Derwent World Patents Index Manual Codes

2017 Revision

August 2017

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What are the Manual Coding Systems?

EPI Manual Codes

The Electrical Patents Index Manual Codes (EPI Manual Codes) system is a hierarchical classification and indexing system, intended for use as an online retrieval tool for abstracts of Electrical and Electronic engineering patents.

CPI Manual and Fragmentation Codes

The Chemical Patents Index Manual Codes (CPI Manual Codes) and Fragmentation Codes system is a hierarchical classification and indexing system, intended for use as an online retrieval tool for abstracts of Chemical and Biological patents.

Why are Manual and Fragmentation Codes important?

Since the coding highlights the novel technical aspects of the invention as well as the application(s), it is extremely useful to improve the precision and recall of patent searches and the subsequent analysis of result sets.

Why use DWPI Manual Codes?

- The Editorial team consistently applies DWPI Manual Codes to new inventions across all 50 authorities covered in the database.

- Manual Codes are applied by a subject expert who is in effect giving an opinion on which area of technology is being referred to in the patent Codes only cover standard technology terms so the code applied is the best fit to the technology described

- Code hierarchies are updated annually to reflect changes in technology with input from users of the system

- A small team of people applies codes in any given technology area so codes should be applied more consistently than IPC

- Where a patent involves more than one technology area it will have codes applied by different subject specialists for each technology area

Which codes should I use?

Manual code look up tool on the Thomson Reuters Website

- http://ips.clarivate.com/mcl/
- Lets you look up codes based on key words or look up the meaning of a code
- Also shows codes within the hierarchies
- Where the code has changed over time both the current and older codes are shown

DWPI manual code manuals

- Includes all codes that have ever been applied including retired codes
- Includes special indexes covering all codes related to the growth areas of nanotechnology and green technology
- CPI manual

http://ips.clarivate.com/support/patents/userguides/chemistryguides/

- EPI manuals

http://ips.clarivate.com/support/patents/userguides/engineeringguides/

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Why is it important to revise Manual Codes?

- It is critical to index our patent information in line with technological developments, to help our customers find the information they need with precision and accuracy, as easily as possible.

- The goal is to ensure that the indexing, intellectually-applied to patent documents in DWPI Index is in sync with the very latest technology developments so you get the right results, the first time you search.

Annual Manual Code revision

We carry out a manual code review every year primarily to:

- add new codes for technology we can't currently cover
- take into account suggestions for improvements
- enhance code descriptions and scope notes to improve the consistency of code application by the editorial teams and understanding of what each code covers.
- further subdivide codes to provide a finer breakdown when it becomes clear the a specific code or an "other" code (that we use to code technology that doesn't fit into any of our more specific codes) is being used quite a lot, and hence it would be better to give it its own code

Larger changes are made to the code structures when:

- we can't easily cover the codes we need to
- if we have reached the maximum 10 digits in code hierarchy but still need to break the subject area down further

Annual Manual Code revision 2017

73 New Codes were added for the 2017 revision:

- 35 CPI (A-N classes)
- 38 EPI & GMPI (P-X classes)
- Total of 24,930 current DWPI Manual codes

Significant updates include :

- **B11-C17 and C11-C17:** New codes for Bioprinting
- New sub-codes for **P81-A01 Lens and lens systems** giving much finer levels of detail
- New sub-codes and enhancements in
  - **W01-C01 Telephony - subscriber equipment** and
  - **W02-C03 Radio systems** sections

Annual Manual Code revision

2015 Manual Code revision saw large-scale changes, including:

- New manual coding for all of Section P (agriculture, domestic, health, optics etc.) and for Sections Q41 to Q49 (buildings, construction) and Q71 to Q79 (lighting, heating)

January 2016 Manual Code revision introduces 220 new codes:

- Introduction of codes for **Biosimilars**
- Expansion of coding for specific **Immunoglobulins** and other antibody types
- Recasting and expansion of **Diagnostics** sections B/C 12-K04A (moved to new section B/C12-K04G to facilitate a better coding structure and additional codes).
- 22 new codes added to the **X25-A08** 3D printing / additive manufacturing hierarchy

New coding can be introduced in **response to customer** interest, including:

Customer-driven code changes - 2016

Biosimilars – code B04-R

- Code added so customers can explicitly search this term when mentioned in the claims and is applied alongside any other relevant codes for claimed compounds.
- The code will be applied only when the term ‘biosimilar’ or ‘biosimilars’ is given in the claims (references to biosimilars in the main disclosure of the patent which are not claimed will not be captured). Related terms such as ‘bio-betters’ also covered.

Immunoglobulins (specific) – code B04-G27+

- Only specific immunoglobulins are covered within this coding section. General and unspecified immunoglobulins should be searched using B04-G01
- Specific subsection created for the five classes of Immunoglobulins with IgA, IgD, IgE, IgG and IgM having their own individual subcodes. The creation of this new subsection gives precise coverage of this important area which was previously subsumed in the ‘general antibodies’ code.

Heterospecific antibody – code B04-G26

- An individual antibody which can bind more than one antigen due to the presence of two or more different binding sites. May be searched in conjunction with additional codes from B04-G and also has a genetically engineered equivalent.
- code applied alongside the activity of the antibody and is a complementary code specifying the type of antibody being claimed and is of the same ‘family’ as the current codes 04-G21 to 04-G24, giving more completeness in this area.

Customer-driven code changes

2015

- The new P&Q codes were designed by our team of Engineering experts as a result of direct customer consultation, allowing us to redesign the hierarchies in response to the detailed customer feedback
- New sub-codes for U14-H01E (Thin film transparent conductive layers)
- Codes for Fabry Disease (a genetic disorder which leads to an enzyme deficiency) and Hunter Syndrome (a Lysosomal storage disease) and antioxidant and free radical scavenger drugs

2014

- several new Q51 codes
- codes B14-A02B0 and C14-A02B0 for Calcivirus / Norovirus
- plus editing of code titles in B, C and E classes to include full names of metals in addition to two-character abbreviations, to assist customers using the Manual Code lookup tool.

Customer-driven code changes

2013 instrumentation/motor control Manual Codes

- we revised some of the S02-A mechanical measurement instrumentation codes to reduce the number of duplicate codes
- also revised the X13-F and X13-G motor control codes ensure more consistent code application.

Sealed Air – Packaging - 2012

In 2012 we introduced mechanical codes to cover packaging inventions in response to interaction with Sealed Air Packaging. This involved a large redesign of the Q31-Q34 codes to cover:

- Q31 packaging processes and equipment - packaging, filling, bottling, labeling etc.
- Q32 types of package – novel bottles, boxes, lids, handles etc.
- Q33 Packaging/container constructional materials
- Q34 Types of things being packaged – drinks, food, pharmaceuticals, toxic material, white goods etc.

Customer-driven code changes

• Brief code hierarchies were also added at the same time for Q35, Q36 and Q38 for things like conveyors, refuse collection, handling thin materials, lifts, escalators etc. Q37 and Q39 have been discontinued and incorporated into the other codes.

Hotpoint - Washing machines and driers – 2007

- In 2007 we introduced much more detailed codes to cover details of washing machines, washer-driers, tumble driers etc. in response to a request from Hotpoint.
- Some changes to the way abstracts were written also took place at the same time to make it easier to assign some of the codes such as trying to specify in the abstract that the washing machine was a horizontal axis front loader.

Customer-driven code changes

2006 Automotive mechanical Manual Codes introduced:

- Q11-Q19 to cover motor vehicles, bicycles, motorbikes, tractors, lorries, caravans, hybrid vehicles etc.
- Q22 to cover hand/foot propelled vehicles such as pushchairs, wheelbarrows, scooters as well as horse pulled carts, sledges etc.
- Q24 to cover marine vessels, ships, boats, surfboards
- (Q23 was for cycles pre 2006 but since we incorporated cycles into Q11-Q19, Q23 was discontinued in 2006)
- Q25 to cover aerospace such as planes, gliders, helicopters, blimps, space craft

Code hierarchies were also introduced in Q5* and Q6* at the same time

- Q5* covers engines, pumps, compressors etc.
- Q6* covers general fastenings, clutches, brakes, gears, drives etc.

Manual Code revision – your input

Submit Your Suggestions

- If you would like to submit a suggestion for possible inclusion in future DWPI Manual Code Revisions, please email us at: scientific.mcrdwpi@clarivate.com

Manual Code Revision Webpage

- http://ips.clarivate.com/support/patents/dwpiref/reftools/classification/code-revision/

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