

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

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	40/237	. . . . . Efficient irrigation techniques, e.g. drip irrigation, sprinkler or spray irrigation
40/164	. . . . Genetically modified [GMO] plants resistant to nematodes	40/238	. . . . . Irrigation information systems
40/166	. . . . Ecological pest control, i.e. using competitors or parasites against crop pests	40/239	. . . . . Lining of canals with plastic films
40/168	. . . . Rainguards for rubber trees	40/24	. . . . . Concentrate irrigation in periods of peak growth
40/17	. . . Aeroponics seed potato production	40/241	. . . . . using brackish water
40/18	. . . Related to fertilizer management	40/242	. . . Limiting land conversion or deforestation
40/19	. . . . Integrated nutrient management, e.g. appropriate fertilizer use	40/243	. . . Afforestation or reforestation
40/20	. . . . Sustainable fertilizers of biological origin	40/25	. . Greenhouse technology
40/201	. . . . . Fertilizers made from animal corpses or parts thereof	40/252	. . . Constructional details of greenhouses
40/202	. . . . . from fish or from fish-wastes	40/254	. . . . Dismountable or portable greenhouses; Greenhouses with sliding roofs
40/203	. . . . . from meat-wastes or from other wastes of animal origin, e.g. skins, hair, hoofs, feathers, blood	40/256	. . . Lighting systems for greenhouses
40/204	. . . . . Apparatus for their manufacture	40/258	. . . Shading devices for greenhouses
40/205	. . . . . Fertilizers from human or animal excrements, e.g. manure	40/26	. . . . Lamellar or like blinds
40/206	. . . . . Guano	40/262	. . . . Inflatable structures
40/207	. . . . . from human fecal masses	40/264	. . . Devices or systems for heating, ventilating, regulating temperature, or watering
40/208	. . . . . Apparatus for the manufacture	40/266	. . . . Collecting solar energy
40/209	. . . . . Fertilizers made from waste originating from industrial processing of raw material of agricultural origin or derived products thereof	40/268	. . . . Air-conditioning systems
40/21	. . . . . Solid waste from mechanical processing of material, e.g. seed coats, olive pits, almond shells, fruit residue, rice hulls	40/27	. . . . Watering arrangements
40/211	. . . . . Waste from chemical processing of material, e.g. distillation, roasting, cooking	40/272	. . . . . Efficient watering
40/212	. . . . . Waste from biochemical processing of material, e.g. fermentation, breweries	40/274	. . . . Electric devices
40/213	. . . . . Fertilizers from waste water, sewage sludge, sea slime, ooze or similar masses	40/28	. . specially adapted for farming
40/214	. . . . . Fertilizers from household or town refuse	40/282	. . . Changing farming practices to conserve soil moisture or nutrients; Reduce run-off or control soil erosion
40/215	. . . . . Apparatus for the manufacture	40/284	. . . . Mulch stubble or straw
40/216	. . . . . Biological compost	40/286	. . . . Crops rotation
40/22	. . Improving land use; Improving water use or availability; Controlling erosion	40/288	. . . . Avoiding mono-cropping; Crop diversification
40/221	. . . Change land topography to improve water uptake or to reduce wind erosion	40/29	. . . . using lower planting densities
40/222	. . . . by subdividing large fields	40/292	. . . . Terracing
40/223	. . . . Grass waterways maintenance	40/294	. . . . Agro-forestry, silviculture or mixed farming solutions
40/224	. . . . by roughening land surface	40/296	. . . . Bushfire prevention; Prescribed fire, i.e. controlled burning to reduce fuel buildup
40/225	. . . . Windbreaks	40/298	. . . . Forest fire control
40/226	. . . Floating agriculture	40/30	. . . Timing of farming operations
40/227	. . . Control of sand encroachment	40/302	. . . . Advance sowing dates to offset moisture stress during warm periods
40/228	. . . Wetland restoration or protection	40/40	. . Management of saline soils
40/229	. . . Biochar technologies	40/50	. . Evapotranspiration
40/23	. . . Improving water use or availability; Controlling erosion	40/51	. . specially adapted for storing agricultural or horticultural products
40/231	. . . . in rain-fed agriculture	40/52	. . . Racks for drying purposes
40/232	. . . . Soil conservation	40/53	. . . . Natural, e.g. solar drying
40/233	. . . . . Methods for working soils	40/55	. . . Silos for storing seeds or grain
40/234	. . . . . Moss gardening	40/57	. . . Off-grid powered storage
40/235	. . . . in irrigated agriculture	40/58	. . . . using renewable energies
40/236	. . . . . Tillage conservation	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	50/22	. . Air sterilisation or disinfection
40/81	. . Aquaculture, i.e. culture of aquatic animals	50/23	. . Emission reduction or control
40/812	. . . of fish	50/232	. . . Catalytic converters
40/814	. . . . Prevention or treatment of fish diseases	50/2322	. . . . for exhaust after-treatment of internal combustion engines in vehicles
40/816	. . . . Hatching, e.g. incubators	50/2324	. . . . . Three way catalysts, i.e. for controlled oxidation or reduction of exhaust gases, e.g. stoichiometric equivalence ratio
40/818	. . . . Alternative feeds for fish aquaculture	50/2325	. . . . . Selective Catalytic Reactors [SCR]
40/82	. . . of shellfish	50/2326	. . . . . for industrial applications
40/822	. . . . of bivalves, e.g. oysters or mussels	50/2327	. . . . . in chemical or petrochemical processes,
40/824	. . . . of crustaceans, e.g. lobsters or shrimps	50/2328	. . . . . Burners or incinerators e.g. of waste or waste gases
40/826	. . . Floating cultivation devices, e.g. rafts or floating fish-farms	50/234	. . . Physical or chemical processes, e.g. absorption, adsorption or filtering, characterised by the type of pollutant
40/828	. . . . Connecting or mooring devices therefor	50/2341	. . . . Carbon monoxide [CO]
40/83	. . . Artificial fishing banks or reefs	50/2342	. . . . Carbon dioxide [CO <sub>2</sub> ]
40/832	. . . . made of tyres	50/2343	. . . . Lead [Pb]
40/834	. . . . assembled of components	50/2344	. . . . Nitrogen oxides [NO <sub>x</sub> ]
40/836	. . . . floating	50/2345	. . . . . Nitrogen dioxide [NO <sub>2</sub> ]
40/838	. . . . of monolithic form, e.g. blocks	50/2346	. . . . . Ammonia [NH <sub>3</sub> ]
40/84	. . . . Arrangements for sinking or mooring thereof	50/2347	. . . . . Ground-level ozone
40/845	. . . Feeding devices	50/2348	. . . . . Sulfur oxides [SO <sub>x</sub> ]
40/86	. . Information Technologies [IT] supporting fishing	50/2349	. . . . . Sulfur dioxide [SO <sub>2</sub> ]
40/88	. . Seaweed farming; Management of sea grass beds	50/235	. . . . . Volatile organic compounds [VOC]
40/90	. in food processing or handling	50/2351	. . . . . Atmospheric particulate matter [PM], e.g. carbon smoke microparticles, smog, aerosol particles, dust
40/92	. . in food processing	50/2352	. . . . . the particulate matter coming from a source on-board a vehicle, e.g. removed by diesel particulate filters [DPF]
40/922	. . . Technologies for reducing water consumption	50/2353	. . . . . the particulate matter coming from stationary sources, e.g. power plants, steel mills, smelters, cement plants, refineries or incinerators
40/924	. . . using renewable energies	50/2354	. . . . . Cyclones
40/926	. . . . Cooking stoves or furnaces using solar heat	50/2355	. . . . . Filters
40/928	. . . . Cooking stoves using biomass	50/2356	. . . . . Scrubbers, spray chambers, pack towers
40/94	. . relating to food conservation	50/2357	. . . . . Electrostatic precipitators
40/941	. . . using natural products	50/2358	. . . Biological purification of waste gases
40/942	. . . . using natural sugars	50/2359	. . . . with gas-solid contact
40/943	. . . . using natural acids, e.g. vinegar, citric	50/24	. . Pollution monitoring
40/944	. . . . using vegetal oils	50/241	. . . specially adapted for public areas
40/945	. . . . Salt based conservation	50/242	. . . characterized by the pollutant
40/946	. . . . . using brine	50/243	. . . . Carbon monoxide [CO]
40/947	. . . Off-grid thermal processing	50/244	. . . . Carbon dioxide [CO <sub>2</sub> ]
40/948	. . . . Sun drying	50/245	. . . . Nitrogen Oxides [NO <sub>x</sub> ]
40/949	. . . . Food smoking	50/246	. . . . Ammonia [NH <sub>3</sub> ]
40/95	. . . . of edible seeds	50/247	. . . . Ozone [O <sub>3</sub> ]
40/96	. . relating to food management or storing	50/248	. . . . Sulfur oxides [SO <sub>x</sub> ]
40/961	. . . Biopackaging, e.g. packaging containers made from renewable materials, bioplastics or biodegradable materials	50/249	. . . . Volatile Organic Compounds [VOC]
40/962	. . . Wood Barrels	50/25	. . . . Atmospheric particulate matter [PM] e.g. carbon smoke microparticles, smog, aerosol particles, dust
40/963	. . . Off-grid food refrigeration	50/30	. Against vector-borne diseases, e.g. mosquito-borne, fly-borne, tick-borne or waterborne diseases whose impact is exacerbated by climate change
40/964	. . . . Devices using naturally cold air or forced air convection	50/31	. . Vector control
40/965	. . . . Devices using heat pumps	50/32	. . . using natural substances as pesticides or insecticides, for fighting the disease vector
40/966	. . . . Powered by renewable energy sources	50/321	. . . . characterised by the vector
40/967	. . . . using waste heat, e.g. from an internal combustion engine		
40/968	. . . . using ice		
<b>50/00</b>	<b>in human health protection</b>		
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]		

50/322	. . . . . Ticks	50/384	. . . . . of the genus Flavivirus
50/323	. . . . . Insects	50/385	. . . . . the disease being Dengue
50/324	. . . . . Stink bugs, bed bugs, kissing bugs or triatomine bugs	50/386	. . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
50/325	. . . . . Chigoe or jigger fleas, cat fleas, moorhen fleas or rat fleas	50/387	. . . . . the disease being Yellow fever, i.e. Ochropyra
50/326	. . . . . Sand flies, black flies or Tsetse flies	50/388	. . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
50/327	. . . . . Mosquitos	50/389	. . . . . the disease being Japanese encephalitis
50/328	. . . . . Aedes	50/39	. . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
50/329	. . . . . Culex	50/391	. . . . . the disease being Zika
50/33	. . . . . Anopheles; Culiseta; Mansonia; Psorophora	50/392	. . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
50/331	. . . . . Snails of the genus Biomphalaria, Oncomelania or Bulinus	50/393	. . . . . the disease being West Nile fever
50/332	. . . . . characterised by the natural substance	50/394	. . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
50/333	. . . . . Substances of botanical origin, e.g. essential oils, waxes, flowers, seeds, leafs or wood	50/395	. . . . . the disease being Tick-borne encephalitis [TBE]
50/334	. . . . . Plant oils, i.e. vegetable or essential oils	50/396	. . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
50/335	. . . . . Canola oil	50/397	. . . . . of the genus Nairovirus, i.e. Congo-Crimean haemorrhagic fever or Rift valley fever or Hantaan haemorrhagic fever
50/336	. . . . . Castor oil	50/398	. . . . . the vector-borne disease being caused by a bacteria
50/337	. . . . . Catnip oil, e.g. nepetalactone	50/399	. . . . . of the genus Borrellia
50/338	. . . . . Cedar oil	50/40	. . . . . the bacteria being Borrellia crocidurae, Borrellia duttoni, Borrellia hermsii, Borrellia hispanica, Borrellia miyamotoi, Borrellia parkeri or Borrellia turicatae, i.e. relapsing fever or borreliosis
50/339	. . . . . Cinnamon oil	50/401	. . . . . the bacteria being Borrellia burgdorferi, i.e. Lyme disease or Lyme borreliosis
50/34	. . . . . Citronella oil	50/402	. . . . . of the genus Rickettsia, Orientia, Ehrlichia, Neorickettsia, Neoehrlichia or Anaplasma, i.e. Rickettsial diseases, e.g. spotted fever
50/341	. . . . . Coconut oil	50/403	. . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
50/342	. . . . . Eucalyptus oil	50/404	. . . . . the bacteria being Francisella tularensis, i.e. Tularaemia
50/343	. . . . . Lemon oil	50/405	. . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
50/344	. . . . . Geranium oil	50/406	. . . . . the bacteria being Yersinia pestis, i.e. Plague
50/345	. . . . . Mustard oil	50/407	. . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
50/346	. . . . . Neem oil, e.g. Azadirachtin	50/408	. . . . . the vector-borne disease being caused by a protozoa
50/347	. . . . . Orange oil	50/409	. . . . . of the genus Leishmania i.e. Leishmaniasis, Sand-fly fever, phlebotomus fever, kala-azar, black fever or Dumdum fever
50/348	. . . . . Soybean oil	50/41	. . . . . the medicinal preparation containing antigens or antibodies, e.g. vaccines, antisera
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		

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

- 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