
A47K 3/022 (reference to A47K 3/062)	A47K 3/02	X	Disagree: A collapsible bath specially adapted for a particular use would be advance classified under A47K 3/064. To retain consistency, 3/062 and 3/064 should be retained, or 3/062 should be retained and a precedence from 3/022 to 3/062 should be inserted. The former is simpler, but the latter should work every bit as well, and the sole group 3/062 should be more populated in the core level than each of the pair 3/062 & 3/064. I recommend the latter.
A47K 11/00 (reference to E03D 5/016)	E03D 5/00		Agree.
A47K 13/10 (reference to E03D 5/04)	E03D 5/00		Agree.
A47K 13/24 (references to A47K 13/22, 13/02)	A47K 13/00	X	Disagree: A47K 13/24 is essentially residual to all the 1-dot groups of A47K 13/00, one of which is retained at core-level. Either delete all subgroups of 13/00 or retain all 1-dot groups. I prefer the latter.
A47L 4/00 (reference to A47L 1/15)	A47L 1/00	P	Disagree: This would considerably broaden the scope of precedence. Retain A47L 1/15 and 1/06 (its parent).
A47L 5/00 (Guide heading reference to E01H 1/08)	E01H 1/00		Agree.
A47L 5/28 (reference to A47L 5/24)	A47L 5/22	PX	Disagree: retain 5/24 to maintain scope of precedence.
A47L 11/40 (reference to A47L 11/38)	A47L 11/00	X	Disagree: the group is residual. It is necessary to retain the full 1-dot level of the scheme, since some are kept already.

IPC/WG/8/5  
Annex I, page 13

A47L 13/16 (reference to A47L 13/07)	A47L 13/00	X	This is possible, however, alternatively we could retain 13/02 and redirect there, thereby keeping all 1-dot groups in this scheme.
A47L 13/17 (reference to A47L 13/19)	A47L 13/16	PX	Disagree: Retain 13/18 and redirect precedence there.
A47L 13/50 (reference to A46B 17/06)	A46B 17/00		Agree.
A47L 17/00 (reference to A47K 5/14)	A47K 5/00		Agree.
A61B 1/00 (reference to A61B 18/22)	A61B 18/00		Agree.
A61B 1/12 (reference to A61B 1/015)	A61B 1/012	P	Disagree: probably best to retain 1/015.
A61B 1/24 (reference to A61C 17/10)	A61C 17/06		Agree.
A61B 5/01 (reference to G01K 5/22)	G01K 5/00		Agree.
A61B 5/0408 (reference to A61B 5/0448)	A61B 5/0402	X	Disagree: retain 5/0444 and redirect there (to retain consistency with the other references from 5/0408).
A61B 5/0408 (reference to A61B 5/0478)	A61B 5/0476		Agree.
A61B 5/0408 (reference to A61B 5/0492)	A61B 5/0488		Agree.
A61B 13/00 (reference to A61C 17/10)	A61C 17/06		Agree.
A61B 17/06 (reference to A61C 5/02)	A61C 5/00		Agree. I would, however, add “nerve needles” to the title of 5/00 for clarity. Core-level examiners may not otherwise appreciate the reason for the precedence.
A61B 17/068 (reference to A61B 17/115)	A61B 17/03	X	Disagree: retain 17/11 and redirect there.
A61B 17/12 (reference to A61F 6/20)	A61F 6/00		Agree.
A61B 17/14 (reference to A61C 3/12)	A61C 3/00		Agree.
A61B 17/14 (reference to A61F 15/02)	A61F 15/00		Agree.
A61B 17/28 (reference to A61B 17/44)	A61B 17/42		Agree.
A61B 17/30 (reference to A61B 17/08)	A61B 17/03		Agree.
A61B 17/32 (references to A61B 17/125, 17/138)	A61B 17/12		Agree; replace with single reference.
A61B 18/00 (references to A61B 18/08, 18/12, 18/18)	A61B 18/00	X	Agree, with suitable rewording.
A61B 19/00 (reference to A41D 13/11)	A41D 13/05		Agree.
A61B 101/00 (Guide heading references to A61B 18/08, 18/12, 18/18)	A61B 18/00		Agree, with suitable rewording.

IPC/WG/8/5  
Annex I, page 14

A61C 3/00 (reference to A61C 13/12)	A61C 13/00		Agree.
A61C 7/12 (reference to A61C 7/10)	A61C 7/00	PX	Disagree: retain 7/10.
A61C 8/00 (reference to A61C 13/30)	A61C 13/225		Agree.
A61C 13/225 (reference to A61C 13/01)	A61C 13/007		Agree.
A61C 17/00 (reference to A61C 3/025)	A61C 3/02		Agree.
A61D 11/00 (reference to A01J 7/04)	A01J 7/00		Agree.
A61F 2/14 (reference to B29D 11/02)	B29D 11/00		Disagree: it is not clear that an artificial eye is an optical element in the proper sense of the term. Either retain, or incorporate “artificial eye” into the title of B29D 11/00.
A61F 4/00 (reference to A61F 2/68)	A61F 2/50		Disagree: It is possible, but for balance, it is preferable to retain 2/68, as both outward references are then of equal stature.
A61F 5/442 (reference to A61M 3/02)	A61M 3/00		Agree.
A61F 9/00 (reference to A42B 1/06)	A42B 1/04		Agree.
A61F 9/00 (reference to A42B 3/22)	A42B 3/18		Agree.
A61F 9/00 (reference to A61H 35/02)	A61H 35/00		Agree.
A61F 13/00 (reference to A61M 36/14)	A61M 36/00		Agree.
A61F 13/14 (reference to A61F 5/03)	A61F 5/01		Agree.
A61F 13/45 (reference to A61F 13/24)	A61F 13/20		Agree.
A61F 13/58 (reference to A61F 13/66)	A61F 13/56	PX	Disagree: retain 13/66.
A61F 111/00 (Guide heading references to A61F 13/471, 13/472, 13/496)	A61F 13/45		Agree; with suitable rewording to single reference.
A61G 5/00 (reference to A47K 11/04)	A47K 11/00		Agree.
A61G 5/04 (references to A61G 5/06)	A61G 5/00	PX	Disagree: retain 5/06.
A61G 5/04 (reference to A61G 5/12)	A61G 5/00		Disagree: retain 5/10 and redirect there.
A61G 7/00 (reference to A61F 5/045)	A61F 5/04	P	Disagree: retain A61F 5/045 and 5/042 (its parent).
A61G 7/00 (reference to A61G 1/003)	A61G 1/00	P	Agree.
A61G 7/05 (reference to A47C 21/08)	A47C 21/00		Disagree: retain A47C 21/08 (it also refers out to A47D 7/00).
A61G 15/00 (reference to A47C 1/04)	A47C 1/00		Agree.
A61H 3/00 (reference to A47D 13/04 )	A47D 13/00		Agree.
A61H 3/00 (reference to A63B 23/10)	A63B 23/04		Agree.
A61H 33/00 (reference to A61N 1/44)	A61N 1/00	P	Disagree: Keep A61N 1/44, see A61N1/10 below.
A61H 35/00 (reference to A47K 7/08)	A47K 7/00		Agree.
A61J 1/00 (reference to A61B 19/02)	A61B 19/00		Agree.



IPC/WG/8/5  
Annex I, page 15

A61J 7/00 (reference to G01G 19/56)	G01G 19/52		Agree.
A61J 15/00 (reference to A47G 21/18)	A47G 21/00		Agree.
A61J 19/00 (reference to A61C 17/14)	A61C 17/00		Agree.
A61K 6/00 (reference to A61C 13/23)	A61C 13/225		Agree.
A61K 9/00 (reference to A61K 49/18)	A61K 49/06		Agree.
A61K 9/02 (reference to A61J 3/08)	A61J 3/00		Agree.
A61K 9/06 (reference to A61J 3/04)	A61J 3/00		Agree.
A61K 31/00 (reference to A61K 31/714)	A61K 31/7135		Agree; Either reference needs rewording, or cyanocobalamin needs citing as a specific example in A61K 31/7135. I recommend the latter.
A61K 31/138 (reference to A61K 31/5377)	A61K 31/5375		Agree. I recommend adding timolol as a specific example to A61K 31/5375.
A61K 31/14 (reference to A61K 31/205)	A61K 31/185		Disagree: Betaine would, as things stand, have to be classified by a core-level examiner under A61K 31/19 (as a carboxylic acid). I recommend retaining 31/205.
A61K 31/197 (reference to A61K 31/205)	A61K 31/185	X	Disagree: As above, carnitine would fall under carboxylic acids. Retain 31/205.
A61K 31/345 (reference to A61K 31/4178)	A61K 31/4164		Agree.
A61K 31/4515 (reference to A61K 31/4545)	A61K 31/4523		Agree.
A61K 31/475 (reference to A61K 31/4375)	A61K 31/4353		Agree.
A61K 31/58 (reference to A61K 31/704)	A61K 31/7028		Agree; perhaps digitoxin can be added as an e.g. to 31/7028.
A61K 31/615 (reference to A61K 31/621)	A61K 31/60	X	Disagree: Will this transfer note (relating to changes between Int. Cl. <sup>6</sup> and Int. Cl. <sup>7</sup> ) be retained in the “eighth” edition? If so, delete reference to 31/621.
A61K 31/70 (reference to A61K 31/047)	A61K 31/045		Agree: However, I would rather 31/047 was retained (it would preserve the 2-dot substructure to 31/045).
A61K 31/7016 (reference to A61K 31/7032)	A61K 31/7028		Agree.
A61K 31/71 (reference to A61K 31/714)	A61K 31/7135		Disagree: Will this transfer note (relating to changes between Int. Cl. <sup>6</sup> and Int. Cl. <sup>7</sup> ) be retained in the “eighth” edition? If so, then amend accordingly.

IPC/WG/8/5  
Annex I, page 16

A61K 31/737 (reference to A61K 31/727)	A61K 31/726	P	Disagree: retain A61K 31/727 to maintain scope of precedence.
A61K 31/80 (reference to A61K 31/755, 31/795)	A61K 31/74	X	Disagree: replace references with "31/765 to 31/785". The group is essentially residual under 31/74.
A61K 38/04 (reference to A61K 38/31)	A61K 38/22		Disagree: retain reference.
A61K 38/04 (reference to A61K 38/34)	A61K 38/33		Disagree: retain reference.
A61K 38/22 (reference to A61K 38/35)	A61K 38/33		Disagree: retain reference.
A61K 39/295 (reference to A61K 39/285)	A61K 39/275		Disagree: retain reference.
A61L 2/00 (reference to D21H 21/36)	D21H 21/14		Agree.
A61L 9/015 (reference to A61L 9/20)	A61L 9/18	P	Disagree: retain A61L 9/20 to maintain scope of precedence.
A61L 9/18 (reference to A61L 9/22)	A61L 9/16	PX	Disagree: retain A61L 9/22 to maintain scope of precedence.
A61L 15/00 (references to A61L 15/14, 15/08, 15/12, 15/18, 15/40, 15/64)	A61L 15/00 A61L 15/16 A61L 15/42	X	<p>Disagree: The scheme itself needs re-examining, as it combines characteristics of composition and function under one parent (15/16). To retain the sense of the scheme, a 15/16bis1 (characterised by composition) and 15/16bis2 (characterised by function or properties) should logically be incorporated. As this is beyond the scope of this exercise, the following options are available.</p> <ol style="list-style-type: none"> <li>1) Retain all 2-dot groups under 15/00 and leave notes as they are.</li> <li>2) Retain only the 2-dot groups after 15/16 in the scheme, reword note 1 to remove reference to groups 15/08 to 15/12, and delete note two.</li> <li>3) If the desire to adopt the core level groups as currently suggested is strong, then notes 1 and 2 can be deleted, and the sense of note 3 should be reversed (as composition is now only of interest if macromolecular compounds are involved in composition).</li> </ol> <p>I recommend the second option as the best compromise.</p>
A61L 15/00 (reference to A61M 36/14)	A61M 36/00		Agree.
A61L 17/00 (references to A61L 17/04, 17/14)	A61L 17/00	X	Disagree: delete note 1.

IPC/WG/8/5  
Annex I, page 17

A61L 24/00 (references to A61L 24/02, 24/12)	A61L 24/00	X	Disagree: delete note 1.
A61L 27/00 (reference to A61L 27/02, 27/48, 27/50, 27/60)	A61L 27/00	X	Disagree: delete notes 1 and 2.
A61L 29/00 (references to A61L 29/02, 29/12, 29/14, 29/18)	A61L 29/00	X	Disagree: delete notes 1 and 2.
A61L 31/00 (reference to A61L 31/18)	A61L 31/14		Disagree: delete reference to 31/18 from note 2.
A61L 33/00 (references to A61L 33/02, 33/18)	A61L 33/00	X	Disagree: delete note.
A61M (reference to A61F 13/26)	A61F 13/20		Agree.
A61M (reference to A61N 2/10)	A61N 2/00		Agree.
A61M 1/00 (reference to A61F 2/01)	A61F 2/00		It is possible. However, retaining A61F 2/01 would keep all 1-dot groups under A61F 2/00.
A61M 5/32 (reference to A61M 5/158)	A61M 5/14		Agree.
A61M 21/00 (reference to A61G 7/043)	A61G 7/00		Agree.
A61M 37/00 (reference to A61B 17/425)	A61B 17/42		Agree.
A61N 1/05 (reference to A61N 1/06)	A61N 1/04	PX	Disagree: retain A61N 1/06 to maintain scope of precedence.
A61N 1/10 (reference to A61N 1/44)	A61N 1/00	X	Disagree: in this case, the reference will be confusing to core-level examiners, since treatment with ionised gas can be consonant with a form of static electrical application. I recommend retaining A61N 1/44.
A61N 5/02 (reference to A61N 5/01)	A61N 5/00	PX	Disagree: Retain A61N 5/01 to maintain scope of precedence.
A61N 5/06 (reference to A61N 5/01)	A61N 5/00	PX	Disagree: Retain A61N 5/01 to maintain scope of precedence.
A61N 5/10 (reference to A61N 5/01)	A61N 5/00	PX	Disagree: Retain A61N 5/01 to maintain scope of precedence.
A61P 13/00 (reference to A61P 7/10)	A61P 7/00		Agree.
A61P 15/00 (reference to A61P 5/24)	A61P 5/00		Agree.
A62B 17/00 (reference to F41H 1/02)	F41H 1/02		Agree.
A62B 35/00 (reference to B64D 17/30)	B64D 17/00		Agree.
A62B 35/00 (reference to B64D 25/06)	B64D 25/00		Agree.
A62C 3/00 (reference to G21C 9/04)	G21C 9/00		Agree.
A62C 5/00 (reference to A62C 31/02)	A62C 31/00		Agree.
A62C 27/00 (Guide heading reference to B64D 1/16)	B64D 1/00	P	Agree, or else remove the e.g.

IPC/WG/8/5  
Annex I, page 18

A62C 35/00 (reference to A62C 2/08)	A62C 2/00		Agree.
A63B 23/00 (reference to G09B 15/06)	G09B 15/00	P	Disagree: delete e.g. Not a precedence reference as such.
A63B 31/00 (reference to A63B 69/14)	A63B 69/12		Agree.
A63B 33/00 (reference to B63C 11/12)	B63C 11/02		Agree.
A63B 35/00 (reference to B63B 35/71)	B63B 35/00		Disagree: since the destination reference has a reference out itself, and it is conjunction with another destination reference for similar technical matter, it is better to retain B63B 35/71.
A63B 35/00 (reference to B63C 11/46)	B63C 11/00		Agree.
A63B 37/00 (reference to A63B 65/06)	A63B 65/00		Agree.
A63B 59/00 (reference to A63B 67/20)	A63B 67/00		Agree.
A63B 65/00 (reference to A63H 33/18)	A63H 33/00		Agree.
A63B 69/40 (reference to F41J 9/18)	F41J 9/00		Agree.
A63B 71/00 (reference to A63K 3/02)	A63K 3/00		Agree.
A63C (references to B63B 35/79, 35/81, 35/83)	B63B 35/73		Agree, reword to single reference.
A63C 5/12 (reference to A63C 5/056)	A63C 5/00	X	Disagree: retain A63C 5/04 and redirect there.
A63C 19/00 (reference to E04H 4/06)	E04H 4/00		Agree, delete last two references and replace as follows: “swimming or splash baths or pools, coverings therefor E04H 4/00”. The title of E04H 4/00 should be reworded accordingly, also, for clarity.
A63D 13/00 (reference to A63F 7/24)	A63F 7/00		Agree.
A63F 9/02 (reference to A63H 33/18)	A63H 33/00		Agree.
A63F 9/06 (reference to A63F 7/04)	A63F 7/00		Agree.
A63G 9/00 (Guide heading reference to A47D 13/10)	A47D 13/00		Agree: replace twice.
A63H 1/00 (reference to A63H 27/127)	A63H 27/00		Agree.
A63H 5/00 (reference to A63H 1/28)	A63H 1/00		Agree.
A63H 5/00 (reference to F42B 4/16)	F42B 4/00		Agree.
A63H 18/00 (reference to A63H 19/30)	A63H 19/00		Agree.
A63H 25/00 (reference to A63H 19/06)	A63H 19/00		Agree.
A63H 27/00 (reference to A63H 33/20)	A63H 33/00		Agree.
A63H 30/00 (reference to A63H 17/36)	A63H 17/00		Agree.

IPC/WG/8/5  
Annex I, page 19

A63H 30/00 (references to A63H 19/24, 19/28)	A63H 19/00		Agree; replace with single reference..
A63H 33/26 (reference to A63H 29/22)	A63H 29/00		Agree.
A63H 33/28 (reference to A24F 13/30)	A24F 13/00		Agree.
A63H 33/30 (reference to A45C 1/12)	A45C 1/00		Agree.
A63H 33/30 (reference to G07B 9/02)	G07B 9/00		Agree.
A63K (reference to G04F 7/06)	G04F 7/00		Agree.
A63K (reference to G07C 1/22)	G07C 1/00		Agree.

[Annex II follows]

## ANNEX II



**Oifig na bPaitinní**

**Irish Patents Office**

**Redirection of Advanced level notes, references and Precedence/limiting references for Section C**

Please see notes at top of Section A outpointers.

**P** designates a precedence reference which was not identified.

*P* designates an incorrectly identified precedence reference.

Fergal Brady

Irish Patents Office.

Source	Outpointer	Redirected	Remark	Analysis
C01B 19/00	C01B 25/14	C01B 25/00		Agree; perhaps reworded "also containing phosphorus"?
C01B 21/06	C01B 21/08	C01B 21/00	X	Disagree: retain 21/08 (see C01B 21/082 below).
C01B 21/082	C01B 21/08	C01B 21/00	PX	Disagree: retain 21/08 to maintain scope of precedence. (This is a precedence reference.)
C01B 25/00	C01B 15/16	C01B 15/00		Agree.
C01B 25/26	C01B 15/16	C01B 15/00		Agree.
C01B 31/00	C01B 15/10	C01B 15/00		Agree.
C01B 33/00	C01B 15/14	C01B 15/00		Agree.
C01B 33/00	C01B 31/36	C01B 31/30		Agree.
C01B 33/18	C01B 33/158	C01B 33/14		Agree.

IPC/WG/8/5  
Annex II, page 2

C01B 33/20		C01B 15/14	C01B 15/00		Agree.
C01B 35/00		C01B 15/12	C01B 15/00		Agree.
C01B 35/00		C01B 25/08	C01B 25/00		Agree.
C01B 35/00		C01B 31/36	C01B 31/30		Agree.
C01B 39/00		B01J 39/14	B01J 39/00		Agree.
C01C		C01B 17/64	C01B 17/00		Agree.
C01C		C01B 21/08	C01B 21/00		Disagree: retain 21/08 (see C01B 21/082 above).
C01C		C01B 21/092	C01B 21/082		Agree, though it is clearly confusing to classifiers and searcher alike for a reference to metal amides to be directed to a title "Compounds containing nitrogen and non-metals" Can the title be reworded, adding "with or without metal atoms" or the like?
C01C		C01B 21/50	C01B 21/20		Agree.
C01C		C01B 25/08	C01B 25/00		Agree.
C01D		C01B 17/22 C01B 17/64	C01B 17/00		Agree; these references should be combined to form a single reference.
C01D		C01B 21/08	C01B 21/00		Disagree: retain 21/08 (see C01B 21/082 above).
C01D		C01B 21/092	C01B 21/082		Agree, though see note for C01C (21/092) above.
C01D		C01B 21/50	C01B 21/20		Agree.
C01D		C01B 25/08	C01B 25/00		Agree.
C01D		C01C 3/08 C01C 3/14 C01C 3/16 C01C 3/20	C01C 3/00		Agree; these references should be combined to form a single reference.
C01F		C01B 17/42 C01B 17/64	C01B 17/00		Agree; these references should be combined to form a single reference.
C01F		C01B 21/08	C01B 21/00		Disagree: retain 21/08 (see C01B 21/082 above).
C01F		C01B 21/092	C01B 21/082		Agree, though see note for C01C (21/092) above.
C01F		C01B 21/50	C01B 21/20		Agree.
C01F		C01B 25/08	C01B 25/00		Agree.
C01F		C01C 3/08 C01C 3/14 C01C 3/16 C01C 3/20	C01C 3/00		Agree; these references should be combined to form a single reference.
C01G		C01B 17/64	C01B 17/00		Agree.

IPC/WG/8/5  
Annex II, page 3

C01G		C01B 21/08	C01B 21/00		Disagree: retain 21/08 (see C01B 21/082 above).
C01G		C01B 21/092	C01B 21/082		Agree, though see note for C01C (21/092) above.
C01G		C01B 21/50	C01B 21/20		Agree.
C01G		C01B 25/08	C01B 25/00		Agree.
C01G		C01C 3/08 C01C 3/14 C01C 3/16 C01C 3/20	C01C 3/00		Agree; these references should be combined to form a single reference.
C02F 1/24		C02F 1/465	C02F 1/461	P	Disagree: retain 1/465 to maintain scope of precedence.
C02F 1/40		E03F 5/16	E03F 5/14		Disagree: retain e.g. but delete reference (it is part of a reference to E03F 5/14 anyway).
C02F 1/50		C02F 1/467	C02F 1/461	P	Disagree: retain 1/467 to maintain scope of precedence.
C02F 9/00	N	C02F 1/56	C02F 1/54		Agree.
C03B 5/00	N	C03B 5/02 C03B 5/04 C03B 5/14	C03B 5/00	PX	Disagree: delete note, as all groups referred to therein are not retained in the core IPC.
C03B 11/12		C03B 9/38	C03B 9/00	P	Disagree: in order to maintain precedence, C03B 9/38 and its parent 9/30 will have to be retained. The other option is to delete the precedence. If the invention is clearly directed to glass blowers and not glass pressers, the precedence note is really only an informative reference, so this might be the preferred option.
C03B 23/00		C03B 37/14	C03B 37/10		This is a very complex case. 37/14 has itself a precedence reference in the advanced level to 37/025, so maintaining identity between core and advanced level is not trivial. The only way to be sure of maintaining identity of scope is to retain 37/14 and 37/025.
C03B 33/00		C03B 37/16	C03B 37/10		Agree.
C03B 35/00		B65G 49/06	B65G 49/05		Agree.
C03B 37/018		C03B 37/016	C03B 37/014	PX	Disagree: retain 37/016 to maintain scope of precedence.
C03B 37/018		C03C 17/02	C03C 17/00	P	Disagree: the title of C03C 17/22 has no meaning unless C03C 17/02 and C03C 17/06 are also maintained, since it is residual to them. Therefore, I recommend retaining C03C 17/02 and 17/06.
C03B 37/02		C03B 37/04	C03B 37/01	PX	Disagree: retain 37/04 to maintain scope of precedence.
C03C 17/22		C03C 17/44	C03C 17/00	X	Disagree: retain 17/44 to maintain scope of precedence.
C03C 17/23		C03C 17/02	C03C 17/00	PX	Disagree: retain 17/02 to maintain scope of precedence. Also, see note for C03B 23/00.
C03C 17/28		C03C 17/44	C03C 17/00	X	Disagree: retain 17/44 to maintain scope of precedence.
C03C 17/34		C03C 17/44	C03C 17/00	PX	Disagree: retain 17/44 to maintain scope of precedence.



IPC/WG/8/5  
Annex II, page 4

C03C 27/00	G	C03C 8/24	C03C 8/00		Agree.
C03C 27/06		C03B 23/20	C03B 23/00		Agree, though for clarity I would like to see the title of C03B 23/20 incorporated into that of C03B 23/00, perhaps as a two part title.
C04B 2/00		C04B 7/34	C04B 7/00		Agree.
C04B 5/00		B28B 1/54	B28B 1/00		Disagree: I think the relationship between the chemical and mechanical aspects of working molten slag are clearer if B28B 1/54 is retained.
C04B 14/36		C04B 14/34	C04B 14/02	X	Disagree: 14/36 is essentially residual under 14/02. It is necessary to either retain all 2-dot groups under 14/02, or to delete them all in order to maintain consistency with the advanced IPC. I would prefer the former.
C04B 16/04		C04B 16/02	C04B 16/00	PX	Disagree: it is necessary to retain 16/02 to maintain scope of precedence.
C04B 18/18		C04B 18/10	C04B 18/06	P	Disagree: it is necessary to retain 18/10 to maintain scope of precedence.
C04B 24/24		C04B 24/14	C04B 24/12	P	Disagree: it is necessary to retain 24/14 to maintain scope of precedence.
C04B 35/51		G21C 3/62	G21C 3/00		Agree.
C04B 38/00		C04B 5/06	C04B 5/00		Agree.
C04B 40/00		B28B 17/02	B28B 17/00		Agree; though generally the wording of the destination title is reflected in the wording of its reference. Should the wording of the e.g. be changed accordingly? It would be, of course, technically correct only to amend the code.
C04B 41/00	N	C04B 41/91	C04B 41/80		Disagree: redirect to C04B 41/89 (extent of last place rule).
C05G		C05F 11/08 C05F 11/10	C05F 11/00		Agree; these references should be combined to form a single reference.
C06F 5/00		A24F 27/12	A24F 27/00		Agree.
C07B		C07C 67/47	C07C 67/00		Agree.
C07C 1/02		C10L 3/06	C10L 3/00		Agree.
C07C 5/02		C07C 5/52	C07C 5/00	X	Disagree: retain 5/42 and redirect there (this maintains all the 1-dot groups under 5/00).
C07C 5/22		C07C 5/13	C07C 5/02		Agree.
C07C 5/22		C07C 5/373	C07C 5/32		Agree.
C07C 29/03		C07C 29/64	C07C 29/00	X	Disagree: retain 29/64 (more logical).
C07C 29/09		C07C 27/02	C07C 27/00		Agree.
C07C 43/13		C07C 43/11	C07C 43/10	P	Disagree: it is necessary to retain 43/11 to maintain scope of precedence.
C07C 45/27		C07C 45/40	C07C 45/00	X	Agree.
C07C 49/00		C07D 305/12	C07D 305/00		Agree.
C07C 49/76		C07C 49/657 C07C 49/757	C07C 49/587		Agree; these references should be combined to form a single reference.

IPC/WG/8/5  
Annex II, page 5

C07C 51/09		C07C 27/02	C07C 27/00		Agree.
C07C 51/16		C07C 51/145	C07C 51/10	P	Agree.
C07C 51/487		C07C 51/47	C07C 51/42	X	Agree.
C07C 67/333		C07C 67/313 C07C 67/32	C07C 67/30	X	Disagree: it is necessary to retain these groups for a logical structure.
C07C 67/36		C07C 67/10	C07C 67/00	X	Disagree: retain 67/10 to maintain scope of precedence.
C07C 69/00	N	C07C 69/608 C07C 69/95 C07C 69/003 C07C 69/017	C07C 69/00	X	This is a complex case. To preserve consistency of classification it is necessary to maintain all the cited codes, and also to retain 69/007 and 69/013.
C07C 69/00		C07C 43/32	C07C 43/00		Disagree: this is somewhat unsatisfactory as an e.g. as it no longer directs to a place specifically for orthoesters. Redirect to 49/84.
C07C 227/38		C07C 227/34	C07C 227/00	X	Disagree: retain C07C 227/30 and redirect there.
C07C 231/22		C07C 231/20	C07C 231/00	X	Disagree: retain C07C 231/16 and redirect there.
C07C 245/00		C07C 291/08	C07C 291/00	P	Disagree: retain C07C 291/08. 291/00 is a residual group for its predecessors. The reference is essentially limiting, as azoxy compounds would be covered at source but for the reference. This is not clear from the title of 291/00, which explicitly requires a lack of coverage elsewhere. To delete the place undermines the confidence of the classifier in the scheme. We must always bear in mind that the scheme should make sense to the user.
C07C 249/00		C07C 245/12	C07C 245/00		Agree.
C07C 251/00		C07C 245/12	C07C 245/00		Agree.
C07D 211/20		C07D 211/30	C07D 211/18	X	Disagree: retain 211/30.
C07D 211/56		C07D 211/38	C07D 211/36	PX	This is technically a precedence reference with respect to nitro groups. Retain 211/38.
C07D 213/28		C07D 213/44	C07D 213/24	X	Disagree: retain 213/44.
C07D 213/36		C07D 213/26	C07D 213/24	PX	This is technically a precedence reference with respect to nitro groups. Retain 213/26.
C07D 213/72		C07D 213/61	C07D 213/60	PX	This is technically a precedence reference with respect to nitro groups. Retain 213/61.
C07D 215/38		C07D 215/18	C07D 215/16	PX	This is technically a precedence reference with respect to nitro groups. Retain 215/18.
C07D 231/38		C07D 231/16	C07D 231/14	PX	This is technically a precedence reference with respect to nitro groups. Retain 231/16.
C07D 233/88		C07D 233/91	C07D 233/66	X	Disagree: though the reference is (because of the LPR) informative, it is in keeping with what has gone before in the last 4 comments to retain 233/91.
C07D 239/42		C07D 239/30	C07D 239/28	PX	This is technically a precedence reference with respect to nitro groups. Retain 239/30.

IPC/WG/8/5  
Annex II, page 6

C07D 239/42		C07D 239/69	C07D 239/28	PX	Disagree: though the reference is (because of the LPR) informative, it is better to keep 239/69 than to delete it. It does not make sense to make this into a precedence reference to a general place (which is effectively what redirecting will achieve).
C07D 239/46		C07D 239/69	C07D 239/28	PX	Disagree: see note above for C07D 239/42
C07D 295/12		C07D 295/06	C07D 295/04	PX	This is technically a precedence reference with respect to nitro groups. Retain 295/06.
C07D 457/00		C07D 519/02	C07D 519/00		Agree.
C07D 461/00		C07D 519/04	C07D 519/00		Agree.
C07F 9/02		C07H 11/04	C07H 11/00		Agree.
C07G 13/00		C07C 50/14	C07C 50/00		Agree.
C07G 13/00		C07C 235/12	C07C 235/04		Agree.
C07G 13/00		C07D 213/66 C07D 213/67	C07D 213/63		Agree; replace with single reference.
C07G 13/00		C07D 307/62	C07D 307/56		Agree.
C07G 13/00		C07D 311/72	C07D 311/70		Agree.
C07G 13/00		C07D 339/04	C07D 339/00		Agree.
C07G 13/00		C07D 475/14	C07D 475/00		Agree.
C07G 13/00		C07F 15/03	C07F 15/02		Agree.
C07G 17/00		C07C 309/62	C07C 309/01		Agree; it might be desirable for this to be multipart-titled, incorporating the title of C07C 309/62, in order to make this scope clear.
C07H		C07C 59/105	C07C 59/01		Agree; place this reference after that for 59/00.
C07H		C07C 59/285	C07C 59/00		Agree; place this reference before that for 59/01.
C07H		C07C 255/16	C07C 255/01		Agree.
C07H 11/00		C07H 5/02 C07H 5/08	C07H 5/00		Agree; replace with single reference.
C07H 11/00		C07H 13/12	C07H 13/00		Agree.
C07K		C07D 519/02	C07D 519/00		Agree.
C07K 7/08		C07K 14/595 C07K 14/655	C07K 14/575		Agree; replace with single reference.
C07K 7/08		C07K 14/68	C07K 14/665		Agree.
C07K 14/575		C07K 14/695	C07K 14/665		Agree.
C08C 4/00		C08C 3/02	C08C 3/00		Agree.
C08C 19/00		C08C 19/30	C08C 19/00	X	Disagree: retain 19/30. The reference to C08K therein is limited by the reference to 19/30.

IPC/WG/8/5  
Annex II, page 7

C08F 4/28		C08F 4/40	C08F 4/00	X	Disagree: the reference is partially limiting. Retain 4/40.
C08F 4/658		C08F 4/653 C08F 4/657	C08F 4/652	X	Disagree: the group 4/658 is residual, but the groups it relates to have been deleted. There are two solutions: 1) retain all subgroups of 4/652; 2) Delete all subgroups of 4/652. Population of groups should determine the answer.
C08G 12/00		C08G 8/16	C08G 8/04		Agree. I wonder , however, whether 8/38 should be retained, as in the core level, art from this advanced group may collect in 8/04 instead of 8/00.
C08G 16/00		C08G 69/38	C08G 69/00		Agree.
C08G 18/09		C08G 18/79	C08G 18/77		Agree.
C08G 18/66		C08G 18/52	C08G 18/40		Disagree: retain 18/52 to maintain scope of title.
C08G 63/00	N	C08G 63/87	C08G 63/82		Agree.
C08G 63/46		C08G 63/20	C08G 63/16	P	Disagree: retain 63/20 to maintain scope of precedence.
C08G 63/66		C08G 63/42 C08G 63/58	C08G 63/12	P	Disagree: these are precedence references. Either the groups will have to be retained, plus all their parent groups which have been omitted (63/40, 63/56, 63/52) or 63/66 should be omitted from the core-level scheme. The latter is probably simpler, though this will have to be settled by population studies.
C08G 65/00		C08G 75/12	C08G 75/00		Agree.
C08G 65/34		C08G 65/28	C08G 65/26	P	Disagree: retain 65/28 to maintain scope of precedence.
C08G 69/00		C08G 73/08	C08G 73/06		Agree.
C08J		C04B 18/20	C04B 18/18		Agree.
C08J 9/24		C08J 9/232	C08J 9/22		Agree.
C08L 9/10		C08L 9/04	C08L 9/02		Agree.
C08L 9/10		C08L 9/08	C08L 9/06		Agree.
C08L 25/08		C08L 29/08	C08L 29/02	P	Disagree: retain 29/08 to maintain scope of precedence.
C08L 29/02		C08L 29/14	C08L 29/00	PX	Disagree: retain 29/14 to maintain scope of precedence.
C08L 67/00		C08L 79/08	C08L 79/04		Agree.
C08L 77/00		C08L 79/06 C08L 79/08	C08L 79/04		Agree; replace with single reference.
C08L 83/06		C08L 83/12	C08L 83/10	P	Disagree: retain 83/12 to maintain scope of precedence.
C09B 67/10		C09B 67/14 C09B 67/18	C09B 67/00	X	Disagree: retain 67/14 and 67/18 to maintain scope of precedence.
C09B 67/42		C09B 67/40	C09B 67/00	X	Disagree: this groups is based on combinations of 1-dot groups, only one of which currently survives in the core level. Two options exist: 1) delete 67/42, 2) reinstate the 1-dot groups between 67/34 and 67/42 (namely,

IPC/WG/8/5  
Annex II, page 8

C09C 1/62		C21B 15/02	C21B 15/00		Agree: while this is no longer such an illustrative example for referral, it is still accurate.
C09C 1/62		C22B 5/20	C22B 5/00		Agree.
C09D		B27K 5/02	B27K 5/00		Agree.
C09D 151/00		C09D 155/02	C09D 155/00		Agree.
C09D 161/20		C09D 161/04	C09D 161/00	PX	Disagree: this is technically limiting, as aminophenols do contain hydrogens attached to nitrogens (the wording of the title is itself less than ideal). As a result, 16/04 should be retained.
C09D 167/00		C09D 177/12	C09D 177/00		Agree.
C09D 167/00		C09D 179/08	C09D 179/00		Agree.
C09D 171/00		C09D 181/02 C09D 181/06	C09D 181/00		Agree; replace with single reference.
C09D 177/00		C09D 179/06 C09D 179/08	C09D 179/00		Agree; replace with single reference.
C09D 183/06		C09D 183/12	C09D 183/10	P	Disagree: retain 183/12 to maintain scope of precedence.
C09H 3/00		A23J 1/10	A23J 1/00		Agree.
C09J 151/00		C09J 155/02	C09J 155/00		Agree.
C09J 167/00		C09J 177/12	C09J 177/00		Agree.
C09J 167/00		C09J 179/08	C09J 179/00		Agree.
C09J 171/00		C09D 181/02 C09D 181/06	C09D 181/00		Agree; replace with single reference.
C09J 177/00		C09D 179/06 C09D 179/08	C09D 179/00		Agree; replace with single reference.
C09K 13/00	N	C09K 13/02 C09K 13/12	C09K 13/00	X	
C09K 15/00	N	C09K 15/02	C09K 15/00	X	Disagree: delete note, as all groups referred to therein are not retained in the core IPC.
C09K 15/00	N	C09K 15/34	C09K 15/00	X	Disagree, redirect to 15/32 (local LPR).
C09K 17/00	N	C09K 17/50	C09K 17/40		Agree.
C09K 19/00	N	C09K 19/02	C09K 19/00	X	Disagree, redirect to 19/04 (local LPR).
C09K 19/00	N	C09K 19/40	C09K 19/04		Disagree: reinstate 19/40. See comment for C09K 19/42 below. (This comment relates to Notes 2 and 3).

IPC/WG/8/5  
Annex II, page 9

C09K 19/42		C09K 19/40	C09K 19/04	X	Disagree: reinstate 19/40. 19/42 relates to combinations of groups between 19/06 and 19/40. If any of these groups are missing, then art located here in the advanced level may end up elsewhere in the core level. In theory, all groups between 19/06 and 19/40 will have to be reinstated to ensure exact identity of placement. However, it may be sufficient to reinstate all groups to 2-dot level in that interval, namely 19/36, or to 3-dots to ensure a close enough match. The exact solution can only be determined by an analysis of art currently residing in 19/40.
C09K 21/00	N	C09K 21/02 C09K 21/14	C09K 21/00	X	Disagree: delete note, as only one group remains, and LPR is redundant.
C10B		E21B 43/295	E21B 43/00		Agree.
C10G 11/00		C10G 9/34	C10G 9/00		Agree.
C10G 21/00		C10G 73/02	C10G 73/00		Agree.
C10G 33/00		C10G 7/04	C10G 7/00		Agree.
C10G 45/00	N	C10G 45/32 C10G 45/44 C10G 45/58	C10G 45/00	X	Disagree: the note is essentially limiting, as it directs what would ordinarily be a multi-aspect classification elsewhere. The groups should be retained. In view of this, it probably makes sense to keep all 1-dot groups under 45/00.
C10G 47/00		C10G 1/06	C10G 1/00	P	Agree: this is not a precedence note.
C10G 49/00		C10G 45/32 C10G 45/44 C10G 45/58	C10G 45/00		Disagree: reinstate all cited groups. See comment for C10G 45/00 above.
C10G 75/00		C10G 7/10	C10G 7/00	P	Disagree: this is a precedence reference, and 7/10 should be retained to maintain scope of precedence.
C10G 75/00		C10G 9/16	C10G 9/00	P	Disagree: this is a precedence reference, and 9/16 should be retained to maintain scope of precedence.
C10H		C07C 11/24	C07C 11/00		Agree: The reference in C07C 11/24 (to C10H) should be moved to C07C 11/00 in the core version.
C10J		E21B 43/295	E21B 43/00		Agree.
C10K 1/00		C01B 3/50	C01B 3/00		Agree.
C10M		C03B 40/02	C03B 40/00		Agree.
C10M		A21D 8/08	A21D 8/00		Agree, though this is not so illustrative an example anymore.
C10M 105/02		C10M 101/02	C10M 101/00		Agree.
C10M 107/20		C10M 107/18	C10M 107/00	PX	Disagree: retain 107/18 and 107/02 to maintain scope of precedence.

IPC/WG/8/5  
Annex II, page 10

C10M 123/00		C10M 113/16	C10M 113/00		Disagree: while informative, will a core-level examiner understand the convolution of the reference in combination with the title? It would be clearer to retain 113/16.
C10M 127/00		C10M 159/04	C10M 159/00		Agree.
C10M 129/68		C10M 129/66	C10M 129/02	X	Disagree: it is more logical to retain this reference.
C10M 133/04		C10M 149/22	C10M 149/00		Agree.
C10M 145/00		C10M 143/18	C10M 143/00		Agree.
C10M 159/00		C10M 129/56	C10M 129/26		Agree.
C10M 171/00		C10M 101/02	C10M 101/00		Agree.
C10M 171/00		C10M 121/02	C10M 121/00		Agree.
C10M 171/00		C10M 159/04	C10M 159/00		Agree.
C11C 3/00		C07C 309/62	C07C 309/01		Agree: see note for C07G 17/00 above.
C11D 1/12		C11D 3/065	C11D 3/04	P	Disagree: it is necessary to retain 3/065 and its parent 3/06 to maintain scope of precedence.
C11D 1/52		C11D 3/07	C11D 3/04	P	Disagree: it is necessary to retain 3/07 (and its parent 3/06) to maintain scope of precedence.
C11D 1/72		C11D 3/075	C11D 3/04	P	Disagree: it is necessary to retain 3/075 (and its parent 3/06) to maintain scope of precedence.
C11D 7/00	N	C11D 7/46	C11D 7/40		Agree.
C11D 9/00		C11D 15/04	C11D 15/00		Agree.
C11D 17/00		C11D 13/14	C11D 13/00		Agree.
C11D 19/00		C07C 31/22	C07C 31/18		Agree.
C12C		C12P 7/06	C12P 7/04		Agree.
C12C 7/00		C12C 1/18	C12C 1/00		Agree: The reference in C12C 1/18 (to A23L) should be moved to C12C 1/00 in the core version.
C12C 13/00		C12C 12/04	C12C 12/00		Agree.
C12H		C12G 1/10 C12G 1/12	C12G 1/00		Agree; replace with a single reference.
C12H		C12G 3/06	C12G 3/00		Agree.
C12H 3/00		C12F 3/06 C12G 3/08	C12F 3/00		Agree; replace with a single reference.
C12M		A01C 3/02	A01C 3/00		Agree.
C12M		C12J 1/10	C12J 1/00		Agree.

IPC/WG/8/5  
Annex II, page 11

C12P 17/00		C12P 13/24	C12P 13/04	P	Disagree: redirect to 13/22. The precedence applies to all (surviving) groups under 13/04.
C12P 19/00		C12P 7/58	C12P 7/40		Agree.
C12P 19/02		C12P 7/60	C12P 7/40		Agree.
C12P 33/00	N	C12P 33/02 C12P 33/20	C12P 33/00	X	Disagree: reword "In this group, the following terms are used..."
C13C 1/00		C08B 30/02	C08B 30/00		Agree.
C13C 3/00		C08B 30/10	C08B 30/00		Agree.
C14C 13/00		C14C 3/14	C14C 3/00		Agree.
C21B 3/00		C21C 1/06	C21C 1/00		Agree.
C21B 15/00		C25C 1/06	C25C 1/00		Agree.
C21C 7/072		C21C 7/064	C21C 7/04	X	Disagree: retain 7/064 to maintain scope of precedence.
C21D 3/00		C21D 1/72	C21D 1/68		Agree.
C21D 9/04		E01B 31/18	E01B 31/00		Agree.
C22B 3/00	N	C22B 19/34	C22B 19/00		Disagree: this is a double purpose indexing scheme, and will probably be abolished. DE are acting as rapporteur for the consideration of this particular scheme, and a definitive decision on the fate of C22B 19/34 should await consideration of their findings.
C22B 3/20		C22B 3/18	C22B 3/00	PX	Disagree: retain 3/18 to maintain scope of precedence.
C22C 30/00	N	C22C 30/02 C22C 30/06	C22C 30/00	X	Disagree: delete note (redundant local LPR).
C23C		B21C 23/22	B21C 23/00		Agree.
C23C 2/00	G	B22D 23/04	B22D 23/00		Disagree: the example is no longer as clear, so I would recommend deleting the reference to B22D 23/04.
C23C 2/00	G	B23K 5/18	B23K 5/00		Disagree: the example is no longer as clear, so I would recommend deleting the reference to B23K 5/18.
C23C 2/14		G05D 5/02	G05D 5/00		Agree.
C23C 2/30		C23C 2/22	C23C 2/14	P	Disagree: retain 2/22 to maintain scope of precedence.
C23C 4/00		C22C 47/16	C22C 47/00		Agree.
C23C 8/06		C23C 8/36	C23C 8/06	PX	Disagree: delete precedence note, as source and destination are identical in core level IPC.
C23C 14/46		C23C 14/40	C23C 14/36	P	Disagree: retain 14/40 to maintain scope of precedence.
C23C 18/16		C23C 18/54	C23C 18/00	PX	Disagree: retain 18/54 to maintain scope of precedence.
C23C 22/00	N	C23C 22/86	C23C 22/00	X	Disagree: redirect to 22/82 (local LPR under 22/00).



IPC/WG/8/5  
Annex II, page 12

C23F		C10G 7/10	C10G 7/00		Disagree: retain 7/10. See note for C10G 75/00 above.
C23F		C10G 9/16	C10G 9/00		Disagree: retain 9/16. See note for C10G 75/00 above.
C23G 3/00		C23G 5/04	C23G 5/02		Agree.
C23G 5/00	N	C23G 5/06	C23G 5/00	X	Disagree: redirect to 5/032 (local LPR under 5/00).
C25B 7/00		C07K 1/26	C07K 1/14		Agree.
C25C 7/00		C25C 3/06 C25C 3/22	C25C 3/00		Agree; replace with a single reference.
C25D		D06Q 1/04	D06Q 1/00		Agree.
C25D 3/02		C25D 5/32	C25D 5/24	P	Disagree: redirect to 5/26. (Precedence relates to all (surviving) groups under and including 5/24.
C30B 15/30		C30B 15/28	C30B 15/20		Agree.
C30B 29/00	N	C30B 29/58	C30B 29/00	X	Disagree: redirect to 29/46.(local LPR under part of 29/00).
C30B 33/02		C30B 33/04 C30B 33/06	C30B 33/00	X	Disagree: retain both 33/04 and 33/06 to maintain scope of precedence.

[Annex III follows]

---

# Swedish Patent and Registration Office

Checking of core/advanced notes and references

August 9th, 2002

---

## "COMPLEX CASES"

### Proposal

(in response to IPC/WG/7/7, paragraphs 21 and 22)

Only groups relevant to the analysis are shown, groups on grey background belong to the advanced level.

### TITLES AND REFERENCES

#### 1. B01D 71/76

- |         |  |
|---------|--|
| 71 / 00 | Semi-permeable membranes for separation processes or apparatus characterised by the material; Manufacturing processes specially adapted therefor                               |
| 71 / 06 | • Organic material   |
| 71 / 08 | • • Polysaccharides  |
| 71 / 24 | • • Rubbers  |
| 71 / 26 | • • Polyalkenes  |
| 71 / 28 | • • Polymers of vinyl aromatic compounds   |
| 71 / 30 | • • Polyalkenyl halides  |
| 71 / 38 | • • Polyalkenylalcohols; Polyalkenylesters; Polyalkenylethers; Polyalkenylaldehydes; Polyalkenylketones; Polyalkenylacetals; Polyalkenylketals                                 |
| 71 / 40 | • • Polymers of unsaturated acids or derivatives thereof, e.g. salts, amides, imides, nitriles, anhydrides, esters   |
| 71 / 44 | • • Polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds, not provided for in a single one of groups 71/26 to 71/42                                |
| 71 / 46 | • • Epoxy resins   |
| 71 / 48 | • • Polyesters   |
| 71 / 50 | • • Polycarbonates   |
| 71 / 52 | • • Polyethers   |
| 71 / 54 | • • Polyureas; Polyurethanes   |
| 71 / 56 | • • Polyamides, e.g. polyester-amides  |
| 71 / 58 | • • Other polymers having nitrogen in the main chain, with or without oxygen or carbon only  |
| 71 / 66 | • • Polymers having sulfur in the main chain, with or without nitrogen, oxygen or carbon only  |
| 71 / 70 | • • Polymers having silicon in the main chain, with or without sulfur, nitrogen, oxygen or carbon only   |
| 71 / 72 | • • Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds, not provided for in a single one of groups 71/46 to 71/70 |
| 71 / 74 | • • Natural macromolecular material or derivatives thereof (71/08, 71/24 take precedence)  |
| 71 / 76 | • • <b>Macromolecular material not specifically provided for in a single one of groups 71/08 to 71/74 (rubbers in general 71/24)</b>   |

A last place rule is in force in this main group. This means there are two alternatives: either move all two-dot groups to the core level or move all subgroups to 71/06 to the advanced level. **Since a majority of the two-dot groups belong to the advanced level we propose the latter solution.**

## **2. B01J 23/54, B01J 23/76**

- 23 / 00 Catalysts comprising metals or metal oxides or hydroxides, not provided for in group 21/00 (- - -)
- 23 / 02 • of the alkali- or alkaline earth metals or beryllium
- 23 / 06 • of zinc, cadmium or mercury
- 23 / 08 • of gallium, indium or thallium
- 23 / 10 • of rare earths
- 23 / 12 • of actinides
- 23 / 14 • of germanium, tin or lead
- 23 / 16 • of arsenic, antimony, bismuth, vanadium, niobium, tantalum, polonium, chromium, molybdenum, tungsten, manganese, technetium or rhenium
- 23 / 38 • of noble metals
- 23 / 54 • • **combined with metals, oxides or hydroxides provided for in groups 23/02 to 23/36**
- 23 / 70 • of the iron group metals or copper
- 23 / 76 • • **combined with metals, oxides or hydroxides provided for in groups 23/02 to 23/36**

A last place rule is in force in this main group. This means there are two alternatives: either move all one-dot groups in the interval 23/02 - 23/16 to the core level or move 23/54 and 23/76 to the advanced level. A majority of those one-dot groups belong to the core level. Both 23/54 and 23/76 have several subgroups that belong to the core level. **For these reasons we propose moving 23/08, 23/12 and 23/14 to the core level. "23/36" should be replaced by "23/16" in the titles of 23/54 and 23/76.**

## **3. B01J 103:00**

**This is an indexing group, so it should belong to the advanced level.**

## **4. B26B 19/38**

- 19 / 00 Clippers or shavers operating with a plurality of cutting edges, e.g. hair clippers, dry shavers
- 19 / 02 • of the reciprocating-cutter type
- 19 / 04 • • Cutting heads therefor; Cutters therefor; Securing equipment thereof
- 19 / 12 • of the oscillating-cutter type; Cutting heads therefor; Cutters therefor (19/04 takes precedence)
- 19 / 14 • of the rotary-cutter type; Cutting heads therefor; Cutters therefor (19/04 takes precedence)
- 19 / 38 • **Details of, or accessories for, hair clippers, or dry shavers, e.g. housings, casings, grips, guards (cutters, cutting heads 19/04, 19/12, 19/14; - - -)**

There are two alternatives: either move 19/04, 19/12 and 19/14 to the core level or move 19/38 to the advanced level. **Since it is a relatively small number of groups, and since it seems beneficial for the symmetry of the scheme, we propose the first solution.**

## **5. B62D 21/18**

- 21 / 00 Understructures, i.e. chassis frame on which a vehicle body may be mounted (- - -)
- 21 / 02 • comprising longitudinally or transversely arranged frame members
- 21 / 06 • of X-shaped or fork-shaped construction, i.e. having members which form an X or fork as the frame is seen in plan view
- 21 / 07 • wide-hipped frame type, i.e. a wide box-shaped mid portion with narrower sections extending from said mid portion in both fore and aft directions
- 21 / 08 • built-up with interlaced cross members ("Fachwerkrahmen")
- 21 / 09 • Means for mounting load bearing surfaces
- 21 / 10 • in which the main member is plate-like
- 21 / 11 • with resilient means for suspension
- 21 / 12 • assembled from readily-detachable parts
- 21 / 14 • of adjustable length or width
- 21 / 15 • having impact absorbing means, e.g. a frame designed to permanently or temporarily change shape or dimension upon impact with another body (- - -)
- 21 / 16 • having fluid storage compartment
- 21 / 17 • forming fluid or electrical conduit means or having other means to accommodate the transmission of a force or signal
- 21 / 18 • characterised by the vehicle type and not provided for in groups 21/02 to 21/17**

There are two alternatives: either move all one-dot groups to the core level or move 21/18 to the advanced level. **Since there are relatively many groups involved, the majority of them belonging to the advanced level, we propose the latter alternative.**

## **6. F02B 19/16**

- 19 / 00 Engines with precombustion chambers
- 19 / 02 • the chamber being periodically isolated from its cylinder
- 19 / 06 • with auxiliary piston in chamber for transferring ignited charge to cylinder space
- 19 / 08 • the chamber being of air-swirl type
- 19 / 10 • with fuel introduced partly into pre-combustion chamber, and partly into cylinder (19/02 to 19/08 take precedence)
- 19 / 12 • with positive ignition (19/02 to 19/10 take precedence)
- 19 / 14 • with compression ignition (19/02 to 19/10 take precedence)
- 19 / 16 • Chamber shapes or constructions not specific to groups 19/02 to 19/10**

There are two alternatives: either move all one-dot groups to the core level or move 19/16 to the advanced level. **Since there are relatively many groups involved, and the majority of them belong to the advanced level, we propose the latter alternative.**

## **7. F02B 25/20**

- 25 / 00 Engines using fresh charge for scavenging cylinders
- 25 / 02 • using unidirectional scavenging
- 25 / 14 • using reverse-flow scavenging, e.g. with both inlet and outlet ports arranged near bottom of piston stroke
- 25 / 20 • **Means for reducing the mixing of charge and combustion residues or for preventing escape of fresh charge through outlet ports, not provided for in, or of interest apart from, groups 25/02 to 25/18**

There are two alternatives: either move all one-dot groups to the core level or move 25/20 to the advanced level. **Since there are relatively few groups involved we propose the first alternative. In the title of 25/20 "25/18" should be replaced by "25/14".**

## **8. F02M 59/44**

- 59 / 00 Pumps specially adapted for fuel-injection and not provided for in groups 39/00 to 57/00 (- - -)
- 59 / 02 • of reciprocating-piston type
- 59 / 12 • having other positive-displacement pumping elements, e.g. rotary
- 59 / 16 • characterised by having multi-stage compression of fuel
- 59 / 18 • characterised by the pumping action being achieved through release of pre-compressed springs
- 59 / 20 • Varying fuel delivery in quantity or timing
- 59 / 38 • Pumps characterised by adaptations to special uses or conditions
- 59 / 44 • **Details, component parts, or accessories not provided for in, or of interest apart from, the apparatus of groups 59/02 to 59/42**

There are two alternatives: either move all one-dot groups to the core level or move 59/44 to the advanced level. **Since there are relatively many groups, and the majority of them belong to the advanced level, involved we propose the latter alternative. "59/42" should be replaced by "59/38" in the title of 59/44.**

## **9. F02M 61/16**

- 61 / 00 Fuel injectors not provided for in groups 39/00 to 57/00
- 61 / 02 • of valveless type
- 61 / 04 • having valves (- - -)
- 61 / 14 • Arrangements of injectors with respect to engines; Mounting of injectors
- 61 / 16 • **Details not provided for in, or of interest apart from, the apparatus of groups 61/02 to 61/14**

There are two alternatives: either move all one-dot groups to the core level or move 61/16 to the advanced level. **Since there are relatively few groups involved we propose the first alternative.**

## **10. F04C 18/30**

18 / 00 Rotary-piston pumps (- - -)

### **Note**

**Group 18/30 takes precedence over groups 18/02 to 18/28 and 18/48 to 18/56.**

- 18 / 02 • of arcuate-engagement type, i.e. with circular translatory movement of co-operating members, each member having the same number of teeth or tooth-equivalents
- 18 / 08 • of intermeshing-engagement type, i.e. with engagement of co-operating members similar to that of toothed gearing
- 18 / 22 • of internal-axis type with equidirectional movement of co-operating members at the points of engagement, or with one of the co-operating members being stationary, the inner member having more teeth or tooth-equivalents than the outer member
- 18 / 24 • of counter-engagement type, i.e. the movement of co-operating members at the points of engagement being in opposite directions
- 18 / 30 • **having the characteristics covered by two or more of groups 18/02, 18/08, 18/22, 18/24, 18/48, or having the characteristics covered by one of these groups together with some other type of movement between co-operating members**
- 18 / 48 • Rotary-piston pumps with non-parallel axes of movement of co-operating members [5]

This case also involves the note after the main group title. Since the note affects the scope of all other one-dot groups there are only two alternatives: moving all subgroups of 18/00 to the advanced level or moving 18/22, 18/24 and 18/48 to the core level. 18/30 can not be moved to the advanced level on its own, since it has precedence over the other one-dot groups and a move would change the classification philosophy of the main group. **Since the number of groups to be moved is rather small in relation to the total number of subgroups we propose the latter alternative. Furthermore, 18/02, 18/08 and 18/30 all have subgroups that belong to the core level. The note should be reworded to say "Group 18/30 takes precedence over groups 18/02 to 18/24 and 18/48".**

## **11. F16D 67/00**

67 / 00 Combinations of couplings and brakes; Combinations of clutches and brakes (- - - ; **control of those combinations B60K 41/00, e.g. B60K 41/24**)

**B 60 K - - - ; CONJOINT CONTROL OF DRIVE UNITS; - - -**

41 / 00 **Conjoint control of drive units; Conjoint control of at least two sub-units thereof (- - -)**

- 41 / 24 • of clutch and brake system

The reference to "B60K 41/00, e.g. 41/24" appears to be inaccurate and of informative character, and could probably be removed. If this is considered to be an exercise that is beyond the task of checking of references **the example in the reference should be removed.**

## 12. F16F 9/36

- 9 / 00 Springs, vibration-dampers, shock-absorbers, or similarly-constructed movement-dampers using a fluid or the equivalent as damping medium (- - -)
- 9 / 32 • Details
- 9 / 36 • • **Special sealings, including sealings or guides for piston-rods (sealing of moving parts in general F16J 15/16 to F16J 15/56)**

## **F 16 J PISTONS; CYLINDERS; PRESSURE VESSELS IN GENERAL; SEALINGS**

- 15 / 00 Sealings (- - -)
- 15 / 02 • between relatively-stationary surfaces (15/46, 15/48 take precedence)
- 15 / 16 • between relatively-moving surfaces (- - -)
- 15 / 44 • Free-space packings
- 15 / 46 • with packing ring expanded or pressed into place by fluid pressure, e.g. inflatable packings (- - -)
- 15 / 50 • between relatively-movable members, by means of a sealing without relatively-moving surfaces, e.g. fluid-tight sealings for transmitting motion through a wall
- 15 / 53 • using magnetic means
- 15 / 54 • Other sealings for rotating shafts
- 15 / 56 • Other sealings for reciprocating rods

This is an informative reference, from a special place to a general place. **It could simply be removed from the scheme.** If this is considered to be an exercise that is beyond the task of checking of references the reference could be modified to say "sealings in general F16J 15/00".

## 13. F16L 9/14

- 9 / 00 Rigid pipes
- 9 / 01 • of wood (9/16 to 9/22 take precedence)
- 9 / 02 • of metal (9/16 to 9/22 take precedence; - - -)
- 9 / 08 • of concrete, cement, or asbestos cement, with or without reinforcement (9/16 to 9/22 take precedence)
- 9 / 10 • of glass or ceramics, e.g. clay, clay tile, porcelain (9/16 to 9/22 take precedence)
- 9 / 12 • of plastics with or without reinforcement (9/16 to 9/22 take precedence)
- 9 / 14 • **Compound tubes, i.e. made of materials not wholly covered by any one of the preceding groups (9/16 to 9/22 take precedence)**
- 9 / 16 • wound from sheets or strips, with or without reinforcement
- 9 / 17 • obtained by bending a sheet longitudinally and connecting the edges
- 9 / 18 • Double-walled pipes; Multi-channel pipes or pipe assemblies (- - -)
- 9 / 21 • made of sound-absorbing materials or with sound-absorbing structure
- 9 / 22 • Pipes composed of a plurality of segments

This really is a complex case... At first sight the simple solution appears to be to remove the i.e. from 9/14, but in view of 9/08 and 9/12 covering pipes with reinforcements this would change the scope of the group. Given that the whole main group is full of PX situations there are only two alternatives: moving all subgroups to the advanced level or moving all one-dot groups to the core level. **Since there are three core level groups we suspect that the file size in 9/00 would be too large if all subgroups are moved to the advanced level, so we propose the latter alternative.**

#### **14. F16L 33/22**

- 33 / 00 Arrangements for connecting hoses to rigid members (- - -); Rigid hose-connectors, i.e. single members engaging both hoses (- - -)

##### **Note**

##### **Groups 33/01 and 33/26 take precedence over other subgroups**

- |                |   |
|----------------|---|
| 33 / 01        | • specially adapted for hoses having a multi-layer wall   |
| 33 / 02        | • Hose-clips  |
| 33 / 16        | • with sealing or securing means using fluid pressure   |
| 33 / 18        | • characterised by the use of additional sealing means  |
| 33 / 20        | • Undivided rings, sleeves, or like members contracted on the hose or expanded inside the hose by means of tools; Arrangements using such members |
| <b>33 / 22</b> | <b>• with means not mentioned in the preceding groups for gripping the hose between inner and outer parts</b>                                     |
| 33 / 24        | • with parts screwed directly on or into the hose (33/22 takes precedence)  |
| 33 / 26        | • specially adapted for hoses made of metal   |
| 33 / 28        | • for hoses with one end terminating in a radial flange or collar   |
| 33 / 30        | • comprising parts inside the hoses only (33/24 takes precedence)   |
| 33 / 32        | • comprising parts outside the hoses only (33/24 takes precedence)  |
| 33 / 34        | • with bonding obtained by vulcanisation, gluing, melting, or the like  |

This case also involves the note after the main group title. There are two main alternatives: either move all subgroups to the advanced level or make some adjustments to the distribution. **Since the number of subgroups is rather high we suspect 33/00 would be overpopulated if all subgroups are moved to the advanced level. Therefore we propose to make adjustments instead.**

A consequence of the note is that if we keep any other one-dot group in the core level we must move 33/01 and 33/26 to the core level in order not to change the scope of that group. As regards 33/22, there are two alternatives: either move also 33/16 and 33/18 to the core level or move 33/22 to the advanced level. **Since 33/01 and 33/26 must be moved to the core level, we propose to compensate by moving 33/22, which is of residual character anyway, to the advanced level.**

#### **15. F23D 14/20**

- 14 / 00 Burners for combustion of a gas, e.g. of a gas stored under pressure as a liquid
- 14 / 20 • Non-premix gas burners, i.e. in which gaseous fuel is mixed with combustion air on arrival at the combustion zone (14/30 to 14/44 take precedence)**
- |         |   |
|---------|---|
| 14 / 30 | • Inverted burners, e.g. for illumination   |
| 14 / 32 | • using a mixture of gaseous fuel and pure oxygen or oxygen-enriched air (14/38 takes precedence) |



- 14 / 34 • Burners specially adapted for use with means for pressurising the gaseous fuel or the combustion air (14/38 takes precedence)
- 14 / 38 • Torches, e.g. for cutting, brazing, welding or heating (- - -)

**This should have been a PX case in the list of outpointers - why is it not?** Redirection of the precedence reference to the hierarchically superior group 14/00 makes no sense, so there are two solutions, either move 14/20 to the advanced level or move the one-dot groups to the core level. **14/20 is a group of residual character, so moving it to the advanced level would not cause great harm to the core level.**

## NOTES

### 1. B21G 1/00

- 1 / 00 Making needles used for performing operations (- - -)

#### Note

**Group 1/12 takes precedence over groups 1/02 to 1/10.**

- 1 / 02 • of needles with eyes, e.g. sewing-needles, sewing-awls
- 1 / 04 • • of needles specially adapted for use in machines or tools
- 1 / 06 • of needles with hook or barb, e.g. crochet hooks
- 1 / 08 • of hollow needles or needles with hollow end, e.g. hypodermic needles, larding-needles (1/10 takes precedence)
- 1 / 10 • equipped with locking means for the material to be drawn through, e.g. for repairing tubeless tyres
- 1 / 12 • Securing, cleaning-off burrs, reconditioning, polishing, grinding

**The note only affects groups that belong to the advanced level, and should therefore only appear in the advanced level.**

### 2. B60B 23/00

- 23 / 00 Attaching rim to wheel body (- - -)

#### Note

**Group 23/12 takes precedence over groups 23/02 to 23/10.**

- 23 / 02 • by split or other expansible ring devices
- 23 / 04 • by bayonet-joint, screw-thread, or like attachments
- 23 / 06 • by screws, bolts, pins, or clips
- 23 / 08 • • arranged radially
- 23 / 10 • • arranged axially
- 23 / 12 • by devices arranged to permit variation of axial position of rim relative to wheel body for track- width adjustment

**The note only affects groups that belong to the advanced level, and should therefore only appear in the advanced level.**

### **3. B63B 27/00**

- 27 / 00 Arrangement of ship-based loading or unloading equipment for cargo or passengers (- - -)

#### **Note**

**Groups 27/30 to 27/36 take precedence over groups 27/04 to 27/28.**

- 27 / 04 • of derricks (- - -)
- 27 / 08 • of winches (- - -)
- 27 / 10 • of cranes (- - -)
- 27 / 14 • of ramps, gangways or outboard ladders (- - -)
- 27 / 16 • of lifts or hoists
- 27 / 18 • of cableways, e.g. with breeches-buoys (- - -)
- 27 / 22 • of conveyers, e.g. of endless-belt or screw-type (arrangement of devices with throwing action 27/26; arrangement of chutes 27/28; - - -)
- 27 / 24 • of pipe-lines (- - -)
- 27 / 26 • of devices with throwing action (- - -)
- 27 / 28 • of chutes (- - -)
- 27 / 30 • for transfer at sea between ships or between ships and off-shore structures
- 27 / 36 • for floating cargo (- - -)

**The note only affects groups that belong to the advanced level, and should therefore only appear in the advanced level.**

### **4. B66C 23/00**

- 23 / 00 Cranes comprising essentially a beam, boom, or triangular structure acting as a cantilever and mounted for translatory or swinging movements in vertical or horizontal planes or a combination of such movements, e.g. jib cranes, derricks, tower cranes (- - -)

#### **Note**

**Group 23/64 takes precedence over groups 23/02 to 23/16.**

- 23 / 02 • with non-adjustable and non-inclinable jibs mounted solely for slewing movements
- 23 / 04 • with jibs the effective length of which is variable in operation, e.g. longitudinally displaceable, extensible
- 23 / 06 • with jibs mounted for jibbing or luffing movements
- 23 / 08 • • and adapted to move the loads in predetermined paths
- 23 / 10 • • • the paths being substantially horizontal; Level-luffing jib cranes
- 23 / 12 • • • • with means for automatically varying the effective length of the hoisting rope or cable
- 23 / 14 • • • • with means, e.g. pantograph arrangements, for varying jib configuration
- 23 / 16 • with jibs supported by columns, e.g. towers having their lower end mounted for slewing movements
- 23 / 62 • Constructional features or details (- - -)
- 23 / 64 • • Jibs

**The note, at least formally, only affects the scope of groups that belong to the advanced level. It should therefore only appear in the advanced level.**

## **5. D06B 15/00**

- 15 / 00 Removing liquids, gases, or vapours from textile materials in association with treatment of the materials by liquids, gases, or vapours (- - -)

### **Note**

**Group 15/12 takes precedence over groups 15/02 to 15/10.**

- 15 / 02 • by squeezing rollers
- 15 / 04 • by suction
- 15 / 06 • by vibrating the textile material
- 15 / 08 • by scraping
- 15 / 09 • by jets of gases
- 15 / 10 • by use of centrifugal force
- 15 / 12 • up to the moisture regain of textile material

**The note only affects groups that belong to the advanced level, and should therefore only appear in the advanced level.**

## **6. E04D 5/00**

- 5 / 00 Roof covering by making use of flexible material, e.g. supplied in roll form (- - -)

### **Note**

**Group 5/12 takes precedence over groups 5/02 to 5/08.**

- 5 / 02 • of materials impregnated with sealing substances, e.g. roofing felt
- 5 / 04 • by making use of metal foils
- 5 / 06 • by making use of plastics
- 5 / 08 • by making use of other materials
- 5 / 10 • by making use of compounded or laminated materials, e.g. metal foils or plastic films coated with bitumen (5/12 takes precedence)
- 5 / 12 • specially modified, e.g. perforated, with granulated surface, with attached pads
- 5 / 14 • Fastening means therefor

**The note only affects groups that belong to the advanced level, and should therefore only appear in the advanced level.**

## **7. F01C 1/00**

- 1 / 00 Rotary-piston machines or engines (- - -)

### **Note**

**Group 1/30 takes precedence over groups 1/02 to 1/28.**

- 1 / 02 • of arcuate-engagement type, i.e. with circular translatory movement of co operating members, each member having the same number of teeth or tooth-equivalents

- 1 / 08 • of intermeshing-engagement type, i.e. with engagement of co-operating members similar to that of toothed gearing
- 1 / 22 • of internal-axis type with equidirectional movement of co-operating members at the points of engagement, or with one of the co-operating members being stationary, the inner member having more teeth or tooth-equivalents than the outer member
- 1 / 24 • of counter-engagement type, i.e. the movement of co-operating members at the points of engagement being in opposite directions
- 1 / 30 • having the characteristics covered by two or more of groups 1/02, 1/08, 1/22, 1/24 or having the characteristics covered by one of these groups together with some other type of movement between co-operating members

Since the note affects the scope of all other one-dot groups there are only two alternatives: moving 1/02 to the advanced level (in which case the note should only appear in the advanced level) or moving 1/08, 1/22, 1/24 and 1/30 to the core level. **Since the number of groups to be moved is rather small in relation to the total number of subgroups we propose the latter alternative. The note should be reworded to say "Group 1/30 takes precedence over groups 1/02 to 1/24".**

#### **8. F03C 2/00**

- 2 / 00 Rotary-piston engines (- - -)

##### **Note**

**Group 2/30 takes precedence over groups 2/02 to 2/24.**

- 2 / 02 • of arcuate-engagement type, i.e. with circular translatory movement of co-operating members, each member having the same number of teeth or tooth-equivalents
- 2 / 08 • of intermeshing-engagement type, i.e. with engagement of co-operating members similar to that of toothed gearing
- 2 / 22 • of internal-axis type with equidirectional movement of co-operating members at the points of engagement, or with one of the co-operating members being stationary, the inner member having more teeth or tooth-equivalents than the outer member
- 2 / 24 • of counter-engagement type, i.e. the movement of co-operating members at the points of engagement being in opposite directions
- 2 / 30 • having the characteristics covered by two or more of groups 2/02, 2/08, 2/22, 2/24 or having the characteristics covered by one of these groups together with some other type of movement between co-operating members

**The note only affects groups that belong to the advanced level, and should therefore only appear in the advanced level.**

#### **9. F04C 2/00**

- 2 / 00 Rotary-piston machines or pumps (- - -)

##### **Note**

**Group 2/30 takes precedence over groups 2/02 to 2/28.**

- 2 / 02 • of arcuate-engagement type, i.e. with circular translatory movement of co-operating members, each member having the same number of teeth or tooth-equivalents
- 2 / 08 • of intermeshing-engagement type, i.e. with engagement of co-operating members similar to that of toothed gearing

- 2 / 22 • of internal-axis type with equidirectional movement of co-operating members at the points of engagement, or with one of the co-operating members being stationary, the inner member having more teeth or tooth-equivalents than the outer member
- 2 / 24 • of counter-engagement type, i.e. the movement of co-operating members at the points of engagement being in opposite directions
- 2 / 30 • having the characteristics covered by two or more of groups 2/02, 2/08, 2/22, 2/24 or having the characteristics covered by one of these groups together with some other type of movement between co-operating members

Since the note affects the scope of all other one-dot groups there are only two alternatives: moving 2/08 to the advanced level (in which case the note should only appear in the advanced level) or moving 2/08, 2/22, 2/24 and 2/30 to the core level. **Since the number of groups to be moved is rather small in relation to the total number of subgroups we propose the latter alternative. Furthermore, group 2/08 has a subgroup which belongs to the core level. The note should be reworded to say "Group 2/30 takes precedence over groups 2/02 to 2/24".**

### **10. F04C 18/00**

**See the analysis of group F04C 18/30 above!**

### **11. F15C 3/00**

- 3 / 00 Circuit elements having moving parts (- - -)

#### **Note**

#### **Group 3/16 takes precedence over groups 3/02 to 3/14**

- 3 / 02 • using spool valves
- 3 / 04 • using diaphragms (- - -)
- 3 / 06 • using balls
- 3 / 08 • using reeds
- 3 / 10 • using nozzles or jet pipes
- 3 / 12 • • the nozzle or jet pipe being movable
- 3 / 14 • • the jet from the nozzle being intercepted by a flap
- 3 / 16 • Oscillators

**The note only affects groups that belong to the advanced level, and should therefore only appear in the advanced level.**

### **12. F16L 33/00**

**See the analysis of group F16L 33/22 above!**

Anders Bruun

[Annex IV follows]

## ANNEX IV



EUROPEAN PATENT OFFICE  
Principal Directorate Documentation

Comments  
30 September 2002

### Checking of “complex” References and Notes Sections G and H

Ref: IPC/WG/7/7 par.21 and Annex G

#### *Legenda*

CL: Core Level of IPC  
AL: Advanced Level of IPC  
refs: references  
NB: Nota Bene  
REM: Remark of EPO

#### REFERENCES

CL PLACE	REFERENCE	SUGGESTIONS, NOTES AND REMARKS
G01N 30/88	“...not covered by a single one of groups <u>G01N 30/04</u> to <u>G01N 30/86</u> ”	OK NB: all refs in CL already
G02C 9/00	“... auxiliary optical parts <u>G02C 7/08</u> to <u>G02C 7/16</u> ”	two options: 1) point to 7/00 instead; or 2) bring 7/08 to 7/16 into CL
G03C 1/72	“... not covered by groups <u>G03C 1/005</u> to <u>G03C 1/705</u> ”	bring 1/005 into CL NB: 1/005 should be in CL anyway since its subgroup 1/015 is in CL already
G03G 15/22	“... according to groups <u>G03G 13/02</u> to <u>G03G 13/20</u> ...”	bring 15/22 and subgroups into AL NB: group structure of 15/00 is parallel to that of 13/00 and 13/22 is in the AL; parallelism should be maintained
H01B 17/56	“(insulators <u>H01B 17/02</u> to <u>H01B 17/54</u> )”	delete the reference

H01J 37/00	“... scanning-probe techniques <u>G01N 13/10</u> , e.g. scanning tunnelling microscopy <u>G01N 13/12</u> ...”	bring G01N 13/10 into CL, and delete the example portion: “... e.g. scanning ... 13/12”
H01L 21/30	“... not provided for in groups <u>H01L 21/20</u> to <u>H01L 21/26</u> (manufacture of electrodes thereon <u>H01L 21/28</u> )”	OK NB: all refs in CL already
H01L 21/34	“... not provided for in groups <u>H01L 21/06</u> , <u>H01L 21/16</u> , and <u>H01L 21/18</u> with ...”	point to 21/04 instead, i.e. change into “... for in group H01L 21/04 with ...” NB: all refs are subgroups of 21/04
H01L 21/44	“... not provided for in groups <u>H01L 21/36</u> to <u>H01L 21/428</u> ”	bring 21/42 into CL, and change into “ ... groups H01L 21/36 to H01L 21/42” NB: 21/428 is a subgroup of 21/42
H01L 21/46	“... not provided for in groups <u>H01L 21/36</u> to <u>H01L 21/428</u> ”	bring 21/42 into CL, and change into “ ... groups H01L 21/36 to H01L 21/42” NB: 21/428 is a subgroup of 21/42
H01L 21/48	“not provided for in a single one of the groups <u>H01L 21/06</u> to <u>H01L 21/326</u> ...”	bring 21/06 and 21/326 into CL
H01L 21/50	“not provided for in a single one of the groups <u>H01L 21/06</u> to <u>H01L 21/326</u> ...”	bring 21/0 and 21/326 into CL
H01L 25/18	subgroups of the same main group of groups <u>H01L 27/00</u> to <u>H01L 49/00</u>	OK NB: all refs in CL already REM: 25/16 has the same problem
H01L 31/0328	“...two or more of groups <u>H01L 31/0272</u> to <u>H01L 31/032</u> ”	bring 31/0328 into AL NB: all refs are in AL
H01M 10/36	“... not provided for in groups <u>H01M 10/06</u> to <u>H01M 10/34</u> ”	bring 10/20 and 10/34 into CL

H01S 3/23	“... not provided for in groups <u>H01S 3/02</u> to <u>H01S 3/22</u> , e.g. tandem arrangement of separate active media (involving only semiconductor lasers <u>H01S 5/40</u> )”	change into “...H01S 3/02 to H01S 3/14 ... (involving only semiconductor lasers H01S 5/00)”  NB: subject-matter of semiconductor lasers is already referred out of H01S 3/00
H03K 5/159	“...preceding subgroups”	OK

## NOTES

CL PLACE	NOTE	SUGGESTIONS, NOTES AND REMARKS
G01R 19/00	Within groups <u>G01R 19/02</u> to <u>G01R 19/32</u> , group <u>G01R 19/28</u> takes precedence. Groups <u>G01R 19/18</u> to <u>G01R 19/257</u> take precedence over groups <u>G01R 19/02</u> to <u>G01R 19/17</u> and <u>G01R 19/30</u> .	change into “... Groups G01R 19/18 to G01R 19/25 take precedence over ...”  NB: all refs in CL already <u>but</u> 19/527, which is a subgroup of 19/25
G01V 3/00	Groups <u>G01V 3/15</u> to <u>G01V 3/34</u> take precedence over groups <u>G01V 3/02</u> to <u>G01V 3/14</u> .	change into “Groups G01V 3/15 to G01V 3/18 take precedence over...”  NB: all refs in CL already <u>but</u> 3/34, which is a subgroup of 3/18
G06C 15/00	Group <u>G06C 15/02</u> takes precedence over groups <u>G06C 15/04</u> to <u>G06C 15/42</u> .	bring Note into AL  NB: all refs in AL only
G06C 23/00	Group <u>G06C 23/08</u> takes precedence over groups <u>G06C 23/02</u> to <u>G06C 23/06</u> .	bring Note into AL  NB: all refs in AL only
G07C 1/00	Groups <u>G07C 1/20</u> to <u>G07C 1/32</u> take precedence over groups <u>G07C 1/02</u> to <u>G07C 1/18</u> .	bring Note into AL  NB: all refs in AL only
G09B 5/00	Group <u>G09B 5/08</u> takes precedence over groups <u>G09B 5/02</u> to <u>G09B 5/06</u> .	bring Note into AL; and bring 5/06 into AL  NB: all refs in AL only <u>but</u> 5/06
G11B 5/00	Groups <u>G11B 5/02</u> to <u>G11B 5/86</u> take precedence over groups <u>G11B 5/004</u> to <u>G11B 5/016</u> .	bring 5/004, 5/008 into CL; and change into “... over groups G11B 5/004 to G11B 5/012.”



G11B 9/00	In this group, group <u>G11B 9/12</u> takes precedence over groups <u>G11B 9/02</u> to <u>G11B 9/10</u> .	bring Note into AL
G11B 11/00	In this group, group <u>G11B 11/24</u> takes precedence over groups <u>G11B 11/03</u> to <u>G11B 11/16</u> .	bring Note into AL NB: all refs in AL only
G11C 11/00	Group <u>G11C 11/56</u> takes precedence over groups <u>G11C 11/02</u> to <u>G11C 11/54</u> .	bring Note into AL
H01L 29/00	In this main group, classification is made both in groups <u>H01L 29/02</u> to <u>H01L 29/51</u> and in groups <u>H01L 29/66</u> to <u>H01L 29/96</u> if both of these sets of groups are relevant.	change into "... in groups H01L 29/02, H01L 29/40 and in group H01L 29/66 if these groups are relevant."  REM: is this note suggesting multiple-classification useful at all (in this place)?
H03F 3/00	Groups <u>H03F 3/20</u> to <u>H03F 3/72</u> take precedence over groups <u>H03F 3/02</u> to <u>H03F 3/195</u> .	bring 3/02, 3/72 into CL; and change into "... over groups H03F 3/02 to H03F 3/189"

Pasquale Foglia

&

Roberto Iasevoli

[End of Annex IV and of document]