

CPI Manual Code Revision - Final List

For implementation in January 2005

Proposed code or area of interest	Name	Description	New, changed or retired code
Section A Polymers and Plastics			
A05-E02A	From saturated, (cyclo)aliphatic, dicarboxylic acids, dihydric alcohols or phenols		New
A05-E02B	From hydroxyacids e.g. polyhydroxybutyrate, polyhydroxyvalerate.		New
A05-E02C	From lactones and glycolides		New
A09-A05B	Shape-memory property		New
Section B Pharmaceuticals and Section C Agricultural Chemicals			
B04 Polymers and Natural Products			
B04-B03D	Modified nucleosides	E.g. C in ring, open chain structure	New
B04-B03E	Modified nucleotides	E.g. C in ring, open chain structure	New
B04-B04C8	Cancer antigen		New
B04-B04C9	Allergen	An antigenic substance capable of producing immediate type hypersensitivity (i.e. an allergic reaction). Also code the specific substance which is the allergen (e.g. 04-A08C2 + 04-A09C for pollen)	New
B04-C01H	Modified and/or cyclic peptides	Includes analogs. Should be applied in conjunction with a length code selected from/B04-C01A to B04-C01G. Not used for peptides cyclised purely by disulfide bridge formation.	New
B04-C03F	Silicones		New
B04-E07A	Ribozyme	An RNA molecule that has catalytic activity.	New
B04-E07B	DNAzyme	A DNA molecule that has catalytic activity.	New
B04-E07C	siRNA (short interfering RNA)	Double stranded short RNA molecules, which bind to RNA and target them for degradation and/or destruction.	New
B04-E07D	miRNA (micro RNA)	Micro RNA.	New
B04-F02B	Stem cells	Cell that can replicate indefinitely and differentiate into other cells	New
B04-F02B0E	Stem cells genetically engineered		New
B04-F05A	Chimeric & fused cells	Cells comprising or formed from components derived from 2 separate cell types, not including hybridomas coded under B04-F05	New
B04-F09D	Pichia pastoris yeast		New
B04-F09D0E	Pichia pastoris yeast genetically engineered		New
B04-F11A	DNA virus general	Virus that infects foreign DNA into a host cell, which then produces viral protein	New
B04-F11A0E	DNA virus general genetically engineered		New
B04-F11B	RNA virus general	Virus that infects foreign RNA into a host cell, where DNA sequence is then transcribed, and viral protein produced. Includes retrovirus.	New
B04-F11B0E	RNA virus general genetically engineered		New
B04-F12	Micicells & organelles	E.g. mitochondria and any subcellular particle.	New
B04-G01A	Chimeric antibody	An antibody genetically engineered to contain the variable fragment from one species fused to the constant region from another species. Usually made from 33% mouse protein and 67% human protein	New
B04-G01B	Human antibody	An antibody produced from a single human cell line.	New
B04-G01B0E	Human antibody genetically engineered	Not for chimeric or humanized antibodies, use B04-G01A or B04-G01C	New
B04-G01C	Humanized antibody	An antibody from a single cell line genetically engineered to contain around 90% human protein, reducing the likelihood of immune response	New
B04-G01D	Murine antibody	An antibody produced from a single mouse cell line.	New
B04-G01D0E	Murine antibody genetically engineered	Not for chimeric or humanized antibodies, use B04-G01A or B04-G01C	New
B04-J19	Melanin concentrating hormone	Also known as MCH, a 19 amino acid cyclic neuropeptide which is expressed mainly in the hypothalamus	New
B04-J1900E	Melanin concentrating hormone genetically engineered		New
B04-K01L1	Androgen receptors		New
B04-K01L1E	Androgen receptors genetically engineered		New
B04-K01L2	Estrogen receptors		New
B04-K01L2E	Estrogen receptors genetically engineered		New
B04-K01L3	Corticosteroid receptors		New
B04-K01L3E	Corticosteroid receptors genetically engineered		New
B04-K01L4	Other steroid receptors		New
B04-K01L4E	Other steroid receptors genetically engineered		New
B04-K01X	Non-steroidal nuclear (hormone) receptors	Re-definition	Changed title
B04-K01X0E	Non-steroidal nuclear (hormone) receptors genetically engineered		New
B04-K01X1	Peroxisome proliferator activated receptor (Orphan receptor)	Also known as PPAR	New
B04-K01X1E	PPAR genetically engineered		New
B04-K01X2	Thyroid receptor		New
B04-K01X2E	Thyroid receptor genetically engineered		New
B04-K01Y1	Melanin concentrating hormone receptor		New
B04-K01Y1E	Melanin concentrating hormone receptor genetically engineered		New
B04-L05A1	Phosphodiesterases		New
B04-L05A1E	Phosphodiesterases genetically engineered		New
B04-L04C	Kinases	Any of several enzymes that catalyze the transfer of a phosphate group from ATP to a second substrate	New
B04-L04C0E	Kinases genetically engineered		New
B04-L05C1	Metalloprotease		New
B04-L05C1E	Metalloprotease genetically engineered		New
B04-N09	Molecular chaperones & chaperonins	E.g. Heat shock proteins (HSP)	New
B04-N0900E	Molecular chaperones & chaperonins genetically engineered		New
B04-N10	Prions	Protein pathogen responsible for Creutzfeldt-Jakob disease and kuru in humans and scrapie in sheep	New
B04-N11	Zinc finger proteins	Specialised protein that contains a bound zinc ion or that is capable of binding a zinc ion, they are associated with DNA binding proteins	New
B04-N1100E	Zinc finger proteins genetically engineered		New

B04-N12	Transcription factors general	A protein that binds DNA at a specific promoter or enhancer region where it activates and regulates transcription.	New
B04-N1200E	Transcription factors genetically engineered		New
C04 Polymers and Natural Products			
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C04-N1200E	Transcription factors genetically engineered		New
B05 Inorganics and Organometallics			
B05-A03A1	Mn compounds		New
B05-A03A2	Fe compounds		New
B05-A03A3	Cu compounds		New
B05-A03A4	Zn compounds		New
B05-A03A5	Hg compounds		New
B05-U03	Carbon only nanotubes		New
B05-U04	Carbon plus heteroatom nanotubes		New
B05-U05	Other carbon containing 3-D structures		New

B05-U06	Inorganic nanostructures		New
C05 Inorganics and Organometallics			
C05-A03A1	Mn compounds		New
C05-A03A2	Fe compounds		New
C05-A03A3	Cu compounds		New
C05-A03A4	Zn compounds		New
C05-A03A5	Hg compounds		New
C05-U03	Carbon only nanotubes		New
C05-U04	Carbon plus heteroatom nanotubes		New
C05-U05	Other carbon containing 3-D structures		New
C05-U06	Inorganic nanostructures		New
B10 Other organic compounds			
B10-A07	Sugars (general)		Changed Title
B10-A07A	Unmodified sugars	Includes ethers and esters thereof	New
B10-A07B	Sugar alcohols	Includes ethers and esters thereof	New
B10-A07C	Sugar acids	Includes ethers and esters thereof	New
B10-A07D	Sugar amines	Any sugar or derivative in which one or more oxygen atoms are replaced by N	New
B10-A07E	Other sugar derivatives	Any sugar or derivative in which one or more oxygen atoms are replaced by an atom other than N, e.g. halogen, sulphur etc.	New
C10 Other organic compounds			
C10-A07	Sugars (general)		Changed Title
C10-A07A	Unmodified sugars	Includes ethers and esters thereof	New
C10-A07B	Sugar alcohols	Includes ethers and esters thereof	New
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C10-A07D	Sugar amines	Any sugar or derivative in which one or more oxygen atoms are replaced by N	New
C10-A07E	Other sugar derivatives	Any sugar or derivative in which one or more oxygen atoms are replaced by an atom other than N, e.g. halogen, sulphur etc.	New
B11 Processes & Apparatus			
B11-C01A	Combinatorial chemistry general		New
B11-C01A1	Library synthesis	Used when the patent is describing a technique for producing, rather than using a combinatorial library	New
B11-C01A2	Liquid-phase synthesis	Process in which the chemical building blocks are present in solution	New
B11-C01A3	Solid-phase synthesis	Process in which the chemical building blocks are bound to a polymer	New
B11-C01A4	Parallel synthesis	A smaller scale process used when the best lead structure candidates have been found	New
B11-C01A5	High volume synthesis	Final stage of the process in which the lead compound(s) are produced on a larger scale	New
B11-C02A	Hypodermic syringes	Includes multi-use as well as single use and moulded disposable syringes	New
B11-C02B	Needles	Should cover all needles, not just those for syringes. Not for microneedles – these are coded under 12-M02F transdermal instead	New
B11-C04C	Injection gun, general		New
B11-C04D	Applicator		New
B11-C04E	Needle-free injector	A syringe type device that uses applied pressure to inject the drug through the skin, and particularly into the gums during dentistry procedures.	New
B11-C04F	Artificial organs	Including heart-lung machines, kidney dialysis equipment, pacemakers and artificial livers and skin. Includes production of these organs. Not to be confused with Prosthesis (coded 12-M17) or Implants (coded 11-C04A)	New
B11-C07B6	Reflectance, light scattering etc.		New
B11-C08E7	Agonist/ antagonist identification		New
B11-C08J	Microscopy/ optical processes & apparatus		New
B11-C11	General computing methods & apparatus	Including media and methods for storing, searching & retrieving data and drug databases	New
B11-C11A	Patient compliance methods & systems	Methods concerning patient compliance, e.g. medication reminders	New
B11-C10B	High content screening	Whole cell analysis used in drug screening. Differs from high-throughput screens that are usually homogenous in-vitro assays. Includes the analysis of multiple independent or interacting targets in intact cells using e.g. advanced optical imaging systems, fluorescent-based reagents and advanced informatics tools. Also includes predictive toxicity and ADME (absorption, distribution, metabolism and excretion) screening	New
B11-C10C	Protein/ gene libraries	Collections of protein or nucleic acid fragments and clones used as a tool in biochemical processes	New
B11-C10D	Phage display libraries		New
B11-C12	Nanotechnology (general)	Covers nanoswitches made of DNA	New
B11-C13	Particle engineering	Any process concerned with the design of the physical form of the particles in the dosage (as opposed to the chemical constitution of them). This optimises drug delivery properties of the dosage form.	New
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C11-C11	General computing methods & apparatus	Including media and methods for storing, searching & retrieving data and drug databases	New
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C11-C10B	High content screening	Whole cell analysis used in drug screening. Differs from high-throughput screens that are usually homogenous in-vitro assays. Includes the analysis of multiple independent or interacting targets in intact cells using e.g. advanced optical imaging systems, fluorescent-based reagents and advanced informatics tools. Also includes predictive toxicity and ADME (absorption, distribution, metabolism and excretion) screening	New
C11-C10C	Protein/ gene libraries	Collections of protein or nucleic acid fragments and clones used as a tool in biochemical processes	New
C11-C10D	Phage display libraries		New
C11-C12	Nanotechnology (general)	Covers nanoswitches made of DNA	New
C11-C13	Particle engineering	Any process concerned with the design of the physical form of the particles in the dosage (as opposed to the chemical constitution of them). This optimises drug delivery properties of the dosage form.	New
B12 Diagnostics & formulation types			
B12-K04A4A	Detection of Viral diseases		New
B12-K04A4B	Detection of Bacterial diseases		New
B12-K04E1	Drug discovery process		New
B12-K04E2	Environmental testing	Includes testing for contaminants in rivers	New
B12-M01B1	Dry powder inhaler	A dry powder inhaler (DPI) is similar to a metered dose inhaler, but a dry powder inhaler is that it is breath-activated, so you don't have to co-ordinate activating the inhaler (spraying the medicine) while at the same time inhaling the medication.	New
B12-M01B2	Multidose inhaler	A different type of inhaler that is also breath-activated. Used to deliver many little doses to make up the full required dosage.	New
B12-M01B3	Nebulizer	A device which is used to administer a solution of drug in the form of a fine mist for you to inhale. Air is forced through the drug solution in the drug chamber, changing the liquid into a fine mist which is breathed in through a mask or mouthpiece.	New
B12-M01E	Other gaseous forms		New
B12-M02F	Transdermal	Includes microneedles	New
B12-M10A	Sustained release general		Changed Title
B12-M10A1	Osmotic pump	Similar to a reservoir device but with an osmotic agent added (typically the active agent in salt form) which causes pressure to be generated within the device which forces the active agent out	New
B12-M10A2	Reservoir devices	The drug is coated or encapsulated within a polymer film or coat through which it diffuses. No additional osmotic agent is added.	New
B12-M10A3	Multi-layer tablet type	A variation on the matrix device in which the matrix is fully or partially coated with impermeable or semi-permeable so as to modify the hydration/swelling of the core and so reduce the surface area available for drug release. A typical coating would be formed from hydroxypropylmethylcellulose (HPMC)	New
B12-M10A4	Other matrix devices	Drug is present as a dispersion within a polymer matrix. Sometimes referred to as monolithic devices. These are probably the most common type. Not used for the multi-layer tablet type (in which the matrix is fully or partially coated) or for electrically/ultrasonically stimulated devices	New
B12-M10A5	Pendant devices	In this case, the drug is chemically bound to a polymer from which it is released by hydrolysis. Includes pegylation where proteins and the like are bound to polyethylene glycol in order to increase the amount of time they remain in the bloodstream.	New
B12-M10A6	Dual release devices	Typically soft gelatin capsules designed to produce an initial burst of drug followed by steady release of the remainder. They consist of an inner aqueous matrix and outer lipophilic matrix.	New
B12-M10A7	Nanotechnology devices	Use of nanotechnology to deliver drugs to specific sites and control their release at that point	New
B12-M10D	Pulsed release	Active drug core coated with specific polymers and agents, where active is released in a "drug pulse" after a time lag	New
B12-M10E	Site-Specific Release	Drug bound to a bio-polymer or other active substance in order to facilitate it's transfer through the cell wall. This ensures the drug is delivered to the specific cells it needs to reach	New
B12-M10E1	Using Liposomes	A site-specific release form in which the drug is encased within a liposome.	New
B12-M10E2	Using Antibodies	A site-specific release form in which the drug is bound to an antibody	New
B12-M10F	Externally stimulated devices (e.g. electrically or ultrasonically)	Any controlled release device in which the release of the drug is by an external stimulus. May be used in conjunction with other B12-M10 codes	New
B12-M11R	Chewable formulation		New
B12-M12	Mode of administration	Heading only - not a valid code	New
B12-M12A	Buccal, sublingual		New
B12-M12B	External, topical		New
B12-M12C	Injection		New
B12-M12D	Infusion		New
B12-M12E	Intraarterial		New
B12-M12F	Intravenous		New
B12-M12G	Intraaural		New
B12-M12H	Intraocular		New
B12-M12J	Intramuscular		New
B12-M12K	Subcutaneous		New
B12-M12L	Intrauterine		New
B12-M12M	Intravaginal		New
B12-M12N	Oral general		New
B12-M12P	Rectal general		New

B12-M14	Suspensions, dispersions		New
B12-M15	Film, sheet		New
B12-M16	Prosthesis		New
B12-M17	Surgical sponge, tampon		New
B12-M18	Encapsulation		New
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C12-K04A4A	Detection of Viral diseases		New
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C12-K04E2	Environmental testing	Includes testing for contaminants in rivers	New
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C12-M10E2	Using Antibodies	A site-specific release form in which the drug is bound to an antibody	New
C12-M10F	Externally stimulated devices (e.g. electrically or ultrasonically)	Any controlled release device in which the release of the drug is by an external stimulus. May be used in conjunction with other C12-M10 codes	New
C12-M11R	Chewable formulation		New
C12-M12	Mode of administration	Heading only - not a valid code	New
C12-M12A	Buccal, sublingual		New
C12-M12B	External, topical		New
C12-M12C	Injection		New
C12-M12D	Infusion		New
C12-M12E	Intraarterial		New
C12-M12F	Intravenous		New
C12-M12G	Intraaural		New
C12-M12H	Intraocular		New
C12-M12J	Intramuscular		New
C12-M12K	Subcutaneous		New
C12-M12L	Intrauterine		New
C12-M12M	Intravaginal		New
C12-M12N	Oral general		New
C12-M12P	Rectal general		New
C12-M13	Foliar application (agricultural)		New
C12-M14	Suspensions, dispersions		New
C12-M15	Film, sheet		New
C12-M16	Prosthesis		New
C12-M17	Surgical sponge, tampon		New
C12-M18	Encapsulation		New
B14 Pharmaceutical Activity			
B14-A01B1A	Antibacterial - M. Tuberculosis		New
B14-A01B1B	Antibacterial - M. Leprae		New
B14-A02A9	Antiviral - Parvovirus	Includes treatment of slapped cheek syndrome.	New
B14-A02B5	Antiviral - Coronavirus (modified)	To include SARS, also coded as 14-K01D	New
B14-A02B9	Antiviral - Flavivirus	Includes Yellow Fever virus, Japanese encephalitis virus, Dengue virus, Hepatitis G virus and West Nile virus. Excludes Hepatitis C virus coded as 14-A02A7	New
B14-A03F	Other antiprotozoal		New
B14-B03D	Vermicide, Anthelmintic - Distomicide, other fluke		New
B14-D01E1	Melanocortin agonists	Adrenocorticotrophic hormone agonists	New
B14-D01E2	Melanin concentrating hormone agonists		New

B14-D02B1	Melanocortin antagonists		New
B14-D02B2	Melanin concentrating hormone antagonists		New
B14-D02A3	Antiestrogenic	This code also covers androgenic antagonist/inhibitor and androgen receptor antagonist/inhibitor activities.	New
B14-D02A4	Antiprogestational	This code also covers estrogenic antagonist/inhibitor and estrogen receptor antagonist/inhibitor activities.	New
B14-D02A5	Antiandrogenic	This code also covers progestational antagonist/inhibitor and progestational receptor antagonist/inhibitor activities.	New
B14-D02A6	Other antisteroid hormone	This code also covers other steroid antagonist/inhibitor and other steroid receptor antagonist/inhibitor activities.	New
B14-D06C	Antikinase		New
B14-D07A1	Phosphodiesterase inhibitors		New
B14-D07C1	Metalloprotease inhibitors		New
B14-E10C1	Inflammatory bowel disorders	Including inflammatory bowel syndrome (IBS)	New
B14-E11A	Anorexia		New
B14-E11B	Cachexia	Any general reduction in the vitality and/or strength of the body and/or mind as a result of any debilitating chronic illness.	New
B14-E11C	Malnutrition	Covers under nutrition, where the body is not meeting its energy requirements, and over nutrition, where there is an intake of too much high fat content food, leading to obesity and other associated health problems.	New
B14-E11D	Bulimia		New
B14-F06A	Dyslipidemia		New
B14-H01C	Bladder cancer		New
B14-H01D	Brain cancer		New
B14-H01E	Breast cancer		New
B14-H01F	Buccal cavity & pharynx cancer		New
B14-H01G	Cervix/ uterus cancer		New
B14-H01H	Gall bladder cancer		New
B14-H01J	Hodgkin's disease		New
B14-H01K	Intestinal cancer	Includes colon cancer (also know as the large intestine)	New
B14-H01L	Kidney cancer		New
B14-H01M	Larynx cancer		New
B14-H01N	Lung cancer		New
B14-H01P	Multiple myeloma		New
B14-H01Q	Non-Hodgkin's lymphoma		New
B14-H01R	Oesophagus cancer		New
B14-H01S	Ovarian cancer		New
B14-H01T	Pancreatic cancer		New
B14-H01U	Prostate cancer		New
B14-H01V	Rectum cancer		New
B14-H01W	Skin melanoma		New
B14-H01X	Stomach cancer		New
B14-H01Y	Testicular cancer		New
B14-H01Z	Thyroid cancer		New
B14-L01A	Enzyme agonist/ mimetic		New
B14-M01E	Pesticide/ herbicide antidote	(Modified) To include herbicide safeners.	New
B14-N01A	Osteoporosis		New
B14-N01B	Fracture/ disorders of healing & osteogenesis		New
B14-N03A	Glaucoma		New
B14-N05A	Mouth disease	E.g. cold sores & xerostomia (chronic dry mouth)	New
B14-N05B	Throat disease	E.g. disorders of the throat, excluding disorders of the oesophagus.	New
B14-N16C	Kuru (treatment of)	Kuru is a rare and fatal brain disorder , belonging to the class of diseases known as transmissible spongiform encephalopathies (TSE), or prion disease	New
B14-N16D	Scrapie (treatment of)	Scrapie is a fatal, degenerative disease affecting the central nervous system of sheep and goats	New
B14-N17E	Dandruff & Seborrhea	Seborrhoea is an inflammatory skin disorder similar to dandruff	New
B14-N17F	Anti-scarring		New
B14-S03C	RNA Interference		New
B14-S04A	Type II diabetes	Also known as adult onset diabetes or non-insulin dependent diabetes	New
B14-S11B1	Antibacterial vaccine		New
B14-S11B2	Antiprotozoal vaccine		New
B14-S11B3	Antiparasitic vaccine		New
B14-S11D	Vaccine type	Heading only	New
B14-S11D1	Whole-killed (inactive) vaccine		New
B14-S11D2	Live-attenuated (weakened) vaccine		New
B14-S11D3	Synthetic/genetically engineered vaccine		New
B14-S13	Metabolic disorders		New
B14-S13A	Acidosis		New
B14-S14	Joint disorders	Includes tendonitis & bursa.	New
B14-S15	Broad formulation code	Patent is concerned with the formulation type rather than the drugs contained in it	New
B14-S16	Many diseases treated	More than 15 claimed and/or disclosed diseases are said to be treated. Specific codes for the individual disease are still included.	New
C14 Agricultural Activity			
C14-A01B1A	Antibacterial - M. Tuberculosis		New
C14-A01B1B	Antibacterial - M. Leprae		New
C14-A02A9	Antiviral - Parvovirus	Includes treatment of slapped cheek syndrome.	New
C14-A02B5	Antiviral - Coronavirus (modified)	To include SARS, also coded as 14-K01D	New
C14-A02B9	Antiviral - Flavivirus	Includes Yellow Fever virus, Japanese encephalitis virus, Dengue virus, Hepatitis G virus and West Nile virus. Excludes Hepatitis C virus coded as 14-A02A7	New
C14-A03F	Other antiprotozoal		New
C14-B03D	Vermicide, Anthelmintic - Distomicide, other fluke		New
C14-D01E1	Melanocortin agonists	Adrenocorticotropic hormone agonists	New
C14-D01E2	Melanin concentrating hormone agonists		New
C14-D02B1	Melanocortin antagonists		New
C14-D02B2	Melanin concentrating hormone antagonists		New
C14-D02A3	Antiestrogenic	This code also covers androgenic antagonist/inhibitor and androgen receptor antagonist/inhibitor activities.	New

C14-D02A4	Antiprogestational	This code also covers estrogenic antagonist/inhibitor and estrogen receptor antagonist/inhibitor activities.	New
C14-D02A5	Antiandrogenic	This code also covers progestational antagonist/inhibitor and progestational receptor antagonist/inhibitor activities.	New
C14-D02A6	Other antisteroid hormone	This code also covers other steroid antagonist/inhibitor and other steroid receptor antagonist/inhibitor activities.	New
C14-D06C	Antikinase		New
C14-D07A1	Phosphodiesterase inhibitors		New
C14-D07C1	Metalloprotease inhibitors		New
C14-E10C1	Inflammatory bowel disorders	Including inflammatory bowel syndrome (IBS)	New
C14-E11A	Anorexia		New
C14-E11B	Cachexia	Any general reduction in the vitality and/or strength of the body and/or mind as a result of any debilitating chronic illness.	New
C14-E11C	Malnutrition	Covers under nutrition, where the body is not meeting its energy requirements, and over nutrition, where there is an intake of too much high fat content food, leading to obesity and other associated health problems.	New
C14-E11D	Bulimia		New
C14-F06A	Dyslipidemia		New
C14-H01C	Bladder cancer		New
C14-H01D	Brain cancer		New
C14-H01E	Breast cancer		New
C14-H01F	Buccal cavity & pharynx cancer		New
C14-H01G	Cervix/ uterus cancer		New
C14-H01H	Gall bladder cancer		New
C14-H01J	Hodgkin's disease		New
C14-H01K	Intestinal cancer	Includes colon cancer (also known as the large intestine)	New
C14-H01L	Kidney cancer		New
C14-H01M	Larynx cancer		New
C14-H01N	Lung cancer		New
C14-H01P	Multiple myeloma		New
C14-H01Q	Non-Hodgkin's lymphoma		New
C14-H01R	Oesophagus cancer		New
C14-H01S	Ovarian cancer		New
C14-H01T	Pancreatic cancer		New
C14-H01U	Prostate cancer		New
C14-H01V	Rectum cancer		New
C14-H01W	Skin melanoma		New
C14-H01X	Stomach cancer		New
C14-H01Y	Testicular cancer		New
C14-H01Z	Thyroid cancer		New
C14-L01A	Enzyme agonist/ mimetic		New
C14-M01E	Pesticide/ herbicide antidote	(Modified) To include herbicide safeners.	New
C14-N01A	Osteoporosis		New
C14-N01B	Fracture/ disorders of healing & osteogenesis		New
C14-N03A	Glaucoma		New
C14-N05A	Mouth disease	E.g. cold sores & xerostomia (chronic dry mouth)	New
C14-N05B	Throat disease	E.g. disorders of the throat, excluding disorders of the oesophagus.	New
C14-N16C	Kuru (treatment of)	Kuru is a rare and fatal brain disorder , belonging to the class of diseases known as transmissible spongiform encephalopathies (TSE), or prion disease	New
C14-N16D	Scrapie (treatment of)	Scrapie is a fatal, degenerative disease affecting the central nervous system of sheep and goats	New
C14-N17E	Dandruff & Seborrhea	Seborrhoea is an inflammatory skin disorder similar to dandruff	New
C14-N17F	Anti-scarring		New
C14-S03C	RNA Interference		New
C14-S04A	Type II diabetes	Also known as adult onset diabetes or non-insulin dependent diabetes	New
C14-S11B1	Antibacterial vaccine		New
C14-S11B2	Antiprotozoal vaccine		New
C14-S11B3	Antiparasitic vaccine		New
C14-S11D	Vaccine type	Heading only	New
C14-S11D1	Whole-killed (inactive) vaccine		New
C14-S11D2	Live-attenuated (weakened) vaccine		New
C14-S11D3	Synthetic/genetically engineered vaccine		New
C14-S13	Metabolic disorders		New
C14-S13A	Acidosis		New
C14-S14	Joint disorders	Includes tendonitis & bursa.	New
C14-S15	Broad formulation code	Patent is concerned with the formulation type rather than the drugs contained in it	New
C14-S16	Many diseases treated	More than 15 claimed and/or disclosed diseases are said to be treated. Specific codes for the individual disease are still included.	New
C14-S17	Agricultural activity		New
C14-T01A	Synthetic growth medium	Can be used in conjunction with other C14 codes for general agricultural activity	New
C14-T01B	Erosion inhibition of soil		New
C14-T01C	Frost protection of soil		New
C14-T01D	Nitrification inhibitor		New
C14-T05	Trace element fertilisers		New
Section D Food, Detergents, Water Treatment & Biotechnology			
D03 Foodstuffs and treatment			
D03-H01T3A	Low fat		New
D03-H01T3B	Low carbohydrate	For example energy bars	New
D03-H01T4	High calorie foodstuff		New
D03-H01U	Fried foodstuff		New
D03-J11	Popcorn making		New
D03-K10	Dispenser for foodstuff		New
D03-K11	Labelling system for foodstuff		New
D03-K12	Defrosting foodstuff	Not to be used in conjunction with D03-A and D03-J	New
D03-N	Vegetable products	Not to be used in conjunction with D03-A and D03-J	New
D03-P	Fruit products	Not to be used in conjunction with D03-A and D03-J	New
D03-Q	Nut products	Not to be used in conjunction with D03-A and D03-J	New
D03-R	Cereal products		New

D04 Treatment of Water			
D04-A1F1	Other filtration process		New
D04-A1F2	Active C treatment		New
D04-A1F3	Other adsorption processes		New
D04-A1K1	Oxidation with ozone		New
D04-A1K2	Oxidation/aeration with other		New
D04-A1P1	Chemical method		New
D04-A1P2	Physical method		New
D04-B05A	Removal of heavy metals	Used for where the patent vaguely mentions removal of Heavy metals or removal of 2nd, 3rd row transition metals, Lanthanides or Actinides	New
D04-B05B	Removal of other metals		New
D05 Fermentation Industry			
D05-H11C	Abzyme	A catalytic antibody	New
D05-H12D7	DNAzyme	Catalytic DNA sequence	New
D05-H12D8	Short interfering RNA or micro RNA		New
D05-H12D8A	siRNA	Double-stranded short RNA molecules, which bind to RNA and target them for degradation and/or destruction	New
D05-H12D8B	miRNA	RNA molecules that anneal to target mRNA transcripts to form double-stranded RNA molecules that cannot be transcribed into proteins and/or which trigger degradation of the target mRNA molecules	New
D05-H12D9	PNA	Peptide Nucleic Acids	New
D05-H16C	Transomatic animal	An animal which has gene(s) from another cell or organism stably incorporated into some but not all cells	New
D05-H16D	Transomatic plant		New
D05-H15A	Antibody producing cells/ hybridoma	A cell line for producing monoclonal antibodies- produced by fusing antibody-secreting B cells with lymphocyte tumor cells	New
D05-H15B	Other chimeric/fused cells	Cell lines comprising or formed from components derived from 2 separate cell types, and excluding antibody producing hybridomas	New
D05-H17A7	Recombinant zinc finger protein	A protein which contains (or is capable of binding) zinc ions through cysteine residue (or a combination of cysteine and histidine residues). Zinc fingers function in helping some proteins that bind to DNA recognize that DNA	New
D05-H17B7	Modified recombinant zinc finger protein		New
D08 Cosmetics, Dental and Toilet Preparations			
D08-B01A	Eye make-up	E.g. eye shadow, eyeliner, mascara etc	New
D08-B01B	Lip products	E.g. lipsticks, lip gloss, lip liners etc	New
D08-B01C	Make-up	E.g. foundations and blushers	New
D08-B01D	Others		New
D08-B03A	Products for promoting growth		New
D08-B03B	Hair conditioner	2 in 1 shampoo and conditioners code here and in D08-B04 also	New
D08-B03C	Others		New
D08-B08C	Gels		New
D08-B08D	Strips		New
D08-B08E	Floss	Includes dental tape	New
D08-B09B	Deodorant general	Includes anti-perspirant deodorants	New
D08-B09B1	Deodorants only		New
D08-B09B2	Antiperspirant only		New
D08-B14	Whitening teeth only	For whitening chewing gum use this code and D03-E09	New
D08-B14A	Toothpaste, tooth powder		New
D08-B14B	Mouthwash		New
D08-B14C	Gels		New
D08-B14D	Strips		New
D08-B15	Cellulite treatment		New
D08-C	Animal use	Used for novelties where a code from D08-A and/or D08-B applies but solely for use with animals	New
D09 Sterilising and Disinfecting, Bandages and Dressings			
D09-A03	Preservation of biological specimens and tissue		New
D09-B01	Deodorising/sterilising devices general	Apply codes from this section only if the device is claimed. May be used in conjunction with other D09-B codes if necessary.	New
D09-B01A	Using heating elements	E.g. vaporisers, evaporators, and plug-ins	New
D09-B01B	Using sprayers/atomisers	E.g. aerosols, pumps and misting devices	New
D09-B01C	Passive means	Spreading a substance by convection or sachets	New
D09-B02	Candles used in disinfection/deodorisation of air		New
D09-B03	Creation of aseptic environment	Used for processes and apparatus designed to create a sterile atmosphere within a room, especially an operating theatre or food preparation plant.	New
D09-B04	Perfuming of air (masking)		New
D09-B05	Neutralising odor causing substances	E.g. cat litter	New
D09-B06	Killing/controlling insects (in a room)		New
D09-C02A	Tampons		New
D09-C02B	Other sanitary products		New
D09-C04E	Adult incontinence pads		New
D11 Detergents, Soaps and Glycerol			
D11-A04C	Amine oxide type compounds		New
D11-B01D1	Bleach activators	Includes acyloxybenzene sulfonates, acyloxybenzoic acid, N-acyl lactams and tetraacetylenediamine	New
D11-B01D2	Bleach catalysts	Includes various transition metal complexes and free radical generators such as azobisisobutyronitrile	New
D11-B01D3	Enzymatic bleaches	Bleach compositions that use an enzyme as the active ingredient	New
D11-B01E	Bleach boosters	Compounds added to bleach compositions which are not themselves bleaches but which do increase bleaching power of the composition	New
D11-B11A	Inorganic silicates – Including clays and zeolites		New
D11-B11B	Organic silicon compounds general		New
D11-B11B1	Reactive silicon compounds	Includes silazanes	New
D11-B11B2	Inert silicon compound	Includes silicones and siloxanes unless they have pendent reactive groups	New
D11-B11C	Inorganic Carbonates		New
D11-B11D	Alkalies		New
D11-B24	Thickeners	Substances added to a detergent composition in order to increase its viscosity. If a specific type of thickener is used also apply the appropriate D11-B structural code (e.g. if cellulose is used as the thickener add D11-B10).	New
D11-D01B1	Oven cleaners		New

D11-D01B2	Flux removers		New
D11-D01B3	Other abrasive type household surface cleaners		New
D11-D01B4	Other bleach based household surface cleaners		New
D11-D01B5	Other household surface cleaners		New
D11-D01B6	Other industrial hard surface cleaners		New
D11-D01H	Laundry compositions		New
D11-D01J	Personal care compositions		New
D11-D02A	Tablet or other moulded article		New
D11-D02B	Capsule	Includes microcapsules	New
D11-D02C	Sprays		New
D11-D02D	Other		New
D11-D07A	Heavy duty laundry detergents	For use in automatic washing machines	New
D11-D07B	Light duty liquid laundry detergents	For use in hand washing of clothes	New
D11-D07C	Liquid Laundry detergents with special use		New
D11-D07C1	Colour care		New
D11-D07C2	Combined detergent / fabric softener		New
D11-D07C3	Liquid laundry detergents with bleach (stain removers)		New
D11-D07D	Liquid dishwashing detergents		New
D11-D07E	Automatic dishwashing rinse aids		New
D11-D07F	Liquid soap type (hand washing compositions)		New
D11-D07G	Others		New
D11-D08	Granular laundry detergent compositions	Use when the actual composition rather than its means of manufacture are claimed	New
Section E Chemdoc: E01-E11 Organic Chemistry; E21-E27 Organic Dyes and Pigments; E31-E35 Inorganic Chemistry			
E05 Miscellaneous Organic			
E05-A01	Li Compounds		New
E05-A02	Na, K, Cs, Rb Compounds		New
E05-F02A	Ge compound		New
E05-F02B	Other Sn compound		New
E05-F02C	Pb compound		New
E05-E01A	Si as part of a ring		New
E05-E01B	Heterocyclic compound with Si-C bond		New
E05-E01C	Aromatic compound with Si-C bond		New
E05-E03A	O-Si bonds only	Used for tetrahydrocarbyloxysilanes and hydrocarbylsilicates	New
E05-E03B	Others silicon compounds		New
E05-M01	Zr compound		New
E05-M02	Ru, Rh, Pd compound		New
E05-M02A	Ru compound		New
E05-M02B	Rh compound		New
E05-M02C	Pd compound		New
E05-M03	Y, Nb, Mo, Tc, Ag, Cd		New
E05-M03A	Nb, Tc, Cd		New
E05-M03B	Ag		New
E05-M03C	Mo		New
E05-M03D	Y		New
E05-N01	Hf		New
E05-N02	Os, Ir, Pt		New
E05-N02A	Os		New
E05-N02B	Ir		New
E05-N02C	Pt		New
E05-N03	Ta, W, Re, Au, Hg		New
E05-N03A	Ta, W, Re		New
E05-N03B	Au		New
E05-N03C	Hg		New
E05-U03	Carbon nanotubes		New
E05-U04	Heteroatom-containing nanotubes		New
E05-U05	Other carbon 3-D structures		New
E05-V	General metallocene	Also apply all other applicable E05 codes	New
E05-V01	Unbridged metallocene with 2-4 pi-arene ligands		New
E05-V02	Bridged carbocyclic metallocenes		New
E05-V03	Carbocyclic metallocenes with only 1 pi-arene ligand		New
E05-V04	Metallocene with heteroatom-containing rings		New
E05-V05	Condensed carbocyclic metallocenes		New
E06-A	Fused oxygen-containing heterocycle (gen.)		Changed Title
E07-A	Oxygen-containing monocyclic heterocycle (gen.)		Changed Title
E10 Aromatic, Alicyclic (Mono and Bicyclic only) and Aliphatic Organic Compounds			
E10-A07A	Unmodified sugar	Including ethers and esters thereof	New
E10-A07B	Sugar alcohol	Including ethers and ester thereof	New
E10-A07C	Sugar acid	Including ethers and esters thereof	New
E10-A07D	Sugar amine		New
E10-A07E	Other sugar derivatives		New
E10-A09A1	Ether sulfates	Sulfuric acid esters of ethoxylated alcohols	New
E10-A09A2	Aliphatic sulfates		New
E10-A09A3	Aromatic sulfates		New
E10-A09A4	Other derivatives		New
E10-E04H1	Diol		New
E10-E04H2	Triol		New
E10-E04H3	4 or more hydroxy	Not including sugar alcohol see E10-A07B	New
E10-E04J1	Ring present		New
E10-E04J2	Ketone, nitro, halogen or unsatn. present.		New
E10-E04J3	Ether present, poly		New
E10-E04J4	Ether present, mono		New
E10-G02P	Production of ester (gen.)		New
E10-G02U	Use of ester (gen.)		New
E11 Processes and Apparatus			
E11-Q01A	Purification by chemical means		New
E11-Q01B	Purification by physical means		New
E11-Q02A	Engine exhaust treatment		New
E11-Q02B	Industrial effluent treatment		New
E11-Q02C	Other		New

H06-C04A	By filtration		New
H06-D08	Biocidal	Includes anti-slime compounds	New
H07 Lubricants and Lubrication			
H07-A01	Lubes of vegetable origin		New
H07-A02	Oxygen-containing lubricants - general	Includes ester lubricants, ethers and polyethers, and carboxylic acids incl. fatty acids	New
H07-A03	Olefin polymers, Group IV oils	Polyalphaolefins (PAO's)	New
H07-A04	Hydrocarbons	e.g. alkyl benzenes	New
H07-B01	Hydroprocessed or Hydrocracked Mineral Oils	Extremely High Viscosity Index XHVI oils. Group II lubricants and Group III lubricants are by definition hydroprocessed/hydrocracked oils of specified viscosity ranges.	New
H07-D11	Refrigeration lubricants	See also J07-A09	New
H07-H	Used Lube Oils and Speciality Products, recovery and/or Treatment		Change Title
H07-X	Other Lubrication Aspects		Change Title
H08 Other Petroleum Products			
H08-E04	Fuel cells		Retired
H08-D10	For lubrication of electrical components		New
H08-E07	Emulsifiers, foam regulators and wetting agents		New
H08-E10	Biocidal		New
H09 Fuels not of Petroleum Origin			
H09-X	Other Non-Petroleum Fuels and Processing		Change Title
Section J Chemical Engineering			
J01 Separation			
J01-A02B	Distillation methods and apparatus		New
J01-D07	Biological treatment		New
J01-E02C1	Ion transport membranes		New
J01-E02H1	Using plasma		New
J01-E02H2	Centrifugal methods		New
J01-E02H3	By biological methods		New
J01-E03H	By biological methods		New
J01-H02	Materials for filters		New
J01-H02A	Filter materials for liquids treatment		New
J01-H02B	Filter materials for gases treatment		New
J01-H03	With antibacterial effect		New
J01-X	Other Separation Processes and Applications		Change Title
J01-X01A	Removal of organic contaminants		New
J01-X01B	Removal of inorganic contaminants		New
J01-X01C	Removal by biological methods		New
J01-X02	Separation of racemates		New
J02 Mixing, Crushing, Spraying			
J02-X	Other Mixing, Crushing and Spraying		Change Title
J03 Electrochemical, Processes, Electrophoresis			
J03-B09	General electrolytic processes		New
J03-X	Other Electrochemical Methods		Change Title
J04 Chemical/Physical Processing Apparatus			
J04-B01B1	Sugar e.g. for diabetes monitoring		New
J04-B01C1	TLC	see also S03-E09C3	New
J04-B01C2	HPLC	see also S03-E09C5	New
J04-B01C5	GC	see also S03-E08C1	New
J04-B02	Lab-on-chip (LOC)	see also S03-H01 codes	New
J04-B03	Detection and analysis of nucleic acids, proteins and amino acids	see also S03-E14H codes	New
J04-C02A	pH Monitoring	see also S03-F10 codes	New
J04-C02B	Conductivity	see also S03-E02	New
J04-C04A	Gas sensors	S03-E02, S03-E03, S03-E14P	New
J04-E04C	Photocatalysts		New
J04-E09A	Waste treatment apparatus		New
J04-X	Other chemical methods		Change Title
J04-X04	Miniaturised reaction apparatus	Includes microfluidic devices, MEMs devices, see also relevant U12-B03F codes for MEMs	Change Scope
J06 Storing/ Distributing Gases/ Liquids			
J06-B06A	For batteries and fuel cells	For supplying hydrogen specifically for fuel cells	New
J06-B06B	For vehicle fuel tanks	for H2/CH4 powered IC engines (i.e. not fuel cells)	New
J07 Refrigeration, Ice, Liquefaction/ Solidification			
J07-A09	Lubricants for Refrigerant Media	See also H07-D11	Change Scope
J09 Furnaces, Kilns, Ovens, Retorts			
J09-C	Incineration and other waste disposal methods		Change Title
J09-C02	By incineration		New
Section K Nucleonics, Explosives, Protection			
K02 Protection, Breathing Apparatus			
K02-A	Protection against NBC agents		Change Title
K02-A01	Chemical		New
K02-A02	Biological		New
K02-A03	Nuclear		New
K05 Nuclear Reactors			
K05-B10	Materials for Reactors and Components		New
K06 Nuclear Power Plant			
K06-X	Other Nuclear Plant aspects		Change Title
K07 Health Physics			
K07-X	Other protective and waste treatment techniques and apparatus		Change Title
K08 Nucleonics, X-Ray Techniques, etc.			
K08-A02	Charged particle counters		New
K08-A03	Gamma ray and cosmic ray counters		New
K08-A04	X-ray measurement		New
K08-E01	X-ray imaging	Includes medical or industrial use	New
K08-E02	X-ray therapy or treatment	e.g. for medical or industrial use	New
K09-B01	Imaging, use of isotopes, tracers		New
K09-B02	Radiotherapy		New

K09-D01	Irradiation	e.g. to improve shelf life	New
K09-D02	Testing		New
K08-X	Other nuclear techniques		Change Title
K09 Applications			
K09-X	Other nuclear applications		Change Title
Section L Glass, Ceramics, Electro(in)organics			
L01 Glass, Vitreous Enamels			
L01-A02A	Lanthanide-containing glass		New
L01-A02B	Platinum and palladium containing glass		New
L01-M	Testing of Gas		New
L02 Refractories, Ceramics, Cement			
L02-D12A	Cementing and sealing compositions for oil and gas wells	See also H01-C02B	New
L03 Electro(in)organics			
L03-C03A	Electrode supports, seals and mountings	Covers materials and methods of manufacture	New
L03-C03B	CRT shadow masks	Covers materials and manufacturing techniques e.g. etching	New
L03-C05A	Seals and mountings	Covers sealing and mounting materials and methods for incandescent lamps	New
L03-C05B	Filaments and fillings	Covers filament materials and filling gases for incandescent lamps	New
L03-C05C	Lamp envelopes	Covers envelope materials and manufacturing methods for incandescent lamps	New
L03-D	Semiconductor, piezoelectric, thermo-optic, opto-electronic materials and devices	scope now covered in L03-G	Retired
L03-D01	Materials, general		Retired
L03-D01B	Piezoelectric materials	scope now covered in L03-G09A	Retired
L03-D01C	Thermo-optic materials	scope now covered in L03-G09D	Retired
L03-D01D	Opto-electronic materials		Retired
L03-D01D1	Liquid crystal compounds	scope now covered in L03-G05B1	Retired
L03-D01D2	Liquid crystal material mixtures	scope now covered in L03-G05B2	Retired
L03-D01D3	Additives for liquid crystal materials	scope now covered in L03-G05B4	Retired
L03-D01E	Electro-rheological materials	scope now covered in L03-G09F	Retired
L03-D04	Devices - general	scope now covered in L03-G10	Retired
L03-D04D	Electromechanical transducers	scope now covered in L03-G10A	Retired
L03-D04F	Image converters	scope now covered in L03-G10E	Retired
L03-D04G	Thermo-optical devices	scope now covered in L03-G10B, C and D	Retired
L03-D05A	Materials for device housings - e.g. polymers for general electrical/electronic usage	scope now covered in L03-J02	Retired
L03-G	Other basic elect(ron)ic elements and materials		Change title
L03-G04	Optical memory and storage elements	Covers optical discs and holographic media	Change Title/Scope
L03-G04A	Semiconductor memories	Scope now covered by L04-E15	Retired
L03-G04B1	Dyes and pigments for recordable discs		New
L03-G04B2	Alloy compositions for recordable discs	Includes rewritable (RW) media	New
L03-G04B3	Substrates for optical discs	Substrate materials for read-only, recordable and RW discs	New
L03-G04B4	Coatings for recordable discs	includes inks and adhesives	New
L03-G04B9	Materials for holographic applications		New
L03-G05B	Materials and components for LCDs		Change title
L03-G05B1	Novel liquid crystal compounds		New
L03-G05B2	Liquid crystal compositions		New
L03-G05B3	Dyes for liquid crystal compounds		New
L03-G05B4	Aligning agents and other additives for LC compositions		New
L03-G05B5	Substrates and spacers for LCDs		New
L03-G05B6	Transistors for LCDs		New
L03-G05B7	Filters and polarisers		New
L03-G05B7A	Colour filters	see L03-G02 for colour filters not used in LCDs	New
L03-G05B7B	Polarisers		New
L03-G05B8	Alignment layers		New
L03-G05B9	Conductive films and other components for LCDs		New
L03-G05C1	Electrochromic materials		New
L03-G05C2	Other materials for electrochromic devices	Includes e.g. polymer or ceramic sealants or glass layers	New
L03-G05F1	Electroluminescent materials		New
L03-G05F2	Other materials for EL devices	Includes e.g. polymer or ceramic sealants or glass layers	New
L03-G05G	Electrophoretic displays and materials		New
L03-G09	Other Electro(in)organic Materials	For materials used in specific applications not catered for elsewhere	New
L03-G09A	Piezoelectric		New
L03-G09A1	Inorganic	Covers e.g. lead zirconium titanates (PZT) etc.	New
L03-G09A2	Organic and polymeric	Covers e.g. polyvinylidene fluoride (PVdF) etc.	New
L03-G09B	Ferroelectric and ferroelastic		New
L03-G09C	Pyroelectric		New
L03-G09D	Thermo-optical		New
L03-G09E	Other non-linear optical materials		New
L03-G09F	Electrorheological		New
L03-G10	Other electronic devices	For specific devices not catered for elsewhere where the materials aspect is important	New
L03-G10A	Piezoelectric transducers	see also V06 codes for specific details	New
L03-G10A1	Inkjet heads		New
L03-G10A2	Motors e.g. USM		New
L03-G10B	Thermal inkjet printing heads		New
L03-G10C	Thermal printing heads	e.g. as used by dye sublimation printers	New
L03-G10D	Other thermo-optical devices		New
L03-G10E	Image converters and intensifiers		New
L03-J	Other manufacture and treatment of elect(ron)ic components and materials		Change Title
L03-J01	Recycling of electrical and electronic materials and devices	Used in combination with relevant device codes	New
L03-J02	Materials for device housings and packaging	Includes polymers e.g. for electrical device casings and for non-specific electrical uses and material used for packaging devices and apparatus for storage	New
L04 Semiconductors			
L04-C09A	Washing and cleaning compositions		New
L04-C09B	Methods		New
L04-C09C	Apparatus		New
L04-C16B	Laser annealing		New

L04-C18A	Process monitoring and control	see also relevant L04-C and U11-C process codes and U11-F codes	New
L04-C18B	Testing of devices	see also U11-F codes	New
L04-E	Semiconductor Devices		Change Title
L04-E01F	CHEMFET		New
L04-E01G	Phototransistors		New
L04-E01H	Lab-on-chip	see also proposed J04-B02, S03-H01 and U13-D04B codes	New
L04-E02A	Photodiodes		New
L04-E05G	Photoresistors		New
L04-E15	Semiconductor memories		New
L04-X	Ancillary semiconductor manufacturing process and apparatus		Change Title
L04-X01	Ultrapure water production for semiconductor processes	see also J01 codes for specific treatment methods and apparatus	New
L04-X02	Processing of waste water from semiconductor manufacturing processes	see also J01 codes for specific treatment methods and apparatus	New
L04-X03	Processing of waste gases from semiconductor manufacturing processes	see also J01 codes for specific treatment methods and apparatus	New
Section M Metallurgy			
M25 Non-ferrous Metal Production/ Refining			
M25-F01	Vacuum refining		New
M25-F02	Bioremediation using micro-organisms		New
M25-F03	Phytoremediation and phytomining		New
M25-F04	Low gravity and zero gravity processing		New
M25-X	Other non-ferrous metal processing		Change Title
M28 Electrolytic/ Electrothermic production/ Refining Metals			
M28-F	Other electrical metal refining processes		Change Title
M29 Changing Physical Structure Non-Ferrous Metal Alloys			
M29-E	Other non-ferrous metal treatment and testing		Change Title