

**IPC REVISION PROJECTS/
PROJETS DE RÉVISION DE LA CIB**

**MECHANICAL FIELD/
DOMAINE DE LA MÉCANIQUE**



IPC/C 278/94

ORIGINAL: English/French

DATE: November 13, 2001

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

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

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

PROPOSAL BY: PROPOSITION DE :	EP	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	B 32 B
KIND OF REVISION: TYPE DE RÉVISION :	Transfer of subject matter Transfert de matière		

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal	/ Demande de révision avec proposition détaillée	EP	24.02.94
2	Comments	/ Observations	GB	18.07.94
3	Comments	/ Observations	DE	06.10.94
4	Comments	/ Observations	JP	31.10.94
5	Comments	/ Observations	RO	-02.95
6	Comments	/ Observations	EP	11.05.95
7	Rapporteur report	/ Rapport du rapporteur	EP	11.05.95
8	Comments	/ Observations	JP	01.06.95
9	Rapporteur report	/ Rapport du rapporteur	EP	02.99
10	Comments	/ Observations	DE	05.99
11	Decision of the Working Group	/ Décision du groupe de travail	WG	07.99
12	Proposal	/ Proposition	EP	07.99
13	Comments	/ Observations	RU	10.99
14	Comments	/ Observations	CA	10.99

RAPPORTEUR : EP

TECHNICAL FIELD/DOMAINE TECHNIQUE : M

ANNEX/ ANNEXE	CONTENT/CONTENU	ORIGIN/ ORIGINE	DATE
15	Comments / Observations	RO	10.99
16	Comments / Observations	GB	10.99
17	Rapporteur report / Rapport du rapporteur	EP	11.99
18	Comments / Observations	JP	12.99
19	Decision of the Working Group / Décision du groupe de travail	WG	12.99
20	Comments / Observations	EP	03.00
21	Comments / Observations	JP	03.00
22	Comments / Observations	CA	03.00
23	Comments / Observations	SE	03.00
24	Comments / Observations	RO	03.00
25	Comments / Observations	DE	04.00
26	Rapporteur report / Rapport du rapporteur	EP	04.00
27	Decision of the Working Group / Décision du groupe de travail	WG	06.00
28	Proposal / Proposition	EP	07.00
29	Comments / Observations	JP	09.00
30	Comments / Observations	GB	09.00
31	Comments / Observations	RO	09.00
32	Comments / Observations	FR	10.00
33	Rapporteur report / Rapport du rapporteur	EP	10.00
34	Comments / Observations	DE	10.00
35	Comments / Observations	CA	10.00
36	French version of approved amendments / Version française des modifications approuvées	EP	11.00
37	Decision of the Working Group / Décision du groupe de travail	WG	01.01
38	Proposal / Proposition	EP	04.01
39	Comments / Observations	CA	04.01
40	Comments / Observations	RU	04.01
41	Comments / Observations	GB	05.01
42	Comments / Observations	SE	05.01

ANNEX/ ANNEXE	CONTENT/CONTENU	ORIGIN/ ORIGINE	DATE
43	Rapporteur report / Rapport du rapporteur	EP	05.01
44	Comments / Observations	RO	06.01
45	Comments / Observations	DE	06.01
46	French version of approved amendments / Version française des modifications approuvées	EP	08.01
47	Decision of the Working Group / Décision du groupe de travail	WG	08.01
48	Citation of examples / Énumération d'exemples	EP	10.01
49	Comments / Observations	RO	10.01
50	Comments / Observations	SE	10.01
51	Comments / Observations	GB	10.01
52	Comments / Observations	RU	10.01
53	Comments / Observations	DE	11.01
54	French version of approved amendments / Version française des modifications approuvées	EP	11.01
55	Rapporteur report / Rapport du rapporteur	EP	11.01

**Projet: C-278 Sous-Classe: B32B**

Notes suivant le titre de la sous-classe:

- (6) Les produits stratifiés sont classés dans les groupes 37/00 ou 38/00 s'ils ne sont pas caractérisés par leur structure ou leur composition.
- (7) < ancienne note (6) >
- 37/10 . caractérisés par la technique de pressage, p.ex. en utilisant l'action du vide ou la pression d'un fluide
- 37/16 .. avec toutes les couches existant en tant que couches cohérentes avant la stratification
- 37/24 .. avec au moins une couche qui n'est pas cohérente avant la stratification, p.ex. constituée de matériau granulaire projeté sur un substrat
- 38/00 Opérations en liaison avec la stratification**
- 38/04 . Poinçonnage, coupe ou perforation
- 38/06 . Gaufrage
- 38/08 . Impregnation
- 38/10 . Enlèvement de couches, ou de parties de couches, mécaniquement ou chimiquement (poinçonnage, coupe ou perforation 38/04)
- 38/12 . Emboutissage
- 38/14 . Impression ou coloration
- 38/16 . Traitement de couches non couverts par les groupes 38/04 à 38/14
- 38/18 . Manipulation des couches ou du stratifié
- 39/00 Appareils et installations pour la fabrication de produits stratifiés**
- 39/02 . Dispositifs pour le suivi et le contrôle des procédés de stratification (dispositifs de sécurité 39/06)
- 39/04 . Implantation des appareils ou des installations, p.ex. systèmes modulaires de stratification
- 39/06 . Dispositifs de sécurité

EXCERPT FROM DOCUMENT IPC/WG/5/3
EXTRAIT DU DOCUMENT IPC/WG/5/3

Project C 278 (mechanical) – amendments to subclass B 32 B were approved (see Annex 1 to this report).

The EPO was invited to cite examples of patent documents illustrating the proposed group 38/02 (see Annex 43 to the project file).

Comments were invited on:

- the intended scope of group 38/02, in the light of the explanations provided by the EPO (see Annex 38 to the project file) and examples to be cited, in particular, which stages of the manufacturing of a layered product should be covered by the group;
- what wording of the said group 38/02 should better reflect its scope and whether it should belong to main group 37/00 or 38/00;
- whether the modified group 38/16 (see Annex 1 to this report) collected related subject matter representing a body of art useful for searching.

The EPO was invited to investigate how to define the borderline of subclasses B 29 C and D with main groups B 32 B 37/00 and 38/00, citing relevant examples of patent documents and taking into consideration Note (6) after the title of subclass B 32 B in the seventh edition of the IPC and the reference to class B 29 in group B 32 B 31/00.

Projet C 278 (mécanique) – Des modifications relatives à la sous-classe B 32 B ont été approuvées (voir l'annexe 1 du présent rapport).

L'OEB a été invité à donner des exemples de documents de brevet illustrant le contenu du groupe 38/02 proposé (voir l'annexe 43 du dossier de projet).

Des observations ont été demandées

- sur la portée envisagée du groupe 38/02, compte tenu des explications fournies par l'OEB (voir l'annexe 38 du dossier de projet) et des exemples qui doivent être donnés, en particulier, sur les phases de fabrication d'un produit stratifié qui doivent être couvertes par le groupe;
- sur le libellé du groupe 38/02 qui traduirait le mieux la portée de ce groupe et sur le point de savoir si ce groupe doit appartenir au groupe principal 37/00 ou au groupe principal 38/00;
- sur le point de savoir si le groupe 38/16 modifié (voir l'annexe 1 du présent rapport) contient une matière apparentée représentant un ensemble de techniques utiles pour la recherche.

L'OEB a été invité à étudier comment déterminer la démarcation entre les sous-classes B 29 C et D et les groupes principaux B 32 B 37/00 et 38/00 en donnant des exemples pertinents de documents de brevet et en prenant en considération la note (6) après le titre de la sous-classe B 32 B dans la septième édition de la CIB et le renvoi à la classe B 29 dans le groupe B 32 B 31/00.

ANNEX	1	B 32 B	[Project-Rapporteur : 278/EP]	<SC05030E>
	37/32	<Delete new entry>		R
N	38/00	<i>Ancillary operations in connection with laminating processes</i>		R
N	38/16	• <i>Drying; Softening; Cleaning</i>		R
N	39/00	<i>Layout of apparatus or plants, e.g. modular laminating systems</i>		R
	39/02	<Delete new entry>		R
	39/04	<Delete new entry>		R
	39/06	<Delete new entry>		R
N	41/00	<i>Arrangements for controlling or monitoring lamination processes; Safety arrangements</i>		
N	41/02	• <i>Safety arrangements</i>		
N	43/00	<i>Operations specially adapted for layered products and not otherwise provided for, e.g. repairing; Apparatus therefor</i>		

Project: C-278 Subclass: B32B

At the 5th session of the IPC revision working group, EP was invited to cite examples of patent documents illustrating the proposed group 38/02 (see A.43) as well as examples for illustrating the borderline of subclasses B29C and D with main groups B32B37/00 and 38/00.

For that purpose the delegates could usefully refer to A.6 of the project file where some examples are already given.

Nevertheless, here a reminder concerning group 38/02: US-A-5098497; US-A-4370187; US-A-4304622.

The borderline between the subclasses is defined by the present Note (6), which has been kept in the revision project (see Note (7) of A.37) while the reference to B29 in the title of the groups for methods has been abandoned. Note (2) (see A.37) is intended to specify further the border for the method groups.

As it is, we consider the definition of such a borderline as satisfactory.

A.Narminio

OFICIUL DE STAT PENTRU
INVENTII SI MARCI

RO. COMMENTS

Date: 26. 09.2001
Page: 1 of 1

Project: **C278**
Class/Subclass: **B 32 B**

Comments were invited on

- the intended scope of group 38/02;
- wording of said group 38/02;
- whether group 38/16 (Annex 1 to the report) collected related subject matter representing a body of art useful for searching.

In the light of the explanations provided by the EPO(Annex 38 to the project file) and the cited examples, group 38/02 should gather documents showing fabrication of a laminate, taking advantage of a physical property of (at least) one layer, namely the semi-molten state.

We would therefore prefer a precise wording of the group reflecting better its scope, for example:

38/02 CManufacturing of a layer and its lamination while in a semi-molten stage

We think this proposal does not restrict the scope, since we can hardly imagine another intermediate stage excepting the molten stage.

On the other hand, we think the group 38/02 should belong to main group 37/00 since the subject matter is not an ancillary operation in connection with a laminating process, but a lamination process per se and in our opinion it should be classified in the main group 37/00 Methods and apparatus for laminating---.

We agree to the new wording of modified group 38/16 and consider it useful for searching.

Bucura Ionescu

Swedish Patent and Registration Office

IPC Revision Project C278, subclass B32B

September 24th, 2001

COMMENTS

(in response to IPC/WG/5/3, paragraph 13 and EP comments of September 6th)

Comments were invited on:

- the intended scope of group 38/02, in the light of the explanations and examples provided by the EPO, in particular, which stages of the manufacturing of a layered product should be covered by the group;
- what wording of group 38/02 should better reflect its scope and whether it should belong to main group 37/00 or 38/00;

Having studied the examples and the explanation given by EP, we understand the intended coverage as *"Laminating in which at least one layer is generated in connection with the laminating process and laminated before reaching its final state, e.g. in which a layer is extruded and laminated while in molten form"*. This is clearly a lamination process, not a mere "operation in connection with laminating", so the group should be placed in main group 37/00. Since the method is characterised by the property of a layer, it should be a subgroup to 37/14, for example with the wording

N 37/25 . . . with at least one layer being generated in connection with the lamination and laminated before reaching its final state, e.g. in which a layer is extruded and laminated while in molten form

The relationship between this group and 37/16 and 37/24 (see Annex 37) must be sorted out. It can be argued whether the layers generated are coherent before laminating or not - we propose giving 37/25 precedence over 37/16 and 37/24.

- whether the modified group 38/16 collected related subject matter representing a body of art useful for searching.

We have no objections against this group.

Whereas multiple classification applies between the laminated products in B32B and those in the rest of the IPC, we do not think there should be multiple classification of processes in a similar way. The deletion of the reference in B32B 31/00 means that B32B is now open to much matter that was before referred out. The present Note 6 after B32B only relates to products, and Note 2, first indent, does not give much assistance when choosing between B29 and B32B. Therefore the relationship between B29C and B29D and the new main groups must be sorted out. We would like to repeat our suggestions from Annex 42:

- Refer out "laminating" from B29C to the new B32B 37/00
- Delete B29D 9/00

Anders Bruun

UK Patent Office
Date: 25 September 2001

Comments on Project c278 , Subclass B32B

Comments were invited on intended scope of group 38/02, the wording of the group and whether it would be best placed under main group 38/00 or 37/00

From annex 38 the primary characteristic of documents intended to be placed in this group is the utilization of transitional properties of a layer to assist application of the layer to a layered product. Our examiner would prefer an example of the type of documents classified to be included in the title

as adopted		counter proposal (changes in bold)	
38/02	!	manufacturing of a layer and its lamination while at an intermediate stage	38/02 ! manufacturing of a layer and its lamination while at an intermediate stage, <i>e.g. utilising transitional properties of layer</i>

Comments were invited on modified group 38/16.

We still maintain that Another treatment of layers or the laminate would have sufficed, but in light of the concerns of others that specific wording to be appropriate so as to not empty the main group 38/00 of documents, we suggest the following:

as adopted		counter proposal (changes in bold)	
38/16	!	pre-treatment of layers or post-treatment of the laminate not covered by groups 38/04 to 38/14	38/16 ! <i>drying; softening; cleaning</i>

We believe that this would form a useful body of documents for searching

David Glover

FEDERAL INSTITUTE OF INDUSTRIAL PROPERTY

RU comments	
Project : C 278	Date: 03.10.2001
Class/Subclass : B 32 B	

Comments relating to IPC/WG/5/3, par. 13

Comments were invited on:

- the intended scope of group 38/02, in the light of the explanations provided by the EPO (see Annex 38 to the project file) and examples to be cited, in particular, which stages of manufacturing of a layered product should be covered by the group.

We think that producing a layer specially adapted for laminating just before or during the laminating while in intermediate stage should be covered by group 38/02.

- what wording of the said group 38/02 should better reflect its scope and whether it should belong to main group 37/00 or 38/00.

In our practice, producing a layer for laminating while in intermediate stage is usually a component of making layered products being formed by extruding, but not ancillary operation. So we would prefer to subordinate this subject matter to 37/14 with the following wording:

- .. with at least one layer being laminated while in intermediate stage, e.g. by extruding.
- whether the modified group 38/16 (see Annex 1 to the report) collected related subject matter representing a body of art useful for searching.

We support the wording of group 38/16 (see Annex 1 to the report).

S.Kovaleva.

DEUTSCHES PATENT- UND MARKENAMT German Patent and Trade Mark Office	Class/Subcl.: B32B
	Date : 19.10.01
DE - Comments — C 278	

Re: IPC/WG/5/3 par.13

Comments were invited on

- **the intended scope of group 38/02 in the light of the explanations provided by the EPO and of the examples in ann.6, especially of US 50 98 497, US 43 70 187, US 43 04 622, and on the wording of that group.**

As we see it the scope of this group is defined by all subject matter concerning a method or apparatus for laminating where at least one layer is manufactured shortly before lamination takes place having not yet attained its final physical and/or chemical properties when the laminating process starts. This is no doubt the case with the examples US 5098497 and US 4304622 describing both laminating methods where synthetic resin layers are extruded in order to be laminated immediately after extrusion in a semi-molten state. These examples fit under B32B 37/00.

US 4370187, however, does not primarily deal with laminating of that kind but centers on removing volatile substances from an extruded thermoplastic resin web just before the lamination to prevent bad odour with later applications of the laminate. In our view the latter subject matter should therefore better be classified under B32B 38/00.

Apart from this we would place a group of the scope outlined before under B32B 37/00, e.g. as 37/05, perhaps with the following wording :

37/05 . using at least one layer shortly after its manufacture when still at an intermediate stage, e.g. after extrusion

- **whether group B32B 38/16 collected related subject matter representing a body of art useful for searching.**

We think the contents of group 38/16 is clear in view of the main group and helpful.

As to the problem of defining the borderline of B29C, D with B32B 37/00 and 38/00:

Judging from the title B29D and most main group titles thereunder 'producing particular articles from plastics or from substances in a plastic state' is to be classified there irrespectively of the production method involved. That means, for example, that a method for producing a hollow article from plastics or from materials in a plastic state using a laminating technique is classified to B29D 22 ff in the first place and according to note (6) after the B32B title in the second place. There is, however, overlap with **B29B 9/00** which group strictly speaking presupposes that only producing **particular** articles with a layered structure and from a material as specified in the subclass title is classified here. If otherwise the particularity

is founded on the producing of layered articles as such there is overlap also with all subgroups under B29B in so far layered articles are produced.

To make things easier we think it best, and so does SE with other reasoning, to cancel B29D 9/00.

All production methods for particular articles in the sense of the B29D title – whether a layered or also a laminated structure is involved or not and where groups B29D 1/00 to 30/00 do not apply – must go then to B29D 31/00. Cancelling of B29D 9/00 is, by the way, in harmony with the deletion of the reference to B29 in B32B 31/00.

As to the borderline with B29C we fully join SE in referring 'laminating' out to B32B 37/00.

eod

**Projet: C-278****Sous-classe: B32B**

Faisant suite à la demande de l'office suisse, ci-dessous un état récapitulatif du projet de version française reflétant, je l'espère la situation de nos travaux à ce jour.

A.Narminio

B32B

Note(s) après
le titre

- (2) La présente sous-classe ne couvre pas :
-les procédés ou appareils utilisés - - - lorsqu'ils trouvent leur application exclusivement, et peuvent être parfaitement classés, dans une seule - - -
-les compositions ou leur préparation - - - =>
(3) Dans la présente sous-classe
- - - de surface d'un produit.
< supprimer le deuxième alinea >

- (4) Dans la présente sous-classe, =>
(5) Dans les groupes 1/00 à 33/00, à chaque - - -

- N (6) Les produits stratifiés sont classés dans les groupes 37/00 ou 38/00
s'ils ne sont pas caractérisés par leur structure ou composition
N (7) < ancienne note (6) >

**N Rubrique-
guide
avant
37/00**

Procédés ou appareils pour la fabrication des produits stratifiés: Traitement des couches ou des produits stratifiés

N Note(s)
avant
37/00

Dans les groupes 37/00 et 39/00, les expressions suivantes ont la signification ci-dessous indiquée :

- "stratification" désigne l'action qui consiste à combiner des couches non liées au préalable afin de constituer un produit dont les couches restent associées.

-une "stratification partielle" a lieu lorsqu'une couche ne recouvre pas complètement la surface d'une autre couche, ainsi la couche qui présente la surface la plus importante n'est stratifiée que sur une partie de sa surface.
-"adhésif" désigne une couche ou une partie de couche introduite dans le but de coller, quels que soient son état ou son procédé d'application.

N 37/00 Procédés ou dispositifs pour la stratification, p.ex. par polymérisation ou par liaison à l'aide d'ultrasons

- N 37/02 ■ en plusieurs étapes, p.ex. stratification par l'addition de nouvelles couches à des postes successifs de stratification
- N 37/04 ■ caractérisés par la fusion partielle d'au moins une couche
- N 37/06 ■ caractérisés par le procédé de chauffage
- N 37/08 ■ caractérisés par le procédé de refroidissement
- N 37/10 ■ caractérisés par la technique de pressage, p.ex. faisant usage de l'action directe du vide ou d'un fluid sous pression
- N 37/12 ■ caractérisés par l'usage d'adhésifs
- N 37/14 ■ caractérisés par les propriétés des couches
- N 37/16 ■ ■ toutes les couches existant et présentant une cohésion avant la stratification
- N 37/18 ■ ■ ■ impliquant l'assemblage de feuilles ou de panneaux individualisés uniquement
- N 37/20 ■ ■ ■ impliquant l'assemblage de bandes continues uniquement
- N 37/22 ■ ■ ■ impliquant l'assemblage à la fois de couches individualisées et de couches continues
- N 37/24 ■ ■ avec au moins une couche qui ne présente pas de cohésion avant la stratification, p.ex. constituée de matériau granulaire projeté sur un substrat
- N 37/26 ■ ■ avec au moins une couche influençant la liaison au cours de la stratification, p.ex. couches anti-adhésives ou couches égalisatrices de la pression
- N 37/28 ■ impliquant l'assemblage de matériaux intermédiaires non plats qui sont aplatés à un stade ultérieur, p.ex. de tubes

N 37/30 ■ Stratification partielle

N 38/00 Opérations auxiliaires liées aux procédés de stratification

N 38/04 ■ Poinçonnage, coupe ou perforation

N 38/06 ■ Gaufrage

N 38/08 ■ Imprégnation

N 38/10 ■ Enlèvement de couches ou parties de couches, mécaniquement ou chimiquement (poinçonnage, coupe ou perforation 38/04)

N 38/12 ■ Emboutissage

N 38/14 ■ Impression ou coloration

N 38/16 ■ Séchage; Ramollissement; Nettoyage

N 38/18 ■ Manipulation des couches ou du stratifié

N 39/00 Agencement d'appareils ou d'installations, p. ex. systèmes modulaires pour la stratification

N 41/00 Dispositions pour le contrôle ou la commande des procédés de stratification; Dispositions de sécurité

N 41/02 ■ Dispositions de sécurité

N 43/00 Opérations spécialement adaptées aux produits stratifiés et non prévues ailleurs, p. ex. réparation; Appareils pour ces opérations

Project: C-278 Subclass: B32B

Comments were received from DE, GB, RO, RU, SE.

Group B32B38/16

The five commenting offices agree with the place and wording of group 38/16 as adopted during the last session (see A47).

Group B32B38/02 (numbering according to A 43)

DE, RO, RU and SE are of the meaning that we are here clearly dealing with a laminating process and not an ancillary operation. Furthermore since the method is characterised by the property of the layer, the documents should be gathered in a subgroup of 37/14.

The following titles have been proposed for the group:

- using at least one layer shortly after its manufacture when still at an intermediate stage, e.g. after extrusion (DE)
- Manufacturing of a layer and its lamination while in an intermediate stage, e.g. utilising transitional properties of layer (GB)
- Manufacturing of a layer and its lamination while in a semi-molten stage (RO)
- with at least one layer being laminated while in an intermediate stage. e.g. by extruding (RU)
- with at least one layer being generated in connection with the lamination and laminated before reaching its final state, e.g. in which a layer is extruded and laminated while in molten form (SE)

Relationship with B29C;B29D

DE and SE suggest deleting group B29D9/00 and to refer out "laminating" from B29C. Reference to B32B37/00 should be added in B29C.

Having consulted its experts, EP supports the deletion of B29D9/00 and proposes to add a reference to B32B in B29D title.

Rapporteur's proposal

N 37/25 .. with at least one layer being manufactured and immediately laminated before reaching its stable state; e.g. in which a layer is extruded and laminated while in semi-molten state

C 37/24 --- (37/25 takes precedence)

D B29D9/00

D Note after B29D9/00

C B29D title:

PRODUCING ... (making ... ; ... B29B11/00; making layered products B32B37/00)

C Note (2) after subclass title in B29C

-----insofar any layered product or laminating method is concerned.



IPC/C 355/96
ORIGINAL: English/French
DATE: November 13, 2001

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

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

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

PROPOSAL BY: PROPOSITION DE :	GB	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	B 60 T
KIND OF REVISION: TYPE DE RÉVISION :	Creation of subgroups Création de sous-groupes		

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

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26	French version of approved amendments / Version française des modifications approuvées	CH	04.00
27	Rapporteur report / Rapport du rapporteur	GB	04.00
28	Decision of the Working Group / Décision du groupe de travail	WG	06.00
29	Comments / Observations	GB	07.00
30	Comments / Observations	GB	09.00
31	Comments / Observations	EP	09.00
32	Comments / Observations	JP	09.00
33	Comments / Observations	RO	09.00
34	Comments / Observations	FR	10.00
35	Rapporteur report / Rapport du rapporteur	GB	10.00
36	Rapporteur proposal / Proposition du rapporteur	GB	10.00
37	Comments / Observations	DE	10.00
38	Decision of the Working Group / Décision du groupe de travail	WG	01.01
39	Comments / Observations	EP	04.01
40	Comments / Observations	CA	04.01
41	Comments / Observations	RO	04.01
42	Comments / Observations	GB	05/01

ANNEX/ ANNEXE	CONTENT/CONTENU	ORIGIN/ ORIGINE	DATE
43	Comments / Observations	FR	05.01
44	French version of approved amendments / Version française des modifications approuvées	CH	05.01
45	Rapporteur report / Rapport du rapporteur	GB	06.01
46	Decision of the Working Group / Décision du groupe de travail	WG	08.01
47	Comments / Observations	JP	08.01
48	Comments / Observations	CA	10.01
49	Comments / Observations	RO	10.01
50	Comments / Observations	EP	10.01
51	Comments / Observations	FR	10.01
52	French version of approved amendments / Version française des modifications approuvées	FR	10.01
53	Comments / Observations	DE	10.01
54	Rapporteur report / Rapport du rapporteur	GB	11.01
55	Rapporteur proposal / Proposition du rapporteur	GB	11.01

EXCERPT FROM DOCUMENT IPC/WG/5/3
EXTRAIT DU DOCUMENT IPC/WG/5/3

Project C 355 (mechanical) – The amended wording of the new group B 60 T 8/176 was approved (see Annex 6 to this report).

Comments were invited on the desirability of creating a two-dot group covering regulation of the vehicle stability without involvement of vehicle deceleration or acceleration and the relationship of such a group with the new group B 60 T 8/1767 (see Annex 18 to the project file) and subclass B 60 K, in particular with its group 41/00.

The Working Group confirmed its previous decision (see Annex 38 to the project file) to draw the attention of the IPC Committee of Experts to the new Note after group B 60 T 8/00 defining multiple classification in that group and noted that similar notes, when needed, should be presented in the IPC in a standardized form when classification rules with regard to multiple classification have been finally elaborated.

Projet C 355 (mécanique) – Le libellé modifié du nouveau groupe B 60 T 8/176 a été approuvé (voir l'annexe 6 du présent rapport).

Des observations ont été demandées quant à l'opportunité de créer un groupe précédé de deux points couvrant la régulation de la stabilité d'un véhicule sans considération de la décélération ou de l'accélération du véhicule et le lien entre un tel groupe et le nouveau groupe B 60 T 8/1767 (voir l'annexe 18 du dossier de projet) et la sous-classe B 60 K, en particulier son groupe 41/00.

Le groupe de travail a confirmé sa décision antérieure (voir l'annexe 38 du dossier de projet) d'attirer l'attention du Comité d'experts de l'Union de l'IPC sur la nouvelle note après le groupe B 60 T 8/00 définissant un classement multiple dans ce groupe et a noté que des notes analogues devraient figurer dans la CIB sous une forme normalisée lorsque les règles de classement applicables au classement multiple auront été élaborées.

ANNEX	6E	B 60 T	[Project-Rapporteur : 355/GB]	<SC05033E>
N	8/176	• •	<i>Brake regulation specially adapted to prevent excessive wheel slip during vehicle deceleration, e.g. ABS</i>	R

ANNEXE 6F	B 60 T	[Project-Rapporteur : 355/GB] (T:CH) - SC/04/5	<SC05032F> <SC04010E>
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*N Note(s)
après 8/00*

Lors du classement dans le groupe 8/17, un classement dans les endroits appropriés parmi les groupes 8/18, 8/24, 8/26 ou 8/32 est également attribué si d'autres aspects que la commande électronique présentent un intérêt.

Japan Patent Office

10 August 2001

Project:C-355

Subclass:B60T

Wording of the 8/176

The wording “during braking” which was proposed for the subgroup 8/176 was unclear whether a brake was regulated manually or automatically. In addition, there was no necessity to use the wording in this scheme. We think that the 8/176 should be defined as “during vehicle deceleration” following the decisions of WG and this will establish a precise and appropriate interrelation between 8/175 and 8/176.

Creation of a Two-Dot Group

Brake regulations described in the following documents are not restricted to acceleration and/or deceleration or classified in either 8/175 or 8/176:

JP10-81215A (US 6086168 A),
JP10-157589A (GB 2319823 A),
JP10-167036A (US 6027183 A),
JP11-314566A (US 4898431 A),
JP6-247269A (US 5455770 A).

Therefore, we propose to create two-dot group 8/177, which covers arts of the above documents, in parallel with 8/175 and 8/176. References to 8/177 allow to define a precise borderline between 8/175, 8/176, and 8/177. We believe that this scheme consisted of these three two-dot groups would enable any important arts to be classified appropriately and also provide systematic scheme.

We propose two possible titles for the 8/177 given below:

“Brake regulation specially adapted to stabilize vehicle movement during lateral manoeuvres,” or

“Brake regulation specially adapted to control the stability of the vehicle, e.g. taking into account yaw rate or transverse acceleration in a curve, VDC **(vehicle dynamics control)**.”

The Canadian Intellectual
Property Office



Project Number: C355

Date: September 20, 2001

Class/Subclass: B60T

Page 1 of 1

Comments were invited on:

- the desirability of creating a two-dot group covering regulation of the vehicle stability without involvement of vehicle deceleration or acceleration and the relationship of such a group with the new group B60T 8/1767 (see Annex 18 to the project file) and subclass B60K, in particular with its group 41/00.

CA accepts the inclusion of **A** during vehicle deceleration **A** in subgroup 8/176 as decided upon by the Working Group.

CA also feels, however, that a new two-dot subgroup, 8/177, should be created with a possible title of **A** Brake regulation specially adapted to stabilize vehicle movement or control vehicle stability **A**. This new subgroup would thus allow subject matter on **A** brake regulation **A** to be classified therein without being restricted to acceleration and/or deceleration.

John Chiarelli

**OFICIUL DE STAT PENTRU
INVENTII SI MĂRCI**

RO COMMENTS

Date: Sept.2001

Project: IPC **C355**

Class/Subclass **B60T**

Comments were invited on whether the desirability of creating a two-dot group covering regulation of the vehicle stability without involvement of vehicle deceleration or acceleration and the relationship of such a group with the new group B 60T8/1767 (Annex 18 to the project file) and subclass B60K , in particular its group 41/00.

Concerning the 8/176 we think that the wording **Aduring braking@** is not necessary to be used in this group. We agree with the inclusion of **Aduring vehicle deceleration@** as WG decided.

Taking into account the example documents cited by JP we believe that the two-dot group 8/177 should be created. As JP shown, the reference to 8/177 is necessary to define the borderline between 8/175, 8/176 and 8/177.

N.MUR{ RUS



EUROPEAN PATENT OFFICE
Principal Directorate Documentation

Comments
2 October 2001

Project: C-355 Subclass: B60T

Considering that the same circuit for maintaining the vehicle stability may be used whatever the driving phase, EP suggest creating B60T8/1767 as a two-dot group. The wording should be kept unaltered, only renumbering being needed.

A.Narminio

Projet IPC / C 355
Sous-classe **B 60 T**

Au WG 5/3 des observations ont été demandées sur l'opportunité de créer un groupe précédé de deux points couvrant la régulation de la stabilité d'un véhicule sans considération de la décélération ou de l'accélération et le lien d'un tel groupe avec le nouveau groupe B60T 8/1767 et la sous classe B60 K

Le projet en cours ne prévoit pas la possibilité de classer la régulation de la stabilité du véhicule par action des freins en dehors de l'actionnement de la pédale de frein

Le B60K 41/00 prévoit la commande conjuguée de deux sous-ensembles (freinage et moteur, freinage et embrayage, freinage et transmission) et la note après le libellé du 41/00 précise que la commande d'un seul sous-ensemble commandé par des signaux venant d'autres sous ensembles se classe dans l'endroit approprié à ce sous ensemble

Donc, ce n'est que quand il y a interaction de signaux entre au moins deux sous-ensembles qu'il faut utiliser le B60K 41/00

La stabilité du véhicule obtenue par les freins sans actionnement de la pédale de frein peut se classer dans un sous-groupe à deux points placé après le 8/176

N 8/1755 . .Régulation des freins spécialement adaptée pour la stabilité du véhicule en dehors de l'actionnement de la pédale de frein

La stabilité d'un véhicule par commande conjuguée du freinage et de la direction n'est pas non plus prévue dans le B62D 6/00 elle pourra se classer ici par défaut

Session:	IPC/WG
Subclass:	B 60 T
Project(s):	C 355
Language:	F
Translator office:	CH
Translation source session:	IPC/WG/ 5/3
Translation source annex filename:	Ann. 6E

Mod. IPC entry Text or Instruction
type (interval)

N 8/176

- • *Régulation des freins spécialement adaptée pour la prévention du dérapage excessif des roues pendant la décélération du véhicule, p. ex. ABS*

DEUTSCHES PATENT- UND MARKENAMT German Patent and Trade Mark Office	Class/Subcl.: B60T
	Date : 23.10.2001
DE - Comments — C 355	

Re: IPC/WG/5/3

DE favours a subdivision of brake regulation in view of responsiveness to

- a) acceleration forces (8/175)
- b) deceleration forces (8/176) and
- c) lateral forces (8/177)

acting on or being generated by the vehicle.

We propose with a view to the examples and proposal submitted by **JP** a two-dot group under 8/17 :

**9/177 .. Brake regulation specially adapted to control vehicle stability
 with regard to lateral forces, e.g. centrifugal forces**

This group would make proposed 8/1767 redundant.

eod

UK Patent Office**Date: 25 October 2001**

Rapporteur Report on Project C355, Subclass B60T

Background

This project relates to very complex subject matter, and the last meeting of the Revision Group felt further work was needed relating to the classification of brake control affecting vehicle stability, particularly when there is no overall deceleration intended.

Comments were therefore invited on the desirability of creating a two-dot group covering regulation of vehicle stability without involvement of vehicle deceleration or acceleration and the relationship of such a group with the new group B 60 T 8/1767 and subclass B 60 K, in particular with its group 41/00.

Comments

JP gave examples of documents where regulation of vehicle stability using brake control did not happen when there was an intention to brake. JP would therefore favour a two-dot group for the subject matter of 8/1767.

EP point out that the same circuit could be used to control stability, whatever the driving phase, and therefore also favour a two-dot group.

CA and RO also support a two-dot group, enabling ~~Aduring vehicle deceleration~~ to be reinserted into group 8/176.

DE would like a different breakdown to that already adopted, i.e. according to whether the brake regulation was responsive to lateral, deceleration, or acceleration forces, but propose a two dot group for vehicle stability.

Rapporteur's opinion

There is clear support for a new two-dot group relating to vehicle stability, so the Rapporteur proposal incorporates that using the wording as proposed by JP. If that is adopted then it is desirable to return to the earlier wording of 8/176, referring to braking during vehicle deceleration, to avoid possible overlap problems and to clarify the scope of the group. Rapporteur proposal includes this also.

The DE proposal for a different breakdown for brake regulation goes diverges from the philosophy of the scheme already adopted, so Rapporteur does not think it can be pursued without a radical rethink of the project as adopted so far. In any case, classification of control systems by what they respond to has been found to cause problems elsewhere in IPC.

A reference from 8/176 to the newly created 8/177 seems desirable but the discussion so far would

indicate that it would be an informative reference only if vehicle braking would not necessarily be taking place. However if vehicle braking were taking place, then the reference would be limiting. Rapporteur is not sure how to treat a reference that is both informative and limiting, but has proposed suitable wording for an informative reference, which would be backed up ultimately by a definition.

Rapporteur thinks that the question of overlap with B60K is clear cut and poses no problem, in that if brake control alone is involved, then there is no question of classifying in B60K, following note (1) after B60K 41/00. If control of brakes and also something else, e.g. engine, gearing, is involved then there is a case for classifying in B60K 41/00 and maybe classifying in B60T as well if the brake control is of separate interest.

B60K 28/16 covers prevention of skidding/slipping by controlling the engine. There is a reference to B60T in 28/16 but it is perhaps misleading. This reference may have to be amended to take account of some of the new groups adopted as part of this revision project but it could point to various places, although perhaps newly-created 8/175 is the most likely. A solution has already been adopted (Annex 9) of having a reference from 8/175 to B60K 28/16 but this may be considered only partial. Rapporteur proposal therefore includes wording for a reference from B60K 28/16 to 8/175, if it is thought necessary. Both references can be viewed as informative but that begs the question of whether they are so when both engine and brake control are present.

Jim Calvert

UK Patent Office**Date: 25 October 2001**

Rapporteur Proposal for Project C355, Subclass B60T

B60T

N 8/176 .. Brake regulation specially adapted to prevent excessive wheelslip during vehicle deceleration, e.g. ABS

Informative reference after 8/176:-

Brake regulation specially adapted to control the stability of the vehicle, e.g. taking into account yaw rate or transverse acceleration in a curve 8/177

N 8/177 .. Brake regulation specially adapted to control the stability of the vehicle, e.g. taking into account yaw rate or transverse acceleration in a curve

B60K

C 28/16 .. --- skidding of wheels (Brake regulation specially adapted to prevent excessive wheel spin during vehicle acceleration, e.g. traction control B60T 8/175; preventing wheel slippage ---

Jim Calvert



IPC/C 366/96

ORIGINAL: English/French

DATE: November 13, 2001

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

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

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

PROPOSAL BY: PROPOSITION DE :	DE	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	E 04 F
KIND OF REVISION: TYPE DE RÉVISION :	Creation of subgroups Création de sous-groupes		

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal	/ Demande de révision avec proposition détaillée	DE	28.02.96
2	Comments (re Annex 1)	/ Observations (réf. annexe 1)	GB	31.07.96
3	Comments (re Annex 1)	/ Observations (réf. annexe 1)	RO	10.96
4	Comments (re Annex 1)	/ Observations (réf. annexe 1)	SE	21.10.96
5	Comments (re Annex 1)	/ Observations (réf. annexe 1)	EP	05.11.96
6	Comments (re Annex 1)	/ Observations (réf. annexe 1)	FR	11.96
7	Rapporteur report	/ Rapport du rapporteur	DE	29.04.97
8	Citation of examples (re PCIP/ SI/ XIX/5, page 8)	/ Citation d'exemples (réf. PCIP/ SI/ XIX/5, page 9)	DE	01.08.97
9	Comments	/ Observations	EP	25.08.97
10	Comments	/ Observations	SE	20.10.97
11	Rapporteur report	/ Rapport du rapporteur	DE	12.11.97
12	Decision of the Working Group	/ Décision du groupe de travail	WG	07.99
13	Proposal	/ Proposition	DE	11.99
14	Decision of the Working Group	/ Décision du groupe de travail	WG	12.99

RAPPORTEUR : DE TECHNICAL FIELD/DOMAINE TECHNIQUE : M

ANNEX/ ANNEXE	CONTENT/CONTENU	ORIGIN/ ORIGINE	DATE
15	Comments / Observations	EP	03.00
16	Comments / Observations	JP	03.00
17	Comments / Observations	FR	03.00
18	Comments / Observations	CA	03.00
19	Comments / Observations	SE	03.00
20	Comments / Observations	RO	03.00
21	Rapporteur report / Rapport du rapporteur	DE	05.00
22	Decision of the Working Group / Décision du groupe de travail	WG	06.00
23	Comments / Observations	EP	09.00
24	Comments / Observations	JP	09.00
25	Comments / Observations	RO	09.00
26	Comments / Observations	SE	09.00
27	Comments / Observations	FR	10/00
28	Comments / Observations	CA	11/00
29	Rapporteur report / Rapport du rapporteur	DE	11/00
30	Decision of the Working Group / Décision du groupe de travail	WG	01/01
31	Comments / Observations	EP	04.01
32	Comments / Observations	JP	04.01
33	Comments / Observations	CA	04.01
34	Comments / Observations	RO	04.01
35	Comments / Observations	FR	05/01
36	Comments / Observations	SE	05/01
37	Rapporteur report / Rapport du rapporteur	DE	06.01
38	French version of approved amendments / Version française des modifications approuvées	FR	06.01
39	Decision of the Working Group / Décision du groupe de travail	WG	08.01
40	Comments / Observations	CA	10.01
41	Comments / Observations	EP	10.01
42	Comments / Observations	RO	10.01

ANNEX/ ANNEXE	CONTENT/CONTENU	ORIGIN/ ORIGINE	DATE
43	Comments / Observations	SE	10.01
44	Comments / Observations	GB	10.01
45	Rapporteur report / Rapport du rapporteur	DE	11.01

EXCERPT FROM DOCUMENT IPC/WG/5/3
EXTRAIT DU DOCUMENT IPC/WG/5/3

Project C 366 (mechanical) – Comments were invited on the correctness of the wording of the new group E 04 F 13/28 (see Annex 11 to this report) and whether similar groups covering “adjustment devices and adjustable fastening means” would be desirable to create under groups E 04 F 13/22, 13/24 or 13/30.

Projet C 366 (mécanique) – Des observations ont été demandées sur l’exactitude du libellé du nouveau groupe E 04 F 13/28 (voir l’annexe 11 du présent rapport) et sur le point de savoir s’il serait souhaitable de créer, dans les groupes E 04 F 13/22, 13/24 ou 13/30, des groupes analogues couvrant “adjustment devices and adjustable fastening means”.

ANNEX	11E	E 04 F	[Project-Rapporteur : 366/DE]	<SC05037E>
N	13/074	• • •	<i>for accommodating service installations or utility lines, e.g. heating conduits, electrical lines, lighting devices or service outlets</i>	R
N	13/075	• • •	<i>for insulation or surface protection, e.g. against noise or impact</i>	R
N	13/28 19/02	• • • •	<i>Adjustment devices; Adjustable fastening means</i> <Unchanged>	R

ANNEXE	11F	E 04 F	[Project-Rapporteur : 366/DE] (T:FR) - SC/04/5	<SC05042F> <SC04014E>
N	13/07	•	<i>constitués d'éléments d'habillage ou de garnissage; Leurs bâtis; Leurs moyens de fixation</i>	
N	13/072	• •	<i>constitués d'éléments d'habillage ou de garnissage spécialement adaptés, renforcés ou mis en forme</i>	
N	13/073	• • •	<i>pour des parties particulières des bâtiments, p.ex. encoignures ou colonnes</i>	
N	13/074	• • •	<i>pour des installations de service ou des gaines techniques, p.ex. des canalisations de chauffage, des lignes électriques, des dispositifs d'éclairage ou des branchements</i>	
N	13/075	• • •	<i>pour l'isolation ou la protection des surfaces, p.ex. contre le bruit ou les chocs</i>	

- | | | | |
|---|------------------------|---------|--|
| N | 13/076 | • • • | <i>caractérisés par les joints entre éléments voisins, p.ex. comportant des remplissages de joint ou des liaisons à rainure et languette</i> |
| N | 13/077 | • • • | <i>constitués de plusieurs couches, p.ex. panneaux sandwich (13/075 a priorité)</i> |
| N | 13/078 | • • • | <i>éléments tendus de type feuille ou toile maintenus par des dispositifs de fixation sur les bords</i> |
| C | 13/08 | • • | <i>constitués de plusieurs éléments d'habillage ou de garnissage semblables (13/072 a priorité; bordures, plinthes 19/02)</i> |
| N | Note(s)
avant 13/09 | | |
| | | | <i>Le groupe 13/09 a priorité sur les groupes 13/10 à 13/18.</i> |
| N | 13/09 | • • • | <i>les éléments étant fixés à une toile, une plaque support ou une grille communes</i> |
| C | 13/10 | | <Ajouter 1 point> |
| C | 13/12 | | <Ajouter 1 point> |
| C | 13/14 | • • • | <i>en pierre ou en matériau similaire, p.ex. en céramique, en verre</i> |
| N | 13/15 | • • • • | <i>caractérisés par l'utilisation d'éléments en verre</i> |
| C | 13/16 | • • • | <i>en fibres ou en copeaux, p.ex. collés par des résines synthétiques</i> |
| C | 13/18 | | <Ajouter 1 point> |
| N | 13/20 | • • | <i>Moyens de fixation spécialement adaptés pour les éléments d'habillage ou de garnissage</i> |
| N | 13/22 | • • • | <i>Ancrages, supports d'angle ou consoles</i> |
| N | 13/24 | • • • | <i>Moyens de fixation cachés à l'arrière des éléments d'habillage ou de garnissage (13/30 a priorité)</i> |
| N | 13/26 | • • • | <i>Moyens de fixation s'engageant sur les bords, p.ex. pinces, clips ou profilés pour les bords</i> |
| N | 13/28 | • • • • | <i>Dispositifs de réglage; Moyens de fixation réglables</i> |
| N | 13/30
19/02 | • • • | <i>Moyens de fixation magnétiques</i> |
| | | • — — | <i>p.ex. baguettes; Corniches pour l'éclairage (pour la — — —</i> |

ANNEXE 12	F 16 B	[Project-Rapporteur : 366/DE] (T:FR) - SC/04/5	<SC05043F> <SC04015E>
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Note(s)
après le titre

<== l'eau des toits

N

*E 04 F 13/20 Moyens de fixation spécialement
adaptés pour les éléments d'habillage
ou de garnissage des bâtiments*

E 04 G 5/04 Fixation d'échafaudages ==>

The Canadian Intellectual
Property Office



L'Office de la propriété
intellectuelle du Canada

Project Number: C366

Date: September 19, 2001

Class/Subclass: E04F

Page 1 of 1

Comments were invited on:

-the correctness of the wording of the new group E04F 13/28 (see Annex 11 to this report) and whether similar groups covering **A** adjustment devices and adjustable fastening means **A** would be desirable to create under groups E04F 13/22, 13/24 or 13/30.

CA supports the correctness of the wording of new group E04F 13/28 (see Annex 11 to this report) but does not support the creation of similar groups covering **A** adjustment devices and adjustable fastening means **A** to be placed under subgroups 13/22, 13/24 or 13/30. CA now believes that all **A** adjustment devices and adjustable fastening means **A** for covering and lining elements should be placed in E04F 13/28 as a three-dot subgroup under two-dot subgroup E04F 13/20, titled **A** Fastening means specially adapted for covering or lining elements **A**, as shown in the Working Group Report (see Annex 30 of the project file and Annex 18 to that report).

John Chiarelli



EUROPEAN PATENT OFFICE
Principal Directorate Documentation

Comments
21 September 2001

Project: 366

Subclass: E04F

Comments were invited on the correctness of the wording of the new group E04F13/28 and whether similar groups covering "adjustment devices and adjustable fastening means" would be desirable under groups E04F13/22, 13/24 or 13/30.

After consultation with our specialists we would prefer to create similar subgroups relating to adjustment under 13/22, 13/24 and 13/26 with a slightly modified wording:

. . . . with adjustment devices or adjustable fastening means

With this approach we keep together the fastening means and the adjustment means which are mostly closely related to the way of fastening.

In group 13/30, concerning magnetic fastening means, there are not enough documents to justify the creation of such a subgroup.

H. Mende

OFICIUL DE STAT PENTRU
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RO. COMMENTS

Date: 26. 09.2001
Page: 1 of 1

Project: **C 366**
Class/Subclass: **E 04 F**

Comments were invited on the correctness of the wording of the new group E 04F 13/28 (Annex 11 to the report) and whether similar groups covering ~~A~~adjustment devices and adjustable fastening means@ would be desirable to create under groups E 04F 13/22, 13/24 or 13/30.

We consider the wording of the new group E04F 13/28 to be correct and to describe adequately the subject matter. We would prefer multiple classification in respect of the subject matter relating to ~~A~~adjustment devices and adjustable fastening means@.

Nevertheless, only if justified by the number of documents we can also take in consideration the solution of having subgroups for ~~A~~adjustment devices and adjustable fastening means@ for each of the groups 13/22, 13/24 or 13/30, but for the time being we prefer multiple classification.

Bucura Ionescu

Swedish Patent and Registration Office

IPC Revision Project C366, subclass E04F

September 24th, 2001

COMMENTS

(in response to IPC/WG/5/3, paragraph 13)

Comments were invited on

- the correctness of the wording of the new group E04F 13/28

We think the title is correct and covers all possibilities.

- whether similar groups covering “adjustment devices and adjustable fastening means” would be desirable to create under groups E04F 13/22, 13/24 or 13/30.

We have no objections against such groups. It is difficult for us to judge whether the number of documents justifies it, but adjustability is a relevant basis for subdivision in this field.

Anders Bruun

UK Patent Office
Date: 25 September 2001

Comments on Project c366 , Subclass E04F

Comments were invited on the correctness of group 13/28

It is not clear what is intended by **Aadjustment devices@**, being distinct from **Aadjustable fastening means@**, in main group 13/28. This is because at present 13/28 is a three dot entry following the two dot entry of 13/20 for fastening means. Therefore 13/28 can only be used to classify documents of adjustable fastening means. There would appear to be two options with regard to adjustable fastening means. Either leave it as a three dot entry and have references to it inserted in 13/22, 13/24, 13/26 and 13/30 or convert it to a four dot entry after 13/26 and create similar groups under 13/22 and 13/24.

We believe 13/28 should be a four dot entry and that similar groups should be created under 13/22 and 13/24. 13/30 does not require a corresponding sub-group as there would appear to be very few documents.

present			counter-proposal (changes in bold)		
13/22	<three dots>	anchors, support angles or consoles	13/22	<three dots>	anchors, support angles or consoles
			13/23	<four dots>	adjustable
13/24	<three dots>	hidden fastening means on rear of the covering or lining element (13/30 takes precedence)	13/24	<three dots>	hidden fastening means on rear of the covering or lining element (13/30 takes precedence)
			13/25	<four dots>	adjustable
13/26	<three dots>	edge engaging fastenings means, e.g. clamps, clips or border profiles	13/26	<three dots>	edge engaging fastenings means, e.g. clamps, clips or border profiles
			13/27	<four dots>	adjustable
13/30	<three dots>	magnetic fastening means	13/30	<three dots>	magnetic fastening means

The groups could be re-numbered if desired

David Glover

DEUTSCHES PATENT- UND MARKENAMT German Patent and Trade Mark Office	Class/Subcl.: E04F
	Date : 7.11.01
Sixth Rapporteur Report — C 366	

Re: IPC/WG/5/3

Background

Comments were invited on the correctness of the wording of the new group E04F 13/28 and whether similar groups covering ‘adjustment devices and adjustable fastening means’ would be desirable to be created under groups E04F 13/22, 13/24 or 13/30.

Comments Summary

Comments have been received by **CA**, **EP**, **GB**, **RO** and **SE**.

CA, **RO** and **SE** support the wording for **E04F 13/28**

GB points to superior group 13/20 concluding that the first part of the title of 13/28 ‘adjustment devices’ could only represent ‘adjustable fastening means’ and therefore is dispensable. **GB**, however, would prefer alternatively 4-dot groups under 13/22, 13/24 and 13/26 with the title ‘adjustable’

CA is against such similar subgroups.

RO and **SE** can imagine such subgroups, document amount permitting.

EP is in favour of them under 13/22, 13/24 and 13/26.

Rapporteur’s Recommendation

There is no doubt that ‘adjustment devices’ in this context can only mean devices serving also fastening purposes, at least in combination with fastening means. This part title probably was chosen by **DE** to denominate more complex adjustment mechanisms compared with, for example, a relatively simple screw-like fastener.

For clarity’s sake **R** therefore recommends to drop the first part of the 13/28 title if the 3-dot level of this group under 13/20 is to be maintained. **R** favours the latter, for otherwise with further subdivision of groups 13/22, 13/24 or 13/26 adjustable fastening means not meeting the contents of these groups would fall to superior group 13/20. Anyway, with this solution relevant subject matter would be scattered over several places.

If 13/28 is kept on a 3-dot level Multiple Classification in this area, see RO comment, would cater for overlap between 13/28 and other subgroups.



IPC/C 367/96
ORIGINAL: English/French
DATE: November 20, 2001

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

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

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

PROPOSAL BY: PROPOSITION DE :	DE	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	E 04 G
KIND OF REVISION: TYPE DE RÉVISION :	Creation of subgroups Création de sous-groupes		

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal	/ Demande de révision avec proposition détaillée	DE	16.02.96
2	Comments (re Annex 1)	/ Observations (réf. annexe 1)	GB	31.07.96
3	Comments (re Annex 1)	/ Observations (réf. annexe 1)	RO	-.10.96
4	Comments (re Annex 1)	/ Observations (réf. annexe 1)	SE	22.10.96
5	Comments with counter-proposal (re Annex 1)	/ Observations avec contre-proposition (réf. annexe 1)	EP	05.11.96
6	Rapporteur report	/ Rapport du rapporteur	DE	15.05.97
7	Decision of the Working Group	/ Décision du groupe de travail	WG	12.99
8	Comments	/ Observations	EP	03.00
9	Comments	/ Observations	JP	03.00
10	Comments	/ Observations	FR	03.00
11	Comments	/ Observations	CA	03.00
12	Comments	/ Observations	SE	03.00
13	Comments	/ Observations	RO	03.00
14	Rapporteur report	/ Rapport du rapporteur	DE	06.00

RAPPORTEUR : DE **TECHNICAL FIELD/DOMAINE TECHNIQUE :** M

ANNEX/ ANNEXE	CONTENT/CONTENU	ORIGIN/ ORIGINE	DATE
15	Decision of the Working Group / Décision du groupe de travail	WG	06.00
16	Comments / Observations	EP	09.00
17	Comments / Observations	JP	09.00
18	Comments / Observations	RO	09.00
19	Rapporteur report / Rapport du rapporteur	DE	11.00
20	Decision of the Working Group / Décision du groupe de travail	WG	01.01
21	Comments / Observations	EP	04.01
22	Comments / Observations	CA	04.01
23	Comments / Observations	RO	04.01
24	Comments / Observations	FR	05.01
25	Comments / Observations	SE	05.01
26	Rapporteur report / Rapport du rapporteur	DE	06.01
27	French version of approved amendments / Version française des modifications approuvées	FR	06.01
28	Decision of the Working Group / Décision du groupe de travail	WG	08.01
29	Comments / Observations	CA	10.01
30	Comments / Observations	EP	10.01
31	Comments / Observations	RO	10.01
32	Comments / Observations	SE	10.01
33	Comments / Observations	GB	10.01
34	Comments / Observations	FR	10.01
35	French version of approved amendments / Version française des modifications approuvées	FR	11.01
36	Rapporteur report / Rapport du rapporteur	DE	11.01

EXCERPT FROM DOCUMENT IPC/WG/5/3
EXTRAIT DU DOCUMENT IPC/WG/5/3

Project C 367 (mechanical) – Comments were invited on the desirability of the creation of subgroups of the new groups E 04 G 7/32 and 7/34 (see Annex 15 to this report), covering subject matter of the groups proposed as E 04 G 7/34 and 7/36 (see Annex 16 to the project file), and whether such subdivision of groups 7/32 and 7/34 would be efficient for searching.

Projet C 367 (mécanique) – Des observations ont été demandées sur l'opportunité de créer des sous-groupes dans les nouveaux groupes E 04 G 7/32 et 7/34 (voir l'annexe 15 du présent rapport), couvrant la matière des groupes E 04 G 7/34 et 7/36 proposés (voir l'annexe 16 du dossier de projet), et sur le point de savoir si une telle subdivision des groupes 7/32 et 7/34 serait utile pour la recherche.

ANNEX	13E	B 66 D	[Project-Rapporteur : 367/DE]	<SC05040E>
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Title

— — — for lifts [B 66 B](#); hoisting devices specially adapted for suspended scaffolds [E 04 G 3/32](#))

ANNEXE	13F	B 66 D	[Project-Rapporteur : 367/DE]	<SC05044F>
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Titre

— — — pour ascenseurs [B 66 B](#); dispositifs de levage spécialement adaptés aux échafaudages suspendus [E 04 G 3/32](#))

ANNEX	14E	B 66 F	[Project-Rapporteur : 367/DE]	<SC05041E>
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Title

— — — with lifting devices [E 04 G 1/22, 3/28](#); lifting devices for — — —

ANNEXE	14F	B 66 F	[Project-Rapporteur : 367/DE]	<SC05045F>
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Titre

— — — des dispositifs de levage [E 04 G 1/22, 3/28](#); dispositifs de levage pour — — —

ANNEX	15E	E 04 G	[Project-Rapporteur : 367/DE]	<SC05039E>
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1/00

Scaffolds primarily resting — — —

1/20

- • Scaffolds comprising upright — — —

	1/22	• • Scaffolds having a – – –	
	1/30	• • Ladder scaffolds	
N	3/34	• • <i>characterised by supporting structures provided on the roofs</i>	R
N	7/32	• • <i>with coupling elements using wedges</i>	
N	7/34	• • <i>with coupling elements using positive engagement, e.g. hooks or pins</i>	
	21/24	• – – – structures for scaffolds 1/26)	
	21/32	• – – – (relating to scaffolds 1/00 , 3/00 ; – – –	
	27/00	– – – ramps (for scaffolds 1/26 ; gangways – – –	

ANNEXE	15F	E 04 G	[Project-Rapporteur : 367/DE] (T:FR) - SC/04/5	<SC05038F> <SC04016E>
C	1/14	•	<i>comprenant essentiellement des éléments pré-assemblés en deux dimensions formant cadre, p.ex. des barres en L, en H avec ou sans entretoises (1/15 a priorité)</i>	
C	1/15	•	<i>– – – priorité); Plates-formes (leurs planches ou madriers 5/08)</i>	
D	1/16		<i>(transféré en 1/17, 5/16)</i>	
N	1/17	•	<i>comprenant essentiellement des éléments pré-assemblés en trois dimensions, p.ex. éléments cubiques</i>	
D	1/26		<i>(transféré en 5/00)</i>	
N	1/38	•	<i>Échafaudages partiellement supportés par le bâtiment (échelles pour accrochage à des constructions E 06 C 1/34)</i>	
N	3/18	•	<i>supportés par des consoles ou d'autres dispositions montées dans des ouvertures des bâtiments, p.ex. des ouvertures de fenêtres (3/28 a priorité)</i>	
N	3/20	•	<i>supportés par les murs (3/28 a priorité; ancrages sur les murs pour supporter les échafaudages 5/04; consoles 5/06)</i>	
N	3/22	•	<i>supportés par la couverture ou les plafonds (3/28 a priorité)</i>	
N	3/24	•	<i>spécialement adaptés pour des endroits particuliers des bâtiments ou pour des bâtiments de forme particulière, p.ex. cheminées de haut-fourneaux ou pylônes (3/28 a priorité)</i>	
N	3/26	• •	<i>spécialement adaptés pour travailler sur les toits</i>	
N	3/28	•	<i>Échafaudages mobiles; Échafaudages avec plates-formes mobiles</i>	
N	3/30	• •	<i>suspendus par des éléments supports flexibles, p.ex. des câbles</i>	
N	3/32	• • •	<i>Dispositifs de levage; Dispositifs de sécurité</i>	
N	3/34	• •	<i>caractérisés par des structures de support installées sur les toits</i>	

<i>C</i>	5/00	<i>Parties constitutives ou accessoires des échafaudages</i> (assemblages 7/00)
	5/08	<ul style="list-style-type: none"> • – – – madriers d'échafaudages
<i>N</i>	5/10	<ul style="list-style-type: none"> • <i>Marchepieds ou échelles spécialement adaptés pour les échafaudages</i>
<i>N</i>	5/12	<ul style="list-style-type: none"> • <i>Bâches</i>
<i>N</i>	5/14	<ul style="list-style-type: none"> • <i>Rambardes</i>
<i>N</i>	5/16	<ul style="list-style-type: none"> • <i>Entretoises ou barres de raidissement, p.ex. diagonales d'échafaudages</i>

ANNEX	16	E 06 C	[Project-Rapporteur : 367/DE]	<SC05053E>
	7/42	<ul style="list-style-type: none"> • – – – therefor (for scaffold elements E 04 G 5/02) 		

The Canadian Intellectual
Property Office



L'Office de la propriété
intellectuelle du Canada

Project Number: C367

Date: September 18, 2001

Class/Subclass: E04G

Page 1 of 1

Comments were invited on:

-the desirability of the creation of subgroups of the new groups E04G 7/32 and 7/34 (see Annex 15 to this report), covering subject matter of the groups proposed as E04G 7/34 and 7/36 (see annex 16 to the project file), and whether such subdivision of groups 7/32 and 7/34 would be efficient for searching.

CA agrees with **EP** (see Annex 16 to the project file) and supports the Rapporteur's proposal (see Annex 15 to this report) to create subgroups 7/32 and 7/34 because the subgroup titles are quite specific and allow for more efficient searching.

John Chiarelli

**Project: 367****Subclass: E04G**

Comments were invited on desirability of the creation of subgroups of the new groups E04G7/32 and 7/34, covering subject matter of the groups proposed as E04G7/32 and 7/36, and whether such subdivision of groups 7/32 and 7/34 would be efficient for searching.

Our experts have very good experience concerning search efficiency with the further subgroups under 7/36 which had been proposed already in Annex 5. We would like to propose these groups again with an adapted numbering:

- N 7/362 ... the added coupling elements are only fixed at one of the bars or members to connect
- N 7/3622 with tying means for connecting the bars or members
- N 7/3624 without tying means for connecting the bars or members
- N 7/364 ... the added coupling elements are fixed at several bars or members to connect
- N 7/3642 with tying means for connecting the bars or members
- N 7/3644 without tying means for connecting the bars or members

According our experts there is no need to create subgroup 7/32 for using wedges and if this group is maintained multiple classification should be applied.

H. Mende

OFICIUL DE STAT PENTRU
INVENTII SI MARCI

RO. COMMENTS

Date: 26. 09.2001
Page: 1 of 1

Project: **C 367**
Class/Subclass: **E 04 G**

Comments were invited on the desirability of creation of subgroups of the new groups E04G 7/32 and 7/34 (see Annex 15 to the report).

We are in favour of creating subgroups of the new groups E04G 7/32 and 7/34 (see Annex 15 to the report) covering the subject matter of application, as proposed in the former E04G 7/34 and 7/36, since we consider them more efficient for searching.

Bucura Ionescu

Swedish Patent and Registration Office

IPC Revision Project C367, subclass E04G

September 25th, 2001

COMMENTS

(in response to IPC/WG/5/3, paragraph 13 and EP comments of September 21)

Comments were invited on:

- the desirability of the creation of subgroups of the new groups 7/32 and 7/34, covering subject matter of the groups proposed as 7/34 and 7/36 (Annex 16)
- whether such subdivision of groups 7/32 and 7/34 would be efficient for searching.

We have no objections against introduction of subgroups to 7/34 on the lines proposed by EP, but we think only one of the groups in each pair of "with/without tying means" should be introduced. We also have some questions about wording. The word "added" lacks precedent and could probably be dropped. We also wonder how literally the word "tying" should be interpreted - is "connection means" what is intended? We do not believe it is pieces of string, but "tying" leads the thoughts that way...

Anders Bruun

UK Patent Office

Date: 26 September 2001

Comments on Project C367 , Subclass E04G

Comments were invited on the desirability of groups E04G 7/32 & 7/34

We believe that the creation of groups E04G 7/32 and 7/34 is desirable and that they form a useful body of documents for searching.

David Glover

Projet IPC / C 367
Sous-classe E 04 G

Au WG 5/3, des observations ont été demandées sur l'opportunité de créer des sous-groupes dans les nouveaux groupes E 04 G 7/32 et 7/34, couvrant la matière des groupes E 04 G 7/34 et 7/36 proposés (voir l'annexe 16 du dossier de projet), et sur le point de savoir si une telle subdivision des groupes 7/32 et 7/34 serait utile pour la recherche.

l'entrée 7/36 n'est pas mentionnée dans l'annexe 15 E et ne semble pas encore approuvée même si l'intention du groupe de travail était de le faire

L'OEB dans ses observations du 21/09/01 propose une subdivision du sous-groupe 7/36 (déjà proposée dans l'annexe 5) cette répartition étant éprouvée et efficace pour la recherche. L'OEB ne souhaite pas subdiviser le 7/32

Nous supportons le projet de l'OEB

les nouvelles entrées proposées par l'OEB 7/362 et 7/ 364 risquent de n'avoir que peu de documents, leurs subdivisions étant "with tying" et "without tying"

Projet IPC / C 367
Sous-classe E 04 G

VERSION FRANÇAISE

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

(ref : annexes 15E et 16 du document IPC/WG/5/3)

E 04 G

ANNEX	15E	E 04 G	[Project-Rapporteur : 367/DE]	<SC05039E>
	1/00	<Inchangé>		
	1/20	<Inchangé>		
	1/22	<Inchangé>		
	1/30	<Inchangé>		
N	3/34	<adopté annexe 15F de IPC/WG/>5/3>		
N	7/32	• • <i>les éléments d'assemblage utilisant des coins</i>		
N	7/34	• • <i>les éléments d'assemblage utilisant un engagement positif, p.ex. des crochets ou des broches</i>		
	21/24	<Inchangé>		
	21/32	<Inchangé>		
	27/00	<Inchangé>		
ANNEX	16	E 06 C	[Project-Rapporteur : 367/DE]	<SC05053E>
	7/42	<Inchangé>		

NB : dans les groupes E 04 G 21/24, 21/32 et 27/00, "scaffolding" a été remplacé par "scaffold" en anglais, ce qui n'a pas d'incidence sur la VF

DEUTSCHES PATENT- UND MARKENAMT	Class/Subcl.: E04G
German Patent and Trade Mark Office	Date : 7.11.01
Fifth Rapporteur Report — C 367	

Re: IPC/WG/5/3

Background

Comments were invited on the desirability of the creation of subgroups of the new groups E04G 7/32 and 7/34(Ann. 15 to the report) covering subject matter of the groups proposed as E04G 7/34 and 7/36 in Ann. 16 to the project file and whether such subdivisions would be efficient for searching.

Comments Summary

Comments were received by **CA**, **EP**, **FR**, **GB**, **RO** and **SE**.

CA, **GB** and **RO** agree to the new groups 7/32 and 7/34, see Ann. 15 to the report.

EP repeats its subdivision of 7/34, see Ann.5 to the project file supported by **FR** and **SE** with reservations.

Rapporteur's Recommendation

Groups E04G 7/32 and 7/34, see Ann. 15 to the report, seem to be uncontentious. Obviously there was no support of further subdividing these groups.

Before a further subdivision according to the **EP** proposal dated 21.9.01 can be envisaged the **WG** should first decide on groups 7/34 and 7/36 in Ann.16 to the project file and discuss the overlap with subgroups 7/32 and 7/34 now agreed to. As was pointed out by **FR** and **SE** the **EP** proposal lacks clarity in some denominations and structure. **R** is sure that **EP** will contribute to clarifying their proposal so that the **WG** can decide on it.

Having consulted the **DE** expert on that field **R** is doubtful whether group 7/36 (Ann.16 to the project file) should be created at all for the vast majority of 'scaffolding bars or members with non-detachably fixed coupling elements'(7/30) are bars or members 'crossing or intersecting' other bars or members (proposed 7//36 in Ann.16 to the project file).

eod



IPC/C 369/96
ORIGINAL: English/French
DATE: November 14, 2001

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

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

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

PROPOSAL BY: PROPOSITION DE :	EP	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	F 04 C
KIND OF REVISION: TYPE DE RÉVISION :	Creation of subgroups Création de sous-groupes		

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal	/ Demande de révision avec proposition détaillée	EP	30.01.96
2	Revision request with detailed proposal	/ Demande de révision avec proposition détaillée	EP	30.01.96
3	Comments (re Annexes 1, 2)	/ Observations (réf. annexes 1, 2)	GB	31.07.96
4	Comments (re Annexes 1, 2)	/ Observations (réf. annexes 1, 2)	RO	-.10.96
5	Comments (re Annexes 1, 2, 3)	/ Observations (réf. annexes 1, 2, 3)	SE	21.10.96
6	Comments with counter-proposal (re Annexes 1, 2)	/ Observations avec contre-proposition (réf. annexes 1, 2)	DE	15.10.96
7	Comments (re Annexes 1, 2)	/ Observations (réf. annexes 1, 2)	CA	18.10.96
8	Comments (re Annexes 1-7)	/ Observations (réf. annexes 1-7)	EP	01.03.97
9	Rapporteur report	/ Rapport du rapporteur	EP	15.04.97
10	Proposal	/ Proposition	JP	30.10.97
11	Decision of the Working Group	/ Décision du groupe de travail	WG	07.99
12	Comments	/ Observations	EP	10.99
13	Comments	/ Observations	CA	10.99

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

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
14	Comments	/ Observations	RO	10.99
15	Comments	/ Observations	DE	10.99
16	Comments	/ Observations	GB	11.99
17	Comments	/ Observations	SE	11.99
18	Rapporteur report	/ Rapport du rapporteur	EP	11.99
19	Comments	/ Observations	JP	03.00
20	Comments	/ Observations	DE	03.00
21	Decision of the Working Group	/ Décision du groupe de travail	WG	06.00
22	Comments	/ Observations	EP	09.00
23	Comments	/ Observations	GB	09.00
24	Comments	/ Observations	RO	09.00
25	Comments	/ Observations	SE	09.00
26	Rapporteur report	/ Rapport du rapporteur	EP	10.00
27	Comments	/ Observations	CA	11.00
28	Decision of the Working Group	/ Décision du groupe de travail	WG	01.01
29	Rapporteur report	/ Rapport du rapporteur	EP	05.01
30	Comments	/ Observations	DE	08.01
31	Decision of the Working Group	/ Décision du groupe de travail	WG	08.01
32	Citation of examples	/ Énumération d'exemples	EP	08.01
33	Proposal	/ Proposition	SE	08.01
34	Comments	/ Observations	CA	10.01
35	Comments	/ Observations	JP	10.01
36	Comments	/ Observations	EP	10.01
37	Comments	/ Observations	RO	10.01
38	Comments	/ Observations	SE	10.01
39	Comments	/ Observations	GB	10.01
40	Comments	/ Observations	DE	10.01
41	French version of approved amendments	/ Version française des modifications approuvées	EP	11.01

ANNEX/ ANNEXE	CONTENT/CONTENU	ORIGIN/ ORIGINE	DATE
42	Rapporteur report / Rapport du rapporteur	EP	11.01

Deutsches Patent- und Markenamt German Patent and Trademark Office	Class/Subcl.: F04C, F01C
	Date : 31.05.2001
DE - Comments — C 369	

We would like to submit the following comments to the scheme proposed by the EPO in their Rapporteur Report from 08 May 2001:

F04C 14/05:

We agree with the arrangement of the subgroup 14/05 before 14/06 (accordingly the subgroups F04C 28/05 and F01 20/05 before F04C 28/06 and F01 20/06); but we would prefer the wording of the title of this subgroup to be adjusted to “**characterized by** stopping or starting, idling or no-load operation” so it fits better to the title of the subgroup F04C 14/06. The same should apply to the subgroups F04C 28/05 and F01 20/05).

F04C 14/16, 14/17, 14/18:

We appreciate the further break down of the group 14/16, but in our opinion the hierarchy of the subgroups 14/16, 14/17, 14/18 should be the same to avoid overlaps between them. Also the expressions in all the titles should be standardized. This would lead to the following wording:

14/16	.. using adjustable slides
14/17	.. using rotating slides
14/18	.. using lift valves

The titles of the subgroups F04C 28/16, 28/17, 28/18 and of the subgroups F01C 20/16, 20/17, 20/18 should be adopted accordingly.

F04C 15/06:

We do not understand what the content of this subgroup will be. Please give us examples of patent documents which will be classified in this subgroup. The same applies to the subgroups F04C 29/12 and F01C 21/18.

EXCERPT FROM DOCUMENT IPC/WG/5/3
EXTRAIT DU DOCUMENT IPC/WG/5/3

Project C 369 (mechanical) – The Working Group considered the part of the rapporteur report (see Annex 29 to the project file) relating to main group F 04 C 28/00 and agreed to create that main group with its subdivisions (see Annex 17 to this report).

The EPO was invited to cite examples of patent documents illustrating the proposed group F 04 C 29/12 (see the said Annex 29) and to propose its improved wording.

Comments were invited on:

- whether group 28/30 was intended to cover “safety arrangements” in general or only as a subset of “control arrangements” and whether, as a consequence, “safety arrangements” should be part of the title of main group 28/00 or not;
- in the former case, what should be a proper relationship between group 28/30 and other subgroups of main group 28/00, for example, whether any references were needed or group 28/30 should be made a residual group;
- in the latter case, how the wording of group 28/30 could be modified in order to clarify its scope;
- whether the term “pumps” in the wordings of groups 28/02 and 28/04 was sufficient to correctly reflect the intended scope of those groups;
- whether the wording of group 28/14 was clear and which examples could be added to the wording in order to clarify the contents of the group;
- how detailed should be subdivision of group 28/16, in the light of its potential file size, and whether its subdivision should be done according to the Rapporteur’s proposal or the counter-proposal submitted by Germany (see Annexes 29 and 30 to the project file, respectively);
- the desirability of the proposed group F 04 C 29/12, in the light of the examples to be cited and a new wording to be proposed by the EPO.

Sweden was invited to conduct a study on the relationship between Guide Headings and titles of main groups in subclass F 04 C and to propose improvements of main group titles using information provided by the Guide Headings. Sweden was also invited to propose how subject matter relating to “monitoring” should be reflected in the title of main group F 04 C 28/00.

Comments were invited on the proposals to be submitted by Sweden.

Projet C 369 (mécanique) – Le groupe de travail a examiné la partie du rapport du rapporteur (voir l'annexe 29 du dossier de projet) relative au groupe principal F 04 C 28/00 et a convenu de créer ce groupe principal avec ses subdivisions (voir l'annexe 17 du présent rapport).

L'OEB a été invité à citer des exemples de documents de brevet illustrant le groupe F 04 C 29/12 dont la création est proposée (voir l'annexe 29 précitée) et à proposer un libellé amélioré pour ce groupe.

Des observations ont été demandées

- sur la question de savoir si le groupe 28/30 est destiné à couvrir les “safety arrangements” en général ou seulement à former un sous-ensemble de “control arrangements” et si, par conséquent, les “safety arrangements” doivent faire partie ou non du titre du groupe principal 28/00;
- dans le premier cas, sur ce qui devrait constituer un lien approprié entre le groupe 28/30 et d'autres sous-groupes du groupe principal 28/00, par exemple sur le point de savoir si des renvois sont nécessaires ou si le groupe 28/30 doit devenir un groupe résiduel;
- dans le second cas, sur la manière de modifier le libellé du groupe 28/30 afin d'en préciser la portée;
- sur la question de savoir si le terme “pumps” du libellé des groupes 28/02 et 28/04 est suffisant pour traduire correctement la portée envisagée de ces groupes;
- sur la question de savoir si le libellé du groupe 28/14 est clair et sur les exemples qui pourraient y être ajoutés afin de préciser le contenu du groupe;
- sur le degré de détail à donner à la subdivision du groupe 28/16, compte tenu de la taille possible des dossiers, et sur la question de savoir si cette subdivision doit être faite en fonction de la proposition du rapporteur ou de la contre-proposition présentée par l'Allemagne (voir les annexes 29 et 30 du dossier de projet, respectivement);
- sur l'opportunité du groupe F 04 C 29/12 proposé, compte tenu des exemples qui seront cités et du nouveau libellé qui sera proposé par l'OEB.

La Suède a été invitée à faire une étude sur le lien entre les rubriques-guides et les titres des groupes principaux de la sous-classe F 04 C et à proposer des améliorations à apporter aux titres des groupes principaux en utilisant l'information donnée par les rubriques-guides. La Suède a aussi été invitée à proposer une solution permettant de tenir compte, dans le titre du groupe principal F 04 C 28/00, de la matière concernant le “monitoring”.

Des observations ont été demandées sur les propositions qui seront présentées par la Suède.

ANNEX	17	F 04 C	[Project-Rapporteur : 369/EP]	<SC05047E>
N	28/00	<i>Control of, or safety arrangements for, pumps or pumping installations</i>		
N	28/02	<ul style="list-style-type: none"> • <i>pecially adapted for several pumps connected in series or in parallel</i> 		
N	28/04	<ul style="list-style-type: none"> • <i>pecially adapted for reversible pumps</i> 		
N	28/06	<ul style="list-style-type: none"> • <i>pecially adapted for stopping, starting, idling or no-load operation</i> 		
N	28/08	<ul style="list-style-type: none"> • <i>characterised by varying the rotational speed</i> 		
N	28/10	<ul style="list-style-type: none"> • <i>characterised by varying the volume of the working chamber (by changing the position of inlet or outlet openings 28/16)</i> 		
N	28/12	<ul style="list-style-type: none"> • • <i>by changing the form of the inner or outer contour of the working chamber</i> 		
N	28/14	<ul style="list-style-type: none"> • • <i>by changing the eccentricity between two members</i> 		
N	28/16	<ul style="list-style-type: none"> • <i>characterised by changing the positions of the inlet or outlet openings with respect to the working chambers</i> 		
N	28/20	<ul style="list-style-type: none"> • <i>characterised by using valves regulating pressure or flow rate, e.g. discharge valves</i> 		
N	28/22	<ul style="list-style-type: none"> • • <i>using bypass channels</i> 		
N	28/30	<ul style="list-style-type: none"> • <i>Safety arrangements; Monitoring</i> 		
	29/00	— — — 18/00 to 28/00		
D	29/08	<i>(transferred to 28/00)</i>		
D	29/10	<i>(transferred to 28/00)</i>		

Project: 369

Subclass: F04C

The rapporteur was asked to cite examples of patent documents illustrating the proposed group F04C29/12 and propose an improved wording.

Examples: EP578890, EP872642, US4619595

It is difficult to find a better wording which covers the subject matter of the cited documents. We would appreciate if other offices can propose an improved title in their comments. Our proposal is to add an example to the title:

- 29/12 . Working-fluid admission or discharge, e.g. constructional features of the inlet or outlet

H. Mende

Swedish Patent and Registration Office

IPC Revision Project C 369, subclass F04C

August 16th, 2001

PROPOSAL

(in response to IPC/WG/5/3, paragraph 13)

1. Study of the relationship between guide headings and titles of main groups in subclass F04C and proposal for improvements of main group titles using information provided by the guide headings

Although slightly differently worded, the guide heading before 2/00 has exactly the same coverage as the subclass title. The guide heading before 18/00 limits the scope of the following groups to "pumps specially adapted for elastic fluids". This arrangement looks rather strange, since it appears that groups 2/00 - 15/00 would exhaust the other groups, but the intention must be that groups 2/00 - 15/00 cover general aspects and groups 18/00 - 29/00 cover specially adapted aspects.

Since this intention should be indicated to the user we propose to add the words "in general" to the guide heading before 2/00. In order to make the guide headings easier to understand we propose to delete the words "Rotary-piston, or oscillating-piston, positive-displacement" from the guide headings, since they only repeat the subclass title.

We also propose to add the words "specially adapted for elastic fluids" to each of main groups 18/00 - 29/00

Normally there are informative references between general place and special places. We propose to add references in each of main groups 2/00 - 15/00, referring pumps specially adapted for elastic fluids to relevant places in groups 18/00 - 29/00. The alternative would have been to put a reference in the guide heading before 2/00, but this would reintroduce the necessity to consult the guide headings in order to understand the coverage of the groups. Putting references in the different groups also enables giving more specific references, while a reference in the guide heading could only point to the entire interval 18/00 - 29/00.

For ease of reference the proposal is presented together with the existing wording. Modifications are indicated by *italics*. No change of scope is intended with any of the modifications.

<u>IPC 7</u>	<u>Proposal</u>
F04C ROTARY-PISTON, OR OSCILLATING-PISTON, POSITIVE-DISPLACEMENT MACHINES FOR LIQUIDS (engines F03C); ROTARY-PISTON, OR OSCILLATING-PISTON, POSITIVE-DISPLACEMENT PUMPS?	F04C ROTARY-PISTON, OR OSCILLATING-PISTON, POSITIVE-DISPLACEMENT MACHINES FOR LIQUIDS (engines F03C); ROTARY-PISTON, OR OSCILLATING-PISTON, POSITIVE-DISPLACEMENT PUMPS? <i><no change></i>
<u>Rotary-piston, or oscillating-piston, positive-displacement machines or pumps for liquids; Rotary-piston, or oscillating-piston, positive-displacement pumps?</u>	<u><i>Machines for liquids; Pumps in general</i></u>

2/00 Rotary-piston machines or pumps (with non-parallel axes of co-operating members 3/00; with the working-chamber walls at least partly resiliently deformable 5/00; with fluid ring or the like 7/00; rotary-piston machines or pumps in which the working-fluid is exclusively displaced by, or exclusively displaces, one or more reciprocating pistons F04B)	2/00 Rotary-piston machines or pumps (with non-parallel axes of co-operating members 3/00; with the working-chamber walls at least partly resiliently deformable 5/00; with fluid ring or the like 7/00; pumps specially adapted for elastic fluids 18/00, 19/00 ; rotary-piston machines or pumps in which the working-fluid is exclusively displaced by, or exclusively displaces, one or more reciprocating pistons F04B)
3/00 Rotary-piston machines or pumps, with non-parallel axes of movement of co-operating members, e.g. of screw type (with the working-chamber walls at least partly resiliently deformable 5/00)	3/00 Rotary-piston machines or pumps, with non-parallel axes of movement of co-operating members, e.g. of screw type (with the working-chamber walls at least partly resiliently deformable 5/00; pumps specially adapted for elastic fluids 18/48)
5/00 Rotary-piston machines or pumps with the working-chamber walls at least partly resiliently deformable	5/00 Rotary-piston machines or pumps with the working-chamber walls at least partly resiliently deformable (pumps specially adapted for elastic fluids 18/00)
7/00 Rotary-piston machines or pumps with fluid ring or the like	7/00 Rotary-piston machines or pumps with fluid ring or the like (pumps specially adapted for elastic fluids 19/00)
9/00 Oscillating-piston machines or pumps	9/00 Oscillating-piston machines or pumps (pumps specially adapted for elastic fluids 21/00)
11/00 Combinations of two or more machines or pumps, each being of rotary-piston or oscillating-piston type; Pumping installations (13/00 takes precedence; fluid gearing F16H)	11/00 Combinations of two or more machines or pumps, each being of rotary-piston or oscillating-piston type (of pumps specially adapted for elastic fluids 23/00); Pumping installations (13/00 takes precedence; specially adapted for elastic fluids 23/00 ; fluid gearing F16H)
13/00 Adaptations of machines or pumps for special use, e.g. for extremely high pressures	13/00 Adaptations of machines or pumps for special use, e.g. for extremely high pressures (of pumps specially adapted for elastic fluids 19/00)
15/00 Component parts, details, or accessories, of machines, pumps, or pumping installations, not provided for in, or of interest apart from, other groups	15/00 Component parts, details, or accessories, of machines, pumps, or pumping installations, not provided for in, or of interest apart from, groups 2/00 - 13/00 (of pumps specially adapted for elastic fluids 18/00 to 29/00)
<u>Rotary-piston, or oscillating-piston, positive-displacement pumps specially adapted for elastic fluids</u>	<u>Pumps specially adapted for elastic fluids</u>

18/00 Rotary-piston pumps (with fluid ring or the like 19/00; rotary-piston pumps in which the working-fluid is exclusively displaced by one or more reciprocating pistons F04B) [3]	18/00 Rotary-piston pumps <i>pecially adapted for elastic fluids</i> (with fluid ring or the like 19/00; rotary-piston pumps in which the working-fluid is exclusively displaced by one or more reciprocating pistons F04B)
19/00 Rotary-piston pumps with fluid ring or the like	19/00 Rotary-piston pumps with fluid ring or the like, <i>pecially adapted for elastic fluids</i>
21/00 Oscillating-piston pumps	21/00 Oscillating-piston pumps <i>pecially adapted for elastic fluids</i>
23/00 Combinations of two or more pumps, each being of rotary-piston or oscillating-piston type; Pumping installations; Multi-stage pumps (25/00 takes precedence)	23/00 Combinations of two or more pumps, each being of rotary-piston or oscillating-piston type, <i>pecially adapted for elastic fluids</i> ; Pumping installations <i>pecially adapted for elastic fluids</i> ; Multi-stage pumps <i>pecially adapted for elastic fluids</i> (25/00 takes precedence)
25/00 Adaptations of pumps for special use	25/00 Adaptations of pumps, <i>pecially adapted for elastic fluids</i> , for special use
27/00 Sealing arrangements in rotary-piston pumps (sealing in general F16J)	27/00 Sealing arrangements in rotary-piston pumps <i>pecially adapted for elastic fluids</i> (sealing in general F16J)
28/00 Control of, or safety arrangements for, pumps or pumping installations <IPC/WG/5/3, Technical Annex 17>	28/00 Control of, <i>monitoring of</i> , or safety arrangements for, pumps or pumping installations <i>pecially adapted for elastic fluids</i> <see below!>
29/00 Component parts, details, or accessories, of pumps or pumping installations, not provided for in, or of interest apart from, groups 18/00 to 27/00	29/00 Component parts, details, or accessories, of pumps or pumping installations, <i>pecially adapted for elastic fluids and</i> not provided for in, or of interest apart from, groups 18/00 to 27/00

2. Proposal for reflecting subject matter relating to "monitoring" in the title of main group F04C 28/00

According to the Guide, paragraph 99, "*monitor*" means "*maintain a continuous or periodical watch (human or instrumental) on, to enable action to be taken or initiated, or a signal to be given, if undesired conditions occur*".

This means that "monitoring" is something completely different from "control". It could be questioned whether monitoring goes beyond "safety arrangements". We think this is the case, since monitoring, especially as an alternative expression to "diagnosis", which was the word originally proposed in this project, for example can be used to initiate routine maintenance. It is dangerous to modify defined terms in the guide, but it would perhaps be better to say "certain conditions" instead of "undesired conditions" in the paragraph 99 definition of "monitoring."

The tendency in the existing IPC is that "monitoring" is not a subset of "safety arrangements", see for example the titles of B60T 17/18, F27D 21/00, G05B 19/048 and G05B 19/406.

Therefore we propose to include monitoring as a separate part of 28/00 title. Together with the modifications made above, our proposal is:

N 28/00 Control of, *monitoring of*, or safety arrangements for, pumps or pumping installations
 specially adapted for elastic fluids

Anders Bruun

The Canadian Intellectual
Property Office



L'Office de la propriété
intellectuelle du Canada

Project Number: C369

Date: September 19, 2001

Class/Subclass: F04C

Page 1 of 1

With regard to groups 28/00 and 28/30, we agree with the proposal submitted by Sweden (Annex 33).

The term **Apumps@** in the wordings of groups 28/02 and 28/04 is sufficient; the wording of 28/14 is also clear.

We believe the subdivision of group 28/16 should be done according to the counter-proposal submitted by Germany (Annex 30).

We also believe in adopting the proposed group F04C-29/12 and wording by the EPO.

Finally, we support all aspects of the proposal made by Sweden (Annex 33).

R. Gruber

Japan Patent Office

September 26, 2001

Project:C-369Subclass:F04C

JPO Comments on the IPC Revision Proposal for C 369

JP proposes some comments on Annex 33 submitted by SE as follows.

1. Modification to the F04C Title

We support the suggested title.

2. Wordings of F04C 18/00 - 29/00

With regard that the wording “pumps specially adapted for elastic fluids” is applied to groups 18/00 - 29/00, we do not think that this sentence is necessary to them in view of the consistency among other subclasses of F04 (e.g. F04B, F04D). However, we agree to consider that 2/00 - 15/00 would cover other things except “pumps specially adapted for elastic fluids,” and 18/00 - 29/00 would cover the “pumps specially adapted for elastic fluids.”

3. Wording of 28/00

In respect of applying the word “monitoring” to 29/00, the words “safety arrangement” are actually used differently from “ monitoring” in IPC. The “monitoring,” however, is not used in main groups belonging to other subclasses of F04.

Therefore, we propose that it is necessary to review the validity of using “monitoring” only in F04C in view of the consistency among other subclasses of F04 while we do not deny to include techniques having the concept of the “monitoring” into 28/00.



Project: 369 Subclass: F04C

Comments were invited on:

- whether group 28/30 was intended to cover "safety arrangements" in general or only as a subset of "control arrangements" and whether, as a consequence, "safety arrangements" should be part of the title of main group or not;

We think that group 28/30 should cover "safety arrangements" in general and as a consequence should be part of the main group title.

- in the former case, what should be a proper relationship between group 28/30 and other subgroups of main group 28/00, for example, whether any references are needed or group 28/30 should be made a residual group;

No references are needed and the group should not be residual to other groups.

- whether the term "pumps" in the wordings of groups 28/02 and 28/04 was sufficient to correctly reflect the intended scope of those groups;

The wording is sufficient and clearly defined in the notes of F01B or included in the definition part of the new IPC.

"pump" means a device for continuously raising, forcing, compressing, or exhausting fluid by mechanical or other means.

- whether the wording of group 28/14 was clear and which examples could be added to the wording in order to clarify the contents of the group;

The wording could be improved by introducing the word "cooperating":

N 28/14 . . by changing the eccentricity between *cooperating* members

- how detailed should be subdivision of group 28/16, in the light of its potential size, and whether its subdivision should be done according the Rapporteur's proposal or the counter proposal submitted by Germany;

We would like to maintain only the first subgroup:

N 28/17 . . . Rotary slides

For the second subgroup "using lift valves" there are probably not enough documents according to our expert.

The German proposal will create some overlap problems between groups 28/16 and 28/17, because an adjustable slide can also be a rotating slide. Before introducing the subgroup 28/18 we would like to know the file size and see some examples for lift valves under the scope of "changing position of the inlet or outlet openings".

We support the new main group titles and guide headings proposed by the Swedish office in Annex 33.

H. Mende

**OFICIUL DE STAT PENTRU
INVENTII SI MĂRCI**

RO COMMENTS

Date:Sept. 2001

Project: IPC **C369**

Class/Subclass **F04B**

-whether group 28/30 was intended to cover "safety arrangements" in general or only as a subset of "control arrangements" and whether, as a consequence, "safety arrangements" should be part of the title of main group or not;

Taking into account the Swedish study regarding the relationship between Guide Headings and titles of the main groups in subclass F04C, we think that the **A**safety arrangements@ should be a part of the title of the main group 28/00. The wording of 28/00 should include the **A**safety arrangements@.

-in the former case, what should be a proper relationship between group 28/30 and other subgroups of main group 28/00, for example, whether any references are needed or group 28/30 should be made a residual group;

In our opinion no references are needed. The group should not be residual to other groups.

-whether the wording of the group 28/14 was clear and which examples could be added to the wording in order to clarify the contents of the group;

In our opinion the wording is clear enough and examples are not necessary.

- We agree with the DE opinion that the groups 14/16, 14/17 and 14/18 should be of the same hierarchy and the same principle should be adopted in the case of the groups 28/16, 28/16 and 28/18.

-We find the group 29/12 useful and we agree with the example added by EPO to the wording of the group.

N.MUR{ RUS

Swedish Patent and Registration Office

IPC Revision Project C369, subclasses F01C, F04C

September 26th, 2001

COMMENTS

(in response to Annexes 31-33 and EP comments of September 21st)

Comments were invited on:

- whether group 28/30 was intended to cover “safety arrangements” in general or only as a subset of “control arrangements” and whether, as a consequence, “safety arrangements” should be part of the title of main group 28/00 or not;
- in the former case, what should be a proper relationship between group 28/30 and other subgroups of main group 28/00, for example, whether any references were needed or group 28/30 should be made a residual group;
- in the latter case, how the wording of group 28/30 could be modified in order to clarify its scope;

We think 28/30 should cover safety arrangements in general, and that it therefore should be part of the main group title. Since the other group titles contain the expressions "specially adapted for" or "characterised by" we think there is no need for references.

- whether the term “pumps” in the wordings of groups 28/02 and 28/04 was sufficient to correctly reflect the intended scope of those groups;

Any lack of clarity would be caused by doubt on whether "pumping installations" is covered or not. The subject matter of 24/02 would to us appear to be a pumping installation, so we see no problem there. The coverage of 28/04 is clear in itself, so we see no problems, and we wonder whether there are any reversible pumping installations.

- whether the wording of group 28/14 was clear and which examples could be added to the wording in order to clarify the contents of the group;

We support the proposal made in the recent EP comments.

- how detailed should be subdivision of group 28/16, in the light of its potential file size, and whether its subdivision should be done according to the Rapporteur's proposal or the counter-proposal submitted by Germany (see Annexes 29 and 30 to the project file, respectively);

We prefer Rapporteur's proposal, if there are enough documents to justify all groups. The subdivision proposed by DE contains overlap between 14/16 and 14/17.

- the desirability of the proposed group 29/12, in the light of the examples to be cited and a new wording to be proposed by the EPO.

We support the proposal of Annex 32, but the title should perhaps begin with "Arrangements for".

- **the proposals for improvements of main group titles submitted by Sweden.**
- **the proposals for how subject matter relating to “monitoring” should be reflected in the title of main group 28/00**

We still think they are pretty good...

Anders Bruun

UK Patent Office**Date: 26 September 2001**

Comments on Project C369 , Subclass F04C

We agree with the proposal of the Swedish office, submitted on 16 August 2001, regarding the amendments of the guide headings and the changes to the wording of the main groups. We particular commend the introduction of the reference A(of pumps specially adapted for elastic fluids)@ in main groups 2/00 -15/00.

We agree to the wording of 29/12 as suggested by EPO in their submission of 10 August 2001. We assume that this revised wording will also apply to corresponding groups F04C 15/06 and F01C 21/18.

Comments were invited on whether group **28/30** was intended to cover safety arrangements in general or just control aspects of safety arrangements.

We have looked at some of the documents which are currently classified in F04C 15/04 & 29/10 which are likely to be transferred to new safety arrangement groups 14/30 & 28/30 respectively should they be created. Documents have been classified here which define safety arrangements in general, e.g. US 6213760 / EP 0993554 is a pump with a transparent safety cover, and which provide safety by controlling the pump, e.g. EP 0314133 stops the pump when abnormal conditions are detected.

Therefore we believe that all aspects of safety arrangements should be covered by the main groups F04C 14/00, 28/00 & F01C 20/00. We also believe that there is a strong case that the groups F04C 14/30, 28/30 & F01C 20/30 should take precedence within their respective main groups.

In addition we believe that monitoring should be dropped from 28/30 and that such documents should be classified in 28/00.

Comments were also invited on whether Apumps@ is sufficient to correctly reflect the intended scope of **28/02 & 28/04**.

We believe that if the wording of the main group 28/00 as proposed by Sweden in their submission of 16 August were to be adopted, then the use of Apumps@ in 28/02 & 28/04 should be sufficient.

Comments were invited on wording of **28/14**

Our examiner is happy with wording of 28/14.

Comments were invited on subdivision of group **28/16**

We maintain the view that wording of 28/16 & 28/17 will encourage the classification of documents that just have these types of valves but do not have the inventive feature of changing the position of the inlet or outlet openings. Nevertheless we prefer the Rapporteur's proposal to that of Germany.

UK comments can be summarised as follows

		as adopted			counter-proposal (changes in bold)
28/00	<no dots>	control of, or safety arrangements for pumps or pumping installations	28/00	<no dots>	control of, monitoring of , or safety arrangements for pumps or pumping installations specially adapted for elastic fluids
28/02	<one dot>	of several machines or engines connected in series or in parallel	28/03	<one dot>	for several pumps connected in series or parallel
28/04	<one dot>	specially adapted for reversible machines or engines	28/04	<one dot>	specially adapted for reversible pumps
28/05	<one dot>	during stopping, starting or no-load operation	28/05	<one dot>	specially adapted for stopping, starting or no-load operation (safety arrangements 28/30)
28/06	- 28/22	<no change>			
28/30	<one dot>	safety arrangements; monitoring	28/30	<one dot>	safety arrangements

Deutsches Patent- und Markenamt German Patent and Trademark Office	Class/Subcl.: F04C, F01C
	Date : 27.09.2001
DE - Comments — C 369	

With reference to the decisions of the working group (WG 5/3 from 20th of June, 2001) we would like to submit the following comments:

F04C 28/00:

In our opinion "safety arrangements" should be part of the title of this main group as well as "monitoring"; therefore we support the proposal of Sweden from 16th of August, 2001 (annex ?).

F04C 28/02, 28/04:

The term "pumps" in the title of these subgroups is sufficient in our opinion; this applies also to the subgroups F04C 14/02, 14/04 but obviously not to the main group F01C 20/00 and its subgroups.

F04C 28/14:

We think the wording of this group (as already adopted) is clear enough; as an example the wording "e. g. between rotor and housing" could be added.

F04C 28/16, 28/17, 28/18:

Referring to our comment from 31st of May, 2001 (Annex 30) we think this subdivision is very important. In our opinion - to avoid overlaps between these subgroups - the hierarchy of them should be the same. With regard to the objections raised by the EPO in their comment from 21st of September, 2001 we propose the following wording:

28/16 . . using sliding valves

28/17 . . using rotating valves

28/18 . . using lift valves.

The subgroup 28/16 would cover approximately the existing ECLA-subgroup 29/10B4B2 and the subgroup 28/17 would cover approximately the existing ECLA-subgroup 29/10B4B4.

We expect about 500 documents in the subgroup 28/16 and about 400 documents in the subgroup 28/17 because nearly all screw compressors ("Schraubenverdichter") use sliding

valves ("Ventilschieber") and will therefore fall into the subgroup 28/16 and respectively most vane compressors ("Flügelzellenverdichter") use rotating valves ("Drehschieber") and will therefore fall into the subgroup 28/17. Examples of patent documents illustrating the proposed group 28/18 would be: EP 0 350 426 A2, EP 0 775 826 A1, WO 86/06798 A1, DE 31 18 312 A1.

F04C 29/12:

We could not find a better wording of this subgroup and therefore we agree to the proposal of the EPO from 10th of august 2001. In our opinion this subgroup could further have three 2-dot groups concerning details of valves, details of housings and special materials with respect of the refrigerant.

Guide headings and titles of main groups in subclass F04C; proposals by Sweden from 16th of august, 2001:

We have no objections against the proposals made Sweden and we think that the added wording "specially adapted for elastic fluids" would be an improvement. But we wonder whether the term "compressor" could also be introduced into the titles.

U. Rödiger

**Projet: 369****Sous-classe: F04C**

- N 28/00 Commande ou dispositions de sécurité pour les pompes ou les installations de pompage
- N 28/02 . spécialement adaptées pour plusieurs pompes connectées en série ou en parallèle
- N 28/04 . spécialement adaptées pour les pompes réversibles
- N 28/06 . spécialement adaptées pour arrêter, pour démarrer, pour le ralenti ou pour un fonctionnement à charge nulle
- N 28/08 . caractérisées par une variation de la vitesse de rotation
- N 28/10 . caractérisées par une variation de volume de la chambre de travail (par modification des positions de l'ouverture de l'admission ou de l'échappement 28/16)
- N 28/12 . . en modifiant la forme du contour interne ou externe de la chambre de travail
- N 28/14 . . en modifiant l'excentricité entre deux organes
- N 28/16 . caractérisées par la modification des positions de l'ouverture de l'admission ou de l'échappement par rapport aux chambres de travail
- N 28/20 . caractérisées par l'utilisation des soupapes pour régler la pression ou le débit, p. ex. soupapes d'échappement
- N 28/22 . . en utilisant des passages de dérivation
- N 28/30 . Dispositions de sécurité; Surveillance
- 29/00 - - - 18/00 à 28/00
- D 29/08 (transféré en 28/00)
- D 29/10 (transféré en 28/00)

Project: C 369 Subclass: F04C, F01C

This project originates from an EPO proposal to introduce parallel subdivisions in subclass F04C for control related aspects of pumps and an analogous subdivision in subclass F01C relating to similar subject matter. This rapporteur report evaluates the comments on a set of questions put forward by the working group in Annex 31.

Comments:

Comments have been received from CA, DE, EP, GB, JP, RO and SE.
Comments were invited on:

- whether group 28/30 was intended to cover "safety arrangements" in general or only as a subset of "control arrangements" and whether, as a consequence, "safety arrangements" should be part of the title of main group or not;

All offices state that group 28/30 should cover "safety arrangements" in general and as a consequence should be part of the main group title.

- in the former case, what should be a proper relationship between group 28/30 and other subgroups of main group 28/00, for example, whether any references are needed or group 28/30 should be made a residual group;

SE, RO and EP think that no references are needed because the other group titles contain the expression "specially adapted for" or "characterised by". The group should not be residual to other groups. GB want a reference after 28/06.

- whether the term "pumps" in the wordings of groups 28/02 and 28/04 was sufficient to correctly reflect the intended scope of those groups;

Nearly all commenting offices see no problem with the term "pumps". DE points out that this title could not be used for the similar break down in F01C dealing with machines or engines.

- whether the wording of group 28/14 was clear and which examples could be added to the wording in order to clarify the contents of the group;

SE and EP believe that the wording could be improved by introducing the word "cooperating":
N 28/14 . . . by changing the eccentricity between *cooperating* members.

CA, RO and DE think that the wording is clear enough. DE proposes to add the wording: "e.g. between rotor and housing" as an example.

- how detailed should be subdivision of group 28/16, in the light of its potential size, and whether its subdivision should be done according the Rapporteur's proposal or the counter proposal submitted by Germany;

CA and RO support the original proposal submitted by Germany. SE, GB and EP prefer a subdivision according to the Rapporteurs proposal to avoid overlap between 28/16 and 28/17. DE proposes a new subdivision with modified wording to avoid the overlap and cites examples for the last group "using lift valves". All example documents show lift valves changing the position of inlet or outlet openings. GB warns again that this subdivision will encourage the

classification of documents that just have these type of valves but do not have the inventive feature of changing the position of inlet or outlet openings.

- the desirability of the proposed group F04C29/12, in the light of the cited examples

CA, DE, SE and RO support the introduction of the new group 29/12 in Annex 32. SE would like to add "Arrangements for" at the beginning of the title.

- comments were invited on the proposals for group titles and guide headings (Annex 33)

Nearly all offices support the "pretty good" proposal by Sweden. Only JP has some doubts about introducing "monitoring" in group 29/00 because of consistency between other subclasses of F04 which do not have a similar entry.

Rapporteur's suggestions

Rapporteur concludes there is only a problem concerning the subdivision of 28/16. The new proposal introduced by DE avoids overlap between the different valve types and the estimated group sizes are sufficient to justify the creation of these groups. Rapporteur suggests to take over the German proposal, which is better structured with all subgroups having the same level of hierarchy.

Taking into account the study of SE in Annex 33 and the comment of GB the term "monitoring" will be part of the main group title and removed from group title 28/30.

Rapporteur has produced a modified proposal based on Annex 29 and 31 taking into account the comments and suggestions. The former symbols used in Annex 29 are indicated between brackets "< >" and the unchanged already adopted groups are printed in italics.

F04C

- | | |
|------------------------|---|
| N 14/00 | Control of, monitoring of , or safety measures for machines, pumps or pumping installations (of pumps specially adapted for elastic fluids 28/00) |
| N 14/02 | . specially adapted for several machines or pumps connected in series or in parallel |
| N 14/04 | . specially adapted for reversible machines or pumps |
| N 14/06 <14/05> | . specially adapted for stopping or starting, idling or no-load operation |
| N 14/08 <14/06> | . characterised by varying the rotational speed |
| N 14/10 <14/12> | . characterised by varying the volume of the working chamber (by changing the position of inlet or outlet openings 14/16) |
| N 14/12 <14/10> | . . by changing the form of the inner or outer contour of the working chamber |
| N 14/14 <14/12> | . . characterised by changing the eccentricity between cooperating members |
| N 14/16 <14/14> | . characterised by changing the positions of the inlet or outlet openings with respect to the working chambers |
| N 14/17 | . . using sliding valves |
| N 14/18 | . . using rotating valves |
| N 14/19 <14/18> | . . using lift valves |
| N 14/20 | . characterised by using valves regulating pressure or flow rate, e.g. discharge valves |
| N 14/22 | . . using a bypass channel |
| N 14/30 | . Safety arrangements |

- C 15/00 Component parts, details or accessories of machines, pumps or pumping installations, not provided for in, or of interest apart from, groups 2/00 to **14/00 (of pumps specially adapted for elastic fluids 18/00 to 29/00)**
- D 15/02 (transferred to 14/00, **15/06**)
- D 15/04 (transferred to 14/00)
- N 15/06 . **Arrangements for working fluid admission or discharge, e.g. constructional features of the inlet or outlet**
- N 28/00 Control of, **monitoring of**, or safety measures for pumps or pumping installations **specially adapted for elastic fluids**
- N 28/02 . *specially adapted for several pumps connected in series or in parallel*
- N 28/04 . *specially adapted for reversible pumps*
- N 28/06 <28/05> . *specially adapted for stopping, starting, idling or no-load operation*
- N 28/08 <28/06> . *characterised by varying the rotational speed*
- N 28/10 <20/08> . *characterised by varying the volume of the working chamber (by changing the position of inlet or outlet openings 28/16)*
- N 28/12 <28/10> . . *by changing the form of the inner or outer contour of the working chamber*
- N 28/14 <28/12> . . *characterised by changing the eccentricity between **cooperating** members*
- N 28/16 <28/14> . *characterised by changing the positions of the inlet or outlet openings with respect to the working chambers*
- N 28/17 . . **using sliding valves**
- N 28/18 . . **using rotating valves**
- N 28/19 <28/18> . . using lift valves
- N 28/20 . *characterised by using valves regulating pressure **or** flow rate, e.g. discharge valves*
- N 28/22 . . *using a bypass channel*
- N 28/30 . **Safety arrangements**
- D 29/08 (transferred to 28/00, **29/12**)
- D 29/10 (transferred to 28/00)
- N 29/12 . **Arrangements for working fluid admission or discharge, e.g. constructional features of the inlet or outlet**

F01C

- N 20/00 Control of, **monitoring of**, or safety measures for, machines or engines
- N 20/02 . **specially adapted for** several machines or engines connected in series or in parallel
- N 20/04 . specially adapted for reversible machines or engines
- N 20/06 . **specially adapted for** stopping, starting, idling or no-load operation
- N 20/08 <20/06> . characterised by varying the rotational speed

- N 20/10 <20/08> . characterised by varying the volume of the working chamber
(by changing the position of inlet or outlet openings 20/16)
- N 20/12 <20/10> . . by changing the form of the inner or outer contour of the working
chamber
- N 20/14 <20/12> . . characterised by changing the eccentricity between **cooperating**
members
- N 20/16 <20/14> . characterised by changing the positions of the inlet or outlet openings
with respect to the working chambers
- N 20/17 . . **using sliding valves**
- N 20/18 . . **using rotating valves**
- N 20/19 <20/18> . . using lift valves
- N 20/20 . characterised by using valves regulating pressure or flow rate, e.g.
discharge valves
- N 20/22 . . using a bypass channel
- N 20/30 . **Safety arrangements**
- D 21/12 (transferred to 20/00, **21/18**)
- D 21/16 (transferred to 20/00)
- N 21/18 . **Arrangements for working fluid admission or discharge, e.g.**
constructional features of the inlet or outlet

H. Mende



IPC/C 371/96

ORIGINAL: English/French

DATE: November 14, 2001

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

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

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

PROPOSAL BY: PROPOSITION DE :	SE	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	F 23 B
KIND OF REVISION: TYPE DE RÉVISION :	Creation of a subgroup Création d'un sous-groupe		

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal	/ Demande de révision avec proposition détaillée	SE	30.01.96
2	Comments (re Annex 1)	/ Observations (réf. annexe 1)	GB	01.08.96
3	Comments (re Annex 1)	/ Observations (réf. annexe 1)	RO	10.96
4	Comments (re Annex 1)	/ Observations (réf. annexe 1)	DE	15.10.96
5	Comments (re Annex 1)	/ Observations (réf. annexe 1)	CA	18.10.96
6	Comments with counter-proposal (re Annex 1)	/ Observations avec contre-proposition (réf. annexe 1)	EP	05.11.96
7	Comments (re Annex 1)	/ Observations (réf. annexe 1)	FR	11.96
8	Comments (re Annex 6)	/ Observations (réf. annexe 6)	SE	13.02.97
9	Rapporteur report	/ Rapport du rapporteur	SE	24.03.97
10	Comments	/ Observations	JP	30.05.97
11	Rapporteur report	/ Rapport du rapporteur	SE	05.99
12	Rapporteur proposal	/ Proposition du rapporteur	SE	05.99
13	Comments	/ Observations	SE	07.99
14	Decision of the Working Group	/ Décision du groupe de travail	WG	07.99

RAPPORTEUR : SE **TECHNICAL FIELD/DOMAINE TECHNIQUE :** M

ANNEX/ ANNEXE	CONTENT/CONTENU	ORIGIN/ ORIGINE	DATE
15	Comments / Observations	EP	10.99
16	Comments / Observations	CA	10.99
17	Comments / Observations	RO	10.99
18	Comments / Observations	FR	11.99
19	Rapporteur report / Rapport du rapporteur	SE	11.99
20	Comments / Observations	JP	12.99
21	Decision of the Working Group / Décision du groupe de travail	WG	12.99
22	Proposal / Proposition	SE	03.00
23	Comments / Observations	EP	03.00
24	Comments / Observations	JP	03.00
25	Comments / Observations	RO	03.00
26	Rapporteur report / Rapport du rapporteur	SE	05.00
27	Decision of the Working Group / Décision du groupe de travail	WG	01.01
28	Rapporteur report / Rapport du rapporteur	SE	05.01
29	Decision of the Working Group / Décision du groupe de travail	WG	08.01
30	Comments / Observations	JP	10.01
31	Comments / Observations	EP	10.01
32	Comments / Observations	RO	10.01
33	Comments / Observations	SE	10.01
34	French version of approved amendments / Version française des modifications approuvées	FR	11.01
35	Rapporteur report / Rapport du rapporteur	SE	11.01

EXCERPT FROM DOCUMENT IPC/WG/5/3
EXTRAIT DU DOCUMENT IPC/WG/5/3

Project C 371 (mechanical) – The Working Group approved a new structure of subclass F 23 B at main group level proposed by the Rapporteur (see Annex 18 to this report). The Working Group noted that its earlier decision to proceed to the complete revision of that subclass was not only aimed at the improvement of classification in the field concerned but also at the creation of a revision model for the reformed IPC by using, *inter alia*, the standardized sequence of main groups.

The Working Group agreed that it was necessary to clearly define the borderline between subclasses F 23 B, F 23 C and F 23 G and noted, in this regard, that Project C 417 concerned with the revision of the two latter subclasses had been suspended by the Committee of Experts (see document IPC/CE/30/11, paragraph 13). The Working Group recalled that the Committee had authorized it to continue elaboration of a suspended project if that would be required by persuasive reasons. The Working Group agreed that the close interrelationship of Projects C 371 and C 417 represented such a persuasive reason and decided to resume the revision work under Project C 417, on the understanding that this would not compromise completion of Project C 371 in time for the next edition of the IPC. If necessary, revision work carried out by the Working Group under Project C 417 could be limited to the part needed for the completion of Project C 371.

The Working Group noted that the proposed groups F 23 B 14/10 and 14/14 (see Annex 28 to the project file) were withdrawn at the session.

Comments were invited on:

- the proper borderline between subclasses F 23 B, F 23 C and F 23 G, taking into account the revision proposals made under Project C 417;
- the desirability of creating an IPC entry relating to the shape of combustion chamber and whether it could be introduced as a classification or an indexing group, in the light of the proposal submitted by the EPO, the analysis made by Sweden (see Annexes 22 and 23 to the project file, respectively) and the guidelines for the creation of indexing schemes.

Projet C 371 (mécanique) – Le groupe de travail a approuvé une nouvelle structure de la sous-classe F 23 B au niveau du groupe principal, proposée par le rapporteur (voir l'annexe 18 du présent rapport). Il a noté que sa décision antérieure de poursuivre les travaux jusqu'à révision complète de cette sous-classe visait non seulement à améliorer le classement dans le domaine en question mais aussi à créer un modèle de révision pour la CIB après sa réforme en utilisant notamment la séquence normalisée des groupes principaux.

Le groupe de travail a convenu de la nécessité de définir clairement la démarcation entre les sous-classes F 23 B, F 23 C et F 23 G et a noté, à cet égard, que le projet C 417 concernant la révision des deux dernières sous-classes a été mis en suspens par le comité d'experts (voir le

paragraphe 13 du document IPC/CE/30/11). Le groupe de travail a rappelé que le comité l'a autorisé à poursuivre l'élaboration d'un projet en suspens s'il y a des arguments concluants pour cela. Il a convenu que la relation étroite existant entre les projets C 371 et C 417 constitue un argument de ce type et a décidé de reprendre le travail de révision au titre du projet C 417, étant entendu que cela ne compromettra pas l'achèvement du projet C 371 dans les délais voulus pour la prochaine édition de la CIB. Ce travail de révision au titre du projet C 417 pourra, au besoin, être limité à la partie nécessaire à l'achèvement du projet C 371.

Le groupe de travail a noté que les groupes F 23 B 14/10 et 14/14 proposés (voir l'annexe 28 du dossier de projet) ont été retirés lors de la session.

Des observations ont été demandées

- sur la démarcation adéquate entre les sous-classes F 23 B, F 23 C et F 23 G, compte tenu des propositions de révision faites au titre du projet C 417;
- sur l'opportunité de créer dans la CIB une entrée relative à la forme de la chambre de combustion et sur la question de savoir si cette entrée peut prendre la forme d'un groupe de classement ou d'un groupe d'indexation, compte tenu de la proposition présentée par l'OEB, de l'analyse faite par la Suède (voir les annexes 22 et 23 du dossier de projet, respectivement) et des principes directeurs applicables à la création de schémas d'indexation.

ANNEX	18	F 23 B	[Project-Rapporteur : 371/SE]	<SC05048E>
N	10/00	<i>Combustion apparatus characterised by the combination of two or more combustion chambers</i>		
N	12/00	<i>Combustion apparatus specially adapted for portability or transportability</i>		
N	14/00	<i>Combustion apparatus with driven means for agitating the burning fuel; Combustion apparatus with driven means for advancing the burning fuel through the combustion chamber</i>		
N	16/00	<i>Combustion apparatus with driven means for feeding fuel into the combustion chamber (14/00 takes precedence)</i>		
N	18/00	<i>Combustion apparatus in which the fuel is fed into or through the combustion zone by gravity, e.g. from a fuel storage situated above the combustion zone</i>		
N	20/00	<i>Combustion apparatus in which the fuel burns essentially without moving</i>		
N	22/00	<i>Combustion apparatus characterised by means for returning solid combustion residues to the combustion chamber</i>		
N	24/00	<i>Combustion apparatus characterised by means creating a distinct flow path for flue gases or non-combusted gases given off by the fuel</i>		
N	26/00	<i>Combustion apparatus not provided for in groups 10/00 to 24/00</i>		

<i>N</i>	<i>Heading before 101/00</i>	<i><u>Indexing scheme related to adaptation of combustion apparatus to boilers</u></i>
<i>N</i>	<i>101/00</i>	<i>Adaptation of combustion apparatus to boilers in which the combustion chamber is situated inside the boiler vessel, e.g. surrounded by cooled surfaces</i>
<i>N</i>	<i>103/00</i>	<i>Adaptation of combustion apparatus for placement in or against an opening of a boiler, e.g. for replacing an oil burner</i>

Japan Patent Office

September 26, 2001

Project:C-371Subclass:F23B

JPO Comments on the IPC Revision Proposal for C 371

JPO concerns that the Rapporteur proposal would blur the borderlines among subclasses F23C, F23G, F23H, etc., and it is desirable that these borderlines would be clarified in view of the accurate classifications of patent documents and the enhancement of search efficiencies.

Consequently, in the revision proposals, we expect the Working Group to consider preferentially that the documents are able to be classified definitely.

Especially, we would like to be considered that types of fuel would be defined as a principal criterion to clarify the borderline between F23B and F23G. Types of combustion are deemed to greatly depend on characteristics of fuel, namely fuel types. Therefore, characteristics or types of fuel are supposed to be more apparent criterion for classification.

For example, it is preferable that the low-grade fuel including RDF (Refuse Derived Fuel) would be classified only in F23G.



EUROPEAN PATENT OFFICE
Principal Directorate Documentation

Comments
25 September 2001

Project: 371 Subclass: F23B

Comments were invited on:

- the proper borderline between subclasses F23B, F23C and F23G, taking into account the revision proposals made under Project C417;

We believe that the borderline is properly defined by the subclass titles and their references. The second part of the definition projects D019, D020 and D032 gives even more detailed explanation for the relation between these subclasses and will guide the less experienced IPC user to the correct place.

- the desirability of creating an IPC entry relating to the shape of combustion chamber and whether it could be introduced as a classification or an indexing group, in the light of the proposal submitted by the EPO, the analysis made by Sweden and the guidelines for the creation of indexing schemes.

The former IPC 1 groups 1/30 to 1/36 had been deleted because the form of the combustion chamber was seldom of inventive character. However, the form of the combustion chamber is something that influences the design of a combustion apparatus and is therefore a useful feature for efficient searching. That is the reason that we would like to keep these entries as an indexing scheme as proposed in Annex 23.

H. Mende

**OFICIUL DE STAT PENTRU
INVENTII SI MĂRCI**

RO COMMENTS

Date: Sept. 2001

Project: IPC **C371**

Class/Subclass **F23B**

-We agree with the creation of an IPC entry relating to the shape of the combustion chamber. In the light of EPOS proposal, the analysis made by SE and the guidelines of the creation of the indexing schemes, we agree with the Rapporteur's opinion(Annex 26 to the project file).

We consider appropriate to adopt a classification scheme relating to the shape of the combustion chamber.

N.MURARUS

Swedish Patent and Registration Office

IPC Revision Project C371, subclass F23B

September 26th, 2001

COMMENTS (in response to Annex 29)

Comments were invited on:

- **the proper borderline between subclasses F23B, F23C and F23G, taking into account the revision proposals made under Project C 417**

We support gathering the different aspects of this subject matter in F23G 7/06. Afterburning of flue gases in a separate combustion chamber is essentially the same thing as combustion of low-grade gaseous fuel - the composition of the gases is often similar and the apparatus is also often similar. We realise that this will mean moving some documents into F23G 7/06, which is already heavily populated, but this might be solved in the framework of project C417.

- **the desirability of creating an IPC entry relating to the shape of combustion chamber and whether it could be introduced as a classification or an indexing group, in the light of the proposal submitted by the EPO, the analysis made by Sweden (see Annexes 22 and 23 to the project file, respectively) and the guidelines for the creation of indexing schemes.**

We do not support creation of a general entry relating to the shape or form of the combustion chamber. This would not gather any coherent subject matter. Furthermore, the shape will most often be decided by the way fuel moves into and through the combustion chamber, which has been chosen as the basic criterion for subdivision in F23B.

As for the indexing scheme proposed by EP, the entries either correspond to existing groups that we think are inadequate (105:00, 105:04, 105:06) for reasons mentioned in Annex 22 or (at least mainly) covered by the proposed group 14/16. If there are any aspects of rotating combustion chambers that are not covered by 14/16, perhaps another classification entry could be created in an appropriate main group, for example under 14/02.

Anders Bruun

Projet IPC / C 371
Sous-classe F 23 B

VERSION FRANÇAISE

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

(ref : annexe 18 du document IPC/WG/5/3)

F 23 B

ANNEX	18	F 23 B	[Project-Rapporteur : 371/SE]	<SC05048E>
N	10/00	<i>Appareils à combustion caractérisés par la combinaison d'au moins deux chambres de combustion</i>		
N	12/00	<i>Appareils à combustion spécialement adaptés pour pouvoir être portés ou transportés</i>		
N	14/00	<i>Appareils à combustion comportant des moyens actionnés pour agiter le combustible qui brûle; Appareils à combustion comportant des moyens entraînés pour faire avancer le combustible dans la chambre de combustion</i>		
N	16/00	<i>Appareils à combustion comportant des moyens entraînés pour alimenter la chambre de combustion en combustible (14/00 a priorité)</i>		
N	18/00	<i>Appareils à combustion dans lesquels le combustible est introduit dans ou à travers la zone de combustion par gravité, p.ex. depuis un stockage de combustible situé au dessus de la zone de combustion</i>		
N	20/00	<i>Appareils à combustion dans lesquels le combustible brûle pratiquement sans déplacement</i>		
N	22/00	<i>Appareils à combustion caractérisés par des moyens pour retourner les résidus de combustion solides vers la chambre de combustion</i>		
N	24/00	<i>Appareils à combustion caractérisés par des moyens pour créer un trajet d'écoulement distinct pour les gaz brûlés ou les gaz imbrûlés dégagés par le combustible</i>		
N	26/00	<i>Appareils à combustion non prévus dans les groupes 10/00 à 24/00</i>		
N	Intitulé avant 101/00	<u><i>Schéma d'indexation relatif à l'adaptation des appareils à combustion aux chaudières</i></u>		

- N 101/00 Adaptation des appareils à combustion aux chaudières dans lesquelles la chambre de combustion est située à l'intérieur de la cuve de chaudière, p.ex. entourée par des surfaces froides*
- N 103/00 Adaptation des appareils de combustion pour les placer dans ou contre l'ouverture d'une chaudière, p.ex. pour remplacer un brûleur à mazout*

Swedish Patent and Registration Office

IPC Revision Project C371, subclass F23B

November 9th, 2001

RAPPORTEUR REPORT

Annex 29 invited comments on two questions. Comments have been received from EP, JP, RO and SE.

1. The proper borderline between subclasses F23B, F23C and F23G, taking into account the revision proposals made under Project C 417

EP believe that the borderline is properly defined by the subclass titles and their references, and that the definitions proposed in definition projects D019 (F23B), D020 (F23C) and D032 (F23G) give further clarification. JP stress the importance of clear borderlines between the subclasses, and are concerned that Rapporteur's proposal would blur the borderlines. JP would prefer borderlines based on the type of fuel. SE would prefer to gather afterburning of flue gases and combustion of low-grade gaseous fuels in the same place, in F23G 7/06, since it is basically the same thing.

Rapporteur does not think the borderlines as regards apparatus for afterburning of flue gases separate from the apparatus for primary combustion are clear. Such afterburning apparatus for solid (F23B) and fluent (F23C) fuel are essentially similar, since the composition of the flue gases is essentially the same. Afterburning apparatus is similar to apparatus for combustion of gas of low heating value (F23G).

The comments do not give a clear indication about the future direction of the project. Rapporteur does not believe that the situation is very much clarified by the current proposed definitions. The definitions could of course be further improved to clarify the situation, but in order to do that the WG needs to decide on which direction to take. The situation should be discussed at WG/6.

Rapporteur's analysis

The discussion does not relate to apparatus in which afterburning apparatus is integrated into the apparatus for the main combustion. Such apparatus will be classified in the place covering the apparatus per se. The discussion centres on afterburning apparatus that is separate from the apparatus in which the main combustion takes places. Examples of such apparatus can be found in the following documents:

US 4488514
US 4785744
US 5041268
WO 0032988

In the existing IPC such apparatus is classified in F23B 5/00 if it is for solid fuel, in F23C 6/00 if it is for fluent fuel or in F23G 7/06 if the gases are considered as waste gas, noxious gas or low-grade gas. This leads to inconsistent classification and a frequent need to search all these places. The introduction of F23C 13/00 will lead to another place where the matter is potentially covered. It should also be noted that F23B 5/00 will be deleted, and not replaced by a similar group.

If this situation is considered a problem, there are two solutions:

The first one is to leave things as they are, but give additional advice in the definitions. This will sort out some of the problems, but not completely remove them. Apparatus for solid fuel will probably have to go to F23G anyway.

The second is to move all separate afterburning apparatus to F23G. This would remove any doubts whether the gases emanate from solid or fluent fuel, or whether they should be considered as waste gases or noxious gases. Proposals for references achieving this have been given in both this project and in project C417:

C F23B COMBUSTION APPARATUS USING ONLY SOLID FUEL (for combustion of fuels that are solid at room temperatures, but burned in melted form, e.g. candle wax, C11C, F23C, F23D; using solid fuel suspended in air F23C, F23D 1/00; using solid fuel suspended in liquids F23C, F23D 11/00; using solid fuel simultaneously with or alternatively to fluent fuel F23C, F23D 17/00; *afterburning of flue gases in a separate combustion chamber F23G 7/06*)

C F23C 6/04 • in series connection (*afterburning of flue gases in separate combustion chambers F23G 7/06*)

C F23G 7/06 • of waste gases or noxious gases, e.g. exhaust gases (exhaust apparatus for machines, engines in general or combustion engines F01N); Combustion chambers specially adapted for afterburning gaseous products of primary combustion (**afterburning in the same combustion chamber as the primary combustion F23B, F23C**)

2. The desirability of creating an IPC entry relating to the shape of combustion chamber and whether it could be introduced as a classification or an indexing group, in the light of the proposal submitted by the EPO, the analysis made by Sweden (see Annexes 22 and 23 to the project file, respectively) and the guidelines for the creation of indexing schemes.

EP support creation of indexing entries covering the same aspects as the deleted groups 1/30 - 1/36, since the form of the combustion chambers influences the design of a combustion chamber and therefore is of search interest. RO support creation of classification entries for these aspects, supporting arguments put forward in Annex 26. SE are not in favour of a general entry for shape or form of the combustion chamber, since it would not gather any coherent matter and since the shape is most often decided by the way the fuel moves through the combustion chamber. SE think the proposed entries are inadequate for reasons of clarity or covered by other already proposed groups, with the possible exception of some features of rotating combustion chambers.

Rapporteur's analysis

The three commenting offices pull in three different directions.

It appears that a big majority of the documents that are classified in F23B1/32 would be classified in the proposed F23B14/16. F23B 1/34 contains 6 documents in WPI and 9 documents in EPODOC, which seems to indicate that the need for it can not be very high. It appears that most of the documents that are classified in F23B 1/36 would be classified in the new F23B 18/00 or its subgroups.

In order to give a basis for discussion Rapporteur suggests that EP, which are the main supporters of the new entries, provide example documents that show the need for them. Such documents would also give an indication whether any new entries should be indexing entries or classification places.

Anders Bruun

REMAINING PARTS OF RAPPORTEUR'S PROPOSAL FROM WG/5:

- C F23B COMBUSTION APPARATUS USING ONLY SOLID FUEL** (for combustion of fuels that are solid at room temperatures, but burned in melted form, e.g. candle wax, C11C, F23C, F23D; using solid fuel suspended in air F23C, F23D 1/00; using solid fuel suspended in liquids F23C, F23D 11/00; using solid fuel simultaneously with or alternatively to fluent fuel F23C, F23D 17/00; *afterburning of flue gases in a separate combustion chamber F23G 7/06*)
- (**14/00 Combustion apparatus with driven means for agitating the burning fuel; Combustion apparatus with driven means for advancing the burning fuel through the combustion chamber <adopted at WG/5>)**
- N 14/02 . the grate or fuel supporting surface being movable, e.g. vibratable, or having movable parts
 - N 14/04 . . with means for advancing fuel along the fuel-supporting surfaces
 - N 14/06 . . . with fuel advancing fuel-supporting surfaces
 - N 14/08 with a fuel-supporting surface which *moves* through the combustion chamber, e.g. with chain grate
 - N 14/12 *the fuel supporting surface having* fuel advancing elements that are movable, but remain essentially in the same place, e.g. reciprocating grate bars
 - N 14/16 . . with a grate or fuel supporting surface that is rotatable around a horizontal or inclined axis and supporting the fuel on its inside
- (**16/00 Combustion apparatus with driven means for feeding fuel into the combustion chamber (14/00 takes precedence) <adopted at WG/5>)**
- N 16/02 . the fuel being scattered over the grate
 - N 16/04 . from below through an opening in the grate or fuel supporting surface
 - N 16/06 . along the fuel-supporting surface
 - N 16/08 . . into a pot- or trough-shaped grate (16/04 takes precedence)
- (**18/00 Combustion apparatus in which the fuel is fed into or through the combustion zone by gravity, e.g. from a fuel storage situated above the combustion zone <adopted at WG/5>)**
- N 18/02 . the fuel forming a column, stack or thick layer with the combustion zone at its bottom
 - N 18/04 . . the movement of combustion air and flue gases being substantially transversal to the movement of the fuel
 - N 18/06 . . the flue gases being removed downwards through one or more openings in the fuel-supporting surface
 - N 18/08 . . with fuel-deflecting bodies forming free combustion spaces inside the fuel layer (18/06 takes precedence)
 - N 18/10 . . with the combustion zone at the bottom of fuel-filled conduits ending at the surface of a fuel bed
 - N 18/12 . the fuel being fed to the combustion zone by free fall or by sliding along inclined surfaces, e.g. from a conveyor terminating above the fuel bed (16/02, 18/02 take precedence)
- (**20/00 Combustion apparatus in which the fuel burns essentially without moving <adopted at WG/5>)**
- N 20/02 . with combustion air supplied through a grate
- (**24/00 Combustion apparatus characterised by means creating a distinct flow path for flue gases or non-combusted gases given off by the fuel <adopted at WG/5>)**
- N 24/02 . by means for returning flue gases to the combustion chamber
 - N 24/04 . by means for supplying non-combusted gases liberated from the fuel to the combustion chamber
 - N 24/06 . by means for guiding the flow of flue gases, e.g. baffles

- (**103/00** **Adaptation of combustion apparatus for placement in or against an opening of a boiler, e.g. for replacing an oil burner** <adopted at WG/5>)
N 103/02 . for producing an essentially horizontal flame

F23C

- C 6/04 . in series connection (afterburning of flue gases in a separate combustion chamber F23G 7/06)

F23G

- C 7/00 **Incinerators or other apparatus specially adapted for consuming particular waste or low grade fuels; e.g. chemicals** (1/00 takes precedence; incinerator closets A47K 11/02
- - -
C 7/06 . of waste gases or noxious gases, e.g. exhaust gases (exhaust apparatus for machines, engines in general or combustion engines F01N); Combustion chambers specially adapted for afterburning gaseous products of primary combustion (afterburning in the same combustion chamber as the primary combustion F23B, F23C)



IPC/C 386/97

ORIGINAL: English/French

DATE: November 20, 2001

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GENEVA/GENÈVE

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

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

PROPOSAL BY: PROPOSITION DE :	US, AP	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	A 61 G, A 61 H
KIND OF REVISION: TYPE DE RÉVISION :	Clarification of wordings Clarification de libellés		

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal	/ Demande de révision avec proposition détaillée	US	29.01.97
2	Revision request with detailed proposal	/ Demande de révision avec proposition détaillée	AP	26.02.97
3	Comments	/ Observations	US	07.98
4	Comments	/ Observations	SE	07.98
5	Comments	/ Observations	EP	07.98
6	Comments	/ Observations	CA	07.98
7	Comments	/ Observations	FR	07.98
8	Comments	/ Observations	GB	07.98
9	Comments	/ Observations	DE	02.99
10	Rapporteur report	/ Rapport du rapporteur	US	02.99
11	Decision of the Working Group	/ Décision du groupe de travail	WG	01.01
12	Comments	/ Observations	EP	04.01
13	Comments	/ Observations	RO	04.01
14	Comments	/ Observations	SE	05.01

RAPPORTEUR : US

TECHNICAL FIELD/DOMAINE TECHNIQUE :

M

ANNEX/ ANNEXE	CONTENT/CONTENU	ORIGIN/ ORIGINE	DATE
15	Comments / Observations	US	05.01
16	Rapporteur report / Rapport du rapporteur	US	05.01
17	Comments / Observations	DE	05.01
18	Decision of the Working Group / Décision du groupe de travail	WG	08.01
19	Comments / Observations	CA	10.01
20	Comments / Observations	JP	10.01
21	Comments / Observations	EP	10.01
22	Comments / Observations	RO	10.01
23	Comments / Observations	SE	10.01
24	Comments / Observations	GB	10.01
25	Comments / Observations	DE	10.01
26	Rapporteur report / Rapport du rapporteur	US	11.01

EXCERPT FROM DOCUMENT IPC/WG/5/3
EXTRAIT DU DOCUMENT IPC/WG/5/3

Project C 386 (mechanical) – Amendments to subclass A 61 G in the English language were approved (see Annex 21 to this report). It was noted that the French version of the approved amendments would be prepared after the elaboration of classification definitions for that subclass under the respective D project.

Comments were invited on the correctness of the new title of subclass A 61 G and whether it reflected the intended scope of the subclass, in particular, in the light of the scope of its main group 5/00.

Projet C 386 (mécanique) – Des modifications de la sous-classe A 61 G en langue anglaise ont été approuvées (voir l'annexe 21 du présent rapport). Il a été noté que la version française des modifications approuvées sera établie après l'élaboration des définitions relatives à la classification pour cette sous-classe au titre du projet D correspondant.

Des observations ont été demandées sur l'exactitude du nouveau titre de la sous-classe A 61 G et sur le point de savoir s'il traduit la portée envisagée de la sous-classe, compte tenu notamment de la portée de son groupe principal 5/00.

ANNEX	20	A 61 F	[Project-Rapporteur : 386/US]	<SC05051E>
	4/00	Methods or devices enabling disabled persons to operate – – –		
ANNEX	21	A 61 G	[Project-Rapporteur : 386/US]	<SC05049E>
	Title	TRANSPORT, PERSONAL CONVEYANCES, OR ACCOMMODATION SPECIALLY ADAPTED FOR DISABLED PERSONS OR PATIENTS; OPERATING – – –		
		walking aids A 61 H 3/00 ; inclined lifts associated with stairways for transporting disabled persons or wheelchairs B 66 B 9/08)		
	Subclass index	MEANS FOR DISPLACING DISABLED PERSONS OR PATIENTS 1/00 to 7/00		
		BEDS; TREATMENT ROOMS; ==>		
D	Guide Heading before 1/00	<Deleted>		

1/003	<ul style="list-style-type: none"> with facilities for picking up disabled persons or patients, e.g. break-away – – – endless belts (devices in general for lifting disabled persons 7/10)
3/00	– – – provisions for transporting disabled persons or their personal conveyances, e.g. for – – –
3/02	<ul style="list-style-type: none"> Loading or unloading personal conveyances; Facilitating access of disabled persons to, or exit of disabled persons from, vehicles
3/04	<ul style="list-style-type: none"> • • Transfer of seated disabled persons by swinging – – –
5/00	Chairs or personal conveyances specially adapted for disabled persons, e.g. wheelchairs (chairs with toilet conveniences A 47 K 11/04 ; devices enabling disabled persons to operate an apparatus or device not forming part of the body A 61 F 4/00 ; running gear or propulsion features B 60 K ; bicycles specially adapted for disabled riders B 62 K 3/16)
Note(s) after 5/00	
	Chairs for disabled persons having removable – – – with the disabled person to a vehicle and support the disabled person during use – – –
5/02	<ul style="list-style-type: none"> propelled by the disabled person
Guide Heading after 5/14 7/00	<u>Beds or accessories for disabled persons; Treatment rooms – – –</u> – – – for nursing; Devices for lifting disabled persons (A 61 F 5/045 takes precedence; stretchers with facilities for picking up disabled persons 1/003)
7/08	<ul style="list-style-type: none"> Apparatus for transporting beds
7/10	<ul style="list-style-type: none"> Devices for lifting disabled persons, e.g. special – – –
7/12	<ul style="list-style-type: none"> • • for hoisting the disabled person under the – – –
7/14	<ul style="list-style-type: none"> • • facilitating both lifting and lateral movement of the disabled person

ANNEX	22	A 61 H	[Project-Rapporteur : 386/US]	<SC05050E>
Title				
3/00			– – – devices enabling disabled persons to operate – – –	
3/04			Appliances for aiding disabled persons to walk about – – –	
			<ul style="list-style-type: none"> Wheeled walking aids for disabled persons 	

The Canadian Intellectual
Property Office



L'Office de la propriété
intellectuelle du Canada

Project Number: C386

Date: 21 September, 2001

Class/Subclass: A61G

Page 1 of 1

We are pleased to provide the comment below:

We support the new title of subclass A61G as worded, which reflects, in our view the intended scope of the subclass and main group 5/00.

Nancy Beauchemin

Japan Patent Office

25 September, 2001

Project:C-386Subclass:A61G

JPO Comments

JPO supports the revision proposal for A61G 5/00 of Technical Annex 21 of the report of the fifth IPC Revision Working Group. We found, however, a single inconsistency among this proposal, B62K3/16, and B62K5/00, and propose to modify this point.

We recognize that a reference following A61G 5/00 of Annex 21 says “bicycles specially adapted for disabled riders B62K 3/16” at its end. Meanwhile, references of both B62K3/16 and B62K5/00 are described as “invalid multi-track cycles A61G 5/00.” These two types of references appear not to be in harmony with each other.

We propose to delete these IPC references of B62K3/16 and B62K5/00 as below.

B62K

3/16 . specially adapted for disabled riders

5/00 **Cycles with more than two main road wheels** (cycle supports
or stands equipped with additional wheels for ride
stabilisation B 62 H 1/12)

Project: 386 Subclass: A61G

Comments were invited on the correctness of the new title of subclass A61G and whether it reflected the intended scope of the subclass, in particular, in the light of the scope of its main group 5/00.

The subclass title is correct and it reflects the intended scope of the subclass.

H. Mende

OFICIUL DE STAT PENTRU
INVENTII SI MARCI

RO. COMMENTS

Date: 26. 09.2001

Page: 1 of 1

Project: **C 386**

Class/Subclass: **A 61G**

Comments were invited on the correctness of the new title of subclass A61G and whether it reflected the intended scope of the subclass, in particular of its main group 5/00.

We support the new title of subclass A61G according to Annex 21 and consider that it reflects the intended scope of the subclass and the main group 5/00.

Bucura Ionescu

Swedish Patent and Registration Office

IPC Revision Project C386, subclass A61G

September 26th, 2001

COMMENTS (in response to Annex 18)

Comments were invited on the correctness of the new title of subclass A61G and whether it reflected the intended scope of the subclass, in particular, in the light of the scope of its main group 5/00

We think the new title covers its indented groups, so in that way it is adequate. Our main worry is that it covers too much, and that it will conflict with places in the general vehicle area. When definitions are written for A61G care must be taken to minimise such conflicts.

Anders Bruun

UK Patent Office

Date: 25 September 2001

Comments on Project 386 , Subclass A61G, A61H

Comments were invited on the correctness of the new title of subclass A61G and whether it reflected the intended scope of the subclass in light of the scope of its main group 5/00.

Although the term personal in the title may cause ambiguity for non-English speaking countries, **Personal Conveyances** does appear to be the most precise phrasing.

Therefore we agree with the current proposed heading and believe it reflects the intended scope of A61G 5/00

David Glover

Deutsches Patent- und Markenamt German Patent and Trademark Office	Class/Subcl.: A61G, A61H
	Date : 28.09.2001
DE - Comments — C 386	

Re: IPC/WG/5/3

We support the new title of the subclass A61G and have no further comments.

U. Rödiger

USPTO RAPPORTEUR REPORT	
Revision Working Group PROJECT C 386 Class/subclass: A61G	Date: October 22, 2001

This project concerns the proposal submitted by US (Annex 1 of the file) and modified by AP (Annex 2 of the file) for revising terminology in Subclass A61G and specifying the correct location of related subject matter. Amendments to subclass A61G were approved in the English language (see Annex 21 of IPC/WG/5).

Comments were invited on the correctness of the new title of subclass A61G and whether it reflected the intended scope of the subclass, in particular, in the light of the scope of its main group 5/00. The subclass title as approved and being commented on is:

“TRANSPORT, PERSONAL CONVEYANCES, OR ACCOMMODATION SPECIALLY ADAPTED FOR DISABLED PERSONS OR PATIENTS; OPERATING – – – walking aids A61H 3/00; inclined lifts associated with stairways for transporting disabled persons or wheelchairs B66B 9/08)”

Summary of Comments

Comments were received from DE, EP, GB, JP, RO, and SE. All of the Offices commenting on the wording of the subclass title supported the wording as previously passed by the Revision Working Group. SE noted that care must be taken when writing the definition of A61G to minimize conflicts with the general vehicle area. JP noted that the references to A61G 5/00 found in groups B62K 3/16 and B62K 5/00 were now incorrectly worded. JP recommended solving this problem by deleting these references.

Recommendations and Comments

The Rapporteur recommends that the title for this subclass be accepted by the Working Group as previously adopted.

In our opinion, the Working Group should not delete the references to A61G 5/00 found in groups B62K 3/16 and B62K 5/00 since they are useful for information purposes. However, the wording of these references should be modified and made into informative references. In the definition for A61G, the terminology ‘personal conveyances’ was separately defined as follows:

Personal conveyances* – Vehicle-like devices (e.g., wheelchairs) that are:

- (1) **not** intended for traveling significant distances (e.g., between cities) along thoroughfares (e.g., railways, roads, sidewalks),
- (2) explicitly designed (i.e., not merely adaptations of standard production vehicles) for carrying, and intended to be limited to use by, a single **patient*** or **disabled person*** at any given time, and

- (3) capable, at least optionally, of having their movement controlled or powered by the *patient** or *disabled person** carried by it.

Section 3 of the definition of this term is intended to clearly distinguish *personal conveyances** from either attendant or motor powered stretchers, since occupants of either of these carrying devices may be partially or fully reposed (see group A61G 1/017) when moving between locations and neither is limited to use solely within a care facility.

In view of this definition, Rapporteur recommends that the informative references be reworded as “personal conveyances explicitly designed for use only by a patient or disabled person and intended to travel relatively short distances A61G 5/00”. The references would then clearly specify the two primary differences between the subject matter of these subclasses. Many of the cycles in B62K are merely standard cycles adapted for use by a disabled person and not originally explicitly designed for transporting a single disabled person. In addition, all of the cycles proper for B62K should also be designed and intended for general thoroughfare usage over long distances.



IPC/C 389/97

ORIGINAL: English/French

DATE: November 19, 2001

WORLD INTELLECTUAL PROPERTY ORGANIZATION
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IPC REVISION PROJECT FILE/DOSSIER DE PROJET DE RÉVISION DE LA CIB

PROPOSAL BY: PROPOSITION DE :	RU	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	B 61 L
KIND OF REVISION: TYPE DE RÉVISION :	Clarification of wordings Clarification de libellés		

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal	/ Demande de révision avec proposition détaillée	RU	08.98
2	Comments	/ Observations	EP	08.98
3	Comments	/ Observations	DE	08.98
4	Comments	/ Observations	SE	08.98
5	Comments	/ Observations	US	08.98
6	Comments	/ Observations	CA	08.98
7	Comments	/ Observations	FR	08.98
8	Comments	/ Observations	GB	08.98
9	Rapporteur report	/ Rapport du rapporteur	RU	02.99
10	Rapporteur proposal	/ Proposition du rapporteur	RU	02.99
11	Rapporteur report	/ Rapport du rapporteur	RU	10.99
12	Rapporteur proposal	/ Proposition du rapporteur	RU	10.99
13	Comments	/ Observations	JP	12.99
14	Rapporteur report	/ Rapport du rapporteur	RU	05.00

RAPPORTEUR : RU

TECHNICAL FIELD/DOMAINE TECHNIQUE :

M

ANNEX/ ANNEXE	CONTENT/CONTENU	ORIGIN/ ORIGINE	DATE
15	Rapporteur proposal / Proposition du rapporteur	RU	05.00
16	Decision of the Working Group / Décision du groupe de travail	WG	01.01
17	Comments / Observations	EP	04.01
18	Comments / Observations	CA	04.01
19	Comments / Observations	RO	04.01
20	Comments / Observations	FR	05/01
21	Comments / Observations	SE	05/01
22	Rapporteur report / Rapport du rapporteur	RU	05/01
23	Rapporteur proposal / Proposition du rapporteur	RU	05/01
24	Decision of the Working Group / Décision du groupe de travail	WG	08.01
25	French version of approved amendments / Version française des modifications approuvées	FR	11.01

EXCERPT FROM DOCUMENT IPC/WG/5/3
EXTRAIT DU DOCUMENT IPC/WG/5/3

ANNEX	23	B 61 L	[Project-Rapporteur : 389/RU]	<SC05052E>
C	23/18	• • •	<i>pecially adapted for maintaining a safe distance between vehicles or vehicle trains depending upon speed</i>	
		— — —		
	23/34	•	for indicating the — — —	

Projet IPC / C 389
Sous-classe **B 61 L**

VERSION FRANÇAISE

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

(ref : annexe 23 du document IPC/WG/5/3)

B 61 L

ANNEX	23	B 61 L	[Project-Rapporteur : 389/RU]	<SC05052E>
C	23/18	• • • <i>spécialement adaptés pour maintenir une distance de sécurité entre les véhicules ou les trains en fonction de la vitesse ou de la densité du trafic</i>		
	23/34	• pour indiquer la distance – – –		



IPC/C 416/98
ORIGINAL: English/French
DATE: November 19, 2001

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

PROPOSAL BY: PROPOSITION DE :	PT	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	F 16 N
KIND OF REVISION: TYPE DE RÉVISION :	Clarification of wordings Clarification de libellés		

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal	/ Demande de révision avec proposition détaillée	PT	12.98
2	Comments	/ Observations	EP	05.99
3	Comments	/ Observations	SE	05.99
4	Comments	/ Observations	CA	05.99
5	Comments	/ Observations	RO	05.99
6	Comments	/ Observations	US	05.99
7	Comments	/ Observations	DE	09.99
8	Rapporteur report	/ Rapport du rapporteur	PT	11.99
9	Comments	/ Observations	JP	09.00
10	Decision of the Working Group	/ Décision du groupe de travail	WG	09.00
11	Comments	/ Observations	EP	09.00
12	Comments	/ Observations	CA	09.00
13	Comments	/ Observations	RO	09.00
14	Comments	/ Observations	SE	09.00

RAPPORTEUR : PT TECHNICAL FIELD/DOMAINE TECHNIQUE : M

ANNEX/ ANNEXE	CONTENT/CONTENU	ORIGIN/ ORIGINE	DATE
15	Decision of the Working Group / Décision du groupe de travail	WG	01/01
16	Comments / Observations	CA	06.01
17	Comments / Observations	RO	06.01
18	Comments / Observations	SE	06.01
19	Rapporteur report / Rapport du rapporteur	PT	09.01
20	Comments / Observations	JP	10.01

<p align="center">INPI - Instituto Nacional da Propriedade Industrial</p> <p align="center">Portuguese national institute of industrial property</p>		
Direcção de Patentes Patent Directorate	Project IPC/C416/98 Subclass: F 16 N	Date: 06.06.01 Page 1 of 3
P T - 2nd. R A P P O R T E U R R E P O R T		

Annex 14, contains a counter-proposal produced by SE, which:

- retains the suggestion from JP to add at F01M note, references to specific application places concerning lubrication under F01 to F04;
- includes the references suggested by EP in annex 11;
- and proposes a more informative wording of the places that the references point to.

This counter-proposal received positive comments by some delegations. R. agrees with this counter-proposal.

Therefore R. submits the following notes which are the same as in annex 14, without some of the proposed references, identified as wrong places for lubrication.

F16N:

Note

Attention is drawn to the following places, which cover lubrication of specific apparatus or in particular processes:

A01D 69/12	Harvesters
B21B 25/04	Mandrels for metal tube rolling mills
B21B 27/06	Rolls for metal rolling mills
B21D 37/18	Tools for machines for working metal without removing material
B21J 3/00	Forging or pressing
B22D 1/07	Moulds for continuous casting of metals
B23C 5/28	Milling cutters
B23D 59/02, 59/04	Metal saws

B23Q 11/10, 11/12	Machine tools
B25D 17/26	Portable power-driven percussive tools
B26B 19/40	Hair-clippers or dry-shavers
B27B 13/12	Band saw blades for wood or the like
B60R 17/00	Vehicles
B61B 12/08	Cable systems for railways
B61C 17/08	Railway locomotives
B61F 17/00	Axle-boxes of rail vehicles
B61K 3/00	Rail or wheel flanges of railways
B62D 55/092	Endless-track units for vehicles
B66B 7/12	Ropes, cables or guides of elevators
B62J 31/00	Cycles
B65G 45/02	Conveyers
D01H 7/20	Spindles of machines for spinning or twisting threads or fibres
D04B 35/28	Knitting machines
D05B 67/00	Sewing machines
D05C 13/04	Embroidering machines
E01B 7/26	Switches for railways
E05B 17/08	Locks
E05D 11/02	Hinges
E21B 10/22	Roller bits for earth drilling
F01C 21/04	Rotary-piston or oscillating-piston machines or engines
F01D 25/18	Non-positive displacement machines
F01M	Machines or engines in general
F02C 7/06	Gas-turbine plants
F02F 1/20	Cylinders of combustion engines
F04B 39/02	Pumps for liquids
F04C 29/02	Rotary-piston or oscillating-piston pumps for liquids
F04D 29/04	Non-positive displacement pumps
F16C 1/24	Flexible shafts
F16C 33/10	Sliding-contact bearings
F16C 33/66	Ball or roller bearings
F16F 1/24	Springs
F16H 57/04	Transmissions
F41A 29/04	Smallarms or ordnance
G04D 5/00	Clocks
H01R 39/56	Rotary current collectors, distributors or interrupters

F01M

Old Note becomes Note 1

Note 2

Attention is drawn to the following places, which cover lubrication of specific machines or engines:

F01B 31/10	Steam engines
F01C 21/04	Rotary-piston or oscillating-piston machines or engines
F01D 25/18	Non-positive displacement machines
F02C 7/06	Gas-turbine plants
F02F 1/20	Cylinders of combustion engines
F04B 39/02	Pumps for liquids
F04C 29/02	Rotary-piston or oscillating-piston pumps for liquids
F04D 29/04	Non positive displacement pumps

João Marcelino

Japan Patent Office

September 26, 2001

Project:C-416

Subclass:F16N

JP Comments on IPC Revision Proposals for Project C 416

With regard to the Annex 19 submitted by PT, JPO proposes some remarks as below.

1. F16N**1-1. G04D 5/00**

In respect of G04D 5/00, we disagree with the PT proposal because this group covers just “(o)iling devices” for making or maintaining clocks or watches. Instead, we propose to replace G04D 5/00 to G04B 31/08, which defines “(l)ubrication” of bearings for clocks and watches as a note.

1-2. D05B 67/00

The D05B 67/00 should be corrected to D05B 71/00 which was already proposed in our Annex 9. The D05B 67/00 covers lubrications for threads attached to sewing machines, and it is inappropriate for the lubrication of F16N. It is D05B 71/00 that corresponds to F16N in the field of D05B.

It seems that SE adopted D05B 67/00 instead of D05B 71/00 by mistake in Annex 14, and for this reason this comment is the same one with what we submitted to SE as a response to the Annex.

1-3. B22D 1/07

We propose that B22D 1/07 should be corrected to B22D 11/07 since B22D 1/07 does not exist in the scheme.

2. F01M

We support the PT proposal.



IPC/C 417/98
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DATE: November 20, 2001

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

PROPOSAL BY: PROPOSITION DE :	SE	REVISION OF IPC AREA: RÉVISION DU DOMAINE DE LA CIB :	F 23 C
KIND OF REVISION: TYPE DE RÉVISION :	Creation of subgroups Création de sous-groupes		

ANNEX/ ANNEXE	CONTENT/CONTENU		ORIGIN/ ORIGINE	DATE
1	Revision request with detailed proposal	/ Demande de révision avec proposition détaillée	SE	12.98
2	Comments	/ Observations	EP	05.99
3	Comments	/ Observations	CA	05.99
4	Comments	/ Observations	RO	05.99
5	Comments	/ Observations	US	05.99
6	Comments	/ Observations	GB	09.99
7	Rapporteur report	/ Rapport du rapporteur	SE	09.99
8	Decision of the Working Group	/ Décision du groupe de travail	WG	03/00
9	Comments	/ Observations	EP	03/00
10	Comments	/ Observations	SE	03/00
11	Comments	/ Observations	RO	03/00
12	Comments	/ Observations	DE	05.00
13	Comments	/ Observations	CA	05.00
14	Rapporteur report	/ Rapport du rapporteur	SE	05.00

RAPPORTEUR : SE **TECHNICAL FIELD/DOMAIN TECHNIQUE :** M

ANNEX/ ANNEXE	CONTENT/CONTENU	ORIGIN/ ORIGINE	DATE
15	Comments / Observations	JP	05.00
16	Decision of the Working Group / Décision du groupe de travail	WG	01/01
17	Comments / Observations	CA	11.01
18	Comments / Observations	EP	11.01
19	Comments / Observations	SE	11.01
20	Comments / Observations	RO	11.01
21	Rapporteur report / Rapport du rapporteur	SE	11.01

Japanese Patent Office

10 march 2000

Project: **C-417**

Subclass: F23C

We basically support the Rapporteur proposal.

However, according to the title of F23C 13/06, the subject matter is related to combustion of exhaust gases and it is desirable to introduce a reference to F23G 7/06 in F23C 13/06.

EXCERPT FROM DOCUMENT IPC/WG/4/5/
EXTRAIT DU DOCUMENT IPC/WG/4/5

Project C 417 (mechanical) – Comments were invited on the two alternative solutions proposed by the Rapporteur (see Annex 14 to the project file).

Projet C 417 (mécanique) – Des observations ont été demandées sur les deux solutions possibles proposées par le rapporteur (voir l'annexe 14 du dossier de projet).

The Canadian Intellectual
Property Office



L'Office de la propriété
intellectuelle du Canada

Project Number: C417

Date: September 20, 2001

Class/Subclass: F23C

Page 1 of 1

We support the ~~A~~Complete version~~@~~ of the Rapporteur's Proposal (Annex 14).

R. Gruber



EUROPEAN PATENT OFFICE
Principal Directorate Documentation

Comments
25 September 2001

Project: 417 Subclass: F23C

We are in favour of the "Complete version" as proposed in Annex 14. In principle we agree with this proposal although we would like to repeat a few objections concerning the references.

- | | |
|-----------------|---|
| 1/00 | The reference pointing to F23Q should be kept to refer out documents where one of the fuels is used for ignition purposes |
| 3/00 and 5/00 | We are not in favour of the precedence notes in this group because we are afraid of losing information when multiple classification is suppressed. |
| 13/00 | A reference to new subgroup F23G7/07 should be added to refer to similar combustion in incinerators. |
| 13/02 and 13/04 | We believe that the proposed references are not needed. The titles are clear to allow classification at the appropriate place. If preheating is the invention it should be classified in 13/08. If the arrangement of the catalytic elements are significant it should be classified in 13/02. Precedence rules for documents disclosing features of different subgroups will lead to loss of information in this case. |

If the "Minimum interference version" will become the working document we have objections against the reference in 1/00 pointing to the after-burning arrangements in F23C9/00 and also against the precedence notes in 13/02 and 13/04.

H. Mende

Swedish Patent and Registration Office

IPC Revision Project C417, subclass F23C

September 26th, 2001

COMMENTS **(in response to Annexes 14 and 16)**

Comments were invited on the two alternative solutions proposed by the Rapporteur

We prefer the complete solution. This will be easier to understand and use, and more in line with the principles of the reformed IPC.

Anders Bruun

**OFICIUL DE STAT PENTRU
INVENTII SI MĂRCI**

RO COMMENTS

Date:Sept. 2001

Project: IPC **417**

Class/Subclass **F23C**

As we shown in our previous comment, generally we agree with the Rapporteur's proposal (Annex7 to the project file) referring to the new group F23C13/00 and its groups.

We do not believe that the precedence references are necessary. We prefer a multiple classification instead of the precedences notes.

N.MURARUS

Swedish Patent and Registration Office

IPC Revision Project C417, subclass F23C

November 9th, 2001

RAPPORTEUR REPORT

WG/5 invited comments on the two alternative solutions proposed by the Rapporteur in Annex 14 to the project file. Comments have been received from CA, EP, RO and SE.

All comments are in favour of the "complete version" proposed. EP repeat a few earlier comments about references. EP and RO state that precedence references inside main group 13/00 are not necessary.

Rapporteur suggests that "complete version" of the previous Rapporteur Report (Annex 14) is used as working document, taking into account comments made in that report and the statements made by EP and RO.

Any decisions taken during project C371 regarding the borderlines between subclasses F23B, F23C and F23G should also be taken into account.

Anders Bruun

