

# CPC COOPERATIVE PATENT CLASSIFICATION

## Y GENERAL TAGGING OF NEW TECHNOLOGICAL DEVELOPMENTS; GENERAL TAGGING OF CROSS-SECTIONAL TECHNOLOGIES SPANNING OVER SEVERAL SECTIONS OF THE IPC; TECHNICAL SUBJECTS COVERED BY FORMER USPC CROSS-REFERENCE ART COLLECTIONS [XRACs] AND DIGESTS

(NOTES omitted)

## Y02 TECHNOLOGIES OR APPLICATIONS FOR MITIGATION OR ADAPTATION AGAINST CLIMATE CHANGE

(NOTES omitted)

## Y02A TECHNOLOGIES FOR ADAPTATION TO CLIMATE CHANGE

### NOTE

This subclass covers technologies for adaptation to climate change, i.e. technologies that allow adapting to the adverse effects of climate change in human, industrial (including agriculture and livestock) and economic activities.

<b>10/00</b>	<b>at coastal zones; at river basins</b>	10/46	. . Computerized flood control, risk assessment or mapping
10/11	. Hard structures		
10/12	. . Reservoirs; Polders	10/48	. . Hazard insurance
10/13	. . Dykes; Dams	<b>20/00</b>	<b>Water conservation; Efficient water supply; Efficient water use</b>
10/14	. . Sea-walls, surge or tidal barriers		
10/15	. . Self-contained breakwaters	20/10	. Relating to general water supply, e.g. municipal or domestic water supply
10/16	. . Revetments of the shore		
10/17	. . Groynes	20/102	. . Tanks
10/18	. . Jetties or landing bridges	20/104	. . . for municipal applications
10/20	. Soft structures	20/106	. . . for domestic applications
10/21	. . Land claim or beach nourishment	20/108	. . Rainwater harvesting
10/22	. . Wetland restoration or creation	20/109	. . Obtaining drinking water from air humidity
10/23	. . Dune restoration or creation	20/112	. . Obtaining drinking water from open water
10/24	. . Cliff stabilization	20/114	. . Water wells
10/25	. . Artificial seaweed	20/116	. . . Vertical well filter pipes
10/26	. . Artificial reefs	20/118	. . . Borehole wells
10/27	. . Restoration or protection of coral reefs	20/119	. . . having horizontal or inclined filter pipes
10/28	. . Sediment management	20/12	. . Multipurpose dams or barriers
10/30	. Flood prevention; Flood management or accommodation; Storm water management	20/124	. . Water desalination
10/31	. . Permanently installed flood barriers	20/126	. . . characterized by the method
10/32	. . Temporarily installed flood barriers	20/128	. . . . Evaporation methods, e.g. distillation
10/33	. . Infiltration of water into the ground	20/129	. . . . . using solar energy
10/34	. . Flood-proof sanitary latrines	20/131	. . . . . Reverse-osmosis
10/35	. . Revetments for protection of river banks or dykes	20/132	. . . . . Freezing
10/36	. . Equalizing tanks in the sewage system for regulating the run-off	20/134	. . . . . Electrodialysis
10/37	. . Bioswales	20/138	. . . powered by a renewable energy source
10/38	. . Changing the natural surface of ground to re-route water	20/141	. . . . the source being wind power
		20/142	. . . . the source being solar thermal or photovoltaics
10/383	. . . Weirs	20/144	. . . . the source being wave energy
10/386	. . . Locks	20/146	. . Use of grey water
10/39	. . Evacuation systems	20/148	. . . using household water from wash basins or showers
10/395	. . Curb floodplain development for flood management	20/15	. . Leakage reduction or detection in water storage or distribution
10/40	. Monitoring; Forecasting; Planning		
10/41	. . of coastal areas	20/152	. . Water filtration
10/42	. . Real-time flood forecasting	20/154	. . . of domestic water
10/44	. . Disaster preparedness plans	20/156	. . . of municipal or industrial water
		20/16	. . Water quality or standards enforcement
		20/18	. . Solar- or wind-powered water pumping

20/20	. . Water pollution control technologies	30/248	. . . . . Recycled materials, e.g. made of used tires, bumpers or newspapers
20/202	. . . for households	30/249	. . . Glazing
20/204	. . . Keeping clear the surface of open water from oil spills	30/25	. . . . Vacuum glazing
20/206	. . . Monitoring water for contaminating materials	30/251	. . . . Aerogel glazing systems
20/208	. . Off-grid powered water treatment	30/252	. . . Wooden or plastic window or door frames with extra insulation
20/211	. . . Solar-powered water purification	30/253	. . . Roofs with adaptation potential
20/212	. . . Solar-powered wastewater sewage treatment, e.g. spray evaporation	30/254	. . . . Roof garden systems
20/214	. . . Water treatment at point of use for potable water	30/255	. . . . Roof coverings with high solar reflectance
20/216	. . . Wastewater treatment tanks	30/256	. . . Floors specially adapted for storing heat or cold
20/218	. . Water metering with adaptation potential, e.g. aiming at water saving, leakage detection or avoidance, fraud or theft detection	30/257	. . . Light dependent control systems for sun shading
20/22	. . Pricing strategies aiming to limit water consumption or spillage, e.g. progressive pricing, fraud detection or fostering water saving	30/259	. . Passive climatisation
20/30	. Relating to industrial water supply, e.g. used for cooling	30/26	. . . using air flow into the conditioned premises or facilities
20/302	. . Use of lower-grade water	30/261	. . . by improving the thermodynamic properties of the premises or facilities
20/304	. . Recirculation	30/27	. . Relating to heating, ventilation or air conditioning [HVAC] technologies
20/40	. Water resources protection or enhancement	30/272	. . . using solar thermal energy
20/402	. . River restoration	30/274	. . . using waste energy, e.g. from internal combustion engine
20/404	. . Saltwater intrusion barriers	30/276	. . . of the sorption type
20/406	. . Aquifer recharge	30/277	. . . . Absorption based systems
20/408	. . Draining or infiltration of impermeable surfaces for groundwater enrichment	30/278	. . . . Adsorption based systems
20/411	. . Water saving techniques at user level	30/30	. in transportation
20/412	. . . Reducing amount of water used by toilet flushing	30/31	. . Relating to road transportation
20/414	. . . Water-saving for showers or bath tubs	30/32	. . . Permeable parking lots
<b>30/00</b>	<b>Adapting or protecting infrastructure or their operation</b>	30/33	. . . Ground surface material
30/10	. in energy generation or distribution	30/333	. . . . Warm-mix asphalt
30/12	. . Weather forecasting for energy supply management	30/336	. . . . Engineered cementitious composite [ECC]
30/14	. . Extreme weather resilient electric power supply system, e.g. strengthening power lines or underground power cables	30/34	. . Relating to waterways transportation
30/16	. . Flood resilient electric equipment	30/35	. . . Storm resilient vessels
30/17	. . . Generators	30/36	. . . Active motion-dampening systems for ports
30/18	. . . . Uninterruptible power supply [UPS] systems; Backup generators	30/38	. . Relating to railways transportation
30/19	. . . Cabinets or switch boards	30/40	. Relating to water supply or wastewater treatment
30/20	. in buildings, dwellings or related infrastructures	30/45	. . Specially adapted pumping equipment e.g. for flood draining
30/21	. . Floating houses	30/50	. Resilient IT infrastructure
30/22	. . Rotary buildings	30/60	. Planning or developing urban green infrastructure
30/23	. . Elevated buildings	30/62	. . Integration of district energy or distributed or on-site energy generation, e.g. combined heat and power generation or solar energy, in city layout
30/24	. . Structural elements or technologies for improving thermal insulation	30/64	. . for reducing heat island effects, e.g. by minimizing paved surfaces or by planting trees
30/241	. . . Thermal insulation technologies with adaptation potential	30/68	. . Sloping ground terrains in public areas
30/242	. . . . Slab shaped vacuum insulation	<b>40/00</b>	<b>Adaptation technologies in agriculture, forestry, livestock or agroalimentary production</b>
30/243	. . . . Slab shaped aerogel insulation	40/10	. in agriculture
30/244	. . . . characterized by the use of locally available building materials	40/11	. . Specially adapted for crops
30/245	. . . . . of vegetal origin, e.g. thatching or straw	40/12	. . . Precision agriculture
30/246	. . . . . of animal origin, e.g. wool or feathers	40/13	. . . Abiotic stress
30/247	. . . . . using indigenous Earth materials, e.g. clay or stone	40/132	. . . . Plants tolerant to drought
		40/135	. . . . Plants tolerant to salinity
		40/138	. . . . Plants tolerant to heat
		40/14	. . . with increased yield
		40/143	. . . . using agrochemicals
		40/146	. . . . Transgenic plants
		40/15	. . . Fungal symbiosis
		40/16	. . . Pest or insect control

- 40/162 . . . . Genetically modified [GMO] plants resistant to insects
- 40/164 . . . . Genetically modified [GMO] plants resistant to nematodes
- 40/166 . . . . Ecological pest control, i.e. using competitors or parasites against crop pests
- 40/168 . . . . Rainguards for rubber trees
- 40/17 . . . . Aeroponics seed potato production
- 40/18 . . . . Related to fertilizer management
- 40/19 . . . . Integrated nutrient management, e.g. appropriate fertilizer use
- 40/20 . . . . Sustainable fertilizers of biological origin
- 40/201 . . . . . Fertilizers made from animal corpses or parts thereof
- 40/202 . . . . . from fish or from fish-wastes
- 40/203 . . . . . from meat-wastes or from other wastes of animal origin, e.g. skins, hair, hoofs, feathers, blood
- 40/204 . . . . . Apparatus for their manufacture
- 40/205 . . . . . Fertilizers from human or animal excrements, e.g. manure
- 40/206 . . . . . Guano
- 40/207 . . . . . from human fecal masses
- 40/208 . . . . . Apparatus for the manufacture
- 40/209 . . . . . Fertilizers made from waste originating from industrial processing of raw material of agricultural origin or derived products thereof
- 40/21 . . . . . Solid waste from mechanical processing of material, e.g. seed coats, olive pits, almond shells, fruit residue, rice hulls
- 40/211 . . . . . Waste from chemical processing of material, e.g. distillation, roasting, cooking
- 40/212 . . . . . Waste from biochemical processing of material, e.g. fermentation, breweries
- 40/213 . . . . . Fertilizers from waste water, sewage sludge, sea slime, ooze or similar masses
- 40/214 . . . . . Fertilizers from household or town refuse
- 40/215 . . . . . Apparatus for the manufacture
- 40/216 . . . . . Biological compost
- 40/22 . . . . Improving land use; Improving water use or availability; Controlling erosion
- 40/221 . . . . Change land topography to improve water uptake or to reduce wind erosion
- 40/222 . . . . . by subdividing large fields
- 40/223 . . . . . Grass waterways maintenance
- 40/224 . . . . . by roughening land surface
- 40/225 . . . . . Windbreaks
- 40/226 . . . . Floating agriculture
- 40/227 . . . . Control of sand encroachment
- 40/228 . . . . Wetland restoration or protection
- 40/229 . . . . Biochar technologies
- 40/23 . . . . Improving water use or availability; Controlling erosion
- 40/231 . . . . . in rain-fed agriculture
- 40/232 . . . . . Soil conservation
- 40/233 . . . . . Methods for working soils
- 40/234 . . . . . Moss gardening
- 40/235 . . . . . in irrigated agriculture
- 40/236 . . . . . Tillage conservation
- 40/237 . . . . . Efficient irrigation techniques, e.g. drip irrigation, sprinkler or spray irrigation
- 40/238 . . . . . Irrigation information systems
- 40/239 . . . . . Lining of canals with plastic films
- 40/24 . . . . . Concentrate irrigation in periods of peak growth
- 40/241 . . . . . using brackish water
- 40/242 . . . . Limiting land conversion or deforestation
- 40/243 . . . . Afforestation or reforestation
- 40/25 . . . . Greenhouse technology
- 40/252 . . . . Constructional details of greenhouses
- 40/254 . . . . . Dismountable or portable greenhouses; Greenhouses with sliding roofs
- 40/256 . . . . Lighting systems for greenhouses
- 40/258 . . . . Shading devices for greenhouses
- 40/26 . . . . . Lamellar or like blinds
- 40/262 . . . . . Inflatable structures
- 40/264 . . . . Devices or systems for heating, ventilating, regulating temperature, or watering
- 40/266 . . . . . Collecting solar energy
- 40/268 . . . . . Air-conditioning systems
- 40/27 . . . . . Watering arrangements
- 40/272 . . . . . Efficient watering
- 40/274 . . . . . Electric devices
- 40/28 . . . . specially adapted for farming
- 40/282 . . . . Changing farming practices to conserve soil moisture or nutrients; Reduce run-off or control soil erosion
- 40/284 . . . . . Mulch stubble or straw
- 40/286 . . . . . Crops rotation
- 40/288 . . . . . Avoiding mono-cropping; Crop diversification
- 40/29 . . . . . using lower planting densities
- 40/292 . . . . . Terracing
- 40/294 . . . . . Agro-forestry, silviculture or mixed farming solutions
- 40/296 . . . . . Bushfire prevention; Prescribed fire, i.e. controlled burning to reduce fuel buildup
- 40/298 . . . . . Forest fire control
- 40/30 . . . . Timing of farming operations
- 40/302 . . . . . Advance sowing dates to offset moisture stress during warm periods
- 40/40 . . . . Management of saline soils
- 40/50 . . . . Evapotranspiration
- 40/51 . . . . specially adapted for storing agricultural or horticultural products
- 40/52 . . . . Racks for drying purposes
- 40/53 . . . . . Natural, e.g. solar drying
- 40/55 . . . . Silos for storing seeds or grain
- 40/57 . . . . Off-grid powered storage
- 40/58 . . . . . using renewable energies
- 40/60 . . . . Ecological corridors or buffer zones
- 40/70 . . . . in livestock or poultry
- 40/72 . . . . Climate tolerant animal varieties, e.g. selective breeding
- 40/73 . . . . Providing additional fodder for cattle during the dry season, e.g. by using fodder banks
- 40/74 . . . . Optimising pasture management
- 40/75 . . . . Environmental control in livestock or poultry housing, e.g. of temperature or humidity
- 40/76 . . . . . using renewable energy
- 40/78 . . . . Livestock or poultry disease management, wherein the disease is affected by climate change

- 40/80 . in fisheries management
- 40/81 . . Aquaculture, i.e. culture of aquatic animals
- 40/812 . . . of fish
- 40/814 . . . . Prevention or treatment of fish diseases
- 40/816 . . . . Hatching, e.g. incubators
- 40/818 . . . . Alternative feeds for fish aquaculture
- 40/82 . . . of shellfish
- 40/822 . . . . of bivalves, e.g. oysters or mussels
- 40/824 . . . . of crustaceans, e.g. lobsters or shrimps
- 40/826 . . . Floating cultivation devices, e.g. rafts or floating fish-farms
- 40/828 . . . . Connecting or mooring devices therefor
- 40/83 . . . Artificial fishing banks or reefs
- 40/832 . . . . made of tyres
- 40/834 . . . . assembled of components
- 40/836 . . . . floating
- 40/838 . . . . of monolithic form, e.g. blocks
- 40/84 . . . . Arrangements for sinking or mooring thereof
- 40/845 . . . Feeding devices
- 40/86 . . Information Technologies [IT] supporting fishing
- 40/88 . . Seaweed farming; Management of sea grass beds
- 40/90 . in food processing or handling
- 40/92 . . in food processing
- 40/922 . . . Technologies for reducing water consumption
- 40/924 . . . using renewable energies
- 40/926 . . . . Cooking stoves or furnaces using solar heat
- 40/928 . . . . Cooking stoves using biomass
- 40/94 . . relating to food conservation
- 40/941 . . . using natural products
- 40/942 . . . . using natural sugars
- 40/943 . . . . using natural acids, e.g. vinegar, citric
- 40/944 . . . . using vegetal oils
- 40/945 . . . . Salt based conservation
- 40/946 . . . . . using brine
- 40/947 . . . Off-grid thermal processing
- 40/948 . . . . Sun drying
- 40/949 . . . . Food smoking
- 40/95 . . . . of edible seeds
- 40/96 . . relating to food management or storing
- 40/961 . . . Biopackaging, e.g. packaging containers made from renewable materials, bioplastics or biodegradable materials
- 40/962 . . . Wood Barrels
- 40/963 . . . Off-grid food refrigeration
- 40/964 . . . . Devices using naturally cold air or forced air convection
- 40/965 . . . . Devices using heat pumps
- 40/966 . . . . Powered by renewable energy sources
- 40/967 . . . . using waste heat, e.g. from an internal combustion engine
- 40/968 . . . . using ice
- 50/00 in human health protection**
- 50/10 . against extreme weather events
- 50/12 . . Early warning systems for extreme weather events
- 50/14 . . Storm shelters or storm cellars
- 50/16 . . Landslide or mudflow monitoring or protecting systems
- 50/20 . Air quality improvement or preservation
- 50/21 . . Mechanical or electrostatic filtering in heating, ventilation or air conditioning [HVAC]
- 50/22 . . Air sterilisation or disinfection
- 50/23 . . Emission reduction or control
- 50/232 . . . Catalytic converters
- 50/2322 . . . . for exhaust after-treatment of internal combustion engines in vehicles
- 50/2324 . . . . . Three way catalysts, i.e. for controlled oxidation or reduction of exhaust gases, e.g. stoichiometric equivalence ratio
- 50/2325 . . . . . Selective Catalytic Reactors [SCR]
- 50/2326 . . . . for industrial applications
- 50/2327 . . . . . in chemical or petrochemical processes,
- 50/2328 . . . . . Burners or incinerators e.g. of waste or waste gases
- 50/234 . . . Physical or chemical processes, e.g. absorption, adsorption or filtering, characterised by the type of pollutant
- 50/2341 . . . . Carbon monoxide [CO]
- 50/2342 . . . . Carbon dioxide [CO<sub>2</sub>]
- 50/2343 . . . . Lead [Pb]
- 50/2344 . . . . Nitrogen oxides [NO<sub>x</sub>]
- 50/2345 . . . . . Nitrogen dioxide [NO<sub>2</sub>]
- 50/2346 . . . . Ammonia [NH<sub>3</sub>]
- 50/2347 . . . . Ground-level ozone
- 50/2348 . . . . Sulfur oxides [SO<sub>x</sub>]
- 50/2349 . . . . . Sulfur dioxide [SO<sub>2</sub>]
- 50/235 . . . . Volatile organic compounds [VOC]
- 50/2351 . . . . Atmospheric particulate matter [PM], e.g. carbon smoke microparticles, smog, aerosol particles, dust
- 50/2352 . . . . . the particulate matter coming from a source on-board a vehicle, e.g. removed by diesel particulate filters [DPF]
- 50/2353 . . . . . the particulate matter coming from stationary sources, e.g. power plants, steel mills, smelters, cement plants, refineries or incinerators
- 50/2354 . . . . . Cyclones
- 50/2355 . . . . . Filters
- 50/2356 . . . . . Scrubbers, spray chambers, pack towers
- 50/2357 . . . . . Electrostatic precipitators
- 50/2358 . . . Biological purification of waste gases
- 50/2359 . . . . with gas-solid contact
- 50/24 . . Pollution monitoring
- 50/241 . . . specially adapted for public areas
- 50/242 . . . characterized by the pollutant
- 50/243 . . . . Carbon monoxide [CO]
- 50/244 . . . . Carbon dioxide [CO<sub>2</sub>]
- 50/245 . . . . Nitrogen Oxides [NO<sub>x</sub>]
- 50/246 . . . . Ammonia [NH<sub>3</sub>]
- 50/247 . . . . Ozone [O<sub>3</sub>]
- 50/248 . . . . Sulfur oxides [SO<sub>x</sub>]
- 50/249 . . . . Volatile Organic Compounds [VOC]
- 50/25 . . . . Atmospheric particulate matter [PM] e.g. carbon smoke microparticles, smog, aerosol particles, dust
- 50/30 . Against vector-borne diseases, e.g. mosquito-borne, fly-borne, tick-borne or waterborne diseases whose impact is exacerbated by climate change
- 50/31 . . Vector control
- 50/32 . . . using natural substances as pesticides or insecticides, for fighting the disease vector
- 50/321 . . . . characterised by the vector

- 50/322 . . . . . Ticks
- 50/323 . . . . . Insects
- 50/324 . . . . . Stink bugs, bed bugs, kissing bugs or triatomine bugs
- 50/325 . . . . . Chigoe or jigger fleas, cat fleas, moorhen fleas or rat fleas
- 50/326 . . . . . Sand flies, black flies or Tsetse flies
- 50/327 . . . . . Mosquitos
- 50/328 . . . . . Aedes
- 50/329 . . . . . Culex
- 50/33 . . . . . Anopheles; Culiseta; Mansonia; Psorophora
- 50/331 . . . . . Snails of the genus Biomphalaria, Oncomelania or Bulinus
- 50/332 . . . . . characterised by the natural substance
- 50/333 . . . . . Substances of botanical origin, e.g. essential oils, waxes, flowers, seeds, leafs or wood
- 50/334 . . . . . Plant oils, i.e. vegetable or essential oils
- 50/335 . . . . . Canola oil
- 50/336 . . . . . Castor oil
- 50/337 . . . . . Catnip oil, e.g. nepetalactone
- 50/338 . . . . . Cedar oil
- 50/339 . . . . . Cinnamon oil
- 50/34 . . . . . Citronella oil
- 50/341 . . . . . Coconut oil
- 50/342 . . . . . Eucalyptus oil
- 50/343 . . . . . Lemon oil
- 50/344 . . . . . Geranium oil
- 50/345 . . . . . Mustard oil
- 50/346 . . . . . Neem oil, e.g. Azadirachtin
- 50/347 . . . . . Orange oil
- 50/348 . . . . . Soybean oil
- 50/349 . . . . . Camphor
- 50/35 . . . . . Garlic
- 50/351 . . . . . Pepper
- 50/352 . . . . . Rotenone
- 50/353 . . . . . Tobacco or nicotine
- 50/354 . . . . . Pyrethrum, e.g. Chrysanthemum cinerariifolium
- 50/356 . . . . . Fermented microbes, e.g. abermectins or spinosad
- 50/357 . . . . . Substances of mineral origin
- 50/358 . . . . . Sulfur
- 50/359 . . . . . Kaolin; Diatomaceous earth
- 50/36 . . . . . Natural soaps
- 50/37 . . . . . Means for catching or killing the vector, e.g. traps or nets
- 50/371 . . . . . the vector being mosquitos
- 50/372 . . . . . Impregnated bed nets; Long-lasting insecticidal bed nets [LLINs]
- 50/373 . . . . . the vector being flies
- 50/374 . . . . . the vector being stink bugs, kissing bugs, triatomine bugs or fleas
- 50/375 . . . . . the vector being ticks
- 50/38 . . . . . Medical treatment of vector-borne diseases characterised by the agent
- 50/381 . . . . . the vector-borne disease being caused by a virus
- 50/382 . . . . . of the genus Alphavirus, i.e. Chikungunya
- 50/383 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/384 . . . . . of the genus Flavivirus
- 50/385 . . . . . the disease being Dengue
- 50/386 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/387 . . . . . the disease being Yellow fever, i.e. Ochropyra
- 50/388 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/389 . . . . . the disease being Japanese encephalitis
- 50/39 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/391 . . . . . the disease being Zika
- 50/392 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/393 . . . . . the disease being West Nile fever
- 50/394 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/395 . . . . . the disease being Tick-borne encephalitis [TBE]
- 50/396 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/397 . . . . . of the genus Nairovirus, i.e. Congo-Crimean haemorrhagic fever or Rift valley fever or Hantaan haemorrhagic fever
- 50/398 . . . . . the vector-borne disease being caused by a bacteria
- 50/399 . . . . . of the genus Borrellia
- 50/40 . . . . . the bacteria being Borrelia crocidurae, Borrelia duttoni, Borrelia hermsii, Borrelia hispanica, Borrelia miyamotoi, Borrelia parkeri or Borrelia turicatae, i.e. relapsing fever or borreliosis
- 50/401 . . . . . the bacteria being Borrelia burgdorferi, i.e. Lyme disease or Lyme borreliosis
- 50/402 . . . . . of the genus Rickettsia, Orientia, Ehrlichia, Neorickettsia, Neoehrlichia or Anaplasma, i.e. Rickettsial diseases, e.g. spotted fever
- 50/403 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/404 . . . . . the bacteria being Francisella tularensis, i.e. Tularaemia
- 50/405 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/406 . . . . . the bacteria being Yersinia pestis, i.e. Plague
- 50/407 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/408 . . . . . the vector-borne disease being caused by a protozoa
- 50/409 . . . . . of the genus Leishmania i.e. Leishmaniasis, Sand-fly fever, phlebotomus fever, kala-azar, black fever or Dumdum fever
- 50/41 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera

- 50/411 . . . . of the genus Plasmodium, i.e. Malaria
- 50/412 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/413 . . . . . of the genus Trypanosoma
- 50/414 . . . . . the protozoa being Trypanosoma cruzi i.e. Chagas disease or American trypanosomiasis
- 50/415 . . . . . the protozoa being Trypanosoma brucei gambiense or Trypanosoma brucei rhodesiense, i.e. Human African trypanosomiasis or sleeping sickness
- 50/416 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/417 . . . the vector-borne disease being caused by a helminth, i.e. Helmanthiasis
- 50/418 . . . . . of the phylum nematoda
- 50/419 . . . . . the nematode being Dracunculus medinensis or Guinea worm, i.e. Dracunculiasis
- 50/42 . . . . . the nematode being a filarial worm
- 50/421 . . . . . the filarial worm being Wuchereria bancrofti, brugia malayi or Brugia timor, i.e. Lymphatic filariasis
- 50/422 . . . . . the filarial worm being Onchocerca volvulus, i.e. Onchocerciasis or river blindness
- 50/423 . . . . . the helminth being a trematode flatworm of the genus Schistosoma, i.e. Schistosomiasis or bilharziasis
- 50/45 . . Means for preventing water-borne diseases
- 50/451 . . . Genetic or molecular screening of pathogens
- 50/452 . . . Non water-based sanitation
- 50/453 . . . . . Pit latrines
- 50/454 . . . . . Dry closets e.g. incinerator closets
- 50/455 . . . . . having means for adding powder, e.g. earth
- 50/456 . . . . . Chemical toilets
- 50/46 . . Medical treatment of waterborne diseases characterized by the agent
- 50/462 . . . The waterborne disease being caused by a virus
- 50/463 . . . . . the virus being the Hepatitis A virus [HAV]
- 50/464 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/465 . . . . . the virus being the poliovirus, i.e. Poliomyelitis or Polio
- 50/466 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/467 . . . . . of the genus Polyomavirus: JC virus or BK virus, i.e. Polyomavirus infection
- 50/468 . . . The waterborne disease being caused by a bacteria
- 50/469 . . . . . the bacteria being clostridium botulinum, i.e. Botulism
- 50/47 . . . . . the bacteria being Campylobacter jejuni, i.e. Campylobacteriosis
- 50/471 . . . . . the bacteria being Vibrio cholerae, i.e. Cholera
- 50/472 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/473 . . . . . the bacteria being Escherichia coli, i.e. E. coli Infection
- 50/474 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/475 . . . . . of the genus Shigella, i.e. Dysentery
- 50/476 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/478 . . . . . of the genus Legionella, i.e. Legionellosis or Legionnaires' disease
- 50/479 . . . . . of the genus Leptospira, i.e. Leptospirosis
- 50/48 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/481 . . . . . of the genus Salmonella, i.e. Salmonellosis
- 50/482 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/483 . . . . . the bacteria being Salmonella typhi, i.e. Typhoid fever
- 50/484 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/485 . . . The waterborne disease being caused by a protozoa
- 50/486 . . . . . the protozoan being Entamoeba histolytica, i.e. Amoebiasis
- 50/487 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/488 . . . . . the protozoan being Cryptosporidium parvum, i.e. Cryptosporidiosis
- 50/489 . . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
- 50/49 . . . . . the protozoan being Cyclospora cayetanensis, i.e. Cyclosporiasis
- 50/491 . . . . . the protozoan being Giardia lamblia or Giardia intestinalis, i.e. Giardiasis
- 50/492 . . . . . of the phylum Microsporidia, i.e. Microsporidiosis
- 50/50 . . Chemical or biological analysis of biological material for identifying the disease, e.g. blood or urine testing, rapid diagnostic tests [RTDs] or immunological testing
- 50/51 . . . the disease being Chikungunya fever
- 50/52 . . . the disease being Cholera
- 50/53 . . . the disease being Dengue fever
- 50/54 . . . the disease being Hepatitis A
- 50/55 . . . the disease being Leishmaniasis, Sand-fly fever, phlebotomus fever, kala-azar, black fever or Dumdum fever
- 50/56 . . . the disease being Leptospirosis
- 50/57 . . . the disease being Lyme disease or Lyme borreliosis
- 50/58 . . . the disease being Malaria
- 50/59 . . . the disease being Typhus or typhoid fever
- 50/60 . . . the disease being Yellow fever or Ochropyra
- 90/00 Technologies having an indirect contribution to adaptation to climate change**
- 90/10 . Information and communication technologies [ICT] supporting adaptation to climate change.

## Y02A

- 90/12 . . Specially adapted for meteorology, e.g. weather forecasting, climate modelling
- 90/13 . . . Monitoring or forecasting for establishing the amount of global warming
- 90/14 . . . Real-time meteorological measuring
- 90/15 . . . Weather or climate specific geographic information systems [GIS], databases or models
- 90/16 . . . Climate simulation; Climate scenario development
- 90/17 . . . Weather surveillance systems using the reflection or reradiation of electromagnetic waves
- 90/18 . . . . Radar-based
- 90/19 . . . . Based on light detection and ranging [LIDAR] systems
- 90/20 . . specially adapted for the handling or processing of medical or healthcare data, relating to climate change
- 90/22 . . . for administrative, organizational or management aspects influenced by climate change adaptation
- 90/24 . . . for detecting, monitoring or modelling of medical or healthcare patterns in geographical or climatic regions, e.g. epidemics or pandemics
- 90/26 . . . for diagnosis or treatment, for medical simulation or for handling medical devices
- 90/30 . Assessment of water resources
- 90/32 . . based on topography, e.g. mapping, location, large scale investigation of water resources or satellite or aerial imagery
- 90/34 . . Hydrogeology; Hydrogeophysics
- 90/342 . . . by measuring electric resistivity
- 90/344 . . . by measuring magnetic field strength
- 90/36 . . Seismic methods or vibration analysis
- 90/40 . Monitoring or fighting invasive species