

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.

10/00	Technologies related to metal processing	20/59	. . Biological synthesis; Biological purification
10/10	. Reduction of greenhouse gas [GHG] emissions	30/00	Technologies relating to oil refining and petrochemical industry
10/122	. . by capturing or storing CO ₂	30/20	. using bio-feedstock
10/134	. . by avoiding CO ₂ , e.g. using hydrogen	30/40	. Ethylene production
10/143	. . of methane [CH ₄]	40/00	Technologies relating to the processing of minerals
10/146	. . Perfluorocarbons [PFC]; Hydrofluorocarbons [HFC]; Sulfur hexafluoride [SF ₆]	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]
20/00	Technologies relating to chemical industry	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 ₂ 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	60/00	Technologies relating to agriculture, livestock or agroalimentary industries
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 ₂	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 ₂
20/156	. . Methane [CH ₄]	60/21	. . Dinitrogen oxide [N ₂ O], e.g. using aquaponics, hydroponics or efficiency measures
20/20	. Improvements relating to chlorine production	60/22	. . Methane [CH ₄], 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 CO₂ and exploitation of hydrocarbons by injecting CO₂ 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 . . CO₂ emission certificates or credits trading