

# 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)

## Y02P CLIMATE CHANGE MITIGATION TECHNOLOGIES IN THE PRODUCTION OR PROCESSING OF GOODS

### NOTE

This subclass covers climate change mitigation technologies in any kind of industrial processing or production activity, including the agroalimentary industry, agriculture, fishing, ranching and the like.

<b>10/00</b>	<b>Technologies related to metal processing</b>	20/59	. . Biological synthesis; Biological purification
10/10	. Reduction of greenhouse gas [GHG] emissions	<b>30/00</b>	<b>Technologies relating to oil refining and petrochemical industry</b>
10/122	. . by capturing or storing CO <sub>2</sub>	30/20	. using bio-feedstock
10/134	. . by avoiding CO <sub>2</sub> , e.g. using hydrogen	30/40	. Ethylene production
10/143	. . of methane [CH <sub>4</sub> ]	<b>40/00</b>	<b>Technologies relating to the processing of minerals</b>
10/146	. . Perfluorocarbons [PFC]; Hydrofluorocarbons [HFC]; Sulfur hexafluoride [SF <sub>6</sub> ]	40/10	. Production of cement, e.g. improving or optimising the production methods; Cement grinding
10/20	. Recycling	40/121	. . Energy efficiency measures, e.g. improving or optimising the production methods
10/25	. Process efficiency	40/125	. . Fuels from renewable energy sources, e.g. waste or biomass
10/32	. using renewable energy sources	40/18	. . Carbon capture and storage [CCS]
<b>20/00</b>	<b>Technologies relating to chemical industry</b>	40/40	. Production or processing of lime, e.g. limestone regeneration of lime in pulp and sugar mills
20/10	. Process efficiency	40/45	. . using fuels from renewable energy sources
20/129	. . Energy recovery, e.g. by cogeneration, H <sub>2</sub> recovery or pressure recovery turbines	40/50	. Glass production, e.g. reusing waste heat during processing or shaping
20/133	. . Renewable energy sources, e.g. sunlight	40/57	. . Improving the yield, e.g. reduction of reject rates
20/141	. Feedstock	40/60	. Production of ceramic materials or ceramic elements, e.g. substitution of clay or shale by alternative raw materials, e.g. ashes
20/143	. . the feedstock being recycled material, e.g. plastics	<b>60/00</b>	<b>Technologies relating to agriculture, livestock or agroalimentary industries</b>
20/145	. . the feedstock being materials of biological origin	60/12	. using renewable energies, e.g. solar water pumping
20/151	. Reduction of greenhouse gas [GHG] emissions, e.g. CO <sub>2</sub>	60/14	. Measures for saving energy, e.g. in green houses
20/155	. . Perfluorocarbons [PFC]; Hydrofluorocarbons [HFC]; Hydrochlorofluorocarbons [HCFC]; Chlorofluorocarbons [CFC]	60/20	. Reduction of greenhouse gas [GHG] emissions in agriculture, e.g. CO <sub>2</sub>
20/156	. . Methane [CH <sub>4</sub> ]	60/21	. . Dinitrogen oxide [N <sub>2</sub> O], e.g. using aquaponics, hydroponics or efficiency measures
20/20	. Improvements relating to chlorine production	60/22	. . Methane [CH <sub>4</sub> ], e.g. from rice paddies
20/30	. Improvements relating to adipic acid or caprolactam production	60/30	. Land use policy measures
20/40	. Improvements relating to fluorochloro hydrocarbon, e.g. chlorodifluoromethane [HCFC-22] production	60/40	. Afforestation or reforestation
20/50	. Improvements relating to the production of bulk chemicals	60/50	. Livestock or poultry management
20/52	. . using catalysts, e.g. selective catalysts	60/52	. . use of renewable energies
20/54	. . using solvents, e.g. supercritical solvents or ionic liquids	60/60	. Fishing; Aquaculture; Aquafarming
20/55	. . Design of synthesis routes, e.g. reducing the use of auxiliary or protecting groups		
20/582	. . Recycling of unreacted starting or intermediate materials		
20/584	. . Recycling of catalysts		

- 60/80 . Food processing, e.g. use of renewable energies or variable speed drives in handling, conveying or stacking
- 60/85 . . Food storage or conservation, e.g. cooling or drying
- 60/87 . . Re-use of by-products of food processing for fodder production
- 70/00 Climate change mitigation technologies in the production process for final industrial or consumer products**
- 70/10 . Greenhouse gas [GHG] capture, material saving, heat recovery or other energy efficient measures, e.g. motor control, characterised by manufacturing processes, e.g. for rolling metal or metal working
- 70/50 . Manufacturing or production processes characterised by the final manufactured product
- 70/62 . . related technologies for production or treatment of textile or flexible materials or products thereof, including footwear
- 80/00 Climate change mitigation technologies for sector-wide applications**
- 80/10 . Efficient use of energy, e.g. using compressed air or pressurized fluid as energy carrier
- 80/14 . . District level solutions, i.e. local energy networks
- 80/15 . . On-site combined power, heat or cool generation or distribution, e.g. combined heat and power [CHP] supply
- 80/20 . using renewable energy
- 80/30 . Reducing waste in manufacturing processes; Calculations of released waste quantities
- 80/40 . Minimising material used in manufacturing processes
- 90/00 Enabling technologies with a potential contribution to greenhouse gas [GHG] emissions mitigation**
- 90/02 . Total factory control, e.g. smart factories, flexible manufacturing systems [FMS] or integrated manufacturing systems [IMS]
- 90/30 . Computing systems specially adapted for manufacturing
- 90/40 . Fuel cell technologies in production processes
- 90/45 . Hydrogen technologies in production processes
- 90/50 . Energy storage in industry with an added climate change mitigation effect
- 90/60 . Electric or hybrid propulsion means for production processes
- 90/70 . Combining sequestration of CO<sub>2</sub> and exploitation of hydrocarbons by injecting CO<sub>2</sub> or carbonated water in oil wells
- 90/80 . Management or planning
- 90/82 . . Energy audits or management systems therefor
- 90/84 . . Greenhouse gas [GHG] management systems
- 90/845 . . . Inventory and reporting systems for greenhouse gases [GHG]
- 90/90 . Financial instruments for climate change mitigation, e.g. environmental taxes, subsidies or financing
- 90/95 . . CO<sub>2</sub> emission certificates or credits trading