

# 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>	<b>30/00</b>	<b>Adapting or protecting infrastructure or their operation</b>
10/11	. Hard structures, e.g. dams, dykes or breakwaters		
10/23	. Dune restoration or creation; Cliff stabilisation	30/14	. Extreme weather resilient electric power supply systems, e.g. strengthening power lines or underground power cables
10/26	. Artificial reefs or seaweed; Restoration or protection of coral reefs		
10/30	. Flood prevention; Flood or storm water management, e.g. using flood barriers	30/24	. Structural elements or technologies for improving thermal insulation
10/40	. Controlling or monitoring, e.g. of flood or hurricane; Forecasting, e.g. risk assessment or mapping	30/242	. . Slab shaped vacuum insulation
		30/244	. . using natural or recycled building materials, e.g. straw, wool, clay or used tires
		30/249	. . Glazing, e.g. vacuum glazing
<b>20/00</b>	<b>Water conservation; Efficient water supply; Efficient water use</b>	30/254	. . Roof garden systems; Roof coverings with high solar reflectance
20/108	. Rainwater harvesting	30/27	. Relating to heating, ventilation or air conditioning [HVAC] technologies
20/124	. Water desalination	30/272	. . Solar heating or cooling
20/131	. . Reverse-osmosis	30/274	. . using waste energy, e.g. from internal combustion engine
20/138	. . using renewable energy		
20/141	. . . Wind power	30/30	. in transportation, e.g. on roads, waterways or railways
20/142	. . . Solar thermal; Photovoltaics	30/60	. Planning or developing urban green infrastructure
20/144	. . . Wave energy		
20/146	. using grey water	<b>40/00</b>	<b>Adaptation technologies in agriculture, forestry, livestock or agroalimentary production</b>
20/148	. . using household water from wash basins or showers	40/10	. in agriculture
20/15	. Leakage reduction or detection in water storage or distribution	40/13	. . Abiotic stress
20/152	. Water filtration	40/132	. . . Plants tolerant to drought
20/20	. Controlling water pollution; Waste water treatment	40/135	. . . Plants tolerant to salinity
20/204	. . Keeping clear the surface of open water from oil spills	40/138	. . . Plants tolerant to heat
20/208	. . Off-grid powered water treatment	40/146	. . Genetically Modified [GMO] plants, e.g. transgenic plants
20/211	. . . Solar-powered water purification	40/20	. . Fertilizers of biological origin, e.g. guano or fertilizers made from animal corpses
20/212	. . . Solar-powered wastewater sewage treatment, e.g. spray evaporation	40/22	. . Improving land use; Improving water use or availability; Controlling erosion
20/30	. Relating to industrial water supply, e.g. used for cooling	40/25	. . Greenhouse technology, e.g. cooling systems therefor
20/40	. Protecting water resources	40/28	. . specially adapted for farming
20/402	. . River restoration	40/51	. . specially adapted for storing agricultural or horticultural products
20/404	. . Saltwater intrusion barriers		
20/406	. . Aquifer recharge	40/58	. . . using renewable energies
20/411	. . Water saving techniques at user level	40/60	. Ecological corridors or buffer zones

- 40/70 . in livestock or poultry
- 40/76 . . using renewable energy
- 40/80 . in fisheries management
- 40/81 . . Aquaculture, e.g. of fish
- 40/818 . . . Alternative feeds for fish, e.g. in aquacultures
- 40/90 . in food processing or handling, e.g. food conservation
- 40/924 . . using renewable energies
- 40/926 . . . Cooking stoves or furnaces using solar heat
- 40/928 . . . Cooking stoves using biomass
- 40/963 . . Off-grid food refrigeration
- 40/966 . . . Powered by renewable energy sources
- 50/00 in human health protection, e.g. against extreme weather**
- 50/20 . Air quality improvement or preservation, e.g. vehicle emission control or emission reduction by using catalytic converters
- 50/2351 . . 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
- 90/00 Technologies having an indirect contribution to adaptation to climate change**
- 90/10 . Information and communication technologies [ICT] supporting adaptation to climate change, e.g. for weather forecasting or climate simulation
- 90/30 . Assessment of water resources
- 90/40 . Monitoring or fighting invasive species