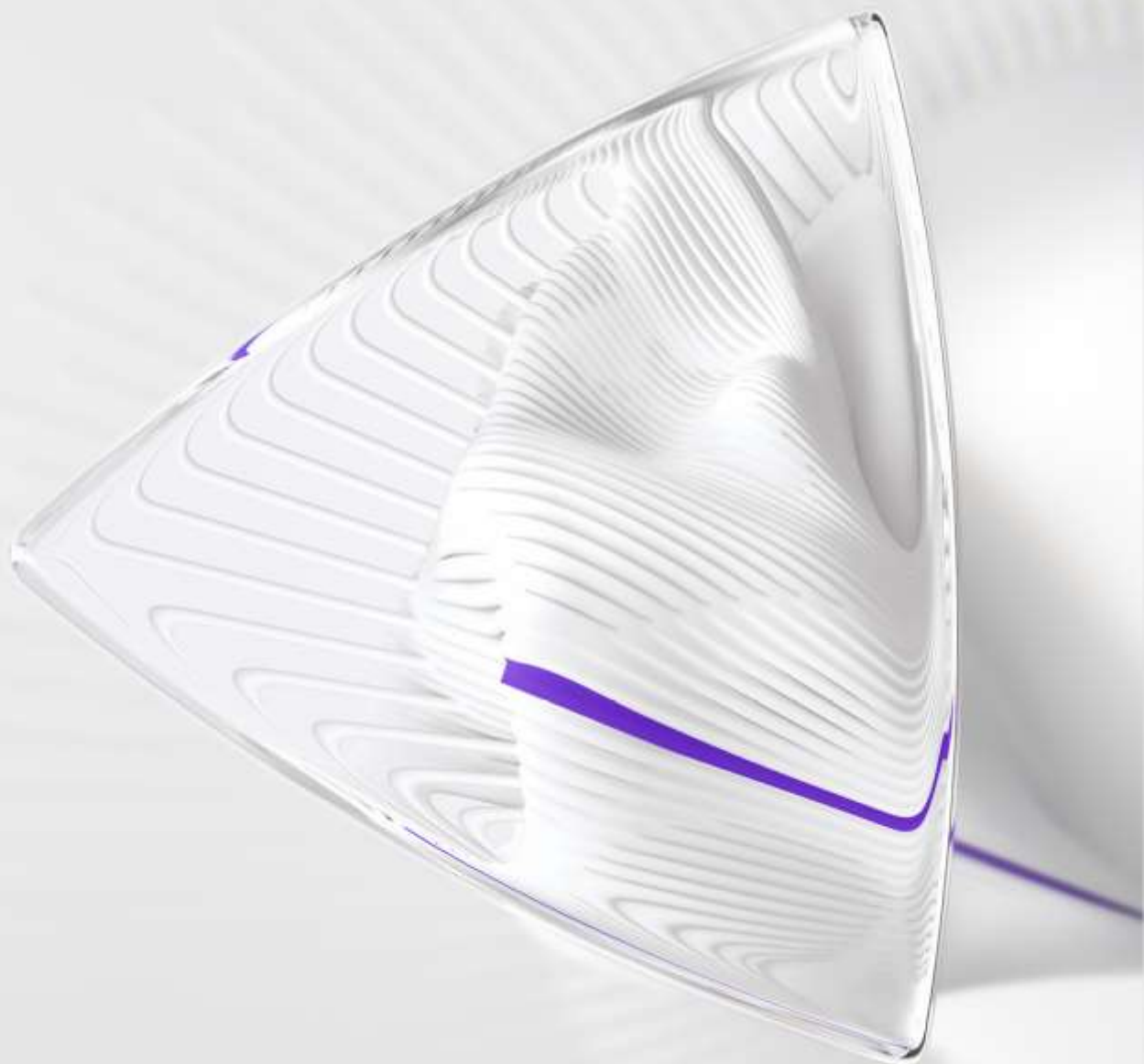


Derwent World Patents Index®

# **MCR 2023 CPI, GMPI and EPI Changes**

**December 2022**



DWPI Manual Code Revision 2023 - GMPI and EPI Codes					
New/Changed/Retired	Code	Date Range	Title	Scope Notes	Search Terms
<b>SECTION A</b>					
Change scope note	A05-J09	(1977- )	Amine-epihalohydrin polymers; polycarbodiimides, polyhydrazides	Including polybrene.	Polybrene
New	A10-D07	(2023- )	General condensation polymerization		Condensation, polymerization
Change scope note	A10-E09	( - )	Hydrolysis, saponification, alcoholysis, glycolysis	For (partially) hydrolyzed polyvinyl acetate or ethylene vinyl acetate copolymer see A10-E09A and A10-E09B+ appropriately. Including reactions of chitosan.	Chitosan
Change scope note	A12-W04	( - )	Agriculture, horticulture	Includes animal husbandry.	
<b>SECTION B</b>					
Change scope note	B04-H03	(1994- )	Prostaglandins general and other	Includes all modified prostaglandins not covered more specifically in subcodes.	
Change scope note	B14-A02A4	(1994- )	Poxvirus	Includes monkeypox.	
Change scope note	B14-A02B	(1994- )	RNA viruses general and other	Includes Filoviridae e.g. Ebola virus and Marburg virus.	
New	B14-H06D	(2023- )	Sonosensitizers		
New	B14-S21A	(2023- )	Stem cell therapy		
New	B14-S21B	(2023- )	CAR T-cell therapy		
New	B14-S11F	(2023- )	Vaccine adjuvants general	This code is also searched when three or more specific subcodes would be applied.	
New	B14-S11F1	(2023- )	Aluminum adjuvants		
New	B14-S11F2	(2023- )	Freund's adjuvants		
New	B14-S11F3	(2023- )	Squalene based adjuvants		
New	B14-S11F4	(2023- )	Vitamin E/tocopherol based adjuvants		
New	B14-S11F5	(2023- )	Saponin based adjuvants		
New	B14-S11F6	(2023- )	Other adjuvants		
Change scope note	B14-S27	(2010- )	Electromagnetic therapy	Includes ultrasound, sonodynamic therapy and phototherapy using high energy photons. Also includes electrical stimulation.	
<b>SECTION C</b>					
Change scope note	C04-H03	(1994- )	Prostaglandins general and other	Includes all modified prostaglandins not covered more specifically in subcodes.	
Change scope note	C14-A02A4	(1994- )	Poxvirus	Includes monkeypox.	
Change scope note	C14-A02B	(1994- )	RNA viruses general and other	Includes Filoviridae e.g. Ebola virus and Marburg virus.	
New	C14-H06D	(2023- )	Sonosensitizers		
New	C14-S21A	(2023- )	Stem cell therapy		
New	C14-S21B	(2023- )	CAR T-cell therapy		
New	C14-S11F	(2023- )	Vaccine adjuvants general	This code is also searched when three or more specific subcodes would be applied.	
New	C14-S11F1	(2023- )	Aluminum adjuvants		
New	C14-S11F2	(2023- )	Freund's adjuvants		
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New	C14-S11F5	(2023- )	Saponin based adjuvants		
New	C14-S11F6	(2023- )	Other adjuvants		
Change scope note	C14-S27	(2010- )	Electromagnetic therapy	Includes ultrasound, sonodynamic therapy and phototherapy using high energy photons. Also includes electrical stimulation.	
<b>SECTION D</b>					
New	D05-A01B7	(2023- )	Translocase	Enzymes in class EC7.	
New	D05-A02G	(2023- )	Translocase	Enzymes in class EC7.	
New	D09-A02C	(2023- )	By electrochemical methods	Disinfection by electrochemical methods.	
<b>SECTION E</b>					
Change scope note	E11-F07D	(2010- )	Other N processes	Used for specific nitrogen-containing groups and includes cyanation. General references code as E11-F07.	
New	E11-G09	(2023- )	Dealkoxylation	Removal of alkoxy groups.	
<b>SECTION N</b>					
New	N06-C11	(2023- )	MOF catalyst	Metal organic framework type compounds used as catalyst.	
Change scope note	N06-E	( - )	Catalyst preparation, recovery, regeneration - gen	Includes catalyst poisoning resistants or suppressors.	

# DWPI Manual Code Revision 2023 - GMPI and EPI Codes

New/Changed/Retired	Class	Code	Date Range	Title	Scope Notes	Search Terms
<b>SECTION P</b>						
Change Search Terms	P11	P11-A05	(2015- )	Tilling	Includes soil preparations such as stirring and overturning of soil.	Tillage
New	P11	P11-E09	(2023- )	Latex, resin, sap, syrup		Natural rubber, maple syrup
Change Search Terms	P12	P12-A01	(2015- )	Hand instruments for harvesting	Includes all hand-cutting tools, such as scythes, rakes, forks, etc.	Sickles, knives, taps, augers
New	P12	P12-E09	(2023- )	Saps and syrups	Includes tapping trunks of rubber, maple, birch, walnut, pine etc. trees for natural rubber, latex, resin, maple syrup or other syrup-like substance.	Sapping, Resin
New	P12	P12-E09A	(2023- )	Natural rubbers and latex		Rubber tree
New	P12	P12-E09B	(2023- )	Syrups	Includes tapping of e.g. acer and birch trees for saps / syrups.	Birch syrup, maple syrup
New	P12	P12-T15	(2023- )	Taps and collectors	Includes taps and collection buckets used to collect latex, resin and syrup	Tapping, sapping
Change Scope Notes	P13	P13-A06	(2015- )	Water supply and management	Includes watering gardens, fields, sports grounds, plant pots, etc. Also includes methods or systems for reducing water run-off, evaporation, etc. Includes means of preventing soil erosion due to water. See also Q42-A11 for prevention of soil erosion.	
New	P13	P13-E09	(2023- )	Latex, resin, sap, syrup		Natural rubber, maple syrup
Change Search Terms	P14	P14-A01B	(2015- )	Animal Training		Mazes, labyrinths, animal behaviour
Change Title + Search Terms	P14	P14-B01	(2015- )	Scaring, catching or killing of animals; Insect repellent	Includes devices for attracting insects, devices for dispensing poison, bird-scarers, traps, etc. Also includes hunting appliances, such as shooting stands, beater rattles, decoys, etc. This code can be used with P14-E codes to highlight the type of animals scared, caught or killed. Insect/vermin traps placed in animal shelters should be coded in both P14-A01A and P14-B01.	Fly papers, fly-swatters, nets, fumigators, flame-throwers, scarecrow, mosquito repellent
Change Search Terms	P25	P25-C01A	(2015- )	Bookshelves and office cabinets		Bookcase, filing cabinet
Change Scope Notes	P27	P27-B99	(2015- )	Other household and table equipment	Includes screens such as fire screens, flower vases, wall boards, paper baskets, key holders, letter boxes, incense burners, etc. Incense burners used during religious celebrations are also coded under P27-B06 and incense burners used as mosquito repellent are also coded under P14-B01.	
Change Scope Notes + Search Terms	P36	P36-E07	(2015- )	Outdoor toys and playing equipment	Includes skateboards, scooters and other ride-on vehicles for children, balls, slides, swings, for home/garden use and as playground equipment. Tree houses are also covered under Q46-B99.	Kite, merry-go-round, roller skates, roundabout, see-saw, tree house
New	P76	P76-F	(2023- )	Filing and Folders	Includes filing devices such as folders, portfolios, plastic pockets/wallets, document holders/wallets, magazine binders, collapsible file carry boxes, file dividers, etc. Filing cabinets are coded with office furniture under P25-C01A only.	
<b>SECTION Q</b>						
Change Scope Notes + Search Terms	Q32	Q32-A03	(2012- )	Cartons	Includes containers made from liquid packaging board such as juiceboxes, milk cartons, etc.	-
Change Search Terms	Q32	Q32-A06	(2018- )	Capsules; Cartridges	Includes coffee capsules, and ink cartridges. Ink cartridges for printers are also coded under S06-G06A.	Beverage pods
Change Title	Q32	Q32-A09	(2018- )	Trays; Racks	Includes drawer-and-shell containers	
Change Search Terms	Q33	Q33-B	(2012- )	Plastic; Polymer; Polystyrene; Thermocol		Fiberglass, ABS, rubber, resin, acrylonitrile-butadiene-styrene, terpolymer
New	Q42	Q42-A11	(2023- )	Prevention of soil erosion	Includes means of preventing soil degradation due to water, wind, animal. See Q42-A02 codes for coastal defenses and control of watercourses, such as barrages, embankments, levees, etc. Means of preventing soil erosion due to water in e.g. fields are also coded under P13-A06.	
New	Q46	Q46-B99	(2023- )	Other special structures		Tree house
New	Q62	Q62-G06	(2023- )	Fluid Bearings	Includes bearings where load is supported by a thin layer of rapidly moving pressurized liquid/gas between the bearing surfaces.	Hydrodynamic, hydrostatic, fluid dynamic bearings
Change Search Terms	Q67	Q67-D	(2016- )	Pipe protection	Includes protection against corrosion, incrustation, wear, fire, etc. Also includes heating or cooling details for preventing damage (e.g. freezing) of pipes.	Protective tubing, thermal insulation, vibration damping
New	Q77	Q77-U40	(2023- )	Industrial	Includes glass and ceramic manufacture.	

**DWPI Manual Code Revision 2023 - GMPI and EPI Codes**

New/Changed/Retired	Class	Code	Date Range	Title	Scope Notes	Search Terms
<b>SECTION S</b>						
Change Title + Search Terms	S06	S06-K07C7	(2010- )	Secrecy/Authentication	Previously coded as W02-J03C6. Includes transmission data encoding, password, data encryption. Management of confidential/secure documents are also coded by S06-K07A3.	
<b>SECTION T</b>						
Change Search Terms	T01	T01-C04B	(1997- )	For display panels	Flexible display monitors are coded under T04-H03N. Details of general foldable/bendable displays are coded under W05-E05F.	Matrix, LCD, gas discharge, plasma, hologram, flexible panel, foldable panel
Change Search Terms	T01	T01-J10B2A	(2002- )	For recognition	Includes character and image recognition, OCR, and object recognition.	Pattern recognition, mark recognition
New	T04	T04-H03N	(2023- )	Flexible display monitors	This code covers constructional aspects of flexible panel of computer displays/ monitors. Details of general foldable/bendable displays are coded under W05-E05F.	
<b>SECTION V</b>						
Change Scope notes + Search Terms	V06	V06-M06F	(1992- )	Electrostatic motors, actuators, generators	Also includes triboelectric motors or generators.	Triboelectric effect
Change Scope notes + Search Terms	V06	V06-V04L	(2007- )	Industrial	Includes machine tools, manipulators, etc.	Drilling, cutting, turning, lathe, robotics
Change Scope Notes	V07	V07-F01A3B	(1992- )	Materials for optical fibers and waveguides	For non-linear optical and electro-optical materials see V07-K10 codes. Details of materials for optical cables are coded under V07-F01B4C only.	Silica
New	V07	V07-F01B4C	(2023 - )	Characterised by optical cable materials	Includes optical cable materials. Details of materials for optical fibers and waveguides are coded under V07-F01A3B only.	Plastic, silica, glass
Change Search Terms	V07	V07-K01A2	(1997- )	Area modulation	Prior to 1997 spatial modulation is covered by V07-K01 and V07-K05. For magneto-optic spatial modulation see also V07-K03.	Light valves, spatial, Spatial light Modulation (SLM), 3D Projecting light displays
<b>SECTION W</b>						
Change Search Terms	W01	W01-A01A	( - )	By diversity, repeating or returning	Diversity radio systems are covered by W02-C03A codes and where an invention is concerned chiefly with radio aspects and data transmission details are not significant, those codes are assigned instead of W01-A01A. However, where radio aspects and data transmission aspects are significant both W01-A01A and W02-C03A codes may be assigned together.	ARQ, retransmission request, MIMO, return channel, Stop-and-wait protocols, Go-Back-N protocols, Selective-repeat protocols
Change Title	W02	W02-C03G	(2010- )	Carrier aggregation, Dual connectivity and Cognitive radio		
Change Title/Scope Note	W02	W02-C03G1	(2010- )	Carrier aggregation and dual connectivity	From 2021, this code has sub-codes which cover carrier aggregation and dual connectivity in 4G and 5G networks.	
Retired	W02	W02-C03G1A*	(2021-2022)	General resource allocation	*This code is now discontinued and transferred to W02-C03R from 2023. It is still searchable and valid for records from 2021 and 2022.	
New	W02	W02-C03R	(2023- )	Resource/Traffic Management	This code covers more precise details of resource allocation and prior 2023 the same is covered under W02-C03G1A. This is a broad level code and general resource allocation are covered under W02-C03R1.	
New	W02	W02-C03R1	(2023- )	General resource allocation		
New	W02	W02-C03R1A	(2023- )	Allocation in time domain		
New	W02	W02-C03R1B	(2023- )	Allocation in frequency domain		
New	W02	W02-C03R1C	(2023- )	Allocation in variable band		
New	W02	W02-C03R1D	(2023- )	Semi-persistent scheduling (SPS)		
New	W02	W02-C03R1E	(2023- )	Grant-free scheduling		
New	W02	W02-C03R1F	(2023- )	Uplink management	This code is used along with other W02-C03R codes to tell that resource allocation is for uplink management.	
New	W02	W02-C03R1G	(2023- )	Downlink management	This code is used along with other W02-C03R codes to tell that resource allocation is for downlink management.	
New	W02	W02-C03R2	(2023- )	Selection of wireless resources by user or terminal		
New	W02	W02-C03R3	(2023- )	Traffic Management	Traffic/load control for data networks area covered under W01-A06A3.	

# DWPI Manual Code Revision 2023 - GMPI and EPI Codes

New/Changed/Retired	Class	Code	Date Range	Title	Scope Notes	Search Terms
<b>SECTION W (Continued)</b>						
New	W02	W02-C03R4	(2023- )	Resource management for control channels and signalling		
New	W02	W02-C03R5	(2023- )	Resource management for broadcast services		
New	W02	W02-C03R6	(2023- )	Resource management for direct mode communication		
Change Scope Notes	W04	W04-X03E6	(2002- )	Animated toys	Covers moving toys of a non-humanoid or non-vehicle form. Includes robots, virtual pets and gyroscope toys.	
Change Scope Notes	W05	W05-E05F	(2020- )	Flexible/foldable/bendable displays	Includes the structural details of flexible or foldable displays as used in mobile phones and other portable display devices. See also U14 for liquid crystal and electroluminescent displays, and U12 for light emitting diode (LED) displays. Flexible display monitors for computers are coded under T04-H03N.	
<b>SECTION X</b>						
Change Scope Notes	X15	X15-A02X	(2010- )	Other solar/photovoltaic panels/cells details	Includes mechanical details of roof structures. Mechanical details of solar/photovoltaic panels, modules or tiles are coded under X15-A02C only. Includes wiring to solar battery, details of junction boxes (also covered by V04-B09 and X12-G04B codes), cooling arrangements and solar module packaging. Packaging details of electronic goods are also coded under Q34-M02.	
New	X16	X16-B01S	(2023- )	Solid State batteries		SSD battery, solid-state silicon battery
Change Search Terms	X16	X16-C01C	(1997- )	Solid polymer fuel cell		PEM, SPEFC, SPE fuel cell, proton exchange membrane, solid polyethylene fuel cell, SPFC, PEMFC, direct methanol fuel cell, DMFC
Change Scope Notes	X16	X16-F03B	(1987- )	Vents, filler caps	Includes arrangement for filling/topping-up with liquids (e.g. electrolytes), or for draining liquids from the casing.	Valves, safety devices, pressure relief
Change Scope Notes	X16	X16-F04	(1987- )	Electrolyte circulating arrangement	Includes arrangement for stirring the electrolyte.	
Change Scope Notes + Search Terms	X16	X16-F05	(1987- )	Battery connectors; jumper cables	Details of internal connections are coded under X16-F03A3. Includes connectors for connecting terminals of adjacent batteries or connecting cells outside a battery casing. See also V04 for connectors.	Clamps, interconnectors
Change Scope Notes + Search Terms	X16	X16-F09	( - )	Other cell constructional details	Includes getter, packaging carton, theft prevention, nameplate labels, vibration damping arrangements, protection against corrosion/dust/water, arrangement for preventing undesired use such as automatic interruption of current due to temperature change, shock, etc.	Guarantee label, waterproof, dustproof
Change Search Terms	X24	X24-D04	( - )	Welding of plastics materials	See also X25-A06 and maybe T06-D13 for plastics working. Includes dielectric welding, RF welding and high frequency welding to fuse plastics together.	Electric resistance heaters, HF welding
Change Search Terms	X24	X24-D09	( - )	Other welding, cutting or boring aspects	Includes non-specific welding apparatus with substantial electrical content, electrolytic welding and high frequency welding used on non-plastic materials. High-frequency welding used on plastic materials is coded under X24-D04 only.	
Change Search Terms	X25	X25-F05A	(1987- )	Trucks, goods or robotic vehicles	Includes IC engine and electric forklift trucks, vehicles mounted with lifting platform (also see X22-X18 or Q15-A codes), and walk behind trucks (also see X22-P05F or X21-A01B for IC engine and electric fork lifts respectively). See T06-D08F for forklift control. See Q19-C06 instead for mechanical aspects of forklift trucks. Also includes walking robots and electrical aspects of shopping trolleys such as electric drive arrangements and advertising displays/bar-code readers. See Q22-A02 for mechanical aspects of trolleys and Q38-B for mechanical details of trucks and robotic vehicles.	Fork lift, walking robot, electric shopping trolley, climbing robot, inspection robots, autonomous, carts
Change Search Terms	X25	X25-F07	(2002- )	Automated warehousing	Includes shelving and retrieving arrangements. See also T06-D08 for control, X25-F01 for conveyors, X25-F05A for conveying trucks and X25-F03A3C for warehousing of tagged goods. Electrical details of manipulators used to grab goods are also coded under X25-A03E.	Three dimensional warehouse, stereoscopic warehouse, intelligent warehouse
Change Search Terms	X27	X27-C03	(1987- )	Electric grills and electric fryers		Air fryer

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