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SPECIAL UNION FOR THE INTERNATIONAL PATENT CLASSIFICATION
(IPC UNION)

IPC REVISION WORKING GROUP

Nineteenth Session
Geneva, May 26 to 30, 2008

REPORT

adopted by the Working Group

INTRODUCTION

1. The IPC Revision Working Group (hereinafter referred to as “the Working Group”) held its nineteenth session in Geneva from May 26 to 30, 2008. The following members of the Working Group were represented at the session: Brazil, Canada, Denmark, Egypt, Finland, France, Germany, Ireland, Israel, Japan, Mexico, Norway, Portugal, Republic of Korea, Romania, Russian Federation, Spain, Sweden, Switzerland, The former Yugoslav Republic of Macedonia, United Kingdom, United States of America, African Intellectual Property Organization (OAPI) and the European Patent Office (EPO) (24). Serbia and Ukraine were represented as observers. The list of participants appears as Annex I to this report.

2. The session was opened Mr. A. Farassopoulos, Head, Classification and IP Standards Service, WIPO.

OFFICERS

3. The Working Group unanimously elected Mr. F. Brady (Ireland) as Chair and Ms. S. Rodrigues (Portugal) as Vice-Chair for 2008.
4. Mr. L. Mailänder (WIPO) acted as Secretary of the session.

ADOPTION OF THE AGENDA

5. The Working Group unanimously adopted the agenda, which appears as Annex II to this report.

DISCUSSIONS, CONCLUSIONS AND DECISIONS

6. As decided by the Governing Bodies of WIPO at their tenth series of meetings held from September 24 to October 2, 1979 (see document AB/X/32, paragraphs 51 and 52), the report of this session reflects only the conclusions of the Working Group (decisions, recommendations, opinions, etc.) and does not, in particular, reflect the statements made by any participant, except where a reservation in relation to any specific conclusion of the Working Group was expressed or repeated after the conclusion was reached.

REPORT ON THE FORTIETH SESSION OF THE IPC COMMITTEE OF EXPERTS

7. The Secretariat presented an oral report on the fortieth session of the IPC Committee of Experts (hereinafter referred to as the “the Committee”, see document IPC/CE/40/6), in particular, that the Committee had decided, as an exceptional and experimental case, to introduce the new subclass H04W into the core level of the IPC (IPC-2009) before completion of its reclassification, in order to allow offices to be able to use it for the classification of their front file already in 2009. Meanwhile, IPC users would be notified that reclassification in this area was not complete, and they would also be informed of those patent collections which were not completely reclassified and of the scheme which should be used for searching these collections.
8. In view of the continuing high workload of the Working Group, the Committee noted that completion of the task “Removal of Informative References from the Scheme” would most likely last for several more years, given the large number of references to be reviewed and the current working procedure. The Committee therefore invited the International Bureau to prepare a proposal for a more efficient approach to be considered by the Working Group at its nineteenth session (see paragraphs 16 to 22, below).
9. The Committee adopted the 2009 version of the *Guide to the IPC* and a plan of the publication of IPC-2009, already briefly presented at the eighteenth session of the Working Group.
10. In view of the regular reconsideration of the composition of the Special Subcommittee for the advanced level of the IPC (hereinafter referred to as “the ALS”), the Committee decided that the composition of the ALS should be considered in the general context of the revision policy and procedure of the reformed IPC. Issues such as the complexity of the

Classification with its two levels, their independent revision cycles, as well as their different revision procedures, should be reviewed, aiming at a simplification of the interaction between the two levels and bodies, in order to improve the efficiency of the revision process. In addition, the consistency of application of the IPC by different offices and the improvement of the IPC as a tool for search needed particular consideration by the Committee in the definition of a new revision policy. A special Task Force and two projects on the IPC e-forum (CE 404 and CE 405) were created to conduct this debate.

REPORT ON THE FIFTH SESSION OF THE ADVANCED LEVEL SUBCOMMITTEE

11. The Working Group noted an oral report by the Secretariat on the fifth session of the ALS (see document IPC/ALS/5/8), in particular, that the ALS had reviewed all active A-projects on the IPC e-forum.

12. The ALS adopted the remaining scheme of subclass H04W, including the transfer notes and the cross references, in view of the introduction of this subclass in the 2009.01 version of the IPC, as decided by the Committee (see paragraph 7, above). Concerning project A 009 (subclass G01S), it was decided that the proposed scheme would be created under a single new main group. Project A 014 was suspended for the time being; it would be reactivated and a corresponding C-project would be created after an agreement has been reached amongst the Trilateral Offices on where to place the scheme. Such an agreement was reached outside of the Working Group session and project C 454 was thus created.

13. The ALS examined several revision requests and decided to include the request corresponding to Harmony project T 037 (subclass H01L, LED's) in the revision program. A request submitted by Germany on subclass C07K was rejected while a second request on subclass C09D was considered at an extraordinary session of the ALS held during the current session of the Working Group. At that session, and in agreement with Germany, it was decided to reject the second request in view of the light activity in the field covered by the request.

14. The ALS considered the problem of PCT applications published without IPC symbols. For some time already, about 5 to 10% of all PCT applications are published without IPC symbols. For a large number of them, the EPO is the International Searching Authority. The majority of these cases concern applications made at another receiving office, which often take a long time to reach the EPO. The ALS could not provide a solution but would continue to monitor the status and inform their offices' management of the situation. This issue will be put again on the agenda of the next meeting.

15. The ALS noted a report by the EPO on the reclassification status of the backfile in new places in IPC-8. The EPO stated that classification of the front file is being done according to the IPC scheme in force. JPO's reclassification of the backfile is completed.

REMOVAL OF INFORMATIVE REFERENCES FROM THE SCHEME

16. Discussions were based on a compilation of project file WG 191, and in particular on Annex 1, submitted by the International Bureau, relating to a proposal on how to further proceed with this task.

17. The Working Group noted that the Task Force on removal of informative references from the scheme had completed reviewing and removal of informative references from the scheme for 32 subclasses where definitions had already been published online. For the remaining 57 subclasses where definition projects had been completed by the end of 2007, the Working Group confirmed its decision taken at its fifteenth session that the International Bureau would prepare proposals and submit them to project M 032. These proposals would be submitted in the form of standardized tables that should be used by Rapporteurs of other projects when submitting proposals for removing informative references from the scheme. Following a round of comments, the International Bureau would prepare consolidated proposals for approval by the Task Force. In case of doubt about the nature of a certain reference, i.e. if the Task Force cannot come to a unanimous agreement, that reference should remain in the scheme.

18. It was decided that the Task Force should carry out discussions and approvals by electronic communication. Based on the proposals approved by the Task Force, the International Bureau would then prepare technical annexes for approval by the Working Group and adoption by the Committee of Experts.

19. The Working Group recalled its previous decision that Rapporteurs of definition projects which were active at the end of 2007 should submit proposals for informative references that should be removed from the scheme (see paragraph 29 of document IPC/WG/15/4 and paragraph 22 of document IPC/WG/18/4). Those proposals should not only include the informative references at subclass level, i.e. those references that would be included in the subclass definition, but all references in the subclass that should be treated as informative references. Rapporteurs of currently active definition projects were therefore reminded to take the said decision into account when submitting their proposals.

20. With respect to subclasses where no definition projects exist, the Working Group decided that, for each newly created definition project, the International Bureau would prepare a proposal for the removal of informative references for consideration by the Rapporteur of the project. It was also agreed that the same approach should equally be applied to newly created revision and maintenance (C and M) projects, since Rapporteurs of both projects also have technical expertise regarding the specific subclasses.

21. Based on the proposals approved by the Working Group at a given session, the International Bureau would prepare the relevant technical annexes for the report of that session and for further adoption by the Committee of Experts.

22. In view of the high workload and the expected long duration of this task, it was also agreed that any office could submit proposals for the removal of informative references from those subclasses for which no active project exists, in the framework of project M 032.

SYSTEMATIC INTRODUCTION OF GRAPHIC ILLUSTRATIONS IN THE IPC

23. Discussions were based on a compilation of project file WG 171, in particular on Annex 30 prepared by the International Bureau, relating to a proposal on how to further proceed with this project, and on Annex 31 presented by Brazil at the session.

24. The Working Group noted that the Rapporteurs and Co-Rapporteurs of the pilot projects M 600 to M 605 had selected only few graphical illustrations as being suitable for future inclusion in the IPC for illustrative purposes. For the subclasses of the pilot projects, it was found that many of the illustrations available in the collection of the United States of America were not suitable, due in large part to the differences between the US Classification and the IPC. The Working Group therefore also renewed its invitation to the EPO to make available its collections of graphical illustrations.

25. The Working Group agreed that the selection of illustrations should not be continued by systematically reviewing the available illustrations, nor by prior identification of the areas in the IPC that would need such illustrations. In view of the required expertise with the technical subject matter covered by the different subclasses, it was considered more efficient if Rapporteurs of definition projects for subclasses would identify the areas that would need graphical illustrations and would review the available illustrations in the OEPM, USPTO and EPO collections. The Working Group also noted that it could be necessary to draw new illustrations because illustrations taken from patent documents are sometimes not generic enough, as the pilot projects have shown.

26. The Working Group also agreed that the review of the provisional guidelines for selecting suitable graphical illustrations should be continued at its next session and accepted an offer of the International Bureau to prepare a new proposal, taking into account the latest comments submitted to project WG 171.

27. The Working Group also noted, with gratitude, the interest and commitment of several offices to this task and agreed that, further to the systematic treatment of this task in definition projects, initiatives of individual offices would be welcomed. If, for example, classifiers or examiners working in a particular field considered the availability of illustrations helpful, corresponding proposals could be submitted for consideration by the Working Group.

RENUMBERING OF PRE-REFORM RESIDUAL MAIN GROUPS

28. Discussions were based on the latest rapporteur proposal (see Annex 57 to project file WG 111) relating to residual main groups with subgroups. The Working Group agreed that the residual main groups F03B 17/00 and F28G 13/00 should not be renumbered.

29. The Working Group also agreed to delete the following residual main groups and to transfer them to new standardized residual main groups: A62C 39/00, B24D 17/00, B43M 17/00, B60G 25/00, B81C 5/00, C01G 57/00, C12S 13/00, D01G 37/00, F21K 7/00, F23D 21/00, F23M 13/00 and G06N 1/00 (see Technical Annexes relating to project M 099).

30. It was further agreed to delete the following residual main groups and their subgroups, and to transfer the deleted main groups to new standardized residual main groups, the deleted one-dot subgroups to new main groups and the deleted hierarchically lower subgroups to respective subgroups of the new main groups (see Technical Annexes relating to project M 099): B01L 11/00, B29D 31/00, F01N 7/00, F02N 17/00, F03C 5/00 and G04G 1/00.

31. With respect to subclass B27J, the Working Group agreed that the renumbering of the residual main group B27J 7/00 should be further treated in maintenance project M 700, and invited the Rapporteur of that project to submit a proposal for renumbering or rewording the title of main group B27J 7/00.
32. With respect to subclass B60F, the Working Group approved the proposed amendments of the titles of subclass B60F and of main group B60F 5/00 (see Technical Annex 32 to this report) and the inclusion of the term “convertible” in the glossary of the corresponding definition.
33. The Working Group agreed that main group B64C 39/00 was not residual to the whole subclass and approved a new standardized residual main group (see Technical Annex 34 to this report).
34. With respect to subclass B67D, the Working Group invited the Rapporteur to review the comments of Japan in Annex 55 and to submit a new proposal taking into account the references in the title of main group B67D 5/00.
35. With respect to subclass C07B, the Working Group agreed that a decision on the renumbering of main group C07B 61/00 should be taken in the framework of project M 101.
36. In view of the concerns of the United States of America, the Working Group agreed to postpone a decision on the residual main group C08H 5/00 and its subgroups and invited comments on whether a revision project would be needed in order to clarify a potential overlap between the proposed new main groups C08H 7/00 and 9/00 and main group C07G 1/00 (see Annex 57 to project file WG 111).
37. With respect to subclass F27D, the Working Group agreed to delete main group F27D 23/00 and its subgroups, and to create the proposed new main groups F27D 25/00, 27/00 and a new standardized residual main group. The proposed main groups F27D 29/00 and F27D 31/00 were not approved because their creation would require intellectual reclassification of documents currently classified in main group F27D 23/00. It was further agreed to include a precedence reference to F27D 3/14 in the title of new main group F27D 27/00 (see Technical Annex 45 to this report).
38. With respect to subclass G01M, the Working Group agreed that the testing of sparking plugs should be placed in the main group H01T 13/00. However, it was also noted that group G01R 31/38 covers electrical testing of sparking plugs and includes a reference to G01M 19/02. It was therefore agreed to create new revision project C 453, with the EPO as Rapporteur, for investigating if such subject matter should also be placed in H01T 13/00. The renumbering of G01M 19/00 should also be considered in that project.
39. The Secretariat informed the Working Group of its plan to post an updated version of the proposal of Annex 57 to the e-forum for the remaining residual main groups. The Working Group invited comments to this proposal by October 17, 2008. The Working Group finally agreed to continue the consideration of the remaining three residual main groups at its next session.

40. The Secretariat informed the Working Group of its plan to post an updated version of Annex 58 to the e-forum, which would summarize all decisions of the Working Group with respect to the introduction of new residual main groups and the renumbering of existing residual main groups.

PROPOSALS FOR IMPROVING THE IPC

41. The Working Group considered projects M 700, M 701, M 703, M 704, M 706, M 707 and M 709. A list of M 7xx projects, their status and relevant future actions with deadlines are indicated in Annex III to this report.

Project M 700 – B27K (mechanical) – The Working Group approved the amendment of the title of subclass B27K as proposed by the Rapporteur in Annex 15 to the project file (see Technical Annex 60 to this report). A round of comments was invited on the questions raised by the Rapporteur in said Annex 15.

Project M 701 – B60L 15/00 (mechanical) – Discussions were based on a proposal submitted by the Rapporteur (see Annex 11 to the project file), as well as on an updated proposal prepared by the Rapporteur during the session. The Working Group approved the amended title of subclass B60L (see Technical Annex 61 to this report).

Comments were invited on:

- the relation between group B60R 16/03 and main group B60L 1/00 in light of the second part of the approved new title of subclass B60L; and
- whether the title of main group B60L 15/00 covers the scope of its subgroups, e.g. groups B60L 15/20 and 15/40, and, if not, on how to accommodate the scope of the subgroups in the main group title, for example by modifying the title as proposed by the Rapporteur in Annex 11 of the project file.

Project M 703 – A62B, A62D (mechanical) – The Working Group approved an amendment to the title of group A62B 29/00 and the introduction of a new limiting reference in group A62D 3/00 pointing to group A62B 29/00 (see Technical Annexes 62 and 63 to this report). It was decided that this reference should also be included in A62D 3/00 group definitions as a limiting reference, in project D 071.

Project M 704 – B29K (mechanical) – The Working Group approved, with some modifications, the amendments of titles of the main groups of subclass B29K proposed by the Rapporteur in Annex 3 to the project file (see Technical Annex 64 to this report).

Project M 706 – B65D (mechanical) – The English version was approved by the Working Group (see Technical Annex 65 to this report).

Project M 707 – B27G (mechanical) – Discussions were based on an initial proposal submitted by the Rapporteur and comments submitted by the United States of America and Sweden (see Annexes 4 to 6 to the project file). Comments were invited on:

- whether a reference to B24D 15/00 would be needed in subclass B27G or in its main groups;
- which of the proposed titles of subclass B27G, the one of the Rapporteur in Annex 4 or the one of Sweden in Annex 6, could better clarify its scope, taking into account the scope of class B27; and
- whether the title of B27G 21/00 should be amended as “---for other wood-working machines or devices” in view of the title of main group B27G 19/00 covering “wood saws”.

Project M 709 – G01B (electrical) – Following the proposal of the Rapporteur, the Working Group agreed to abandon this project.

IPC CORE LEVEL REVISION PROGRAM

General

42. The Working Group discussed nine pending IPC core level revision projects and approved amendments relating to those projects (see the Technical Annexes 1 to 18 to this report relating to revision projects). The status of those projects and the list of future actions and deadlines are indicated in Annex III to this report.

43. During the consideration of project C 448, it was noted that some amendments that had previously been approved at the eighteenth session of the Working Group were present again in the proposed Technical Annexes of the nineteenth session. The Secretariat indicated that the Rapporteurs typically included entries already approved in the proposed scheme, and as such, it was not always obvious which amendments should be introduced into RIPCIS. The International Bureau was therefore invited to draft instructions on how to present, in rapporteur proposals, those amendments that should be introduced into RIPCIS. These instructions, in addition to the “Guidelines for Revision of the IPC”, should be submitted to Project C 000 of the e-forum.

IPC Revision Projects

44. The Working Group made the following observations with respect to the IPC revision projects.

Project C 436 (chemical) – New groups C12N 5/0735, 15/873 and 15/877 were approved as proposed by the Rapporteur (see Technical Annex 1 to this report). The project was therefore completed in English and a French version was requested for consideration at the next session of the Working Group. It was decided to reopen the definition project D 039 (subclass C12N), with Israel as Rapporteur, in order to accommodate the changes made in project C 436 and to add relevant new entries in the Glossary (see additionally Annex 32 to project C 436).

Furthermore, the Working Group took note of the expected workload for reclassification as provided in the statistics prepared by the EPO (see Annex 34 to the project file), based on the algorithm approved at the previous session of the Working Group.

Project C 441 (mechanical) – New notes for class B29 and for subclass B32B were approved; said notes give guidance on how to classify products characterized by the manner of their production in these places (see Technical Annexes 2 to 5 to this report). The consideration of this project was completed in English and the French version would be considered at the next session of the Working Group.

Project C 443 (chemical) – Discussions were based on Annex 20 to the project file containing a proposal to rearrange class C13. It was recalled that one of the reasons for revising this area was to solve a potential overlap between class C13 and subclass C07H. In that respect, the Working Group decided that all “sugars *per se*” should be classified only in subclass C07H.

The new subclass C13B, its main groups and an amended title of subclass C13K were approved (see Technical Annexes 7 and 8, respectively, to this report). Two new definition projects D 212 and D 213 for subclasses C13B and C13K were created with Germany as Rapporteur.

Comments were invited on:

- whether there was any overlap between subclasses C13B and C13K in view of their approved titles;
- whether the titles of main groups under subclass C13K should be amended in order to reflect the amended title of the subclass, i.e. to include the term “obtaining” at the beginning of the titles of these main groups.

Project C 447 (electrical) – The latest rapporteur proposal was approved, with some amendments (see Technical Annex 9 to this report).

Comments were invited on:

- whether the use of the term “tokens” in the note of subclass G07D was entirely accurate since tokens might sometimes be made of paper, and
- whether the list of “paper currency or similar valuable papers”, appearing in said note above, was exhaustive.

A definition project D 214 was created for subclass G07D with the EPO as Rapporteur, in the framework of which the informative references to be removed from the scheme would be considered.

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

Project C 448 (electrical) – A reference to subclass B81C was approved in new group G01Q 80/00. On the other hand, it was decided that a reference to new group G01Q 60/24 was not needed in subclass G01L (see Technical Annexes 10 to 16 to this report). The project was thus completed. It was noted that the advanced level part would be considered by the ALS at its next session in the framework of project A 007. Definitions would be further considered in the framework of project D 171.

Project C 449 (electrical) – Discussions were based on the latest rapporteur report (see Annex 18 to the project file). In particular, the Working Group discussed the most appropriate place for the classification of “road pricing for vehicles charged for travelling in particular areas”. Consensus, however, was not achieved and comments were invited on the following alternatives:

- multiple classification in a subgroup to be created under group G07B 15/00 and in group G06Q 20/00 (e.g. see the EPO’s proposal in Annex 15 to the project file);
- classification in group G06Q 20/00 or in an application oriented subgroup to be created and
- classification in group G08G 1/00.

Following the comments to be submitted, the Rapporteur was invited to submit a consolidated proposal.

Project C 450 (chemical) – The Working Group approved, with some amendments, the English version (see Technical Annex 17 to this report). It was noted that the Rapporteur would prepare the French version of the approved amendments for consideration by the Working Group at its next session.

Project C 451 (electrical) – It was decided that subclass G10L implicitly covered “audio processing” and the titles of the subclass and of some main groups were amended in order to explicitly indicate this coverage. In addition, informative references were removed from the scheme and the project was completed (see Technical Annex 18 to this report).

Project C 452 (electrical) – Discussions were based on Annex 6 to the project file containing a rapporteur proposal and on Annex 8 containing a counterproposal submitted by the International Bureau. It was indicated that the groups in the counterproposal submitted by the International Bureau had exactly the same scope as the groups in the rapporteur proposal. However, the groups for “specific uses or applications of nano-structures” were included in a separate subclass for secondary classification. It was further indicated that, in any case, the scope of existing groups B82B 1/00 and 3/00 should remain unchanged.

It was noted that the creation of these groups for specific uses or applications did not intend to replace application places elsewhere in the IPC, nor to restrict the development of new such places in other subclasses, if there is such a need in the future. Furthermore, these new groups for “uses or applications of nano-structures” should be used for the classification of “genuine nano-structures” and not automatically for all applications alleged to be nano-technology. The intention of the proposal was to provide a basis for a complete search to be made on nano-technology classified primarily elsewhere in the IPC.

Comments were invited on:

– whether the proposed groups B82C 10/00, 20/00, 40/00 and 50/00 (see said Annex 6) could also be used for primary classification and if that were the case, whether they should belong to a new subclass or inserted in existing subclass B82B, whose scope should be widened to include these groups.

IPC DEFINITIONS PROGRAM

45. The Working Group had before it, in particular, document IPC/WG/18/4 and compilations of the relevant definition project files. The decisions of the Working Group with respect to those projects, in particular new deadlines and the appointment of offices for the preparation of French versions, are listed in Annex IV to this report. Further information with respect to some of those decisions is given in paragraph 47, below.

46. The Working Group recalled its decision at its fifteenth session that Rapporteurs of definition projects which were active at the end of 2007 had been invited to submit proposals for informative references that should be removed from the scheme (see paragraph 29 of document IPC/WG/15/4), and noted that such proposals had been submitted for several projects. Rapporteurs of definition projects for which such proposals had not yet been submitted were asked to do so at the earliest time possible, or to indicate on the e-forum that the respective subclass would not contain any informative references (see also paragraph 19, above).

IPC Definition Projects

47. The Working Group made the following observations, in addition to the decisions set forth in Annex IV to this report, with respect to the cited IPC definition projects. All references to annexes in this paragraph refer to annexes of the corresponding project file, unless otherwise stated.

Project D 011 (electrical) – Following the question raised at its eighteenth session, the Working Group agreed that all references under the title of subclass H01L should be considered as limiting with the exception of the reference to B65G 49/07 which should be considered as informative and removed from the scheme (see Technical Annex 19 to this report).

Project D 012 (mechanical) – The Working Group agreed to replace the existing group A44B 21/00 by a standardized residual main group (see Technical Annexes relating to project M 099). The Working Group also approved the list of informative references to be removed from the scheme, as proposed in Annex 39 (see Technical Annex 20 to this report), and invited the International Bureau to include them in the definitions of the relevant groups.

Project D 013 (mechanical) – The Working Group agreed that a standardized residual main group was not needed. It was also agreed to replace in the English version of the definition statement the term “abnormal” by “particular” and “individual human beings” by “persons”, to remove the reference to G01N 27/047 from the informative references, to treat the reference to G03B 42/00 as informative, and to replace the reference to A61F 9/00 by a reference to A61F 9/007 with the title “Eye Surgery”.

Project D 014 (mechanical) – The Working Group agreed that a standardized residual main group was not needed, approved the list of informative references to be removed from the scheme, as proposed in Annex 37 (see Technical Annex 21 to this report), and invited the International Bureau to include them in the definitions of the relevant groups.

Project D 031 (mechanical) – The Working Group agreed to amend the title of main group E01D 19/00 as “Details of Bridges”, and that a standardized residual main group was therefore not needed. The Working Group also approved the removal of informative references, as proposed in Annex 54, and decided to introduce the deleted references to groups B63B 27/14 and B65G 69/28 into main group E01D 15/00 (see Technical Annex 22 to this report).

Project D 055 (mechanical) – The Working Group reviewed the proposals for the definitions of all subclasses of class F21 that are collectively under consideration in this project and took the following decisions:

– Subclass F21K: The Working Group noted that the definition of this subclass had already been approved at the seventeenth session, including the placement of the references of the subsection “References Relevant to Classification” under the subheading “Places to which this Subclass is Residual”. The inclusion of the explanation in the section “Relationship between large subject matter areas” as proposed in Annex 92 was not approved.

– Subclass F21L: The Working Group approved the English version of Annex 93, subject to deletion of the second paragraph in the subsection “Special Rules of Classification Within this Subclass” and to moving the first paragraph thereof to the end of subsection “Relationship Between Large Subject Matter Areas”, to deletion of last paragraph of the latter subsection, and to moving the informative reference to F21V 33/00 under the subheading “Examples of Places ...”.

– Subclass F21S: The Working Group approved the English version of Annex 94, subject to replacing the last paragraph of the subsection “Relationship Between Large Subject Matter Areas” by the first paragraph of the subsection “Special Rules of Classification within this Subclass” of Annex 93, to moving the reference to B60Q to the informative references, and to adding a reference to F21V 33/00 with the title “Structural combinations of lighting devices with other articles, not otherwise provided for” under the subheading “Examples of Places ...”.

– Subclass F21V: The Working Group approved the English version of Annex 95, subject to replacing the last paragraph of the subsection “Relationship between large subject matter areas” by the first paragraph of the subsection “Special rules of classification within this subclass” of Annex 93.

Project D 058 (mechanical) – The Working Group approved the French version of Annex 40, subject to adding “Les” or “Le” at the beginning of each bullet of the definition statement, to replacing “mouvement” by “déplacement” in the entries of the glossary, and some further editorial amendments. The Working Group also approved the amendments of the English version proposed in Annex 41.

Project D 067 (mechanical) – The Working Group approved the English version of Annex 9, subject to removing the last bullet in the first paragraph of the definition statement. The Working Group also approved the list of informative references to be removed from the scheme, as proposed in Annex 14, and added thereto the references in A01D 5/00 to B24D 15/00 (see Technical Annex 23 to this report). The International Bureau was invited to include them in the definitions of the relevant groups.

Project D 068 (mechanical) – The Working Group approved the English version of Annex 14, subject to some editorial amendments.

Project D 069 (mechanical) – The Working Group invited a new round of comments on the latest rapporteur proposal of Annex 8.

Project D 070 (mechanical) – The Working Group invited the Rapporteur to review if the reference to A23P, in view of its amendment proposed by the EPO in Annex 23, should better be included in the section “Relationship Between Large Subject Matter Areas”. The Working Group also approved some editorial changes to the already approved French version of Annex 24.

Project D 071 (chemical) – The Working Group approved the English version of Annex 17 and the list of informative references to be removed from the scheme, as proposed in Annex 16 (see Technical Annex 24 to this report).

Project D 076 (mechanical) – The Working Group approved the French version of Annex 22, subject to moving the reference to B32B to the subsection of informative references. It was also agreed to change the English version accordingly, including the amendment of the wording of the reference.

Project D 077 (mechanical) – The Working Group approved the French version of Annex 12.

Project D 078 (electrical) – The Working Group approved the English version of Annex 11, subject to replacing “Explosions” in the title by “Explosives”, introducing an informative reference to C06B, and rewording the reference to F42B to “conventional explosive devices”.

Project D 079 (mechanical) – The Working Group approved the French version of Annex 26.

Project D 081 (mechanical) – The Working Group approved the French version of Annex 12, subject to replacing “parenté” by “liens”. The Working Group also agreed to similarly replace in the English version the term “affinity” by “relationship”.

Project D 086 (electrical) – The Working Group invited a new rapporteur proposal, to be followed by a round of comments. The Rapporteur was asked to take into account the decisions of the related project M 103. The offices were invited to comment in particular on the suggestion of the EPO in Annex 19 to apply multiple classification in the area of “VoIP”, to create a revision project for the introduction of a corresponding note, and to include such rule in the definition.

Project D 098 (mechanical) – The Working Group approved the English version of Annex 29.

Project D 100 (chemical) – The Working Group approved the English version of Annex 13 and invited the International Bureau to include a subheading before the last paragraph of the definition statement.

Project D 101 (mechanical) – The Working Group agreed that a standardized residual main group would not be needed. The Working Group also invited comments on the proper wording of the second paragraph of the definition statement regarding “flexible shafts” and “bowden cables”, which are indicated as examples thereof, and of the fifth paragraph regarding “rotary bodies”, and on the definition of these terms in the glossary. The Working Group further invited comments on whether the subclass title should be amended to accommodate the second part of the title of F16C 1/00.

Project D 115 (chemical) – The Working Group approved the English version of Annex 19.

Project D 116 (chemical) – The Working Group approved the English version of Annex 15, subject to adding a bullet for “obtaining specific metals, e.g. copper or manganese” to the definition statement, to splitting the informative reference to group C01G 9/02 into a reference to subclass C01G and a reference to the more specific subgroup C01G 9/02, and to some further editorial amendments.

Project D 117 (chemical) – The Working Group approved the English version of Annex 16.

Project D 124 (C 434) (electrical) – The Working Group agreed to continue the discussion of the definition proposal in the definition project and asked the International Bureau to transfer Annex 26 of the project file C 434 to the definition project file D 124. The offices were invited to comment on the proposal in Annex 26.

Project D 125 (electrical) – The Working Group approved the English version of the subclass definition of Annex 3 to the project file, and invited the Rapporteur to prepare an updated proposal for the main group and subgroup definitions.

Project D 137 (chemical) – The Working Group invited the Rapporteur to review the relationship between subclasses C10B and C10J, in particular the proper placement of the reference to C10B in the section for informative references, and to include in the definition a glossary entry for “gasification”.

Project D 138 (electrical) – The Working Group approved the English version of Annex 11, subject to some editorial amendments.

Project D 141 (chemical) – The Working Group approved the English version of Annex 9, subject to removing the references to B24B, to B28D 5/00 and to G02B, G02F under informative references, and the list of informative references to be removed from the scheme, as proposed in Annex 8 (see Technical Annex 25 to this report), and invited the International Bureau to include them in the definitions of the relevant groups.

Project D 167 (electrical) – The Rapporteur was invited to prepare a new proposal including the proposals for main group definitions proposed by the EPO in Annex 8, to be followed by a round of comments.

Project D 170 (electrical) – The Working Group invited further comments on the rapporteur proposal of Annex 1.

Project D 171 (C 448) (electrical) – The Working Group invited a new rapporteur report taking into account the Canadian comments in Annex 7 to the project file, to be followed by a round of comments.

IPC SYSTEMATIC MAINTENANCE

General

48. The Working Group discussed five pending IPC systematic maintenance projects and approved amendments relating to those projects (see the Technical Annexes to this report relating to maintenance projects). The status of those projects and the list of future actions and deadlines are indicated in Annex III to this report.

IPC Systematic Maintenance Projects

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

Project M 100 – A01F (mechanical) – The Working Group approved, subject to an amendment of the title of subgroup A01F 12/58, the English and the French versions of the project (see Technical Annex 48 to this report). The Working Group noted that these amendments also included the removal of informative references from subclass A01F. It was also noted that there was no need for reclassification following the modification of the title of said subgroup A01F 12/58. The project was therefore considered as completed.

Project M 102 – F23G (mechanical) – The English version was approved (see Technical Annex 49 to this report).

Project M 103 – H04M (electrical) – The Working Group approved, with amendments, the English version of the project (see Technical Annex 50 to this report).

Project M 107 – F04C (mechanical) – Comments were invited on the latest rapporteur proposal (see Annex 8 to the project file) as to whether the title of the guidance heading before F04C 2/00 and the corresponding entry in the subclass title were suitable.

Project M 110 – G10 (electrical) – The Working Group approved, with several additional amendments, the English version of Annex 12 to the project file (see Technical Annexes 51 to 58 to this report), except for subclass G10L for which amendments were discussed in the framework of project C 451 (see paragraph 44, above, and Technical Annex 18 to this report). The Working Group also agreed on some editorial amendments in subclass H04R (see Technical Annex 59 this report). The Working Group also approved the French version which was prepared by the Secretariat during the session.

REGULAR MONITORING OF RESIDUAL MAIN GROUPS

50. Discussions were based on a compilation of project file WG 151, and in particular on Annexes 11 and 12, relating to the statistics on the use of the 99/00 residual main groups and a rapporteur report prepared by the International Bureau.

51. The Working Group noted that for almost all residual main groups the rate of increase or their file size was modest and did not require further investigations. However, for some groups the following observations were made:

- it was pointed out that the excessive number of documents classified in main group F16K 99/00 was mainly due to the frequent use of this main group by Chinese classifiers. China was therefore invited to investigate whether there would be some specific subject matter currently classified in F16K 99/00 which could not be covered by other groups in subclass F16K and whether a revision project would be needed;

- following the analysis prepared by Sweden (see Annex 6 to the project file), it was noted that the high use of main group F23C 99/00 was due to the incomplete subdivision of F23C, the administrative reclassification of old documents from EPO's IDT to ECLA and an extensive subdivision of F23C 11/00 in FI; and

- it was noted that Germany would confirm at a later stage its availability to contribute to a potential solution of the problem of the documents administratively reclassified to F23C 99/00 as proposed by Sweden, i.e. by using the classification symbols of these documents in the German database DEPATIS. On the other hand, Japan took note of the problem created by the extensive subdivision of F23C 11/00 in FI and would consider the possibility of developing a more accurate FI-to-IPC concordance list.

CHECKING OF THE AMENDMENTS ADOPTED DURING THE LAST REVISION PERIOD IN IPC-2009.01

52. The Secretariat announced that the list of amendments (compilation file) and the scheme file of IPC-2009.01 would be available for checking under the IPC early publication webpage (<http://www.wipo.int/ipc8earlypub/>) where a restricted access was added. This site would include all approved modifications and show the associated IPC project and session where each of them had been finally adopted.

53. The grouping of amendments would be as follows: all core level amendments between the 2006 and 2009 editions; all amendments to the advanced level between IPC 2008.04 and 2009.01 and all amendments to the advanced level between IPC 2006.01 and 2009.01.

54. The scheme of the core and advanced levels would also be available for checking under the same area. Each Rapporteur was requested to check its projects. In addition, other offices volunteered to check projects M 031, M 032, M and P projects with corrections of errors and the French versions of revision projects. It was reminded that, in view of the IPC publication deadline of July 1, 2008, all comments/corrections should be submitted by June 16, 2008.

55. The Working Group was further informed that some clarification of the documentation was in progress for the master compilation file (the document type definition remains compatible with previous XML compilation files), and that no structural change was foreseen for the IPC-2009 master files. It was finally noted that a new feature allowing for download of the structure files of chemical formulae illustrations would soon be included on the IPC website.

STATUS OF THE WORK

56. The Chair stated that, on the agenda of this session, nine definition projects were approved in English and five definition projects were completed in both English and French. In total, 102 definition projects have been completed so far. Annex IV to this report gives the status of each definition project on the program. He also indicated that two revision projects have been dealt with and completed in both languages (see Annex III to this report for the status of each revision project). Furthermore, 12 maintenance projects have been dealt with (see Annex III to this report for the status of each maintenance project).

57. The Chair stated that, at this session, the Working Group had continued an important work program of the implementation of the results of IPC reform and had achieved good progress in the completion of the relevant tasks of the IPC development program. In particular, the Working Group has considered and created some new residual main groups (see Task No. 5(a)), and has removed several informative references from the scheme (see Task No. 3).

THANKS TO MR. DAELEMAN

58. Having noted that Mr. Daeleman would conclude his participation in the IPC revision work, the Working Group and the International Bureau thanked him and expressed their appreciation for his excellent contribution over many years as Technical Expert and Coordinator of the European Patent Office. The Working Group and the International Bureau wished him a long and happy retirement.

NEXT SESSION OF THE WORKING GROUP

59. The Working Group, having assessed the workload expected for its next session, agreed to devote the first two days to the mechanical field, the following one and a half days to the electrical field and the last one and a half days to the chemical field. When convening the next session, the International Bureau was requested to consider, in consultation with the Chair, the possible need for an extension of the session, depending on the envisaged amount of work, and for the modification of the number of days dedicated to each technical field. The International Bureau was also requested to consider whether the status of C and M-projects in one of the technical fields would justify the convening of another Task Force type meeting for preparing consolidated proposals for subsequent consideration by the plenary of the Working Group.

60. The Working Group noted the following dates for its twentieth session:

November 24 to 28, 2008.

61. The Working Group unanimously adopted this report by electronic means on June 20, 2008.

[Annexes follow]

ANNEX I

LISTE DES PARTICIPANTS/
LIST OF PARTICIPANTS

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Vice-président/Vice-Chair: Sofia RODRIGUES (Mme/Ms.) (Portugal)

Secrétaire/Secretary: Lutz MAILÄNDER (OMPI/WIPO)

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[L'annexe II suit/
Annex II follows]

ANNEX II

AGENDA

	<u>Paragraphs</u> (Annexes)
1. Opening of the session	
2. Election of a Chair and a Vice-Chair	3, 4
3. Adoption of the agenda	5 (II)
4. Report on the fortieth session of the IPC Committee of Experts See document IPC/CE/40/6.	7 – 10
5. Report on the fifth session of the IPC Advanced Level Subcommittee See document IPC/ALS/5/8.	11 – 15
6. Removal of informative references from the scheme See Project WG 191.	16 – 22
7. Systematic introduction of graphic illustrations in the IPC See Projects WG 171 and M 600 to M 605.	23 – 27
8. Renumbering of pre-reform residual main groups See Project WG 111.	28 – 40
9. Proposals for improving the IPC See document IPC/WG/12/4 and Projects M 011 to M 014, M 700, M 701, M 702, M 703, M 704, M 705, M 706, M 707, M 709 and M 712.	41 (III)
10. IPC core level revision projects relating to the mechanical field See Project C 441.	42 – 44 (TEs)
11. IPC core level revision projects relating to the electrical field See Projects C 447, C 448, C 449, C 451 and C 452.	42 – 44 (TEs)
12. IPC core level revision projects relating to the chemical field See Projects C 436, C 443 and C 450.	42 – 44 (TEs)

	<u>Paragraphs</u> (Annexes)
13. IPC definition projects relating to the mechanical field See Projects-D 012, D 013, D 014, D 031, D 055, D 058 (F), D 067, D 068, D 069, D 070, D 076 (F), D 077 (F), D 079 (F), D 081 (F), D 098, D 101, D 102, D 103, D 104, D 105, D 106, D 107, D 108, D 109, D 134 and D 135.	45 – 47 (IV, TEs)
14. IPC definition projects relating to the electrical field See Projects C 434 (D 124), D 011, D 078, D 086, D 125, D 138, D 167, D 170 and D 171 (C 448).	45 – 47 (IV, TEs)
15. IPC definition projects relating to the chemical field See Projects D 071, D 100, D 115, D 116, D 117, D 137 and D 141.	45 – 47 (IV, TEs)
16. IPC systematic maintenance projects relating to the mechanical field See document IPC/WG/15/4 and Projects M 100, M 102 and M 107.	48, 49 (III, TEs)
17. IPC systematic maintenance projects relating to the electrical field See document IPC/WG/15/4 and Projects M 103 and M 110.	48, 49 (III, TEs)
18. IPC systematic maintenance projects relating to the chemical field See document IPC/WG/15/4 and Projects M 101, M 104, M 105 and M 106.	48, 49 (III, TEs)
19. Regular monitoring of residual main groups See Project WG 151.	50, 51
20. Checking of the amendments adopted during the last revision period in IPC-2009.01	52 – 55
21. Status of the work	56, 57
22. Thanks to Mr. Daeleman	58
23. Next session of the Working Group	59, 60
24. Adoption of the report of the session	61
25. Closing of the session	

[Annex III follows]

ANNEX III/ANNEXE III

IPC REVISION PROGRAM FOR THE EIGHTH REVISION PERIOD/
PROGRAMME DE LA HUITIÈME PÉRIODE DE RÉVISION DE LA CIB

Project status:/État d'avancement des projets :

A: Amendments approved at least in one language version/Modifications approuvées au moins en une langue

C: Completed/Achevé

R: Rejected/Rejeté

W: Withdrawn/Retiré

Sb: Referred to a subsidiary body/Renvoyé à un organe subsidiaire

REVISION PROJECTS/PROJETS DE RÉVISION

Project C .../ Projet C ...	Area/ Domaine	Technology/ Technique	Rapporteur	Comments/ Observations	Category request/ Catégorie de la demande	French version / Version française	Rapporteur report or proposal/ Rapport ou proposition du rapporteur	Status/État d'avancement	See paragraph(s)/ Voir paragraphe(s)	Technical Annex(es) to this report and remarks/Annexe(s) technique(s) du présent rapport et remarques
436	C12N	C	IL		C	EP 31.10.08		A	43	1E Definitions by IL by 12.09.08/ Définitions par IL pour le 12.09.08
441	B29C, B29D, B32B	M	SE		B	CH 31.10.08		A	43	2E to 5E
443	C13	C	DE	12.09.08	B	FR 31.10.08	17.10.08	A	43	6E, 7E, 8E
447	G07D	E	EP	12.09.08	A	EP 31.10.08	17.10.08	A	43	9E
448	G01N	E	JP		A			C	43	11E – 13E, 10F – 16F
449	G07B, G08G	E	GB	12.09.08	A		17.10.08		43	
450	A01N	C	EP		A	EP 31.10.08		A	43	17E
451	G10L	E	EP		A			C	43	18E, 18F
452	B82	E	US	12.09.08	A		17.10.08		43	

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Annex III/Annexe III
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Project C .../ Projet C ...	Area/ Domaine	Technology/ Technique	Rapporteur	Comments/ Observations	Category request/ Catégorie de la demande	French version / Version française	Rapporteur report or proposal/ Rapport ou proposition du rapporteur	Status/État d'avancement	See paragraph(s)/ Voir paragraphe(s)	Technical Annex(es) to this report and remarks/Annexe(s) technique(s) du présent rapport et remarques
453	G01M	E	EP	12.09.08	A	EP	17.10.08		37	Proposal by EP by 15.08.08/ Proposition par EP pour le 15.08.08
454	H04N	E	EP	12.09.08	A	EP	17.10.08		12	Proposal by EP by 15.08.08/ Proposition par EP pour le 15.08.08

MAINTENANCE PROJECTS/PROJETS DE MAINTENANCE

Project M .../ Projet M ...	Area/ Domaine	Technology/ Technique	Rapporteur	Comments/ Observations	Category request/ Catégorie de la demande	French version / Version française	Rapporteur report or proposal/ Rapport ou proposition du rapporteur	Status/État d'avancement	See paragraph(s)/ Voir paragraphe(s)	Technical Annex(es) to this report and remarks/Annexe(s) technique(s) du présent rapport et remarques
011			IB		B	IB				Proposals by 12.09.08/ Propositions pour le 12.09.08
012		C	IB		B	IB				Proposals by 12.09.08/ Propositions pour le 12.09.08
013		E	IB		B	IB				Proposals by 12.09.08/ Propositions pour le 12.09.08
014		M	IB		B	IB				Proposals by 12.09.08/ Propositions pour le 12.09.08
032			IB		B	IB		A	17	Proposals by 12.09.08/ Propositions pour le 12.09.08
100	A01F	M	SE		B	FR		C	48	49E, 49F
101	C07B	C	SE	12.09.08	B		17.10.08		48	
102	F23G	M	SE		B	CH 31.10.08		A	48	50E
103	H04M	E	SE		B	FR 31.10.08		A	48	51E
104	C08L	C	DE	12.09.08	B		17.10.08			
105	C09D	C	DE	12.09.08	B		17.10.08			
106	C09J	C	DE	12.09.08	B		17.10.08			
107	F04C	M	US	12.09.08	B		17.10.08		48	
110	G10	E	EP		B	EP 31.10.08		A	48	52E – 60E
600	F21K	M	BR		B					
601	F21L	M	BR		B					
602	F21S	M	BR		B					
603	F21V	M	BR		B					
604	F24B	M	ES		B					
605	F24D	M	ES		B					
700	B27K	M	SE	12.09.08	B		17.10.08	A	40	61E
701	B60L	M	SE	12.09.08	B		17.10.08	A	40	62E
702	C07F	C	EP	12.09.08	B		17.10.08			
703	A62B, A62D	M/C	US		B	CH 31.10.08		A	40	63E, 64E
704	B29K	M	EP		B	EP 31.10.08		A	40	65E
705	B01D	C	GB	12.09.08	B		17.10.08			

Project M .../ Projet M ...	Area/ Domaine	Technology/ Technique	Rapporteur	Comments/ Observations	Category request/ Catégorie de la demande	French version / Version française	Rapporteur report or proposal/ Rapport ou proposition du rapporteur	Status/État d'avancement	See paragraph(s)/ Voir paragraphe(s)	Technical Annex(es) to this report and remarks/Annexe(s) technique(s) du présent rapport et remarques
706	B65D	M	SE		B	CH 31.10.08		A	40	66E
707	B27G	M	EP	12.09.08	B		17.10.08		40	
708	G01T	E	IE	12.09.08	B		17.10.08			Initial proposal by IE by 01.08.08/ Proposition initiale par IE pour le 01.08.08
709	G01B	E	EP		B			W	40	
710	C07C	C	IE	12.09.08	B		17.10.08			Initial proposal by IE by 01.08.08/ Proposition initiale par IE pour le 01.08.08
711	A61P, A61Q	C	IE	12.09.08	B		17.10.08			Initial proposal by IE by 01.08.08/ Proposition initiale par IE pour le 01.08.08
712	C04B	C	EP	12.09.08	B		17.10.08			

[Annex IV follows/
L'annexe IV suit]

ANNEX IV/ANNEXE IV

STATUS OF DEFINITION PROJECTS/
ÉTAT D'AVANCEMENT DES PROJETS DE DÉFINITIONS

Status/État d'avancement :

E: English version approved (with indication at which session it was approved)/

Version anglaise approuvée (avec l'indication de la session à laquelle celle-ci a été approuvée)

F: French version approved/Version française approuvée

D Project /Projet D...	Area/Domaine	Technology/Technique	Rapporteur	French version by/ Version française par	Status/ État d'avancement	Next actions/ Prochaines actions
001	A01N	C	US	FR	E WG/8 F WG/11	
002	C07C	C	US	EP	E WG/9 F WG/12	
003	C08J	C	SE	CH	E WG/8 F WG/12	
004	C09K	C	EP	EP	E WG/12 F WG/12	
005	C40B	C	EP	EP	E WG/11 F WG/12	
006	B81B	E	US	FR	E WG/13 F WG/14	
007	B81C	E	US	FR	E WG/9 F WG/12	
008	B82B	E	US	FR	E WG/9 F WG/13	
009	G01N	E	EP	EP	E WG/13 F WG/14	
010	G01S	E	DE	CH	E WG/12 F WG/13	
011	H01L	E	DE	EP	E WG/9 F WG/13	
012	A44B	M	US	CH	E WG/11 F WG/13	
013	A61B	M	US	FR	E WG/12 F WG/13	
014	A61N	M	US	FR	E WG/13 F WG/14	

D Project /Projet D...	Area/Domaine	Technology/Technique	Rapporteur	French version by/ Version française par	Status/ État d'avancement	Next actions/ Prochaines actions
015	B60T	M	GB	FR	E WG/11 F WG/12	
016	B61L	M	US	CH	E WG/14 F WG/15	
017	B66B	M	US	FR	E WG/12 F WG/13	
018	F04C	M	EP	FR	E WG/13 F WG/14	
019	F23B	M	SE	CH	E WG/12 F WG/13	
020	F23C	M	SE	CH	E WG/12 F WG/13	
021	A61K	C	EP	EP	E WG/13 F WG/13	
022	A61P	C	EP	EP	E WG/11 F WG/12	
023	A61Q	C	EP	EP	E WG/11 F WG/12	
024	B01D	C	GB	FR	E WG/11 F WG/12	
025	C07F	C	RU	EP	E WG/9 F WG/11	
026	C10L	C	EP	EP	E WG/9 F WG/11	
027	G01M	E	RU	CH	E WG/12 F WG/13	
028	H01H	E	EP	FR	E WG/12 F WG/13	
029	A61G	M	US	FR	E WG/11 F WG/13	
030	B32B	M	EP	EP	E WG/8 F WG/12	
031	E01D	M	US	EP	E WG/14 F WG/15	
032	F23G	M	SE	EP	E WG/11 F WG/13	
033	A01H	C	SE	CH	E WG/9 F WG/11	
034	B60R	M	US	FR	E WG/14 F WG/15	
035	B60V	M	US	FR	E WG/14 F WG/15	
036	C04B	C	EP	EP	E WG/14 F WG/15	

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D Project /Projet D...	Area/Domaine	Technology/Technique	Rapporteur	French version by/ Version française par	Status/ État d'avancement	Next actions/ Prochaines actions
037	C07J	C	RU	EP	E WG/11 F WG/12	
038	C07K	C	SE	EP	E WG/11 F WG/13	
039	C12N	C	US	CH	E WG/12 F WG/13	Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08
040	C12P	C	US	FR	E WG/11 F WG/13	
041	F01M	M	GB	FR	E WG/11 F WG/13	
042	F16N	M	GB	FR	E WG/11 F WG/13	
043	G01P	E	US	CH	E WG/14 F WG/15	
044	G01T	E	SE	CH	E WG/11 F WG/12	
045	G01V	E	DE	CH	E WG/9 F WG/12	
046	G02C	E	US	CH	E WG/14 F WG/15	
047	H01P	E	GB	CH	E WG/9 F WG/12	
048	H04B	E	RU	FR	E WG/14 F WG/14	
049	H04L	E	SE	FR	E WG/15 F WG/16	
050	G01B	E	DE	FR	E WG/11 F WG/13	
051	G01C	E	DE	CH	E WG/11 F WG/13	
052	G11B	E	JP	FR	E WG/11 F WG/13	
053	H02P	E	EP	EP	E WG/14 F WG/15	
054	G06Q	E	EP	EP	E WG/17 F WG/18	
055	F21	M	DE	CH	E WG/19	Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08 French version by 17.10.08/ Version française pour le 17.10.08
056	C07D	C	IE	EP	E WG/15 F WG/16	
057	G06F	E	EP	EP	E WG/15 F WG/16	

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D Project /Projet D...	Area/Domaine	Technology/Technique	Rapporteur	French version by/ Version française par	Status/ État d'avancement	Next actions/ Prochaines actions
058	B60K	M	EP	EP	E WG/18 F WG/19	Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08
059	H02K	E	EP	EP	E WG/15 F WG/16	
060	B60L	M	GB	CH	E WG/15 F WG/16	
061	C11D	C	GB	FR	E WG/13 F WG/14	
062	C12C	C	GB	EP	E WG/13 F WG/14	
063	C12G	C	GB	CH	E WG/13 F WG/14	
064	C12M	C	EP	EP	E WG/15 F WG/16	
065	C12Q	C	EP	EP	E WG/16 F WG/17	
066	C12S	C	US	FR	E WG/13 F WG/14	
067	A01D	M	SE	FR	E WG/19	French version by 17.10.08/ Version française pour le 17.10.08
068	A01F	M	SE	FR	E WG/19	French version by 17.10.08/ Version française pour le 17.10.08
069	A23K	M	SE			Comments by 12.09.08/ Observations pour le 12.09.08 Rapporteur report by 17.10.08/ Rapport du rapporteur pour le 17.10.08
070	A23L	M	GB	CH	E WG/15 F WG/16	Rapporteur report by 17.10.08/ Rapport du rapporteur pour le 17.10.08
071	A62D	C	EP	EP	E WG/15(3/00) E WG/19 F WG/15 (3/00)	French version by 17.10.08/ Version française pour le 17.10.08
072	G07F	E	EP	EP	E WG/15 F WG/16	
073	B03D	M	GB	EP	E WG/16 F WG/17	
074	B04B	M	GB	EP	E WG/17 F WG/18	
075	B04C	M	GB	EP	E WG/17 F WG/18	
076	B05B	M	GB	EP	E WG/18 F WG/19	Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08
077	B07B	M	GB	EP	E WG/18 F WG/19	Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08

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D Project /Projet D...	Area/Domaine	Technology/Technique	Rapporteur	French version by/ Version française par	Status/ État d'avancement	Next actions/ Prochaines actions
078	G21J	E	GB	FR	E WG/19	Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08 French version by 17.10.08/ Version française pour le 17.10.08
079	A63B	M	GB	CH	E WG/18 F WG/19	Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08
080	A63H	M	GB	CH	E WG/15 F WG/16	
081	B65D	M	GB	FR	E WG/18 F WG/19	Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08
082	G02F	E	EP	EP	E WG/15 F WG/16	
083	H01S	E	EP	EP	E WG/15 F WG/16	
084	H05C	E	GB	CH	E WG/15 F WG/16	
085	H05F	E	GB	CH	E WG/16 F WG/17	
086	H04M	E	SE			Rapporteur report by 12.09.08/ Rapport du rapporteur pour le 12.09.08 Comments by 17.10.08/ Observations pour le 10.10.08
087	H04Q	E	SE	FR	E WG/17 F WG/18	
088	C06B	C	EP	EP	E WG/16 F WG/17	
089	C23F	C	EP	EP	E WG/17 F WG/18	
090	C08F	C	GB	FR	E WG/15 F WG/16	
091	C08G	C	GB	FR	E WG/15 F WG/16	
092	C08H	C	GB	EP	E WG/16 F WG/17	
093	C08L	C	GB	EP	E WG/17 F WG/18	
094	C09D	C	GB	CH	E WG/16 F WG/17	
095	C09J	C	GB	CH	E WG/16 F WG/17	
096	C07B	C	SE	FR	E WG/17 F WG/18	
097	C07H	C	SE	FR	E WG/17 F WG/18	

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D Project /Projet D...	Area/Domaine	Technology/Technique	Rapporteur	French version by/ Version française par	Status/ État d'avancement	Next actions/ Prochaines actions
098	A61F	M	DE	FR	E WG/19	Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08 French version by 17.10.08/ Version française pour le 17.10.08
099	C02F	C	DE	CH	E WG/17 F WG/18	
100	C08K	C	DE	CH	E WG/19	Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08 French version by 17.10.08/ Version française pour le 17.10.08
101	F16C	M	DE			Comments by 12.09.08/ Observations pour le 12.09.08 Rapporteur report by 17.10.08/ Rapport du rapporteur pour le 17.10.08
102	F16D	M	DE			Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08
103	F16G	M	DE			Rapporteur report by 12.09.08/ Rapport du rapporteur pour le 12.09.08
104	A61C	M	US	FR	E WG/15 F WG/16	Comments by 12.09.08/ Observations pour le 12.09.08
105	A61D	M	US			Comments by 12.09.08/ Observations pour le 12.09.08
106	A61H	M	US			Comments by 12.09.08/ Observations pour le 12.09.08
107	A61J	M	US			Comments by 12.09.08/ Observations pour le 12.09.08
108	A61L	M	US			Comments by 12.09.08/ Observations pour le 12.09.08
109	A61M	M	US	FR		Comments by 12.09.08/ Observations pour le 12.09.08
110	C01D	C	IE			Initial proposal by 12.09.08/ Proposition initiale pour le 12.09.08
111	C01F	C	IE			Initial proposal by 12.09.08/ Proposition initiale pour le 12.09.08
112	C01B	C	US	EP	E WG/17 F WG/18	
113	C01C	C	US	EP	E WG/17 F WG/18	
114	C01G	C	US	EP	E WG/17 F WG/18	
115	C22C	C	US	EP	E WG/19	Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08 French version by 17.10.08/ Version française pour le 17.10.08

D Project /Projet D...	Area/Domaine	Technology/Technique	Rapporteur	French version by/ Version française par	Status/ État d'avancement	Next actions/ Prochaines actions
116	C22B	C	US	EP	E WG/19	Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08 French version by 17.10.08/ Version française pour le 17.10.08
117	C22F	C	US	EP	E WG/19	Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08 French version by 17.10.08/ Version française pour le 17.10.08
118	H01B	E	US	FR	E WG/16 F WG/17	
119	H01C	E	US	FR	E WG/15 F WG/16	
120	H01F	E	US	CH	E WG/16 F WG/17	
121	H01G	E	US	CH	E WG/17 F WG/18	
122	H01J	E	US	FR	E WG/17 F WG/18	
123	H01K	E	US	FR	E WG/16 F WG/17	
124	H04H	E	JP			Comments by 12.09.08/ Observations pour le 12.09.08 Rapporteur report by 17.10.08/ Rapport du rapporteur pour le 17.10.08
125	H04W	E	EP	EP	E WG/19	Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08 French version by 17.10.08/ Version française pour le 17.10.08
126	G10B	E	EP	EP		Suspended/ En suspens
127	G10C	E	EP	EP		Suspended/ En suspens
128	G10D	E	EP	EP		Suspended/ En suspens
129	G10F	E	EP	EP		Suspended/ En suspens
130	G10G	E	EP	EP		Suspended/ En suspens
131	G10H	E	EP	EP		Suspended/ En suspens
132	G10K	E	EP	EP		Suspended/ En suspens
133	G10L	E	EP	EP		Suspended/ En suspens

D Project /Projet D...	Area/Domaine	Technology/Technique	Rapporteur	French version by/ Version française par	Status/ État d'avancement	Next actions/ Prochaines actions
134	A45D	M	EP	EP		Rapporteur report by 12.09.08/ Rapport du rapporteur pour le 12.09.08
135	A47J	M	EP	EP		Rapporteur report by 12.09.08/ Rapport du rapporteur pour le 12.09.08
136	A63D	M	GB			Comments by 12.09.08/ Observations pour le 12.09.08
137	C10J	C	GB			Rapporteur report by 12.09.08/ Rapport du rapporteur pour le 12.09.08
138	H05B	E	GB	FR	E WG/19	Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08 French version by 17.10.08/ Version française pour le 17.10.08
139	F23Q	M	SE			Rapporteur report by 12.09.08/ Rapport du rapporteur pour le 12.09.08
140	F23R	M	SE			Comments by 12.09.08/ Observations pour le 12.09.08
141	C30B	C	US	EP	E WG/19	Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08 French version by 17.10.08/ Version française pour le 17.10.08
142	G12B	E	EP	EP		Initial proposal by 12.09.08/ Proposition initiale pour le 12.09.08
143	G21G	E	GB			Initial proposal by 12.09.08/ Proposition initiale pour le 12.09.08
144	B22F	M				Suspended/En suspens
145	B23Q	M				Suspended/En suspens
146	B24B	M				Suspended/En suspens
147	B24C	M				Suspended/En suspens
148	B25B	M				Suspended/En suspens
149	B25D	M				Suspended/En suspens
150	B25F	M				Suspended/En suspens
151	B25H	M				Suspended/En suspens
152	B26D	M				Suspended/En suspens
153	B27B	M				Suspended/En suspens
154	B27G	M				Suspended/En suspens
155	B42D	M				Suspended/En suspens
156	B43L	M				Suspended/En suspens
157	B44B	M				Suspended/En suspens
158	B44F	M				Suspended/En suspens
159	B63B	M				Suspended/En suspens
160	B65G	M				Suspended/En suspens
161	E01C	M				Suspended/En suspens

D Project /Projet D...	Area/Domaine	Technology/Technique	Rapporteur	French version by/ Version française par	Status/ État d'avancement	Next actions/ Prochaines actions
162	E01F	M				Suspended/En suspens
163	E03D	M				Suspended/En suspens
164	E04C	M				Suspended/En suspens
165	E04G	M				Suspended/En suspens
166	E04H	M				Suspended/En suspens
167	G06K	E	US			Comments by 12.09.08/ Observations pour le 12.09.08
168	H03K	E				Suspended/En suspens
169	E04F	M				Suspended/En suspens
170	G08G	E	EP	EP		Comments by 12.09.08/ Observations pour le 12.09.08 Rapporteur report by 17.10.08/ Rapport du rapporteur pour le 17.10.08
171	G01Q	E	JP			Rapporteur report by 25.07.08/ Rapport du rapporteur pour le 25.07.08 Comments by 12.09.08/ Observations pour le 12.09.08
172	G01D	E	EP	EP		Comments by 27.06.08/ Observations pour le 27.06.08 Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08
173	G01F	E	EP	EP		Comments by 27.06.08/ Observations pour le 27.06.08 Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08
174	G01G	E	EP	EP		Comments by 27.06.08/ Observations pour le 27.06.08 Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08
175	G01H	E	EP	EP		Comments by 12.09.08/ Observations pour le 12.09.08
176	G01J	E	EP	EP		Comments by 27.06.08/ Observations pour le 27.06.08 Rapporteur proposal by 12.09.08/ Proposition du rapporteur pour le 12.09.08
177	G01K	E	EP	EP		Comments by 12.09.08/ Observations pour le 12.09.08
178	G01L	E	EP	EP		Comments by 12.09.08/ Observations pour le 12.09.08
179	G01R	E	EP	EP		Initial proposal by 12.09.08/ Proposition initiale pour le 12.09.08
180	G01W	E	EP	EP		Comments by 12.09.08/ Observations pour le 12.09.08

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D Project /Projet D...	Area/Domaine	Technology/Technique	Rapporteur	French version by/ Version française par	Status/ État d'avancement	Next actions/ Prochaines actions
181	G08C	E	BR			Rapporteur report by 12.09.08/ Rapport du rapporteur pour le 12.09.08
182	G09B	E	EP	EP		Comments by 12.09.08/ Observations pour le 12.09.08
183	G09C	E	EP	EP		Comments by 12.09.08/ Observations pour le 12.09.08
184	G09D	E	EP	EP		Comments by 12.09.08/ Observations pour le 12.09.08
185	G09F	E	EP	EP		Comments by 12.09.08/ Observations pour le 12.09.08
186	G09G	E	EP	EP		Comments by 12.09.08/ Observations pour le 12.09.08
187	G21B	E	GB			Initial proposal by 12.09.08/ Proposition initiale pour le 12.09.08
188	G21C	E	GB			Initial proposal by 12.09.08/ Proposition initiale pour le 12.09.08
189	G21D	E	GB			Initial proposal by 12.09.08/ Proposition initiale pour le 12.09.08
190	G21F	E	GB			Initial proposal by 12.09.08/ Proposition initiale pour le 12.09.08
191	G21H	E	GB			Initial proposal by 12.09.08/ Proposition initiale pour le 12.09.08
192	G21K	E	GB			Initial proposal by 12.09.08/ Proposition initiale pour le 12.09.08
193	H04J	E	NO			Comments by 12.09.08/ Observations pour le 12.09.08
194	A23D	C	DE			Comments by 12.09.08/ Observations pour le 12.09.08
195	A23F	C	DE			Comments by 12.09.08/ Observations pour le 12.09.08
196	A23J	C	DE			Comments by 12.09.08/ Observations pour le 12.09.08
197	C14B	C	DE			Comments by 12.09.08/ Observations pour le 12.09.08
198	C14C	C	DE			Comments by 12.09.08/ Observations pour le 12.09.08
199	C12H	C	EP	EP		Comments by 12.09.08/ Observations pour le 12.09.08
200	C09F	C	EP	EP		Comments by 12.09.08/ Observations pour le 12.09.08
201	C06C	C	EP	EP		Comments by 12.09.08/ Observations pour le 12.09.08
202	C06D	C	EP	EP		Comments by 12.09.08/ Observations pour le 12.09.08

D Project /Projet D...	Area/Domaine	Technology/Technique	Rapporteur	French version by/ Version française par	Status/ État d'avancement	Next actions/ Prochaines actions
203	C06F	C	EP	EP		Comments by 12.09.08/ Observations pour le 12.09.08
204	C10B	C	GB			Comments by 12.09.08/ Observations pour le 12.09.08
205	C10C	C	GB			Comments by 12.09.08/ Observations pour le 12.09.08
206	C10F	C	GB			Comments by 12.09.08/ Observations pour le 12.09.08
207	C10G	C	GB			Comments by 12.09.08/ Observations pour le 12.09.08
208	C10H	C	GB			Comments by 12.09.08/ Observations pour le 12.09.08
209	C10K	C	GB			Comments by 12.09.08/ Observations pour le 12.09.08
210	C10M	C	GB			Comments by 12.09.08/ Observations pour le 12.09.08
211	C10N	C	GB			Comments by 12.09.08/ Observations pour le 12.09.08
212	C13B	C	DE			Initial proposal by 12.09.08/ Proposition initiale pour le 12.09.08
213	C13K	C	DE			Initial proposal by 12.09.08/ Proposition initiale pour le 12.09.08
214	G07D	E	EP			Initial proposal by 12.09.08/ Proposition initiale pour le 12.09.08

[Technical Annexes follow/
Les annexes techniques suivent]

TECHNICAL ANNEXES/ANNEXES TECHNIQUES

ANNEX 1E C12N [Project-Rapporteur : C436/IL] <WG19>

CL N 5/0735 *Embryonic stem cells; Embryonic germ cells*

CL N 15/873 *Techniques for producing new embryos, e.g. nuclear transfer, manipulation of totipotent cells or production of chimeric embryos*

CL N 15/877 *Techniques for producing new mammalian cloned embryos*

ANNEX 2E B29 [Project-Rapporteur : C441/SE] <WG19>

- CL M Note
B29
1. This class does not cover the working of plastics sheet material in a manner analogous to the working of paper, which is covered by class **B31**. [4]
 2. In this class, the following term is used with the meaning indicated:
 - "plastics" means macromolecular compounds or compositions based on such compounds.
 3. In this class, the following rules apply:
 - a. The working of plastics is, as far as possible, classified primarily according to the particular shaping technique used, e.g. in subclass **B29C**. [4]
 - b. Classification according to production of particular articles in subclass **B29D** is restricted to:
 - i. aspects which are characteristic for the production of a particular article, and not classifiable in subclass **B29B** or **B29C**;
 - ii. combined operations for making the particular article which are not fully classifiable in subclass **B29C**. [4]
 - c. *Products per se are not classified in this class. However, if a product is characterised by the way it is produced and not by its structure or composition, the production method should be classified in this class. [new.]*
-

ANNEX 3E B29C [Project-Rapporteur : C441/SE] <WG19>

CL M Title **SHAPING OR JOINING OF PLASTICS; SHAPING OF SUBSTANCES IN A PLASTIC STATE, IN GENERAL; AFTER- TREATMENT OF THE SHAPED PRODUCTS, e.g. REPAIRING** (working in the manner of metal **B23**; grinding, polishing **B24**; cutting **B26D**, **B26F**; making preforms **B29B 11/00**; making laminated products by combining previously unconnected layers which become one product whose layer will remain together **B32B 37/00-B32B 41/00**)

- CL M Note
1. Attention is drawn to Note (3) following the title of class **B29**. [4]

- B29C 2. In this subclass:
- repairing of articles made from plastics or substances in a plastic state, e.g. of articles shaped or produced by using techniques covered by this subclass or subclass **B29D**, is classified in group **B29C 73/00**;
 - component parts, details, accessories or auxiliary operations which are applicable to more than one moulding technique are classified in groups **B29C 31/00-B29C 37/00**;
 - component parts, details, accessories or auxiliary operations which are only applicable or only of use for one specific shaping technique are classified only in the relevant subgroups of groups **B29C 39/00-B29C 71/00**. [4,5]

ANNEX 4E **B29D** [Project-Rapporteur : C441/SE] <WG19>

CL M Note Attention is drawn to Note (3) following the title of class **B29**. [4]
 B29D

ANNEX 5E **B32B** [Project-Rapporteur : C441/SE] <WG19>

- CL M Note 1. This subclass covers :
 B32B
- layered products comprising different kinds of material or layered products not characterised by the particular kind of material used;
 - a product similar to a layered product but comprising only material in the form of a sheet or network embedded in a mass of plastics or of physically-similar substances which mass penetrates the said sheet or network and lies on both sides of the latter (e.g. so that the sheet or network reinforces the plastics substance) provided that the embedded sheet or network extends coherently or connectedly over substantially the whole area of the product; thus the embedded sheet or network may be a fabric or a series of rods connected by cross wires. The manner of making such a product is, however, classified in this subclass only if it is essentially a process of building-up an assembly of layers of which at least one outer layer is preformed. If the embedded material comprises only a series of unconnected rods, the product is not classified in this subclass.
2. This subclass does not cover :
- processes or apparatus used in, or in connection with, the production or treatment of any product, if the process or apparatus is solely applicable to and fully classifiable in a single other class or subclass for processes or apparatus, e.g. **B05**, **B29C**, **B29D**, **B44D**, **C08J**, **C09J** or **C23**;
 - compositions or preparation or treatment thereof, unless they are essentially restricted to layered products and cannot be fully classified in another class without ignoring this restriction;
 - etched metallic pattern on the surface of a printed circuit board. [3]
3. In this subclass, a film formed on a layer by spreading a substance thereon is not considered to constitute a layer itself if it serves only as an adhesive or its purpose

is merely to finish a surface of a product.

4. In this subclass, the following terms or expressions are used with the meanings indicated:
 - "layer" is a sheet or strip or anything else having a small thickness relatively to its other dimensions which, together with at least one other layer, exists in a product, whether it pre-existed, e.g. as a separate sheet or strip, or was formed during the production of the layered product. It may or may not be homogeneous or cohesive; it may be an assembly of fibres or pieces of material. It may be discontinuous, e.g. in the form of a grating, honeycomb, or frame. It may or may not be in complete contact with the next layer, e.g. a corrugated layer against a flat layer;
 - "layered product" comprises at least two layers secured together. The term "secured" includes any method of uniting layers, e.g. needling, stitching, gluing, nailing, dovetailing or the interposition of an adhesive or adhesive impregnated support. It may also be an intermediate stage in the production of an article which is not layered in its final form, e.g. a panel with a protective layer which is stripped off when the panel is placed in its position of use. The layers are preformed layers or layers formed in situ on a preformed layer and may consist of coherent solid materials, including honeycombs and other cellular materials or of non-coherent solid materials composed of assemblies of strands, strips, fibres, tiles or the like;
 - "filamentary layer" means a layer of threads or filaments of any substance (e.g. wires) of more or less unlimited length placed in an orderly arrangement and secured together; it may be woven, knitted, braided, or netted, or formed of threads crossed or laid side and bonded together;
 - "fibrous layer" means a random assembly of fibres or filaments, usually of limited length, e.g. felt, fleece; the fibres may or may not be interengaged or connected, e.g. by adhesive.
5. In groups **B32B 1/00-B32B 33/00**, at each level of indentation, in the absence of an indication to the contrary, classification is made in the first appropriate place.
6. *If a layered product is characterised by the way it is produced and not by its structure or composition, the production method should be classified in groups **B32B 37/00** or **B32B 38/00**, or in subclass **B29C**, for example in groups **B29C 45/16** or **B29C 47/06**. [new.]*
7. The classification of layered products is provided for in many classes, most of which are confined to a particular kind of material. However, in order that this subclass may provide a basis for making a complete search with respect to layered products, all relevant subject matter is classified in this subclass even though it may also be classified in other classes.

- CL M Note Processes using enzymes or micro-organisms in order:
C13 i. to liberate, separate or purify a pre-existing compound or composition, or
ii. to treat textiles or clean solid surfaces of materials

are further classified in subclass **C12S**. [5]

ANNEX 7E C13B [Project-Rapporteur : C443/DE] <WG19>

- CL N *Title* **PRODUCTION OF SUGARS; APPARATUS SPECIALLY ADAPTED THEREFOR**
(fermentation or enzyme-using processes for preparing compounds containing saccharide radicals **C12P 19/00**)
- CL N **5/00 Reducing the size of material from which sugars are to be extracted** (for extraction of starch **C08B 30/02**)
- CL N **10/00 Production of sugar juices, e.g. juices derived from beet, cane or maple** (tapping of tree-juices **A01G 23/10**; tapping-spouts, receptacles for juices **A01G 23/14**)
- CL N **15/00 Expressing water from material from which sugars have been extracted** (from starch-extracted material **C08B 30/10**)
- CL N **20/00 Purification of sugar juices**
- CL N **25/00 Evaporators or boiling pans specially adapted for sugar juices; Evaporating or boiling sugar juices**
- CL N **30/00 Crystallisation; Crystallising apparatus; Separating crystals from mother liquors**
- CL N **35/00 Extraction of sucrose from molasses**
- CL N **40/00 Drying sugar**
- CL N **45/00 Cutting machines specially adapted for sugar**
- CL N **50/00 Sugar products, e.g. powdered, lump or liquid sugar; Working-up of sugar** (**C13B 40/00**, **C13B 45/00** take precedence; confectionery **A23G 3/00**)
- CL N **99/00 Subject matter not provided for in other groups of this subclass**

ANNEX 8E C13K [Project-Rapporteur : C443/DE] <WG19>

- CL M *Title* **OBTAINING SACCHARIDES FROM NATURAL SOURCES OR BY HYDROLYSIS OF NATURALLY OCCURRING DI-, OLIGO- OR POLYSACCHARIDES** (fermentation or enzyme-using processes for preparing compounds containing saccharide radicals **C12P 19/00**)
-

ANNEX 9E G07D [Project-Rapporteur : C447/EP] <WG19>

CL M Title **HANDLING OF COINS OR OF PAPER CURRENCY OR SIMILAR VALUABLE PAPERS, e.g. TESTING, SORTING BY DENOMINATIONS, COUNTING, DISPENSING, CHANGING OR DEPOSITING**

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

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

CL M 1/00 **Coin dispensers**

CL M 1/02 • giving change

CL M 3/00 **Sorting a mixed bulk of coins or of paper currency or similar valuable papers into denominations**

AL M 3/02 • Sorting coins by means of graded apertures

AL M 3/12 • Sorting coins by means of stepped deflectors

CL M 5/00 **Testing specially adapted to determine the identity or genuineness of coins, e.g. for segregating coins which are unacceptable or alien to a currency**

CL M 7/00 **Testing specially adapted to determine the identity or genuineness of paper currency or similar valuable papers, e.g. for segregating those which are unacceptable or alien to a currency**

CL M 9/00 **Counting of coins or of paper currency or similar valuable papers; Handling of coins or of paper currency or similar valuable papers, not provided for in the other groups of this subclass**

CL M 9/04 • Hand- or motor-driven devices for counting coins

CL M 11/00 **Devices accepting coins; Devices accepting paper currency or similar valuable papers, e.g. depositing machines** (coin-freed or like apparatus **G07F**, e.g. complete banking systems **G07F 19/00**)

CL M 13/00 **Handling of coins or of paper currency or similar valuable papers, characterised by a combination of mechanisms not covered by a single one of groups **G07D 1/00-G07D 11/00****

ANNEXE 10F C23C [Projet-Rapporteur : C448/JP] <WG19>
[Tr.: IB]

CL M Titre **REVÊTEMENT DE MATÉRIAUX MÉTALLIQUES; REVÊTEMENT DE MATÉRIAUX AVEC DES MATÉRIAUX MÉTALLIQUES; TRAITEMENT DE SURFACE DE MATÉRIAUX MÉTALLIQUES PAR DIFFUSION DANS LA**

SURFACE, PAR CONVERSION CHIMIQUE OU SUBSTITUTION; REVÊTEMENT PAR ÉVAPORATION SOUS VIDE, PAR PULVÉRISATION CATHODIQUE, PAR IMPLANTATION D'IONS OU PAR DÉPÔT CHIMIQUE EN PHASE VAPEUR, EN GÉNÉRAL (application de liquides ou d'autres matériaux fluides sur les surfaces, en général **B05**; fabrication de produits revêtus de métal par extrusion **B21C 23/22**; revêtement métallique par liaison d'objets avec des couches préexistantes, voir les classes appropriées, p.ex. **B21D 39/00**, **B23K**; usinage du métal par action d'une forte concentration de courant électrique sur un objet au moyen d'une électrode **B23H**; métallisation du verre **C03C**; métallisation des mortiers, du béton, de la pierre artificielle, des céramiques ou de la pierre naturelle **C04B 41/00**; peintures, vernis, laques **C09D**; émaillage ou glaçage des métaux **C23D**; moyens pour empêcher la corrosion des matériaux métalliques, l'entartrage ou les incrustations, en général **C23F**; croissance de couches monocristallines **C30B**; fabrication de dispositifs semi-conducteurs **H01L**; fabrication de circuits imprimés **H05K**)

ANNEX 11E G01L [Project-Rapporteur : C448/JP] <WG19>

CL M Title **MEASURING FORCE, STRESS, TORQUE, WORK, MECHANICAL POWER, MECHANICAL EFFICIENCY, OR FLUID PRESSURE** (methods or devices for measuring specially adapted for metal-rolling mills **B21B 38/00**; sensing pressure changes for compensating measurements of other variables or for compensating readings of instruments for variations in pressure, see **G01D** or other relevant subclasses for the variable measured; weighing **G01G**; converting a pattern of forces into electrical signals **G06K 11/00**)

ANNEXE 11F G01L [Projet-Rapporteur : C448/JP] <WG19>
[Tr.: IB]

CL M Titre **MESURE DES FORCES, DES CONTRAINTES, DES COUPLES, DU TRAVAIL, DE LA PUISSANCE MÉCANIQUE, DU RENDEMENT MÉCANIQUE OU DE LA PRESSION DES FLUIDES** (procédés ou dispositifs de mesure spécialement adaptés aux laminoirs **B21B 38/00**; détection des changements de pression pour compenser les mesures d'autres variables ou compenser les lectures des instruments en fonction des variations de pression, voir **G01D** ou autres sous-classes appropriées pour la variable mesurée; pesée **G01G**; transformation d'une configuration de forces en signaux électriques **G06K 11/00**)

ANNEXE 12F G01N [Projet-Rapporteur : C448/JP] <WG19>
[Tr.: IB]

CL M 13/00 **Recherche des effets de surface ou de couche limite, p.ex. pouvoir mouillant; Recherche des effets de diffusion; Analyse des matériaux en déterminant les effets superficiels, limites ou de diffusion** (techniques ou appareils à sonde à balayage **G01Q**)

CL D 13/10 (transféré en **G01Q 10/00-G01Q 90/00**)

- AL D 13/12 (transféré en [G01Q 60/10](#))
- AL D 13/14 (transféré en [G01Q 60/18](#))
- AL D 13/16 (transféré en [G01Q 60/24](#))
- AL D 13/18 (transféré en [G01Q 60/44](#))
- AL D 13/20 (transféré en [G01Q 60/46](#))
- AL D 13/22 (transféré en [G01Q 60/50](#))
- AL D 13/24 (transféré en [G01Q 60/60](#))

ANNEX 13E G01Q [Project-Rapporteur : C448/JP] <WG19>

- CL D 50/00 < Delete new entry >
- CL N **80/00 Applications, other than SPM, of scanning-probe techniques** (manufacture or treatment of micro-structures [B81C](#); manufacture or treatment of nano-structures [B82B 3/00](#); recording or reproducing information using near-field interaction [G11B 9/12](#), [G11B 11/24](#) or [G11B 13/08](#))
- CL N **90/00 Scanning-probe techniques or apparatus not otherwise provided for**

ANNEXE 13F G01Q [Projet-Rapporteur : C448/JP] <WG19>
[Tr.: IB]

- CL N **Titre TECHNIQUES OU APPAREILS À SONDE À BALAYAGE; APPLICATIONS DES TECHNIQUES DE SONDE À BALAYAGE, p.ex. MICROSCOPIE À SONDE À BALAYAGE [SPM]**
- CL N *Note* Dans cette sous-classe, la règle de la première place est appliquée, c. à d. à chaque niveau G01Q hiérarchique, le classement s'effectue à la première place appropriée. **[new.]**
- CL N **10/00 Dispositions pour le balayage ou le positionnement, c. à d. dispositions pour commander de manière active le mouvement ou la position de la sonde**
- CL N **20/00 Contrôle du mouvement ou de la position de la sonde**
- CL N **30/00 Moyens auxiliaires destinés à assister ou améliorer les techniques ou les appareils à sonde à balayage, p.ex. dispositifs d'affichage ou de traitement de données**
- CL N **40/00 Étalonnage, p.ex. des sondes**
- CL N **60/00 Types particuliers de microscopie à sonde à balayage SPM [Scanning-Probe Microscopy] ou appareils à cet effet; Composants essentiels de ceux-ci**

- CL N 60/02 • *Microscopie à sonde à balayage de type multiple, c. à d. incluant deux ou plus de deux techniques SPM*
- CL N 60/10 • *Microscopie à effet tunnel à balayage STM [Scanning Tunnelling Microscopy] ou appareils à cet effet, p.ex. sondes STM*
- CL N 60/18 • *Microscopie optique à champ proche à balayage SNOM [Scanning Near-Field Optical Microscopy] ou appareils à cet effet, p.ex. sondes SNOM*
- CL N 60/24 • *Microscopie à forces atomiques AFM [Atomic Force Microscopy] ou appareils à cet effet, p.ex. sondes AFM*
- CL N 60/44 • *Microscopie à conductance ionique à balayage SICM [Scanning Ion-Conductance Microscopy] ou appareils à cet effet, p.ex. sondes SICM*
- CL N 60/46 • *Microscopie capacitive à balayage SCM [Scanning Capacitance Microscopy] ou appareils à cet effet, p.ex. sondes SCM*
- CL N 60/50 • *Microscopie à forces magnétiques MFM [Magnetic Force Microscopy] ou appareils à cet effet, p.ex. sondes MFM*
- CL N 60/58 • *Microscopie thermique à balayage SThM [Scanning Thermal Microscopy] ou appareils à cet effet, p.ex. sondes SThM*
- CL N 60/60 • *Microscopie électrochimique à balayage SECM [Scanning Electro-Chemical Microscopy] ou appareils à cet effet, p.ex. sondes SECM*
- CL N 70/00 *Aspects généraux des sondes SPM, leur fabrication ou leur instrumentation correspondante, dans la mesure où ces sondes ne sont pas spécialement adaptées à une seule technique SPM couverte par le groupe **G01Q 60/00***
- CL N 80/00 *Applications des techniques de sonde à balayage, autres que les techniques SPM (fabrication ou traitement des microstructures **B81C**; fabrication ou traitement des nanostructures **B82B 3/00**; enregistrement ou reproduction d'informations utilisant des interactions en champ proche **G11B 9/12**, **G11B 11/24** ou **G11B 13/08**)*
- CL N 90/00 *Techniques ou appareils à sonde à balayage non prévus ailleurs*

ANNEXE 14F G02B [**Projet-Rapporteur : C448/JP**] <WG19>
[Tr.: IB]

- CL M 21/00 **Microscopes** (oculaires **G02B 25/00**; systèmes polarisants **G02B 27/28**; microscopes de mesure **G01B 9/04**; microtomes **G01N 1/06**; techniques ou appareils à sonde à balayage **G01Q**)

ANNEX 15E G12B [**Project-Rapporteur : C448/JP**] <WG19>

- AL D 21/12 (transferred to **G01Q 60/24**)
-

ANNEXE 15F G12B [**Projet-Rapporteur : C448/JP**] <WG19>
[Tr.: IB]

- CL M 3/00 **Détails de mouvements non prévus ailleurs** (amortissement de chocs ou de vibrations en général **F16F**; moyens d'éviter le déséquilibre des forces **F16F 15/00**; essai d'équilibrage **G01M**)
- CL D 21/00 (transféré en **G01Q 10/00-G01Q 90/00**)
- CL D Note < Supprimée >
21/00
- AL D 21/02 (transféré en **G01Q 60/00-G01Q 70/00**)
- AL D 21/04 (transféré en **G01Q 60/10**)
- AL D 21/06 (transféré en **G01Q 60/18**)
- AL D 21/08 (transféré en **G01Q 60/24**)
- AL D 21/10 (transféré en **G01Q 60/50**)
- AL D 21/12 (transféré en **G01Q 60/24**)
- AL D 21/20 (transféré en **G01Q 10/00**)
- AL D 21/22 (transféré en **G01Q 10/00**)
- AL D 21/24 (transféré en **G01Q 10/00**)
-

ANNEXE 16F H01J [**Projet-Rapporteur : C448/JP**] <WG19>
[Tr.: IB]

- CL M 37/00 **Tubes à décharge pourvus de moyens permettant l'introduction d'objets ou d'un matériau à exposer à la décharge, p.ex. pour y subir un examen ou un traitement** (**H01J 33/00, H01J 40/00, H01J 41/00, H01J 47/00, H01J 49/00** ont priorité; techniques ou appareils à sonde à balayage **G01Q**; essais sans contact de circuits électroniques utilisant des faisceaux électroniques **G01R 31/305**)
-

ANNEX 17E A01N [**Project-Rapporteur : C450/EP**] <WG19>

- CL M 63/00 **Biocides, pest repellants or attractants, or plant growth regulators containing micro-organisms, viruses, microbial fungi, animals, e.g. nematodes, or substances produced by, or obtained from micro-organisms, viruses, microbial fungi or animals, e.g. enzymes or fermentates** (containing compounds of determined constitution **A01N 27/00-A01N 59/00**)

CL M 63/02 · Substances produced by, or obtained from, micro-organisms or animals

CL M 63/04 · Microbial fungi; Substances produced thereby or obtained therefrom

ANNEX 18E G10L [Project-Rapporteur : C451/EP] <WG19>

CL M Title **SPEECH ANALYSIS OR SYNTHESIS; SPEECH RECOGNITION; AUDIO ANALYSIS OR PROCESSING**

Info.

CL N Note This subclass does not cover:

G10L

- devices for the storage of speech or audio signals, which are covered by subclasses **G11B** and **G11C**; [new.]
- encoding of compressed speech signals for transmission or storage, which is covered by group **H03M 7/30**. [new.]

CL M **11/00 Determination or detection of speech or audio characteristics not restricted to a single one of groups G10L 15/00-G10L 21/00**

AL M 11/02 · Detection of presence or absence of speech signals

Info.

CL M **13/00 Speech synthesis; Text to speech systems**

AL M 13/04 · · Details of speech synthesis systems, e.g. synthesiser structure or memory management

AL M 13/08 · Text analysis or generation of parameters for speech synthesis out of text, e.g. grapheme to phoneme translation, prosody generation or stress or intonation determination

AL M 15/08 · Speech classification or search

Info.

AL M 15/12 · · using dynamic programming techniques, e.g. Dynamic Time Warping [DTW]

AL M 15/14 · · using statistical models, e.g. Hidden Markov Models [HMM] (**G10L 15/18** takes precedence)

AL M 15/20 · Speech recognition techniques specially adapted for robustness in adverse environments, e.g. in noise or of stress induced speech (**G10L 21/02** takes precedence)

CL M **19/00 Speech or audio signal analysis-synthesis techniques for redundancy reduction, e.g. in vocoders; Coding or decoding of speech or audio signals, e.g. for compression or expansion, source-filter models or psychoacoustic analysis**

AL M 19/02 · using spectral analysis, e.g. transform vocoders or subband vocoders

AL M 19/12 · · · Determination or coding of a code excitation, e.g. in code excited linear prediction [CELP] vocoders

AL M 19/14 · · Details not provided for in groups **G10L 19/06-G10L 19/12**, e.g. gain coding, post filtering design or vocoder structure

- AL M 21/00 **Processing of the speech signal to produce another audible or non-audible signal, e.g. visual or tactile, in order to modify its quality or its intelligibility (G10L 19/00 takes precedence)**
- CL M 21/00 **Processing of the speech signal to produce another audible or non-audible signal, e.g. visual or tactile, in order to modify its quality or its intelligibility (G10L 19/00 takes precedence; speech to text systems G10L 15/00)**
- AL M 21/02 • Speech enhancement, e.g. noise reduction or echo cancellation (reducing echo effects in line transmission systems H04B 3/20; echo suppression in hand-free telephones H04M 9/08)
Info.
- AL M 21/06 • Transformation of speech into a non-audible representation, e.g. speech visualisation or speech processing for tactile aids (G10L 15/26 takes precedence)
-

ANNEXE 18F G10L [**Projet-Rapporteur : C451/EP**] <WG19>
[Tr.: EP]

CL M **Titre ANALYSE OU SYNTHÈSE DE LA PAROLE; RECONNAISSANCE DE LA PAROLE; ANALYSE OU TRAITEMENT DES SIGNAUX AUDIO**

Info.

- CL N *Note* Cette sous-classe ne couvre pas :
G10L
- les dispositifs pour le stockage des signaux audio ou de parole, qui sont couverts par les sous-classes G11B et G11C; [new.]
 - le codage des signaux de parole compressés pour la transmission ou le stockage, qui est couvert par le groupe H03M 7/30. [new.]

CL M 11/00 **Détermination ou détection des caractéristiques de la parole ou des signaux audio qui ne se limitent pas à un seul des groupes G10L 15/00-G10L 21/00**

AL M 11/02 • Détection de présence ou d'absence de signaux de parole

Info.

CL M 13/00 **Synthèse de la parole; Systèmes de synthèse de la parole à partir de texte**

AL M 13/04 • • Détails des systèmes de synthèse de la parole, p.ex. structure du synthétiseur ou gestion de mémoire

AL M 13/08 • Analyse de texte ou génération de paramètres pour la synthèse de la parole à partir de texte, p.ex. conversion graphème-phonème, génération de prosodie ou détermination de l'intonation ou de l'accent tonique

AL M 15/08 • Classement ou recherche de la parole

Info.

AL M 15/12 • • utilisant des techniques de programmation dynamique, p.ex. normalisation temporelle par comparaison dynamique [DTW]

- AL M 15/14 · · utilisant des modèles statistiques, p.ex. des modèles de Markov cachés [HMM] (**G10L 15/18** a priorité)
- AL M 15/20 · Techniques de reconnaissance de la parole spécialement adaptées de par leur robustesse contre les perturbations environnantes, p.ex. en milieu bruyant ou reconnaissance de la parole émise dans une situation de stress (**G10L 21/02** a priorité)
- CL M **19/00 Techniques d'analyse ou de synthèse de la parole ou des signaux audio pour la réduction de la redondance, p.ex. dans les vocodeurs; Codage ou décodage de la parole ou des signaux audio, p.ex. pour la compression ou l'expansion, les modèles filtre-source ou l'analyse psychoacoustique**
- AL M 19/02 · utilisant l'analyse spectrale, p.ex. vocodeurs à transformée ou vocodeurs à sous-bandes
- AL M 19/12 · · · Détermination ou codage d'une excitation codée, p.ex. dans les vocodeurs à prédiction linéaire excités par code [CELP]
- AL M 19/14 · · Détails non prévus dans les groupes **G10L 19/06-G10L 19/12**, p.ex. codage du gain, conception du post-filtrage ou structure du vocodeur
- AL M **21/00 Traitement du signal de parole pour produire un autre signal audible ou non audible, p.ex. visuel ou tactile, afin de modifier sa qualité ou son intelligibilité** (**G10L 19/00** a priorité)
- CL M **21/00 Traitement du signal de parole pour produire un autre signal audible ou non audible, p.ex. visuel ou tactile, afin de modifier sa qualité ou son intelligibilité** (**G10L 19/00** a priorité; systèmes de synthèse de texte à partir de la parole **G10L 15/00**)
- AL M 21/02 · Amélioration de l'intelligibilité de la parole, p.ex. réduction de bruit ou annulation d'écho (réduction des effets d'écho dans les systèmes à ligne de transmission **H04B 3/20**; suppression d'écho dans les téléphones mains libres **H04M 9/08**)
- Info.**
- AL M 21/06 · Transformation de la parole en une représentation non audible, p.ex. visualisation de la parole ou traitement de la parole pour les aides tactiles (**G10L 15/26** a priorité)

ANNEX 19E H01L [Project-Rapporteur : D011/DE] <WG19>

- CL M Title **SEMICONDUCTOR DEVICES; ELECTRIC SOLID STATE DEVICES NOT OTHERWISE PROVIDED FOR** (use of semiconductor devices for measuring **G01**; details of scanning-probe apparatus, in general **G12B 21/00**; resistors in general **H01C**; magnets, inductors, transformers **H01F**; capacitors in general **H01G**; electrolytic devices **H01G 9/00**; batteries, accumulators **H01M**; waveguides, resonators, or lines of the waveguide type **H01P**; line connectors, current collectors **H01R**; stimulated-emission devices **H01S**; electromechanical resonators **H03H**; loudspeakers, microphones, gramophone pick-ups or like acoustic electromechanical transducers **H04R**; electric light sources in general **H05B**; printed circuits, hybrid circuits, casings or constructional details of electrical apparatus, manufacture of assemblages of electrical components **H05K**; use of semiconductor devices in circuits having a particular application, see the subclass for the application)
-

ANNEXE 19F H01L [**Projet-Rapporteur : D011/DE**] <WG19>
[Tr.:]

CL M **Titre DISPOSITIFS À SEMI-CONDUCTEURS; DISPOSITIFS ÉLECTRIQUES À L'ÉTAT SOLIDE NON PRÉVUS AILLEURS** (emploi de dispositifs à semi-conducteurs pour les mesures **G01**; détails d'appareils à sonde à balayage, en général **G12B 21/00**; résistances en général **H01C**; aimants, inductances, transformateurs **H01F**; condensateurs en général **H01G**; dispositifs électrolytiques **H01G 9/00**; piles, accumulateurs **H01M**; guides d'ondes, résonateurs ou lignes du type guide d'ondes **H01P**; connecteurs de lignes, collecteurs de courant **H01R**; dispositifs d'émission stimulée **H01S**; résonateurs électromécaniques **H03H**; haut-parleurs, microphones, têtes de lecture pour tourne-disques ou transducteurs acoustiques électromécaniques analogues **H04R**; sources le lumière électrique en général **H05B**; circuits imprimés, circuits hybrides, enveloppes ou détails de construction d'appareils électriques, fabrication d'ensembles de composants électriques **H05K**; emploi de dispositifs à semi-conducteurs dans des circuits ayant une application particulière, voir la sous-classe relative à l'application)

ANNEX 20E A44B [**Project-Rapporteur : D012/US**] <WG19>

CL M **1/00 Buttons**

AL M 1/06 · Assembling of buttons

CL M **9/00 Hat, scarf, or safety pins or the like** (decorative or ornamental aspect **A44C**; hair pins **A45D 8/02**)

AL M 9/06 · · Hat-pins

CL M **18/00 Fasteners of the touch-and-close type; Making such fasteners**

AL M 19/48 · · · · Arranging interlocking members before securing

ANNEXE 20F A44B [**Projet-Rapporteur : D012/US**] <WG19>
[Tr.:]

CL M **1/00 Boutons**

AL M 1/06 · Montage des boutons

CL M **9/00 Épingles à chapeaux, épingles de cravates, épingles de sûreté ou dispositifs analogues** (aspect décoratif ou ornemental **A44C**; épingles à cheveux **A45D 8/02**)

AL M 9/06 · · Épingles à chapeaux

CL M **18/00 Fermetures du type à éléments d'accrochage par contact; Fabrication de telles fermetures**

AL M 19/48 · · · · Disposition des éléments d'accrochage avant leur fixation

ANNEX 21E A61N [Project-Rapporteur : D014/US] <WG19>

- CL M **1/00 Electrotherapy; Circuits therefor** (**A61N 2/00** takes precedence; electrically conductive preparations for use in therapy or testing in vivo **A61K 50/00**)
- CL M 1/08 · · Arrangements or circuits for monitoring, protecting, controlling or indicating (for a single specific type of apparatus **A61N 1/10-A61N 1/44**)
- CL M 1/38 · · · · for producing shock effects
- CL M 1/40 · Applying electric fields by inductive or capacitive coupling
- CL M **5/00 Radiation therapy** (devices or apparatus applicable to both therapy and diagnosis **A61B 6/00**; applying radioactive material to the body **A61M 36/00**)
-

ANNEXE 21F A61N [Projet-Rapporteur : D014/US] <WG19>
[Tr.:]

- CL M **1/00 Électrothérapie; Circuits à cet effet** (**A61N 2/00** a priorité; préparations conductrices de l'électricité utilisées pour la thérapie ou pour l'examen in vivo **A61K 50/00**)
- CL M 1/08 · · Aménagements ou circuits de surveillance, de protection, de commande ou d'indication (pour un seul type particulier d'appareillage **A61N 1/10-A61N 1/44**)
- CL M 1/38 · · · · pour produire des effets de choc
- CL M 1/40 · Application de champs électriques par couplage inductif ou capacitif
- CL M **5/00 Thérapie par radiations** (dispositifs ou appareils applicables à la fois à la thérapie et au diagnostic **A61B 6/00**; application de matériau radioactif au corps **A61M 36/00**)
-

ANNEX 22E E01D [Project-Rapporteur : D031/US] <WG19>

- CL M **15/00 Movable or portable bridges** (arrangement of ship-based outboard ramps or gangways only **B63B 27/00**) ; **Floating bridges** (floating bodies or pontoons **B63B**; loading ramps **B65G 69/00**)
- AL M **15/00 Movable or portable bridges** (arrangement of ship-based outboard ramps or gangways **B63B 27/14**; loading ramps **B65G 69/28**) ; **Floating bridges**
- AL M 15/24 · Bridges or similar structures, based on land or on a fixed structure and designed to give access to ships or other floating structures
- CL M **19/00 Details of bridges**

- AL M 19/06 · Arrangement, construction, or bridging of expansion joints
- AL M 19/10 · Railings; Protectors against smoke or gases, e.g. of locomotives; Maintenance travellers; Fastening of pipes or cables to bridges
- CL M 19/12 · Grating or flooring for bridges; Fastening railway sleepers or tracks to bridges

ANNEXE 22F E01D [**Projet-Rapporteur : D031/US**] <WG19>
[Tr.:]

- CL M **15/00 Ponts mobiles ou transportables** (aménagements de rampes ou de coupées extérieures sur only des navires **B63B 27/00**) ; **Ponts flottants** (flotteurs ou pontons **B63B**; rampes de chargement **B65G 69/00**)
- AL M **15/00 Ponts mobiles ou transportables** (aménagements de rampes ou de coupées extérieures sur des navires **B63B 27/14**; rampes de chargement **B65G 69/28**) ; **Ponts flottants**
- AL M 15/24 · Ponts ou structures similaires, établis sur le sol ou sur une structure fixe et prévus pour donner accès à des navires ou d'autres structures flottantes
- CL M **19/00 Détails des ponts**
- AL M 19/06 · Disposition, structure ou recouvrement des joints de dilatation
- AL M 19/10 · Parapets; Dispositifs de protection contre la fumée ou les gaz, p.ex. des locomotives; Passerelles d'entretien; Fixation des tuyaux ou câbles aux ponts
- CL M 19/12 · Caillebotis ou planchéage des ponts; Fixation des traverses de rails ou de voies sur les ponts

ANNEX 23E A01D [**Project-Rapporteur : D067/SE**] <WG19>

- CL M **3/00 Non-abrasive sharpening devices for scythes, sickles, or the like**
- CL M **5/00 Containers for whetstones for use during harvesting**
- CL M **7/00 Rakes** (mowers convertible to rakes or capable of raking **A01D 42/02**; mowers combined with rakes **A01D 43/02**)
- AL M 23/04 · cutting the tops after being lifted
- CL M **37/00 Reaper-binders** (equipment thereon for binding harvested or mown produce, e.g. knotters, **A01D 59/00**)
- CL M **41/00 Combines, i.e. harvesters or mowers combined with threshing devices**
- CL M **59/00 Equipment for binding harvested or mown produce** (specially adapted for baling presses **A01F 15/14**)

- AL M 59/12 • Containers for the twine
 - CL M **61/00 Elevators or conveyers for binders or combines**
 - AL M 75/08 • Sharpening apparatus fixed to the harvester or mower
 - AL M 75/18 • Safety devices for parts of the machines
 - AL M 75/20 • Devices for protecting men or animals
 - CL M **87/00 Loaders for hay or like field crops** (combined with mowers [A01D 43/06](#))
 - CL M **90/00 Vehicles for carrying harvested crops with means for selfloading or unloading**
(combined with mowers [A01D 43/06](#))
-

ANNEXE 23F A01D [**Projet-Rapporteur : D067/SE**] <WG19>
[Tr.:]

- CL M **3/00 Dispositifs non abrasifs pour l'affûtage des faux, faucilles ou analogues**
- CL M **5/00 Étuis pour pierres à aiguiser, utilisés pendant la récolte**
- CL M **7/00 Râteaux** (faucheuses convertibles en râteaux ou capables de ratisser [A01D 42/02](#);
faucheuses combinées avec des râteaux [A01D 43/02](#))
- AL M 23/04 • décolletage après l'arrachage
- CL M **37/00 Moissonneuses-lieuses** (équipement de ces machines pour lier les produits récoltés ou fauchés, p.ex. noueurs, [A01D 59/00](#))
- CL M **41/00 Moissonneuses-batteuses, c. à d. moissonneuses ou faucheuses combinées avec des dispositifs de battage**
- CL M **59/00 Équipement pour lier les produits récoltés ou fauchés** (spécialement conçu pour les presses de mise en balles [A01F 15/14](#))
- AL M 59/12 • Bacs supports pour ficelle
- CL M **61/00 Élévateurs ou transporteurs pour moissonneuses- lieuses ou moissonneuses-batteuses**
- AL M 75/08 • Dispositifs d'affûtage fixés sur la moissonneuse ou la faucheuse
- AL M 75/18 • Dispositifs de sécurité pour certaines parties des machines
- AL M 75/20 • Dispositifs de protection des hommes ou des animaux
- CL M **87/00 Chargeurs à foin ou à récolte similaire** (combinés avec des faucheuses [A01D 43/06](#))
- CL M **90/00 Véhicules pour le transport des récoltes moissonnées munis de moyens pour leur chargement ou déchargement** (combinés avec des faucheuses [A01D 43/06](#))

ANNEX 24E A62D [Project-Rapporteur : D071/EP] <WG19>

CL M 1/00 **Fire-extinguishing compositions; Use of chemical substances in extinguishing fires**

AL M 7/02 • Clear-view sheets which prevent the formation of water drops or ice

CL M 9/00 **Composition of chemical substances for use in breathing apparatus**

ANNEXE 24F A62D [Projet-Rapporteur : D071/EP] <WG19>
[Tr.:]

CL M 1/00 **Compositions pour éteindre les incendies; Emploi de produits chimiques pour éteindre les incendies**

AL M 7/02 • Couches antibuée empêchant la formation de gouttes d'eau ou de givre

CL M 9/00 **Composition des substances chimiques utilisées dans les appareils respiratoires**

ANNEX 25E C30B [Project-Rapporteur : D141/US] <WG19>

AL M 13/20 • • by induction, e.g. hot wire technique (**C30B 13/18** takes precedence)

AL M 13/28 • Controlling or regulating

CL M 29/00 **Single crystals or homogeneous polycrystalline material with defined structure characterised by the material or by their shape**

AL M 31/18 • • Controlling or regulating

CL M 33/00 **After-treatment of single crystals or homogeneous polycrystalline material with defined structure (**C30B 31/00** takes precedence)**

ANNEXE 25F C30B [Projet-Rapporteur : D141/US] <WG19>
[Tr.:]

AL M 13/20 • • par induction, p.ex. technique du fil chaud (**C30B 13/18** a priorité)

AL M 13/28 • Commande ou régulation

CL M 29/00 **Monocristaux ou matériaux polycristallins homogènes de structure déterminée caractérisés par leurs matériaux ou par leur forme**

AL M 31/18 · · Commande ou régulation

CL M **33/00 Post-traitement des monocristaux ou des matériaux polycristallins homogènes de structure déterminée (C30B 31/00 a priorité)**

ANNEX 26E A44B [Project-Rapporteur : M099/IB] <WG19>

CL M Subclass
index

BUTTONS; CARDS THEREFOR	1/00-5/00; 7/00
SLIDE FASTENERS	19/00
OTHER CLAMPING OR HOLDING DEVICES	6/00-18/00, 99/00

CL D 21/00 (transferred to **A44B 99/00**)

CL N **99/00 Subject matter not provided for in other groups of this subclass**

ANNEXE 26F A44B [Projet-Rapporteur : M099/IB] <WG19>
[Tr.: IB]

CL M Schéma
général

BOUTONS; CARTES POUR BOUTONS	1/00-5/00; 7/00
FERMETURES À CURSEUR	19/00
AUTRES SYSTÈMES D'ATTACHE OU DE FIXATION	6/00-18/00, 99/00

CL D 21/00 (transféré en **A44B 99/00**)

CL N **99/00 Matière non prévue dans les autres groupes de la présente sous-classe**

ANNEX 27E A62C [Project-Rapporteur : M099/IB] <WG19>

CL M Subclass
index

FIRE PREVENTION OR CONTAINMENT; FIRE-EXTINGUISHING FOR PARTICULAR OBJECTS OR PLACES	
Prevention or containment	2/00
Flame traps	4/00
For particular objects or places	3/00
MAKING FIRE-EXTINGUISHING MATERIALS BEFORE USE	5/00

HAND TOOLS OR ACCESSORIES	8/00
PORTABLE EXTINGUISHERS	
According to operating principle	11/00, 13/00, 19/00, 25/00
Knapsack type	15/00
Pistol or rifle type	17/00
FIRE-FIGHTING VEHICLES	
Land vehicles	27/00
Boats	29/00
DELIVERY OF FIRE-EXTINGUISHING MATERIALS	31/00
HOSE ACCESSORIES	33/00
STATIONARILY-INSTALLED EQUIPMENT	35/00
CONTROL OF FIRE-FIGHTING EQUIPMENT	37/00
OTHER METHODS, EQUIPMENT OR ACCESSORIES	99/00

CL D 39/00 (transferred to **A62C 99/00**)

CL N **99/00** *Subject matter not provided for in other groups of this subclass*

ANNEXE 27F A62C [**Projet-Rapporteur : M099/IB**] <WG19>
[Tr.: IB]

CL M Schéma
général

PRÉVENTION OU LIMITATION DES INCENDIES; EXTINCTION DES INCENDIES POUR DES OBJETS OU DES ENDROITS PARTICULIERS	
Prévention ou limitation	2/00
Pièges à flammes	4/00
Pour des objets ou des endroits particuliers	3/00
FABRICATION DE SUBSTANCES EXTINGUANTES AVANT L'EMPLOI	5/00
OUTILS À MAIN OU ACCESSOIRES	8/00
EXTINCTEURS PORTATIFS	
Selon le principe de fonctionnement	11/00, 13/00, 19/00, 25/00
Du type havresac	15/00
En forme de pistolets ou de fusils	17/00
VÉHICULES DE LUTTE CONTRE L'INCENDIE	
Véhicules terrestres	27/00
Bateaux-pompes	29/00
ÉMISSION DE SUBSTANCES EXTINGUANTES	31/00
ACCESSOIRES POUR TUYAUX	33/00

MATÉRIEL INSTALLÉ À DEMEURE	35/00
COMMANDE DES INSTALLATIONS DE LUTTE CONTRE L'INCENDIE	37/00
AUTRES PROCÉDÉS, MATÉRIEL OU ACCESSOIRES	99/00

CL D 39/00 (transféré en [A62C 99/00](#))

CL N 99/00 *Matière non prévue dans les autres groupes de la présente sous-classe*

ANNEX 28E B01L [**Project-Rapporteur : M099/IB**] <WG19>

CL M 7/00 **Heating or cooling apparatus** (evaporators [B01D 1/00](#); drying gases or vapours, e.g. desiccators, [B01D 53/26](#); autoclaves [B01J 3/04](#); burners [F23D](#); refrigeration or cooling, in general [F25](#); drying ovens [F26B](#); furnaces, ovens [F27](#)) ; **Heat insulating devices**

AL N 7/04 • *Heat insulating devices, e.g. jackets for flasks*

CL D 11/00 (transferred to [B01L 99/00](#))

AL D 11/02 (transferred to [B01L 7/04](#))

CL N 99/00 *Subject matter not provided for in other groups of this subclass*

ANNEXE 28F B01L [**Projet-Rapporteur : M099/IB**] <WG19>
[Tr.: IB]

CL M 7/00 **Appareils de chauffage ou de refroidissement** (évaporateurs [B01D 1/00](#); séchage des gaz ou des vapeurs, p.ex. dessiccateurs, [B01D 53/26](#); autoclaves [B01J 3/04](#); brûleurs [F23D](#); réfrigération ou congélation, en général [F25](#); fours de séchage [F26B](#); fourneaux, fours [F27](#)) ; **Dispositifs d'isolement thermique**

AL N 7/04 • *Dispositifs d'isolement thermique, p.ex. manchons pour ballons*

CL D 11/00 (transféré en [B01L 99/00](#))

AL D 11/02 (transféré en [B01L 7/04](#))

CL N 99/00 *Matière non prévue dans les autres groupes de la présente sous-classe*

ANNEX 29E B24D [Project-Rapporteur : M099/IB] <WG19>

CL M Subclass
index

PHYSICAL FEATURES OR CONSTITUENTS OF ABRASIVE BODIES OR SHEETS	3/00
ABRASIVE WHEELS	5/00, 7/00, 9/00, 13/00
FLEXIBLE ABRASIVE MATERIALS	11/00
HAND TOOLS	15/00
MANUFACTURE	18/00
OTHER TOOLS	99/00

CL D 17/00 (transferred to **B24D 99/00**)

CL N **99/00** *Subject matter not provided for in other groups of this subclass*

ANNEXE 29F B24D [Projet-Rapporteur : M099/IB] <WG19>
[Tr.: IB]

CL M Schéma
général

CARACTÉRISTIQUES PHYSIQUES DES CORPS OU FEUILLES ABRASIVES	3/00
ROUES ABRASIVES	5/00, 7/00, 9/00, 13/00
MATÉRIAUX ABRASIFS FLEXIBLES	11/00
OUTILS À MAIN	15/00
FABRICATION	18/00
AUTRES OUTILS	99/00

CL D 17/00 (transféré en **B24D 99/00**)

CL N **99/00** *Matière non prévue dans les autres groupes de la présente sous-classe*

ANNEX 30E B29D [Project-Rapporteur : M099/IB] <WG19>

CL D 31/00 (transferred to **B29D 99/00**)

CL D 31/02 (transferred to **B29D 33/00**)

CL D 31/50 (transferred to **B29D 35/00**)

CL D Note < Deleted / Supprimée >
31/50

- AL D 31/502 (transferred to **B29D 35/02**)
- AL D 31/505 (transferred to **B29D 35/04**)
- AL D 31/508 (transferred to **B29D 35/06**)
- AL D 31/51 (transferred to **B29D 35/08**)
- AL D 31/512 (transferred to **B29D 35/10**)
- AL D 31/515 (transferred to **B29D 35/12**)
- AL D 31/518 (transferred to **B29D 35/14**)
- CL N **33/00** *Producing bushes for bearings*
- CL N **35/00** *Producing footwear*
- CL N *Note* 1. *Classification is made in this group if the moulding technique is of interest. [new.]*
35/00 2. *The assembling of individual parts by mechanical joining is classified in subclass*
A43D, e.g. by gluing shoe parts A43D 25/00. [new.]
- AL N 35/02 • *made in one piece using a moulding technique, e.g. by injection moulding or casting*
- AL N 35/04 • • *having multilayered parts*
- AL N 35/06 • *having soles or heels formed and joined on to preformed uppers using a moulding technique, e.g. by injection moulding, pressing and vulcanising*
- AL N 35/08 • • *having multilayered parts*
- AL N 35/10 • *having preformed soles or heels joined on to preformed uppers using a moulding technique, e.g. by feeding or injecting plastics material between the parts to be joined*
- AL N 35/12 • *Producing parts thereof, e.g. soles, heels or uppers, by a moulding technique*
- AL N 35/14 • • *Multilayered parts*
- CL N **99/00** *Subject matter not provided for in other groups of this subclass*

ANNEXE 30F B29D

[**Projet-Rapporteur : M099/IB**] <WG19>
[Tr.: IB]

- CL D 31/00 (transféré en **B29D 99/00**)
- CL D 31/02 (transféré en **B29D 33/00**)
- CL D 31/50 (transféré en **B29D 35/00**)

CL D Note < Deleted / Supprimée >
31/50

AL D 31/502 (transféré en **B29D 35/02**)

AL D 31/505 (transféré en **B29D 35/04**)

AL D 31/508 (transféré en **B29D 35/06**)

AL D 31/51 (transféré en **B29D 35/08**)

AL D 31/512 (transféré en **B29D 35/10**)

AL D 31/515 (transféré en **B29D 35/12**)

AL D 31/518 (transféré en **B29D 35/14**)

CL N **33/00 Fabrication de bagues de paliers**

CL N **35/00 Fabrication de chaussures**

CL N Note 35/00

1. *Le classement est effectué dans le présent groupe si la technique de moulage présente un intérêt. [new.]*
2. *L'assemblage des différentes parties de chaussures par réunion mécanique est classé dans la sous-classe **A43D**, p.ex. par collage des parties de la chaussure **A43D 25/00**. [new.]*

AL N 35/02 • *fabriquées d'une seule pièce en utilisant une technique de moulage, p.ex. moulage par injection ou par coulée*

AL N 35/04 • • *comportant des parties multicouches*

AL N 35/06 • *comportant des semelles ou des talons formés et réunis sur des empeignes préformées en utilisant une technique de moulage, p.ex. moulage par injection, pressage et vulcanisation*

AL N 35/08 • • *comportant des parties multicouches*

AL N 35/10 • *comportant des semelles préformées ou des talons préformés réunis sur des empeignes préformées en utilisant une technique de moulage, p.ex. par alimentation ou par injection de la matière plastique entre les différentes parties à joindre*

AL N 35/12 • *Fabrication de leurs parties constitutives, p.ex. semelles, talons ou empeignes, par une technique de moulage*

AL N 35/14 • • *des parties multicouches*

CL N **99/00 Matière non prévue dans les autres groupes de la présente sous-classe**

ANNEX 31E B43M [Project-Rapporteur : M099/IB] <WG19>

CL M Subclass
index

FIXING SEALS; INSERTING DOCUMENTS INTO,
CLOSING, OR OPENING, ENVELOPES **1/00; 3/00, 5/00, 7/00**

PAPER-WEIGHTS; DEVICES FOR APPLYING
LIQUIDS; STAMP DISPENSERS; DRAWING-PINS
OR THUMB-TACKS; OTHER ACCESSORIES **9/00; 11/00; 13/00; 15/00;
99/00**

CL D 17/00 (transferred to **B43M 99/00**)

CL N **99/00** *Subject matter not provided for in other groups of this subclass*

ANNEXE 31F B43M [Projet-Rapporteur : M099/IB] <WG19>
[Tr.: IB]

CL M Schéma
général

FIXATION DE CACHETS; REMPLISSAGE,
FERMETURE, OUVERTURE DES ENVELOPPES **1/00; 3/00, 5/00, 7/00**

PRESSE-PAPIERS; DISPOSITIFS POUR APPLIQUER
DES LIQUIDES; DISTRIBUTEURS POUR TIMBRES;
PUNAISES; AUTRES ACCESSOIRES **9/00; 11/00; 13/00; 15/00;
99/00**

CL D 17/00 (transféré en **B43M 99/00**)

CL N **99/00** *Matière non prévue dans les autres groupes de la présente sous-classe*

ANNEX 32E B60F [Project-Rapporteur : M099/IB] <WG19>

CL M **Title VEHICLES FOR USE BOTH ON RAIL AND ON ROAD; VEHICLES CAPABLE
OF TRAVELLING IN OR ON DIFFERENT MEDIA, e.g.
AMPHIBIOUS VEHICLES** (air-cushion vehicles **B60V**)

CL M **5/00 Other vehicles capable of travelling in or on different media** (vehicles having
alternatively-usable runners and wheels **B62B 13/18**; flying-boats or seaplanes **B64C 35/00**)

ANNEXE 32F B60F [Projet-Rapporteur : M099/IB] <WG19>
[Tr.: IB]

CL M **Titre VÉHICULES RAIL-ROUTE; VÉHICULES CAPABLES DE SE DÉPLACER DANS
OU SUR DES MILIEUX DIFFÉRENTS, p.ex. VÉHICULES AMPHIBIES** (véhicules à
coussin d'air **B60V**)

CL M 5/00 **Autres véhicules capables de se déplacer dans ou sur des milieux différents** (véhicules utilisant alternativement des patins et des roues **B62B 13/18**; hydravions à coque ou à flotteurs **B64C 35/00**)

ANNEX 33E B60G [Project-Rapporteur : M099/IB] <WG19>

CL M Subclass
 index

RIGID SUSPENSION	1/00
RESILIENT SUSPENSION	
General structures	
for single wheels; single sets of tandem wheels; pivoted suspension arms and accessories therefor	3/00; 5/00; 7/00
for rigid axle or axle housing for two or more wheels	9/00
Characterised by arrangement, location, or kind of: springs; vibration-dampers; or combined springs and dampers	11/00; 13/00; 15/00
Characterised by adjustment	17/00
SUSPENSIONS WITH MEANS FOR SENSING GROUND UNEVENNESS	23/00
INTERCONNECTED SYSTEMS FOR RESILIENTLY- SUSPENDED WHEELS	21/00
OTHER SUSPENSION ARRANGEMENTS	99/00

CL D 25/00 (transferred to **B60G 99/00**)

CL N 99/00 *Subject matter not provided for in other groups of this subclass*

ANNEXE 33F B60G [Projet-Rapporteur : M099/IB] <WG19>
[Tr.: IB]

CL M Schéma
 général

SUSPENSION RIGIDE	1/00
SUSPENSION ÉLASTIQUE	
Structure générale	
pour roue unique; pour jeu unitaire de roues; bras de suspension articulés et accessoires	3/00; 5/00; 7/00
pour essieu rigide ou carter d'essieu à deux roues ou plus	9/00
Caractérisée par la disposition, l'emplacement ou le type des: ressorts, amortisseurs de vibration, ressorts- amortisseurs combinés	11/00, 13/00, 15/00

Caractérisée par la possibilité de réglage des éléments de la suspension	17/00
SUSPENSION AVEC MOYENS DE DÉTECTION AUTOMATIQUE DES ACCIDENTS DU TERRAIN	23/00
SYSTÈMES À ROUES CONJUGUÉES SUSPENDUES ÉLASTIQUEMENT	21/00
AUTRES TYPES DE SUSPENSION	99/00

CL D 25/00 (transféré en **B60G 99/00**)

CL N 99/00 *Matière non prévue dans les autres groupes de la présente sous-classe*

ANNEX 34E B64C [Project-Rapporteur : M099/IB] <WG19>

CL N 99/00 *Subject matter not provided for in other groups of this subclass*

ANNEXE 34F B64C [Projet-Rapporteur : M099/IB] <WG19>
[Tr.: IB]

CL N 99/00 *Matière non prévue dans les autres groupes de la présente sous-classe*

ANNEX 35E B81C [Project-Rapporteur : M099/IB] <WG19>

CL D 5/00 (transferred to **B81C 99/00**)

CL N 99/00 *Subject matter not provided for in other groups of this subclass*

ANNEXE 35F B81C [Projet-Rapporteur : M099/IB] <WG19>
[Tr.: IB]

CL D 5/00 (transféré en **B81C 99/00**)

CL N 99/00 *Matière non prévue dans les autres groupes de la présente sous-classe*

ANNEX 36E C01G [Project-Rapporteur : M099/IB] <WG19>

CL M Subclass
index

GENERAL METHODS OF PREPARATION	1/00
METALLIC COMPOUNDS, IN ALPHABETICAL ORDER OF THE SYMBOL FOR THE METAL	
Ag Silver	5/00
As Arsenic	28/00
Au Gold	7/00
Bi Bismuth	29/00
Cd Cadmium	11/00
Co Cobalt	51/00
Cr Chromium	37/00
Cu Copper	3/00
Fe Iron	49/00
Ga Gallium	15/00
Ge Germanium	17/00
Hf Hafnium	27/00
Hg Mercury	13/00
In Indium	15/00
Ir Iridium	55/00
Mn Manganese	45/00
Mo Molybdenum	39/00
Nb Niobium	33/00
Ni Nickel	53/00
Os Osmium	55/00
Pb Lead	21/00
Pd Palladium	55/00
Pt Platinum	55/00
Re Rhenium	47/00
Rh Rhodium	55/00
Ru Ruthenium	55/00
Sb Antimony	30/00
Sn Tin	19/00
Ta Tantalum	35/00
Ti Titanium	23/00
Tl Thallium	15/00
U Uranium	43/00
V Vanadium	31/00
W Tungsten	41/00
Zn Zinc	9/00
Zr Zirconium	25/00
COMPOUNDS OF TRANSURANIC ELEMENTS	56/00

COMPOUNDS OF METALS NOT COVERED BY
THE PRECEDING GROUPS **99/00**

CL D 57/00 (transferred to **C01G 99/00**)

CL N **99/00** *Subject matter not provided for in other groups of this subclass*

ANNEXE 36F C01G [**Projet-Rapporteur : M099/IB**] <WG19>
[Tr.: IB]

CL M Schéma
général

PRÉPARATIONS EN GÉNÉRAL	1/00
COMPOSÉS DES MÉTAUX, CLASSÉS SELON L'ORDRE ALPHABÉTIQUE DES SYMBOLES	
Ag Argent	5/00
As Arsenic	28/00
Au Or	7/00
Bi Bismuth	29/00
Cd Cadmium	11/00
Co Cobalt	51/00
Cr Chrome	37/00
Cu Cuivre	3/00
Fe Fer	49/00
Ga Gallium	15/00
Ge Germanium	17/00
Hf Hafnium	27/00
Hg Mercure	13/00
In Indium	15/00
Ir Iridium	55/00
Mn Manganèse	45/00
Mo Molybdène	39/00
Nb Niobium	33/00
Ni Nickel	53/00
Os Osmium	55/00
Pb Plomb	21/00
Pd Palladium	55/00
Pt Platine	55/00
Re Rhénium	47/00
Rh Rhodium	55/00
Ru Ruthénium	55/00

Sb Antimoine	30/00
Sn Etain	19/00
Ta Tantale	35/00
Ti Titane	23/00
Tl Thallium	15/00
U Uranium	43/00
V Vanadium	31/00
W Tungstène	41/00
Zn Zinc	9/00
Zr Zirconium	25/00
COMPOSÉS DES MÉTAUX TRANSURANIENS	56/00
COMPOSÉS DES MÉTAUX NON PRÉVUS DANS LES GROUPES PRÉCÉDENTS	99/00

CL D 57/00 (transféré en **C01G 99/00**)

CL N **99/00** *Matière non prévue dans les autres groupes de la présente sous-classe*

ANNEX 37E C12S [Project-Rapporteur : M099/IB] <WG19>

CL D 13/00 (transferred to **C12S 99/00**)

CL N **99/00** *Subject matter not provided for in other groups of this subclass*

**ANNEXE 37F C12S [Projet-Rapporteur : M099/IB] <WG19>
[Tr.: IB]**

CL D 13/00 (transféré en **C12S 99/00**)

CL N **99/00** *Matière non prévue dans les autres groupes de la présente sous-classe*

ANNEX 38E D01G [Project-Rapporteur : M099/IB] <WG19>

CL M Subclass
index

OPERATIONS BEFORE CARDING; MACHINES
THEREFOR

Opening fibre bales; separating and sorting of fibres; opening or cleaning fibres	7/00; 5/00; 9/00
Severing of continuous filaments; roughening of fibres	1/00; 3/00

OUTILS À MAIN POUR LE TRAITEMENT DES FIBRES	33/00
AUTRES TRAITEMENTS PRÉLIMINAIRES	99/00

CL D 37/00 (transféré en **D01G 99/00**)

CL N **99/00** *Matière non prévue dans les autres groupes de la présente sous-classe*

ANNEX 39E F01N [Project-Rapporteur : M099/IB] <WG19>

CL D 7/00 (transferred to **F01N 13/00,F01N 99/00**)

AL D 7/02 (transferred to **F01N 13/02**)

AL D 7/04 (transferred to **F01N 13/04**)

AL D 7/06 (transferred to **F01N 13/06**)

CL D 7/08 (transferred to **F01N 13/08**)

CL D 7/10 (transferred to **F01N 13/10**)

AL D 7/12 (transferred to **F01N 13/12**)

CL D 7/14 (transferred to **F01N 13/14**)

AL D 7/16 (transferred to **F01N 13/16**)

CL D 7/18 (transferred to **F01N 13/18**)

AL D 7/20 (transferred to **F01N 13/20**)

CL N **13/00** *Exhaust or silencing apparatus characterised by constructional features*

AL N **13/02** • *having two or more separate silencers in series*

AL N **13/04** • *having two or more silencers in parallel, e.g. having interconnections for multi-cylinder engines*

AL N **13/06** • *specially adapted for star-arrangement of cylinders, e.g. exhaust manifolds*

CL N **13/08** • *Other arrangements or adaptations of exhaust conduits*

CL N **13/10** • • *of exhaust manifolds*

AL N **13/12** • *specially adapted for submerged exhausting*

CL N **13/14** • *having thermal insulation*

AL N 13/16 • *Selection of particular materials*

CL N 13/18 • *Construction facilitating manufacture, assembly or disassembly*

AL N 13/20 • *having flared outlets, e.g. of fish-tail shape*

CL N 99/00 *Subject matter not provided for in other groups of this subclass*

ANNEXE 39F F01N [**Projet-Rapporteur : M099/IB**] <WG19>
[Tr.: IB]

CL D 7/00 (transféré en **F01N 13/00,F01N 99/00**)

AL D 7/02 (transféré en **F01N 13/02**)

AL D 7/04 (transféré en **F01N 13/04**)

AL D 7/06 (transféré en **F01N 13/06**)

CL D 7/08 (transféré en **F01N 13/08**)

CL D 7/10 (transféré en **F01N 13/10**)

AL D 7/12 (transféré en **F01N 13/12**)

CL D 7/14 (transféré en **F01N 13/14**)

AL D 7/16 (transféré en **F01N 13/16**)

CL D 7/18 (transféré en **F01N 13/18**)

AL D 7/20 (transféré en **F01N 13/20**)

CL N 13/00 *Silencieux ou dispositifs d'échappement caractérisés par les aspects de structure*

AL N 13/02 • *ayant plusieurs silencieux séparés en série*

AL N 13/04 • *ayant plusieurs silencieux en parallèle, p.ex. avec interconnexion des silencieux pour moteurs multicylindres*

AL N 13/06 • *spécialement adaptés pour moteurs en étoile, p.ex. collecteurs d'échappement des cylindres*

CL N 13/08 • *Autres aménagements ou adaptations des tubulures d'échappement*

CL N 13/10 • • *des collecteurs d'échappement*

AL N 13/12 • *spécialement adaptés pour échappement sous l'eau*

- CL N 13/14 • *comportant une isolation thermique*
- AL N 13/16 • *Emploi de matériaux spécifiques*
- CL N 13/18 • *Structure facilitant la fabrication, l'assemblage ou le démontage*
- AL N 13/20 • *ayant des sorties évasées, p.ex. en forme de queue de poisson*
- CL N 99/00 *Matière non prévue dans les autres groupes de la présente sous-classe*

ANNEX 40E F02N [Project-Rapporteur : M099/IB] <WG19>

CL M Subclass		
index	STARTING BY MUSCLE POWER	1/00, 3/00, 5/00
	STARTING OTHERWISE	
	With mechanical energy storage	5/00
	By fluid motor; by electric motor	7/00; 11/00
	By direct action in the working chamber: by fluid pressure; by explosives	9/00; 13/00
	By other apparatus, details, accessories	15/00
	OTHER MEANS OR AIDS FOR STARTING	19/00, 99/00

- CL D 17/00 (transferred to **F02N 99/00**)
- AL D 17/02 (transferred to **F02N 19/02**)
- AL D 17/04 (transferred to **F02N 19/04**)
- AL D 17/047 (transferred to **F02N 19/06**)
- AL D 17/053 (transferred to **F02N 19/08**)
- AL D 17/06 (transferred to **F02N 19/10**)
- AL D 17/08 (transferred to **F02N 19/00**)
- CL N **19/00** *Starting aids for combustion engines not otherwise provided for*
- AL N 19/02 • *Aiding engine start by thermal means, e.g. using lighted wicks (using electrically-heated glowing plugs **F02P 19/02**)*
- AL N 19/04 • • *by heating of fluids used in engines (heating of lubricants **F01M 5/02**)*
- AL N 19/06 • • • *by heating of combustion-air by flame generating means, e.g. flame glow-plugs*
- AL N 19/08 • • • • *Arrangement thereof*

AL N 19/10 . . . by heating of engine coolants

CL N 99/00 *Subject matter not provided for in the other groups of this subclass*

ANNEXE 40F F02N [**Projet-Rapporteur : M099/IB**] <WG19>
[Tr.: IB]

CL M Schéma
général

DÉMARRAGE DES MOTEURS À COMBUSTION PAR ÉNERGIE MUSCULAIRE	1/00, 3/00, 5/00
DÉMARRAGE AUTREMENT	
Avec stockage de l'énergie	5/00
Avec entraînement par moteur à fluide; par moteur électrique	7/00; 11/00
Par action directe dans la chambre de compression: par fluide; par explosif	9/00; 13/00
Autres appareils, parties constitutives ou accessoires	15/00
AUTRES MOYENS OU ACCESSOIRES DE DÉMARRAGE	19/00, 99/00

CL D 17/00 (transféré en **F02N 99/00**)

AL D 17/02 (transféré en **F02N 19/02**)

AL D 17/04 (transféré en **F02N 19/04**)

AL D 17/047 (transféré en **F02N 19/06**)

AL D 17/053 (transféré en **F02N 19/08**)

AL D 17/06 (transféré en **F02N 19/10**)

AL D 17/08 (transféré en **F02N 19/00**)

CL N **19/00** *Accessoires de démarrage des moteurs à combustion non prévus ailleurs*

AL N 19/02 . *facilitant le démarrage des moteurs par des moyens thermiques, p.ex. en utilisant des
mèches allumées (en utilisant des bougies avec chauffage électrique **F02P 19/02**)*

AL N 19/04 . . . *par réchauffage des fluides utilisés dans les moteurs (réchauffage du lubrifiant **F01M
5/02**)*

AL N 19/06 . . . *par réchauffage de l'air comburant par des moyens générateurs de flamme, p.ex. des
bougies à incandescence*

AL N 19/08 *Aménagement de ces moyens*

AL N 19/10 . . . *par réchauffage des agents de refroidissement des moteurs*

CL N 99/00 *Matière non prévue dans les autres groupes de la présente sous-classe*

ANNEX 41E F03C [Project-Rapporteur : M099/IB] <WG19>

CL D 5/00 (transferred to **F03C 99/00**)

AL D 5/02 (transferred to **F03C 7/00**)

CL N 7/00 *Engines of flexible-wall type*

CL N 99/00 *Subject matter not provided for in other groups of this subclass*

ANNEXE 41F F03C [Projet-Rapporteur : M099/IB] <WG19>
[Tr.: IB]

CL D 5/00 (transféré en **F03C 99/00**)

AL D 5/02 (transféré en **F03C 7/00**)

CL N 7/00 *Machines motrices du type à parois élastiques*

CL N 99/00 *Matière non prévue dans les autres groupes de la présente sous-classe*

ANNEX 42E F21K [Project-Rapporteur : M099/IB] <WG19>

CL D 7/00 (transferred to **F21K 99/00**)

CL N 99/00 *Subject matter not provided for in other groups of this subclass*

ANNEXE 42F F21K [Projet-Rapporteur : M099/IB] <WG19>
[Tr.: IB]

CL D 7/00 (transféré en **F21K 99/00**)

CL N 99/00 *Matière non prévue dans les autres groupes de la présente sous-classe*

ANNEX 43E F23D [Project-Rapporteur : M099/IB] <WG19>

CL M Subclass
index

BURNERS FOR PULVERULENT FUEL	1/00
BURNERS FOR COMBUSTION OF A LIQUID	
Using capillary action	3/00
Using fuel evaporation; direct spraying action	5/00; 11/00
Using fuel impingement on a surface	7/00, 9/00
BURNERS FOR COMBUSTION OF A GAS	14/00
BURNERS FOR COMBUSTION OF GASEOUS OR LIQUID OR PULVERULENT FUEL	17/00
ASSEMBLIES OF TWO OR MORE BURNERS	23/00
OTHER BURNERS	99/00

CL D 21/00 (transferred to **F23D 99/00**)

CL N 99/00 *Subject matter not provided for in other groups of this subclass*

ANNEXE 43F F23D [Projet-Rapporteur : M099/IB] <WG19>
[Tr.: IB]

CL M Schéma
général

BRÛLEURS À COMBUSTIBLES PULVÉRULENTS	1/00
BRÛLEURS À COMBUSTIBLES LIQUIDES	
Agissant par capillarité	3/00
Agissant par: vaporisation; pulvérisation directe	5/00; 11/00
Agissant par contact du combustible sur une surface	7/00, 9/00
BRÛLEURS À COMBUSTIBLES GAZEUX	14/00
BRÛLEURS POUR LA COMBUSTION DE COMBUSTIBLES GAZEUX, LIQUIDES OU PULVÉRULENTS	17/00
ASSEMBLAGES DE PLUSIEURS BRÛLEURS	23/00
AUTRES BRÛLEURS	99/00

CL D 21/00 (transféré en **F23D 99/00**)

CL N 99/00 *Matière non prévue dans les autres groupes de la présente sous-classe*

ANNEX 44E F23M [Project-Rapporteur : M099/IB] <WG19>

CL D 13/00 (transferred to **F23M 99/00**)

CL N **99/00** *Subject matter not provided for in other groups of this subclass*

ANNEXE 44F F23M [Projet-Rapporteur : M099/IB] <WG19>
[Tr.: IB]

CL D 13/00 (transféré en **F23M 99/00**)

CL N **99/00** *Matière non prévue dans les autres groupes de la présente sous-classe*

ANNEX 45E F27D [Project-Rapporteur : M099/IB] <WG19>

CL M Subclass
index

CONSTRUCTIONAL FEATURES	1/00
HANDLING AND SUPPORTING CHARGE	3/00, 5/00, 15/00
PREHEATING CHARGE; COOLING; USING WASTE HEAT OR GASES	13/00; 9/00, 15/02; 17/00
ARRANGEMENTS OF ELECTRIC HEATING ELEMENTS	11/00
ARRANGEMENTS OF CONTROL AND SAFETY DEVICES	19/00, 21/00
OTHER FEATURES; OTHER DETAILS	7/00; 25/00, 27/00, 99/00

CL D 23/00 (transferred to **F27D 99/00**)

AL D 23/02 (transferred to **F27D 25/00**)

AL D 23/04 (transferred to **F27D 27/00**)

CL N **25/00** *Devices for removing incrustations*

CL N **27/00** *Stirring devices for molten material (F27D 3/14 takes precedence)*

CL N **99/00** *Subject matter not provided for in other groups of this subclass*

ANNEXE 45F F27D [**Projet-Rapporteur : M099/IB**] <WG19>
[Tr.: IB]

CL M Schéma général	CARACTÉRISTIQUES DE CONSTRUCTION	1/00
	MANUTENTION DES CHARGES ET DE LEURS SUPPORTS	3/00, 5/00, 15/00
	CHAUFFAGE; REFROIDISSEMENT; UTILISATION DE LA CHALEUR OU DES GAZ USÉS	13/00; 9/00, 15/02; 17/00
	AMÉNAGEMENTS POUR LE CHAUFFAGE ÉLECTRIQUE	11/00
	AMÉNAGEMENTS DES DISPOSITIFS DE COMMANDE OU DE SÉCURITÉ	19/00, 21/00
	AUTRES ASPECTS; AUTRES PARTIES CONSTITUTIVES	7/00; 25/00, 27/00, 99/00
CL D 23/00	(transféré en F27D 99/00)	
AL D 23/02	(transféré en F27D 25/00)	
AL D 23/04	(transféré en F27D 27/00)	
CL N 25/00	<i>Dispositifs pour enlever les incrustations</i>	
CL N 27/00	<i>Dispositifs agitateurs pour matériaux fondus (F27D 3/14 a priorité)</i>	
CL N 99/00	<i>Matière non prévue dans les autres groupes de la présente sous-classe</i>	

ANNEX 46E G04G [**Project-Rapporteur : M099/IB**] <WG19>

CL M Subclass index	PRODUCING TIMING PULSES	3/00
	TIME-SETTING; SYNCHRONISING	5/00; 7/00
	TIME- OR DATE-INDICATING	
	Visual; optical signals; acoustic signals	9/00; 11/00; 13/00
	OPERATING A DEVICE AT PRESELECTED TIMES	15/00
	STRUCTURAL DETAILS; HOUSINGS	17/00
	ELECTRIC POWER SUPPLY CIRCUITS	19/00
	INPUT OR OUTPUT DEVICES INTEGRATED IN TIME-PIECES	21/00
	OTHER SUBJECTS	99/00
CL D 1/00	(transferred to G04G 99/00)	

AL D 1/06 (transféré en [G04G 21/04](#))

AL D 1/08 (transféré en [G04G 21/06](#))

AL D 1/10 (transféré en [G04G 21/08](#))

CL N **21/00 Dispositifs d'entrée ou de sortie intégrés dans des garde-temps**

AL N 21/02 • *Détecteurs de valeurs physiques externes, p.ex. de température*

AL N 21/04 • *utilisant des ondes radio*

AL N 21/06 • *utilisant la voix*

AL N 21/08 • *Commutateurs à effleurement spécialement adaptés pour des garde-temps*

CL N **99/00 Matière non prévue dans les autres groupes de la présente sous-classe**

ANNEX 47E G06N [Project-Rapporteur : M099/IB] <WG19>

CL D 1/00 (transferred to [G06N 99/00](#))

CL N **99/00 Subject matter not provided for in other groups of this subclass**

ANNEXE 47F G06N [Projet-Rapporteur : M099/IB] <WG19>
[Tr.: IB]

CL D 1/00 (transféré en [G06N 99/00](#))

CL N **99/00 Matière non prévue dans les autres groupes de la présente sous-classe**

ANNEX 48E A01F [Project-Rapporteur : M100/SE] <WG19>

CL M **Title THRESHING (combines [A01D 41/00](#)) ; BALING OF STRAW, HAY OR THE LIKE; STATIONARY APPARATUS OR HAND TOOLS FOR FORMING OR BINDING STRAW, HAY OR THE LIKE INTO BUNDLES; CUTTING OF STRAW, HAY OR THE LIKE; STORING AGRICULTURAL OR HORTICULTURAL PRODUCE (arrangements for making or setting stacks in connection with harvesting [A01D 85/00](#))**

- CL M Subclass
index
- THRESHING
- Functional types of apparatus **5/00, 7/00, 9/00**
- Special applications **11/00**
- Details **12/00**
- BALING OF STRAW, HAY OR THE LIKE **1/00, 13/00, 15/00**
- ACCESSORIES FOR THRESHING MACHINES OR
BALING PRESSES **17/00, 19/00, 21/00**
- STORING AGRICULTURAL OR HORTICULTURAL
PRODUCE **25/00**
- MACHINES OR IMPLEMENTS FOR CUTTING
STRAW, HAY OR THE LIKE **3/00, 29/00**
- CL D Guidance < Deleted / Supprimée >
heading /
Rubrique
d'orientation
1/00- 3/00
- CL M **1/00 Stationary apparatus or hand tools for forming or binding straw, hay or the like into bundles** (baling apparatus or presses **A01F 13/00, A01F 15/00**; mobile binders for use in the field **A01D 37/00, A01D 39/00**)
- AL M 1/06 • Ties for bundles
- CL M **3/00 Hand-operated implements for cutting-up straw, hay or the like** (mechanically-driven straw cutters **A01F 29/00**; cutting in general **B26**)
- CL M **7/00 Threshing apparatus**
- AL M 7/02 • with rotating tools (threshing cylinders or concaves **A01F 12/18**)
- AL M 7/04 < Add / Ajouter 1 dot(s) / point(s) >
- AL M 7/06 < Add / Ajouter 1 dot(s) / point(s) >
- AL N 7/70 • *with flails*
- CL D 9/00 (transferred to **A01F 7/70**)
- CL M **11/00 Threshing apparatus specially adapted for maize; Threshing apparatus specially adapted for particular crops other than cereals**
- AL U 11/02 < unchanged >
- AL U 11/04 < unchanged >
- AL U 11/06 < unchanged >
- AL U 11/08 < unchanged >

- CL M **12/00 Parts or details of threshing apparatus** (devices, other than safety devices for feeders, for protecting human beings [A01D 75/20](#), [A01F 21/00](#))
- AL U 12/34 < unchanged >
- AL M 12/36 · · · · Sieve elements specially adapted for handling short straw
- CL M 12/40 · Arrangements of straw crushers or cutters
- AL M 12/42 · Apparatus for removing awns from the grain
- CL M 12/44 · Grain cleaners; Grain separators
- CL M 12/46 · Mechanical grain conveyers
- CL M 12/48 · Air conduits or blowers for grain
- AL M 12/50 · Sack-filling devices; Counting or weighing devices
- AL M 12/54 · Arrangements for collecting or removing dust
- AL M 12/58 · Control devices; Brakes; Bearings
- CL M **15/00 Baling presses for straw, hay or the like**
- AL M 15/08 · Details
- AL M 15/14 · · Tying devices specially adapted for baling presses
- CL M **17/00 Straw conveyers for threshing machines or baling presses**
- CL M **21/00 Devices for protecting human beings for threshing machines or baling presses** (in combines [A01D 75/20](#); for feeders for threshing apparatus [A01F 12/16](#))
- CL M **25/00 Storing agricultural or horticultural produce; Hanging-up harvested fruit** (maturing fruit [A23N 15/06](#); arrangements in barns for preparatory treatment of tobacco [A24B 1/02](#); packing or storing hops [C12C 3/04](#))
- CL M 25/13 · Coverings ([A01F 25/14](#) takes precedence)
- CL M 25/14 · Containers specially adapted for storing
- CL M 25/16 · Arrangements in forage silos
- AL U 25/18 < unchanged >
- AL U 25/20 < unchanged >
- AL U 25/22 < unchanged >
- CL M **29/00 Cutting apparatus specially adapted for cutting hay, straw or the like** (mowers combined with means for cutting up the mown crop [A01D 43/08](#))

- AL M 29/01 • specially adapted for being mounted on or drawn by a tractor, e.g. field choppers
- AL N 29/09 • *Details*
- AL M 29/10 < Add / Ajouter 1 dot(s) / point(s) >
- AL M 29/12 • • Discharge means (loaders for hay or like field crop having blowers [A01D 87/10](#))
- AL M 29/14 < Add / Ajouter 1 dot(s) / point(s) >
- AL M 29/16 < Add 1 dot(s) >
- AL M 29/18 < Add / Ajouter 1 dot(s) / point(s) >
- AL D 29/20 (transferred to [A01F 29/09](#))
- AL M 29/22 • • Arrangement of knife sharpening devices

ANNEXE 48F A01F [Projet-Rapporteur : M100/SE] <WG19>
[Tr.: FR]

CL M **Titre** **BATTAGE** (moissonneuses-batteuses [A01D 41/00](#)) ; **MISE EN BALLES DE LA PAILLE, DU FOIN OU DE PRODUITS SIMILAIRES; APPAREILS FIXES OU OUTILS À MAIN POUR BOTTELER OU LIER LA PAILLE, LE FOIN OU LES PRODUITS SIMILAIRES; COUPE DE LA PAILLE, DU FOIN OU DE PRODUITS SIMILAIRES; EMMAGASINAGE DES PRODUITS AGRICOLES OU HORTICOLES** (dispositions pour mettre la récolte en meules [A01D 85/00](#))

CL M Schéma
général

BATTAGE

Types fonctionnels d'appareils [5/00, 7/00, 9/00](#)

Applications particulières [11/00](#)

Parties constitutives [12/00](#)

MISE EN BALLES DE LA PAILLE, DU FOIN OU DE PRODUITS SIMILAIRES [1/00, 13/00, 15/00](#)

ACCESSOIRES POUR BATTEUSES OU PRESSES À BALLES [17/00, 19/00, 21/00](#)

EMMAGASINAGE DES PRODUITS AGRICOLES OU HORTICOLES [25/00](#)

MACHINES OU OUTILS POUR COUPER LE FOIN, LA PAILLE OU LES PRODUITS SIMILAIRES [3/00, 29/00](#)

CL D Guidance < Deleted / Supprimée >
heading /
Rubrique
d'orientation
1/00- 3/00

- CL M 1/00 **Appareils fixes ou outils à main pour botteler ou lier la paille, le foin ou les produits similaires** (appareils ou presses pour mise en balles [A01F 13/00](#), [A01F 15/00](#); botteleuses mobiles à utiliser dans les champs [A01D 37/00](#), [A01D 39/00](#))
- AL M 1/06 · Liens pour les bottes de paille, de foin ou analogues
- CL M 3/00 **Instruments à main pour hacher le foin, la paille ou les produits similaires** (coupe-paille mécaniques [A01F 29/00](#); coupe en général [B26](#))
- CL M 7/00 **Dispositifs de battage**
- AL M 7/02 · à outils rotatifs (cylindres ou contrebatteurs pour le battage [A01F 12/18](#))
- AL M 7/04 < Add / Ajouter 1 dot(s) / point(s) >
- AL M 7/06 < Add / Ajouter 1 dot(s) / point(s) >
- AL N 7/70 · *avec des fléaux*
- CL D 9/00 (transféré en [A01F 7/70](#))
- CL M 11/00 **Dispositifs de battage spécialement adaptés au maïs; Dispositifs de battage spécialement adaptés à des récoltes déterminées autres que les céréales**
- AL M 11/02 · pour le lin
- AL M 11/04 · pour le trèfle ou les plantes fourragères similaires, p.ex. pour la luzerne
- AL M 11/06 · pour le maïs, p.ex. détachage des grains des épis
- AL M 11/08 · pour les fruits de palmiers, p.ex. détachage du fruit de la tige
- CL M 12/00 **Pièces ou parties constitutives des dispositifs de battage** (dispositifs, autres que les dispositifs de sécurité des mécanismes d'alimentation, pour la protection des êtres humains [A01D 75/20](#), [A01F 21/00](#))
- AL M 12/34 · · · · Éléments de criblage; Garnitures des secoueurs
- AL M 12/36 · · · · Éléments de criblage spécialement adaptés au traitement des pailles courtes
- CL M 12/40 · Agencement de dispositifs de broyage ou de coupe de la paille
- AL M 12/42 · Appareils pour l'ébarbage des grains
- CL M 12/44 · Nettoyeurs de grain; Séparateurs des grains
- CL M 12/46 · Transporteurs mécaniques de grain
- CL M 12/48 · Conduits à air ou ventilateurs pour le grain
- AL M 12/50 · Dispositifs d'ensachage; Compte-sacs ou pèse-sacs
- AL M 12/54 · Dispositions pour rassembler et retirer les poussières

AL U 12/58 < Inchangé >

CL M **15/00 Presses pour mise en balles de la paille, du foin ou de produits similaires**

AL U 15/08 < Inchangé >

AL M 15/14 · · Dispositifs de liage spécialement adaptés aux presses de mise en balles

CL M **17/00 Transporteurs de paille pour batteuses ou presses**

CL M **21/00 Dispositif de protection des êtres humains sur les batteuses ou les presses à balles** (sur des moissonneuses-batteuses **A01D 75/20**; sur les mécanismes d'alimentation des dispositifs de battage **A01F 12/16**)

CL M **25/00 Emmagasinage des produits agricoles ou horticoles; Suspension de fruits récoltés** (maturation des fruits **A23N 15/06**; installations dans les hangars pour le traitement préliminaire du tabac **A24B 1/02**; emballage ou emmagasinage du houblon **C12C 3/04**)

CL M 25/13 · Couvertures (**A01F 25/14** a priorité)

CL M 25/14 · Récipients spécialement conçus pour l'emmagasinage

CL M 25/16 · Agencement des silos à fourrage

AL M 25/18 · · Dispositions pour le chargement ou la distribution

AL M 25/20 · · Dispositions pour le déchargement

AL M 25/22 · · Dispositions pour la ventilation

CL M **29/00 Appareils de coupe spécialement adaptés à la paille, au foin ou aux produits similaires** (faucheuses combinées avec des moyens pour hacher la récolte fauchée **A01D 43/08**)

AL M 29/01 · spécialement adaptés pour être montés sur ou tirés par un tracteur, p.ex. ramasseuses-hacheuses

AL N 29/09 · *Parties constitutives*

AL M 29/10 < Add / Ajouter 1 dot(s) / point(s) >

AL M 29/12 · · Moyens de décharge (chargeurs à foin ou céréales comportant une soufflerie **A01D 87/10**)

AL M 29/14 < Add / Ajouter 1 dot(s) / point(s) >

AL M 29/16 · · Dispositifs de sécurité, p.ex. dispositions pour les freins de secours

AL M 29/18 < Add / Ajouter 1 dot(s) / point(s) >

AL D 29/20 (transféré en **A01F 29/09**)

AL M 29/22 · · Aménagement des dispositifs d'affûtage des couteaux

ANNEX 49E F23G [Project-Rapporteur : M102/SE] <WG19>

CL M Title **CREMATION FURNACES; CONSUMING WASTE OR LOW GRADE FUELS BY COMBUSTION**

CL D Note < Deleted >
F23G

CL M Subclass
index

CREMATION	1/00
CONSUMING WASTE OR LOW-GRADE FUELS BY COMBUSTION	
Processes; Functional types of apparatus	5/00
Adaptation for specific waste or fuels	7/00
Details; Accessories	5/44
Control or safety arrangements	5/50

CL M **1/00 Methods or apparatus specially adapted for cremation of human or animal carcasses**

CL M **5/00 Methods or apparatus, e.g. incinerators, specially adapted for combustion of waste or low-grade fuels**

CL M 5/02 · including pretreatment

CL M 5/027 · · pyrolysing or gasifying (pyrolysis of sludge **C02F 11/00**; destructive distillation of carbonaceous materials **C10B 53/00**)

CL M 5/08 · including supplementary heating

AL M 5/10 · · using electric means

CL M 5/20 · with combustion in rotating or oscillating drums

CL M 5/24 · with combustion in a vertical, substantially cylindrical, combustion chamber

CL M 5/30 · with combustion in a fluidised bed

CL M 5/32 · in which the waste or low-grade fuel is subjected to a whirling movement, e.g. cyclonic incinerators

CL M 5/34 · in which the waste or low-grade fuel is burnt in a pit or arranged in a heap for combustion

CL M 5/36 · with combustion in a conical combustion chamber, e.g. "teepee" incinerators (**F23G 5/22** takes precedence)

CL M 5/38 · having multi-hearth arrangements

CL M 5/40 · Portable or mobile apparatus

- CL M 7/00 **Methods or apparatus, e.g. incinerators, specially adapted for combustion of specific waste or low grade fuels, e.g. chemicals (F23G 1/00 takes precedence; incinerator closets A47K 11/02; oxidation of sludge C02F 11/06; incinerating radioactive waste G21F 9/00)**
- CL M 7/06 • of waste gases or noxious gases, e.g. exhaust gases (exhaust apparatus for engines with means for rendering the exhaust innocuous, e.g. by thermal or catalytic conversion, F01N 3/08; combustion of uncombusted material from primary combustion within apparatus for combustion of solid or fluent fuel F23B, F23C)
- AL M 7/14 • of contaminated soil, e.g. soil contaminated by oil

ANNEX 50E H04M [Project-Rapporteur : M103/SE] <WG19>

CL M Title **TELEPHONIC COMMUNICATION** (circuits for controlling other apparatus via a telephone cable and not involving telephone switching apparatus G08)

- CL M Note
H04M
1. This subclass covers :
 - telephonic communication systems combined with other electrical systems;
 - testing arrangements specially adapted for telephonic communication systems.
 2. In this subclass, the following terms or expressions are used with the meanings indicated:
 - "subscriber" is a general term for terminal equipment, e.g. telephones for public use;
 - "substation" means subscriber or monitoring equipment which may connect a single subscriber to a line without choice as to subscriber;
 - "satellite" is a type of exchange the operation of which depends upon control signals received from a supervisory exchange;
 - "switching centres" includes exchanges and satellites.

CL M Subclass
index

TELEPHONIC SYSTEMS	
Combined; party-line systems; prepayment systems	11/00; 13/00; 17/00
EQUIPMENT AND ARRANGEMENTS	
Equipment	1/00
Exchanges: automatic; manual	3/00; 5/00
Interconnection arrangements: centralised; non-centralised	7/00; 9/00
Monitoring and control; supply arrangements	15/00; 19/00
SUBJECT MATTER NOT PROVIDED FOR IN OTHER GROUPS OF THIS SUBCLASS	
	99/00

CL M 1/00 **Substation equipment, e.g. for use by subscribers** (subscriber services or facilities provided at exchanges H04M 3/00; prepayment telephone coin boxes H04M 17/00; current supply arrangements H04M 19/08)

- CL M 1/03 · · Constructional features of telephone transmitters or receivers, e.g. telephone hand-sets
- CL M 1/04 · · Supports for telephone transmitters or receivers
- AL M 1/05 · · · specially adapted for use on head, throat or breast
- AL M 1/08 · · · · associated with switches operated by the weight of the receiver or hand-set
- CL M 1/15 · · Protecting or guiding telephone cords
- CL M 1/18 · · Telephone sets specially adapted for use in ships, mines, or other places exposed to adverse environment (**H04M 1/19** takes precedence)
- CL M 1/19 · · Arrangements of transmitters, receivers, or complete sets to prevent eavesdropping, to attenuate local noise or to prevent undesired transmission; Mouthpieces or receivers specially adapted therefor (circuit arrangements for preventing eavesdropping **H04M 1/68**; telephone cabinets **E04H 1/14**)
- CL M 1/21 · · Combinations with auxiliary equipment, e.g. with clocks or memoranda pads
- CL M 1/22 · · Illumination; Arrangements for improving the visibility of characters on dials
- CL M 1/24 · Arrangements for testing
- CL M 1/253 · Telephone sets using digital voice transmission
- CL M 1/26 · Devices for calling a subscriber (**H04M 1/66** takes precedence)
- CL M 1/274 · · · with provision for storing more than one subscriber number at a time, e.g. using toothed disc
- AL M 1/2745 · · · · using static electronic memories, i.e. memories whose operation does not require relative movement between storage means and a transducer, e.g. chips
- AL M 1/515 · · by generating or selecting signals other than trains of pulses of similar shape, or signals other than currents of one or more different frequencies, e.g. generation of dc signals of alternating polarity, coded pulses or impedance dialling
- AL M 1/52 · · Arrangements wherein a dial or the like is mechanically coupled to a line selector
- AL M 1/54 · · · Arrangements wherein a dial or the like generates identifying signals, e.g. in party-line systems
- CL M 1/58 · Anti-side-tone circuits
- CL M 1/66 · with means for preventing unauthorised or fraudulent calling (verifying user identity or authority in secret or secure digital communications **H04L 9/32**)
- AL M 1/677 · · Preventing the dialling or sending of predetermined telephone numbers or selected types of telephone numbers, e.g. long distance numbers
- AL M 1/737 · · · characterised by transmission of electromagnetic waves other than radio waves, e.g. infra-red waves

- AL M 1/76 · · Compensating for differences in line impedance
- CL M 1/78 · Circuit arrangements in which low-frequency speech signals proceed in one direction on the line, while speech signals proceeding in the other direction on the line are modulated on a high-frequency carrier signal
- CL M 3/02 · Calling substations, e.g. by ringing (selective calling **H04Q**)
- AL M 3/04 · · the calling signal being supplied from the final selector
- AL M 3/06 · · the calling signal being supplied from the subscriber's line circuit
- AL M 3/10 · · Providing fault- or trouble-signals
- CL M 3/22 · Arrangements for supervision, monitoring or testing
- AL M 3/34 · · · Testing for cross-talk
- CL M 3/36 · · Statistical metering, e.g. recording occasions when traffic exceeds capacity of trunks
- CL M 3/487 · · Arrangements for providing information services, e.g. recorded voice services or time announcements
- CL M 3/60 · Semi-automatic systems, i.e. systems in which the numerical selection of the outgoing line is under the control of an operator
- AL M 5/12 · Calling substations, e.g. by ringing
- AL M 5/20 · · Arrangements for indicating the numbers of the incoming lines
- CL M **7/00 Arrangements for interconnection between switching centres**
- CL M 7/12 · for working between exchanges having different types of switching equipment, e.g. power-driven and step by step or decimal and non-decimal
- CL M **9/00 Arrangements for interconnection not involving centralised switching**
- CL M 9/08 · Two-way loud-speaking telephone systems with means for conditioning the signal, e.g. for suppressing echoes for one or both directions of traffic
- CL M **11/00 Telephonic communication systems specially adapted for combination with other electrical systems**
- CL M 11/02 · with bell or annunciator systems
- CL M 11/04 · with alarm systems, e.g. fire, police or burglar alarm systems
- CL M 11/06 · Simultaneous speech and data transmission, e.g. telegraphic transmission over the same conductors
- CL M 11/08 · specially adapted for optional reception of entertainment or informative matter
- CL M 11/10 · with dictation recording and playback systems

- CL M 15/00 Arrangements for metering, time-control or time-indication
- CL M 15/02 • Severing connection after a predetermined time
- AL M 15/06 • • Recording class or number of calling party or called party
- AL M 15/26 • • with a meter at the exchange controlled by an operator
- AL M 15/30 • • the meter not being controlled from an exchange
- CL M 15/38 • Metering by apparatus other than mechanical step-by-step counter type
- AL M 17/02 • Coin-freed or check-freed systems
- AL M 19/02 • providing ringing current or supervisory tones, e.g. dialling tone or busy tone
- AL M 19/04 • • the ringing-current being generated at the substations
- AL M 19/06 • in which current supply sources at subordinate switching centres are charged from the main exchange
- CL M 19/08 • with current supply sources at the substations (generating ringing current **H04M 19/04**)
-

ANNEX 51E G10 [Project-Rapporteur : M110/EP] <WG19>

CL U Note < unchanged >
G10

CL M Class
index

ACOUSTICS; OPERATIONS ON SOUND WAVES

Speech analysis or synthesis; speech recognition; audio analysis or processing

G10L

Methods or devices for transmission of sound or protection against sound, not otherwise provided for

G10K 11/00, G10K 13/00

Acoustics not otherwise provided for

G10K 15/00

WIND INSTRUMENTS

General features; details or accessories

G10D 7/00; G10D 9/00

Organs, harmoniums or similar instruments

G10B 1/00, G10B 3/00

Accordions, concertinas or similar instruments; other types of instruments

G10D 11/00; G10D 7/00

Whistles; horns

G10K 5/00; G10K 9/00

STRINGED INSTRUMENTS

General features; details or accessories

G10D 1/00; G10D 3/00

Pianos, harpsichords, spinets or similar stringed musical instruments with one or more keyboards; tools and methods for the manufacture or maintenance thereof

**G10C 1/00, G10C 3/00;
G10C 9/00**

Other instruments	G10D 1/00
PERCUSSION INSTRUMENTS	
Bells, rattles or similar instruments	G10K 1/00, G10K 3/00
Other instruments	G10D 13/00
OTHER PARTICULAR DEVICES; DEVICES USING UNDEFINED PRINCIPLES; COMBINATIONS OF INSTRUMENTS; MUSIC ACCESSORIES	
Electrophonic musical instruments	G10H
Automatic musical instruments	G10F
Sirens; devices with vibrators	G10K 7/00; G10K 9/00
Combinations: of pianos with other instruments; of other instruments	G10C 5/00; G10D 15/00
Music accessories	G10G
INSTRUMENTS NOT OTHERWISE PROVIDED FOR	G10D 17/00

ANNEXE 51F G10

[**Projet-Rapporteur : M110/EP**] <WG19>
[Tr.: EP]

CL M Note
G10

1. La présente classe couvre tous les instruments émettant des sons, en général, que ceux-ci soient considérés comme étant musicaux ou non.
2. Dans la présente classe, l'expression suivante a la signification ci-dessous indiquée:
 - "instruments de musique" n'exclut pas les dispositifs émettant un signal sonore unique.
3. Le Schéma général qui suit a été élaboré à l'échelon de la classe elle-même afin de mettre en évidence le regroupement des élaborations appartenant aux diverses sous-classes, sous les trois types fondamentaux de rangement:
 - instruments à vent;
 - instruments à cordes;
 - instruments à percussion,qui intéressent sans ambiguïté la majorité des instruments.
4. Il existe bien entendu quelques instruments dont le principe de fonctionnement se réclame avec moins d'évidence de l'un des trois types mentionnés dans la note (3) ci-dessus. Ils correspondent aux groupes **G10D 17/00** ou **G10K 7/00, G10K 9/00** ou **G10K 15/04**, tous les autres groupes trouvant normalement une place bien définie.

CL M Schéma
général

**ACOUSTIQUE EN GÉNÉRAL; OPÉRATIONS SUR
LES ONDES SONORES**

Analyse ou synthèse de la parole; reconnaissance de la parole; analyse ou procédé audio

G10L

Procédés ou dispositifs de transmission du son ou de protection contre le son, non prévus ailleurs	G10K 11/00, G10K 13/00
Acoustique non prévue ailleurs	G10K 15/00
INSTRUMENTS À VENT	
Caractéristiques générales; détails ou accessoires	G10D 7/00; G10D 9/00
Orgues, harmoniums ou instruments similaires	G10B 1/00, G10B 3/00
Accordéons, concertinas ou instruments similaires; autres types d'instruments	G10D 11/00; G10D 7/00
Sifflets; cornes	G10K 5/00; G10K 9/00
INSTRUMENTS À CORDES	
Caractéristiques générales; détails ou accessoires	G10D 1/00; G10D 3/00
Pianos, clavecins, épinettes ou instruments de musique à cordes similaires avec un ou plusieurs claviers; outils ou procédés pour leur fabrication ou leur entretien	G10C 1/00, G10C 3/00; G10C 9/00
Autres instruments	G10D 1/00
INSTRUMENTS À PERCUSSION	
Cloches et crécelles ou instruments similaires	G10K 1/00, G10K 3/00
Autres instruments	G10D 13/00
INSTRUMENTS PARTICULIERS; INSTRUMENTS SE RÉCLAMANT D'UN PRINCIPE MAL DÉTERMINÉ; COMBINAISON D'INSTRUMENTS; ACCESSOIRES DE MUSIQUE	
Instruments de musique électrophoniques	G10H
Instruments de musique automatiques	G10F
Sirènes; instruments à diaphragmes vibrants	G10K 7/00; G10K 9/00
Combinaisons: de pianos avec d'autres instruments; d'autres instruments entre eux	G10C 5/00; G10D 15/00
Accessoires de musique	G10G
INSTRUMENTS NON PRÉVUS AILLEURS	G10D 17/00

ANNEX 52E G10B [Project-Rapporteur : M110/EP] <WG19>

CL M Title **ORGANS; HARMONIUMS OR LIKE WIND-ACTUATED MUSICAL INSTRUMENTS** (mouth organs **G10D 7/12**; accordions **G10D 11/00**; aspects of automatic actuation **G10F 1/12**; combinations of microphones, pick-ups or amplifiers with musical instruments **G10H**; electronic organs **G10H 7/00**)

CL M 1/00 General design

CL M 3/00 Details or accessories

AL M 3/02 · Blowers

- AL M 3/08 · Pipes, e.g. open pipes or reed pipes
 - AL M 3/12 · Keys or keyboards; Manuals
 - AL M 3/22 · Details peculiar to electrically-operated organs, e.g. contacts therein
-

ANNEXE 52F G10B [**Projet-Rapporteur : M110/EP**] <WG19>
[Tr.: EP]

- CL M **Titre** **ORGUES; HARMONIUMS OU INSTRUMENTS DE MUSIQUE À SOUFFLERIE SIMILAIRES** (harmonicas **G10D 7/12**; accordéons **G10D 11/00**; instruments automatiques **G10F 1/12**; combinaisons de microphones, de capteurs ou d'amplificateurs avec des instruments de musique **G10H**; orgues électroniques **G10H 7/00**)
 - CL M **1/00 Conception générale**
 - CL M **3/00 Parties constitutives ou accessoires**
 - AL M 3/02 · Soufflets
 - AL M 3/08 · Tuyaux, p.ex. tuyaux ouverts ou tuyaux à anches
 - AL M 3/12 · Touches ou claviers; Claviers d'orgue
 - AL U 3/22 < Inchangé >
-

ANNEX 53E G10C [**Project-Rapporteur : M110/EP**] <WG19>

- CL M **Title** **PIANOS, HARPSICHORDS, SPINETS OR SIMILAR STRINGED MUSICAL INSTRUMENTS WITH ONE OR MORE KEYBOARDS** (non-musical aspects of toy pianos **A63H 5/00**; aspects of automatic actuation **G10F**; combinations of microphones, pick-ups or amplifiers with musical instruments **G10H**)
 - CL M **1/00 General design**
 - AL M 1/06 · of harpsichords, spinets or similar stringed instruments
 - CL M **3/00 Details or accessories**
 - CL M **5/00 Combinations with other musical instruments, e.g. with bells or xylophones**
 - CL M **9/00 Methods or tools specially adapted for the manufacture or maintenance of musical instruments covered by this subclass**
-

ANNEXE 53F G10C [**Projet-Rapporteur : M110/EP**] <WG19>
[Tr.: EP]

CL M **Titre** **PIANOS, CLAVECINS, ÉPINETTES OU INSTRUMENTS DE MUSIQUE À CORDES SIMILAIRES AVEC UN OU PLUSIEURS CLAVIERS** (aspects non musicaux des pianos jouets **A63H 5/00**; instruments automatiques **G10F**; combinaisons de microphones, de capteurs ou d'amplificateurs avec des instruments de musique **G10H**)

CL M **1/00 Conception générale**

AL M 1/06 · des clavecins, des épinettes ou des instruments à cordes similaires

CL M **3/00 Parties constitutives ou accessoires**

CL M **5/00 Combinaisons avec d'autres instruments de musique, p.ex. avec des cloches ou des xylophones**

CL M **9/00 Procédés ou outils spécialement adaptés à la fabrication ou l'entretien des instruments de musique couverts par cette sous-classe**

ANNEX 54E G10D [**Project-Rapporteur : M110/EP**] <WG19>

CL M **Title** **STRINGED MUSICAL INSTRUMENTS; WIND-ACTUATED MUSICAL INSTRUMENTS; ACCORDIONS OR CONCERTINAS; PERCUSSION MUSICAL INSTRUMENTS; MUSICAL INSTRUMENTS NOT OTHERWISE PROVIDED FOR** (automatic musical instruments **G10F**; combinations of musical instruments with microphones, pick-ups or amplifiers **G10H**; sound-producing devices not regarded as musical instruments **G10K**)

CL N *Note* **G10D**

1. *This subclass covers certain stringed musical instruments that can optionally include a keyboard, e.g. zithers. [new.]*
2. *This subclass does not cover pianos, harpsichords, spinets or similar stringed instruments provided by design with one or more keyboards, which are covered by subclass G10C. [new.]*

CL M **1/00 General design of stringed musical instruments, e.g. violins, harps, mandolins, guitars, banjos or zithers**

CL M **3/00 Details of, or accessories for, stringed musical instruments, e.g. slide-bars**

AL M 3/08 · · in the form of keyboards

AL M 3/12 · Anchoring devices for strings, e.g. tail pieces or hitchpins

AL M 3/14 · Tuning devices, e.g. pegs, pins or friction discs

AL M 3/18 · Chin-rests, hand-rests or guards as part of the instrument

- CL M 7/00 **General design of wind-actuated musical instruments, e.g. flutes, ocarinas, oboes, clarinets, bagpipes, saxophones, trumpets or mouth-organs** (accordions or concertinas **G10D 11/00**; organs or harmoniums **G10B**; whistles **G10K**)
- AL M 7/02 · of the type wherein an air current is directed against a ramp edge, e.g. flutes or recorders
- AL M 7/06 · of the type with a beating reed [Rohrblatt] or reeds, e.g. oboes, clarinets, bassoons or bagpipes
- AL M 7/10 · of the type with a cupped mouthpiece, e.g. cornets, orchestral trumpets or trombones
- AL M 7/12 · of the type with free reeds [Zunge], e.g. mouth-organs or trumpets for children
- CL M 11/00 **Accordions, concertinas or the like; Keyboards therefor**
- CL M 13/00 **Percussion musical instruments, e.g. drums, tambourines, timpani, castanets, cymbals, triangles, gongs or plates; Details or accessories**
- AL M 13/06 · Castanets, cymbals, triangles or other single-toned percussion musical instruments (bells **G10K 1/00**)
- CL M 15/00 **Combinations of different musical instruments** (combinations with pianos, harpsichords, spinets or similar stringed instruments with one or more keyboards **G10C 5/00**)

ANNEXE 54F G10D

[Projet-Rapporteur : M110/EP] <WG19>
[Tr.: EP]

- CL M **Titre INSTRUMENTS DE MUSIQUE À CORDES; INSTRUMENTS DE MUSIQUE À SOUFFLERIE; ACCORDÉONS OU CONCERTINAS; INSTRUMENTS DE MUSIQUE À PERCUSSION; INSTRUMENTS DE MUSIQUE NON PRÉVUS AILLEURS** (instruments de musique automatiques **G10F**; combinaisons d'instruments de musique avec des microphones, des capteurs ou des amplificateurs **G10H**; dispositifs générateurs de sons non considérés comme des instruments de musique **G10K**)
- CL N *Note* G10D
1. *La présente sous-classe couvre certains instruments de musique à cordes pour lesquels la présence d'un clavier est facultative, p.ex. les cithares. [new.]*
 2. *La présente sous-classe ne couvre pas les pianos, les clavecins, les épinettes ou les instruments à cordes similaires qui comportent par conception un ou plusieurs claviers, et qui sont couverts par la sous-classe **G10C**. [new.]*
- CL M 1/00 **Conception générale des instruments de musique à cordes, p.ex. violons, harpes, mandolines, guitares, banjos ou cithares**
- CL M 3/00 **Parties constitutives des instruments de musique à cordes ou accessoires pour ces instruments, p.ex. barres glissantes [slide-bars]**
- AL M 3/08 · · en forme de claviers
- AL M 3/12 · Dispositifs de fixation des cordes, p.ex. cordiers ou chenètes de cordier

- AL M 3/14 · Dispositifs d'accordage, p.ex. cheville, chenète de cordier ou disques à friction
- AL M 3/18 · Mentonnières, plaques appui-bras ou gardes incorporées à l'instrument
- CL M 7/00 **Conception générale des instruments de musique à vent, p.ex. flûtes, ocarinas, hautbois, clarinettes, cornemuses, saxophones, trompettes ou harmonicas** (accordéons ou concertinas **G10D 11/00**; orgues ou harmoniums **G10B**; sifflets **G10K**)
- AL M 7/02 · du type dans lequel l'air soufflé est dirigé vers une arête de rampe, p.ex. flûtes ou flageolets
- AL M 7/06 · du type à anche battante [Rohrblatt] ou à anches, p.ex. hautbois, clarinettes, bassons ou cornemuses
- AL M 7/10 · du type avec une embouchure en forme de coupe, p.ex. cornets, trompettes d'harmonie ou trombones
- AL M 7/12 · du type à anches libres [à langue], p.ex. harmonicas ou trompettes jouets
- CL M 11/00 **Accordéons, concertinas ou instruments similaires; Claviers pour ces instruments**
- CL M 13/00 **Instruments de musique à percussion, p.ex. tambours, tambourins, timbales, castagnettes, cymbales, triangles, gongs ou plaques; Parties constitutives ou accessoires**
- AL M 13/06 · Castagnettes, cymbales, triangles ou autres instruments de musique à percussion à un seul ton (cloches **G10K 1/00**)
- CL M 15/00 **Combinaisons de différents instruments de musique** (combinaisons avec des pianos, des clavecins, des épinettes ou des instruments de musique à cordes similaires avec un ou plusieurs claviers **G10C 5/00**)

ANNEX 55E G10F [Project-Rapporteur : M110/EP] <WG19>

- CL M Title **AUTOMATIC MUSICAL INSTRUMENTS** (non-musical aspects of toy instruments **A63H 5/00**; sound-recording or reproducing **G11B**; working in association with recording or reproducing apparatus **G11B 31/02**)
- AL M 1/08 · Percussion musical instruments
- AL M 1/16 · Stringed musical instruments other than pianofortes
- CL M 5/00 **Details or accessories**
- AL M 5/06 · · Driving or setting of tune barrels, discs, or the like; Winding, rewinding, or guiding of tune sheets or the like
-

ANNEXE 55F G10F [**Projet-Rapporteur : M110/EP**] <WG19>
[Tr.: EP]

CL U **Titre** < Inchangé >

AL U 1/08 < Inchangé >

AL M 1/16 · Instruments de musique à cordes autres que des pianos

CL M **5/00 Parties constitutives ou accessoires**

AL M 5/06 · · Entraînement ou mise en place des cylindres, disques ou similaires; Dépliage, repliage ou guidage des plaques ou similaires

ANNEX 56E G10G [**Project-Rapporteur : M110/EP**] <WG19>

CL M **Title AIDS FOR MUSIC** (teaching music **G09B 15/00**) ; **SUPPORTS FOR MUSICAL INSTRUMENTS; OTHER AUXILIARY DEVICES OR ACCESSORIES FOR MUSIC OR MUSICAL INSTRUMENTS** (metronomes **G04F 5/02**)

CL M **7/00 Other auxiliary devices or accessories, e.g. conductors' batons or separate holders for resin or strings**

ANNEXE 56F G10G [**Projet-Rapporteur : M110/EP**] <WG19>
[Tr.: EP]

CL M **Titre ACCESSOIRES POUR LA MUSIQUE** (enseignement de la musique **G09B 15/00**) ; **SUPPORTS D'INSTRUMENTS DE MUSIQUE; AUTRES DISPOSITIFS AUXILIAIRES OU ACCESSOIRES POUR LA MUSIQUE OU POUR LES INSTRUMENTS DE MUSIQUE** (métronomes **G04F 5/02**)

CL M **7/00 Autres dispositifs auxiliaires ou accessoires, p.ex. baguettes de chef d'orchestre ou étuis indépendants pour la colophane ou pour les cordes**

ANNEX 57E G10H [**Project-Rapporteur : M110/EP**] <WG19>

CL M **Title ELECTROPHONIC MUSICAL INSTRUMENTS; INSTRUMENTS IN WHICH THE TONES ARE GENERATED BY ELECTROMECHANICAL MEANS OR ELECTRONIC GENERATORS, OR IN WHICH THE TONES ARE SYNTHESISED FROM A DATA STORE**

CL M **Note** This subclass covers musical instruments in which individual notes are constituted as **G10H** electric oscillations under the control of a performer and the oscillations are converted to sound-vibrations by a loudspeaker or equivalent device.

- CL M 1/02 · Means for controlling the tone frequencies, e.g. attack or decay; Means for producing special musical effects, e.g. vibratos or glissandos
- AL M 1/12 · · · by filtering complex waveforms (**G10H 1/14**, **G10H 1/16** take precedence)
- AL M 3/12 · using mechanical resonant generators, e.g. strings or percussion instruments, the tones of which are picked up by electromechanical transducers, the electrical signals being further manipulated or amplified and subsequently converted to sound by a loudspeaker or equivalent device
- AL M 3/18 · · · using a string, e.g. electric guitars
- AL M 5/14 · using electromechanical resonators, e.g. quartz crystals, as frequency-determining elements
- AL M 5/16 · using cathode ray tubes

ANNEXE 57F G10H [**Projet-Rapporteur : M110/EP**] <**WG19**>
[Tr.: EP]

CL M **Titre INSTRUMENTS DE MUSIQUE ÉLECTROPHONIQUES; INSTRUMENTS DANS LESQUELS LES SONS SONT PRODUITS PAR DES MOYENS ÉLECTROMÉCANIQUES OU DES GÉNÉRATEURS ÉLECTRONIQUES, OU DANS LESQUELS LES SONS SONT SYNTHÉTISÉS À PARTIR D'UNE MÉMOIRE DE DONNÉES**

- CL M Note G10H La présente sous-classe couvre les instruments de musique dans lesquels les différentes notes se présentent sous la forme d'oscillations électriques commandées par un exécutant et ou les oscillations sont converties en vibrations sonores par un haut-parleur ou un dispositif équivalent.
- CL M 1/02 · Moyens pour contrôler la fréquence des sons, p.ex. attaque ou affaiblissement; Moyens pour produire des effets musicaux particuliers, p.ex. vibratos ou glissandos
- AL M 1/12 · · · en filtrant des formes d'onde complexes (**G10H 1/14**, **G10H 1/16** ont priorité)
- AL M 3/12 · utilisant des générateurs résonnants mécaniques, p.ex. des cordes ou des instruments à percussion, dont les sons sont captés par des transducteurs électromécaniques, les signaux électriques étant alors traités ou amplifiés puis convertis en ondes sonores au moyen d'un haut-parleur ou d'un dispositif équivalent
- AL M 3/18 · · · utilisant une corde, p.ex. guitares électriques
- AL M 5/14 · utilisant des résonateurs électromécaniques, p.ex. des cristaux de quartz, comme éléments déterminant la fréquence
- AL M 5/16 · utilisant des tubes à rayons cathodiques
-

ANNEX 58E G10K [Project-Rapporteur : M110/EP] <WG19>

- CL M Title **SOUND-PRODUCING DEVICES** (sound-producing toys [A63H 5/00](#)) ; **METHODS OR DEVICES FOR PROTECTING AGAINST, OR FOR DAMPING, NOISE OR OTHER ACOUSTIC WAVES IN GENERAL; ACOUSTICS NOT OTHERWISE PROVIDED FOR**
- CL M 1/00 **Devices in which sound is produced by striking a resonating body, e.g. bells, chimes or gongs** (combinations with clocks or watches [G04B](#), [G04C](#); multi-toned musical instruments [G10D 13/08](#); automatic carillons [G10F 1/10](#))
- CL M 9/00 **Devices in which sound is produced by vibrating a diaphragm or analogous element, e.g. fog horns, vehicle hooters or buzzers** (loudspeakers or like acoustic electromechanical transducers [H04R](#))
- AL M 9/18 · Details, e.g. bulbs, pumps, pistons, switches or casings
- CL M 11/00 **Methods or devices for transmitting, conducting or directing sound in general; Methods or devices for protecting against, or for damping, noise or other acoustic waves in general**
- AL M 11/16 · Methods or devices for protecting against, or for damping, noise or other acoustic waves in general ([G10K 11/36](#) takes precedence)
- AL D Note < Deleted / Supprimée >
11/16
- AL M Note When classifying in this group, classification is also made in subclass [B32B](#), insofar as any 11/168 layered product is concerned. [6]
- AL M 11/24 · · for conducting sound through solid bodies, e.g. wires
- AL M 11/28 · · · using reflection, e.g. parabolic reflectors

ANNEXE 58F G10K [Projet-Rapporteur : M110/EP] <WG19>
[Tr.: EP]

- CL M Titre **DISPOSITIFS GÉNÉRATEURS DE SONS** (jouets musicaux ou sonores [A63H 5/00](#)) ; **PROCÉDÉS OU DISPOSITIFS DE PROTECTION CONTRE LE BRUIT OU LES AUTRES ONDES ACOUSTIQUES OU POUR AMORTIR CEUX-CI, EN GÉNÉRAL; ACOUSTIQUE NON PRÉVUE AILLEURS**
- CL M 1/00 **Dispositifs dans lesquels le son est produit en frappant un corps résonnant, p.ex. cloches, sonneries ou gongs** (combinaisons avec des horloges ou des montres [G04B](#), [G04C](#); instruments de musique à sons multiples [G10D 13/08](#); carillons automatiques [G10F 1/10](#))
- CL M 9/00 **Dispositifs dans lesquels le son est produit par la vibration d'un diaphragme ou un élément analogue, p.ex. cornes de brume, avertisseurs de véhicule ou vibreurs** (haut-parleurs ou transducteurs acoustiques électromécaniques analogues [H04R](#))

- AL M 9/18 · Parties constitutives, p.ex. poires, pompes, pistons, commutateurs ou habillages
- CL M 11/00 **Procédés ou dispositifs pour transmettre, conduire ou diriger le son en général; Procédés ou dispositifs de protection contre le bruit ou les autres ondes acoustiques ou pour amortir ceux-ci, en général**
- AL M 11/16 · Procédés ou dispositifs de protection contre le bruit ou les autres ondes acoustiques ou pour amortir ceux-ci, en général (**G10K 11/36** a priorité)
- AL D Note < Deleted / Supprimée >
11/16
- AL U Note < Inchangée >
11/168
- AL M 11/24 · · pour conduire le son à travers des corps solides, p.ex. fils métalliques
- AL M 11/28 · · · utilisant la réflexion, p.ex. réflecteurs paraboliques

ANNEX 59E H04R [Project-Rapporteur : M110/EP] <WG19>

- CL M 3/12 · for distributing signals to two or more loudspeakers
- CL M 5/02 · Spatial or constructional arrangements of loudspeakers
- CL U 5/02 < unchanged >
- AL M 9/06 · Loudspeakers
- AL M 11/02 · Loudspeakers
- AL M 19/02 · Loudspeakers (**H04R 19/01** takes precedence)
- CL M 27/00 **Public address systems** (circuits for preventing acoustic reaction **H04R 3/02**; circuits for distributing signals to loudspeakers **H04R 3/12**; amplifiers **H03F**)

ANNEXE 59F H04R [Projet-Rapporteur : M110/EP] <WG19>
[Tr.: EP]

- CL U 3/12 < Inchangé >
- CL M 5/02 · Dispositions spatiales ou structurelles de haut-parleurs
- CL U 5/02 < Inchangé >
- AL U 9/06 < Inchangé >
- AL U 11/02 < Inchangé >

AL U 19/02 < Inchangé >

CL U 27/00 < Inchangé >

ANNEX 60E B27K [Project-Rapporteur : M700/SE] <WG19>

CL M Title **PROCESSES, APPARATUS OR SELECTION OF SUBSTANCES FOR IMPREGNATING, STAINING, DYEING OR BLEACHING OF WOOD, OR FOR TREATING OF WOOD WITH PERMEANT LIQUIDS, NOT OTHERWISE PROVIDED FOR** (applying liquids or other fluent materials to surfaces in general **B05**; coating wood or similar material **B44D**) ; **CHEMICAL OR PHYSICAL TREATMENT OF CORK, CANE, REED, STRAW OR SIMILAR MATERIALS**

ANNEX 61E B60L [Project-Rapporteur : M701/SE] <WG19>

CL M Title **PROPULSION OF ELECTRICALLY-PROPELLED VEHICLES** (arrangements or mounting of electrical propulsion units in vehicles **B60K 1/00**, **B60K 6/20**; arrangements or mounting of electrical gearing in vehicles **B60K 17/04**; preventing wheel slip by reducing power in rail vehicles **B61C 15/08**) ; **SUPPLYING ELECTRIC POWER FOR AUXILIARY EQUIPMENT OF VEHICLES** (electric coupling devices combined with mechanical couplings of vehicles **B60D 1/62**) ; **ELECTRODYNAMIC BRAKE SYSTEMS FOR VEHICLES IN GENERAL; MAGNETIC SUSPENSION OR LEVITATION FOR VEHICLES; MONITORING OPERATING VARIABLES OF ELECTRICALLY-PROPELLED VEHICLES; ELECTRIC SAFETY DEVICES FOR ELECTRICALLY-PROPELLED VEHICLES**

AL M Title **PROPULSION OF ELECTRICALLY-PROPELLED VEHICLES** (arrangements or mounting of electrical propulsion units in vehicles **B60K 1/00**, **B60K 6/20**; arrangements or mounting of electrical gearing in vehicles **B60K 17/12**, **B60K 17/14**; preventing wheel slip by reducing power in rail vehicles **B61C 15/08**) ; **SUPPLYING ELECTRIC POWER FOR AUXILIARY EQUIPMENT OF VEHICLES** (electric coupling devices combined with mechanical couplings of vehicles **B60D 1/62**) ; **ELECTRODYNAMIC BRAKE SYSTEMS FOR VEHICLES IN GENERAL; MAGNETIC SUSPENSION OR LEVITATION FOR VEHICLES; MONITORING OPERATING VARIABLES OF ELECTRICALLY-PROPELLED VEHICLES; ELECTRIC SAFETY DEVICES FOR ELECTRICALLY-PROPELLED VEHICLES**

ANNEX 62E A62B [Project-Rapporteur : M703/US] <WG19>

CL M 29/00 **Devices, e.g. installations, for rendering harmless or for keeping off harmful chemical agents** (respiratory apparatus **A62B 7/00**; gasproof doors, windows, shutters **E06B**)

ANNEX 63E A62D [Project-Rapporteur : M703/US] <WG19>

CL M 3/00 Processes for making harmful chemical substances harmless, or less harmful, by effecting a chemical change in the substances (devices for rendering harmful chemical agents harmless [A62B 29/00](#); consuming noxious gases by combustion [F23G 7/06](#))

ANNEX 64E B29K [Project-Rapporteur : M704/EP] <WG19>

AL M 1/00 Use of cellulose, modified cellulose or cellulose derivatives, e.g. viscose, in moulding materials

AL M 7/00 Use of natural rubber in moulding materials

AL M 9/00 Use of rubber derived from conjugated dienes, in moulding materials

AL M 19/00 Use of rubber not provided for in a single one of main groups [B29K 7/00-B29K 9/00](#), in moulding materials

AL M 21/00 Use of unspecified rubbers in moulding materials

AL M 23/00 Use of polyalkenes in moulding materials

AL M 25/00 Use of polymers of vinyl-aromatic compounds in moulding materials

AL M 27/00 Use of polyvinylhalogenides in moulding materials

AL M 29/00 Use of polyvinylalcohols, polyvinylethers, polyvinylaldehydes, polyvinylketones or polyvinylketals in moulding materials

AL M 31/00 Use of polyvinylesters in moulding materials

AL M 33/00 Use of polymers of unsaturated acids or derivatives thereof, in moulding materials ([B29K 35/00](#) takes precedence)

AL M 35/00 Use of polymers of unsaturated polycarboxylic acids in moulding materials

AL M 45/00 Use of polymers of unsaturated cyclic compounds having no unsaturated aliphatic groups in a side-chain, e.g. coumarone-indene resins, in moulding materials

AL M 55/00 Use of specific polymers obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in a single one of main groups [B29K 23/00-B29K 45/00](#), in moulding materials

AL M 59/00 Use of polyacetals in moulding materials

AL M 61/00 Use of condensation polymers of aldehydes or ketones, in moulding materials

AL M 63/00 Use of epoxy resins in moulding materials

AL M 67/00 Use of polyesters in moulding materials

- AL M 69/00 Use of polycarbonates in moulding materials
- AL M 71/00 Use of polyethers in moulding materials
- AL M 73/00 Use of other polymers having oxygen as the only hetero atom in the main chain, in moulding materials
- AL M 75/00 Use of polyureas or polyurethanes in moulding materials
- AL M 77/00 Use of polyamides, e.g. polyesteramides, in moulding materials
- AL M 79/00 Use of other polymers having nitrogen, with or without oxygen or carbon only, in the main chain, in moulding materials
- AL M 81/00 Use of polymers having sulfur, with or without nitrogen, oxygen or carbon only, in the main chain, in moulding materials
- AL M 83/00 Use of polymers having silicon, with or without sulfur, nitrogen, oxygen or carbon only, in the main chain, in moulding materials
- AL M 85/00 Use of polymers having elements other than silicon, nitrogen, oxygen or carbon only, in the main chain, in moulding materials
- AL M 86/00 Use of specific polymers obtained by polycondensation or polyaddition, not provided for in a single one of main groups [B29K 59/00-B29K 85/00](#), in moulding materials
- AL M 91/00 Use of waxes in moulding materials
- AL M 95/00 Use of bituminous materials in moulding materials
- AL M 96/00 Use of specified macromolecular materials not provided for in a single one of main groups [B29K 1/00-B29K 95/00](#), in moulding materials
- AL M 101/00 Use of unspecified macromolecular compounds in moulding materials (use of unspecified rubbers [B29K 21/00](#))
- AL M 103/00 Use of resin-bonded materials in moulding materials
- AL M 201/00 Use of cellulose, modified cellulose or cellulose derivatives, e.g. viscose, in reinforcements
- AL M 207/00 Use of natural rubber in reinforcements
- AL M 209/00 Use of rubber derived from conjugated dienes, in reinforcements
- AL M 219/00 Use of rubber not provided for in a single one of main groups [B29K 207/00-B29K 209/00](#), in reinforcements
- AL M 221/00 Use of unspecified rubbers in reinforcements
- AL M 223/00 Use of polyalkenes in reinforcements
- AL M 225/00 Use of polymers of vinyl-aromatic compounds in reinforcements
- AL M 227/00 Use of polyvinylhalogenides in reinforcements

- AL M 229/00 Use of polyvinylalcohols, polyvinylethers, polyvinylaldehydes, polyvinylketones or polyvinylketals in reinforcements
- AL M 231/00 Use of polyvinylesters in reinforcements
- AL M 233/00 Use of polymers of unsaturated acids or derivatives thereof, in reinforcements (B29K 235/00 takes precedence)
- AL M 235/00 Use of polymers of unsaturated polycarboxylic acids in reinforcements
- AL M 245/00 Use of polymers of unsaturated cyclic compounds having no unsaturated aliphatic groups in a side-chain, e.g. coumarone-indene resins, in reinforcements
- AL M 255/00 Use of specific polymers obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in a single one of main groups B29K 223/00-B29K 245/00, in reinforcements
- AL M 259/00 Use of polyacetals in reinforcements
- AL M 261/00 Use of condensation polymers of aldehydes or ketones, in reinforcements
- AL M 263/00 Use of epoxy resins in reinforcements
- AL M 267/00 Use of polyesters in reinforcements
- AL M 269/00 Use of polycarbonates in reinforcements
- AL M 271/00 Use of polyethers in reinforcements
- AL M 273/00 Use of other polymers having oxygen as the only hetero atom in the main chain, in reinforcements
- AL M 275/00 Use of polyureas or polyurethanes in reinforcements
- AL M 277/00 Use of polyamides, e.g. polyesteramides, in reinforcements
- AL M 279/00 Use of other polymers having nitrogen, with or without oxygen or carbon only, in the main chain, in reinforcements
- AL M 281/00 Use of polymers having sulfur, with or without nitrogen, oxygen or carbon only, in the main chain, in reinforcements
- AL M 283/00 Use of polymers having silicon, with or without sulfur, nitrogen, oxygen or carbon only, in the main chain, in reinforcements
- AL M 285/00 Use of polymers having elements other than silicon, nitrogen, oxygen or carbon only, in the main chain, in reinforcements
- AL M 286/00 Use of specific polymers obtained by polycondensation or polyaddition, not provided for in a single one of main groups B29K 259/00-B29K 285/00, in reinforcements
- AL M 295/00 Use of bituminous materials in reinforcements
- AL M 296/00 Use of specific macromolecular materials not provided for in a single one of main groups B29K 201/00-B29K 295/00, in reinforcements

- AL M 301/00 Use of unspecified macromolecular compounds in reinforcements (use of unspecified rubbers [B29K 221/00](#))
- AL M 303/00 Use of resin-bonded materials in reinforcements
- AL M 305/00 Use of metals, their alloys or their compounds, in reinforcements
- AL M 307/00 Use of elements other than metals in reinforcements
- AL M 309/00 Use of inorganic materials not provided for in groups [B29K 303/00-B29K 307/00](#), in reinforcements
- AL M 311/00 Use of natural products or their composites, not provided for in groups [B29K 201/00-B29K 309/00](#), in reinforcements
- AL M 401/00 Use of cellulose, modified cellulose or cellulose derivatives, e.g. viscose, in fillers
- AL M 407/00 Use of natural rubber in fillers
- AL M 409/00 Use of rubber derived from conjugated dienes, in fillers
- AL M 419/00 Use of rubber not provided for in a single one of main groups [B29K 407/00-B29K 409/00](#), in fillers
- AL M 421/00 Use of unspecified rubbers in fillers
- AL M 423/00 Use of polyalkenes in fillers
- AL M 425/00 Use of polymers of vinyl-aromatic compounds in fillers
- AL M 427/00 Use of polyvinylhalogenides in fillers
- AL M 429/00 Use of polyvinylalcohols, polyvinylethers, polyvinylaldehydes, polyvinylketones or polyvinylketals in fillers
- AL M 431/00 Use of polyvinylesters in fillers
- AL M 433/00 Use of polymers of unsaturated acids or derivatives thereof, in fillers ([B29K 435/00](#) takes precedence)
- AL M 435/00 Use of polymers of unsaturated polycarboxylic acids in fillers
- AL M 445/00 Use of polymers of unsaturated cyclic compounds having no unsaturated aliphatic groups in a side-chain, e.g. coumarone-indene resins, in fillers
- AL M 455/00 Use of specific polymers obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in a single one of main groups [B29K 423/00-B29K 445/00](#), in fillers
- AL M 459/00 Use of polyacetals in fillers
- AL M 461/00 Use of condensation polymers of aldehydes or ketones, in fillers
- AL M 463/00 Use of epoxy resins in fillers

- AL M 467/00 Use of polyesters in fillers
- AL M 469/00 Use of polycarbonates in fillers
- AL M 471/00 Use of polyethers in fillers
- AL M 473/00 Use of other polymers having oxygen as the only hetero atom in the main chain, in fillers
- AL M 475/00 Use of polyureas or polyurethanes in fillers
- AL M 477/00 Use of polyamides, e.g. polyesteramides, in fillers
- AL M 479/00 Use of other polymers having nitrogen, with or without oxygen or carbon only, in the main chain, in fillers
- AL M 481/00 Use of polymers having sulfur, with or without nitrogen, oxygen or carbon only, in the main chain, in fillers
- AL M 483/00 Use of polymers having silicon, with or without sulfur, nitrogen, oxygen or carbon only, in the main chain, in fillers
- AL M 485/00 Use of polymers having elements other than silicon, nitrogen, oxygen or carbon only, in the main chain, in fillers
- AL M 486/00 Use of specific polymers obtained by polycondensation or polyaddition, not provided for in a single one of main groups [B29K 459/00-B29K 485/00](#), in fillers
- AL M 491/00 Use of waxes in fillers
- AL M 495/00 Use of bituminous materials in fillers
- AL M 496/00 Use of specific macromolecular materials not provided for in a single one of main groups [B29K 401/00-B29K 495/00](#), in fillers
- AL M 501/00 Use of unspecified macromolecular compounds in fillers (use of unspecified rubbers [B29K 421/00](#))
- AL M 503/00 Use of resin-bonded materials in fillers
- AL M 505/00 Use of metals, their alloys or their compounds, in fillers
- AL M 507/00 Use of elements other than metals in fillers
- AL M 509/00 Use of inorganic materials not provided for in groups [B29K 503/00-B29K 507/00](#), in fillers
- AL M 511/00 Use of natural products or their composites, not provided for in groups [B29K 401/00-B29K 509/00](#), in fillers
- AL M 601/00 Use of cellulose, modified cellulose or cellulose derivatives, e.g. viscose, in preformed parts, e.g. inserts
- AL M 607/00 Use of natural rubber in preformed parts, e.g. inserts

- AL M 609/00 Use of rubber derived from conjugated dienes, in preformed parts, e.g. inserts
- AL M 619/00 Use of rubber not provided for in a single one of main groups [B29K 607/00-B29K 609/00](#), in preformed parts, e.g. inserts
- AL M 621/00 Use of unspecified rubbers in preformed parts, e.g. inserts
- AL M 623/00 Use of polyalkenes in preformed parts, e.g. inserts
- AL M 625/00 Use of polymers of vinyl-aromatic compounds in preformed parts, e.g. inserts
- AL M 627/00 Use of polyvinylhalogenides in preformed parts, e.g. inserts
- AL M 629/00 Use of polyvinylalcohols, polyvinylethers, polyvinylaldehydes, polyvinylketones or polyvinylketals in preformed parts, e.g. inserts
- AL M 631/00 Use of polyvinylesters in preformed parts, e.g. inserts
- AL M 633/00 Use of polymers of unsaturated acids or derivatives thereof, in preformed parts, e.g. inserts ([B29K 635/00](#) takes precedence)
- AL M 635/00 Use of polymers of unsaturated polycarboxylic acids in preformed parts, e.g. inserts
- AL M 645/00 Use of polymers of unsaturated cyclic compounds having no unsaturated aliphatic groups in a side-chain, e.g. coumarone-indene resins, in preformed parts, e.g. inserts
- AL M 655/00 Use of specific polymers obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in a single one of main groups [B29K 623/00-B29K 645/00](#), in preformed parts, e.g. inserts
- AL M 659/00 Use of polyacetals in preformed parts, e.g. inserts
- AL M 661/00 Use of condensation polymers of aldehydes or ketones, in preformed parts, e.g. inserts
- AL M 663/00 Use of epoxy resins in preformed parts, e.g. inserts
- AL M 667/00 Use of polyesters in preformed parts, e.g. inserts
- AL M 669/00 Use of polycarbonates in preformed parts, e.g. inserts
- AL M 671/00 Use of polyethers in preformed parts, e.g. inserts
- AL M 673/00 Use of other polymers having oxygen as the only hetero atom in the main chain, in preformed parts, e.g. inserts
- AL M 675/00 Use of polyureas or polyurethanes in preformed parts, e.g. inserts
- AL M 677/00 Use of polyamides, e.g. polyesteramides, in preformed parts, e.g. inserts
- AL M 679/00 Use of other polymers having nitrogen, with or without oxygen or carbon only, in the main chain, in preformed parts, e.g. inserts
- AL M 681/00 Use of polymers having sulfur, with or without nitrogen, oxygen or carbon only, in the main chain, in preformed parts, e.g. inserts

- AL M 683/00 Use of polymers having silicon, with or without sulfur, nitrogen, oxygen or carbon only, in the main chain, in preformed parts, e.g. inserts
- AL M 685/00 Use of polymers having elements other than silicon, nitrogen, oxygen or carbon only, in the main chain, in preformed parts, e.g. inserts
- AL M 686/00 Use of specific polymers obtained by polycondensation or polyaddition, not provided for in a single one of main groups [B29K 659/00-B29K 685/00](#), in preformed parts, e.g. inserts
- AL M 691/00 Use of waxes in preformed parts, e.g. inserts
- AL M 695/00 Use of bituminous materials in preformed parts, e.g. inserts
- AL M 696/00 Use of specific macromolecular materials not provided for in a single one of main groups [B29K 601/00-B29K 695/00](#), in preformed parts, e.g. inserts
- AL M 701/00 Use of unspecified macromolecular compounds in preformed parts, e.g. inserts (use of unspecified rubbers [B29K 621/00](#))
- AL M 703/00 Use of resin-bonded materials in preformed parts, e.g. inserts
- AL M 705/00 Use of metals, their alloys or their compounds, in preformed parts, e.g. inserts
- AL M 707/00 Use of elements other than metals in preformed parts, e.g. inserts
- AL M 709/00 Use of inorganic materials not provided for in groups [B29K 703/00-B29K 707/00](#), in preformed parts, e.g. inserts
- AL M 711/00 Use of natural products or their composites, not provided for in groups [B29K 601/00-B29K 709/00](#), in preformed parts, e.g. inserts

ANNEX 65E B65D [Project-Rapporteur : M706/SE] <WG19>

CL M Guidance Closure members, other than those folded of paper and incorporated in or attached to the container, for opening of rigid or semi-rigid containers without destroying outer wall portions of the container itself, or of flexible containers presenting similar closing problems; Arrangements or devices for preventing refilling of containers; Parts of containers co-operating with closure members or characterised by the form of closure members

heading
39/00-
55/00

[End of Technical Annexes and of document/
Fin des annexes techniques et du document]