

# 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)

## Y02W CLIMATE CHANGE MITIGATION TECHNOLOGIES RELATED TO WASTEWATER TREATMENT OR WASTE MANAGEMENT

|              |  |        |   |
|--------------|--|--------|---|
| <b>10/00</b> | <b>Technologies for wastewater treatment</b> ( <a href="#">fuel from waste Y02E 50/30</a> ; <a href="#">methane from waste for energy generation Y02E 50/34</a> )  | 30/50  | . Reuse, recycling or recovery technologies   |
|              |  | 30/52  | . . Dismantling or mechanical processing of waste for the recovery of materials during separation, disassembly, pre-processing or upgrading                                       |
| 10/10        | . Biological treatment of water, waste water, or sewage  | 30/521 | . . . Crushing or shredding   |
| 10/12        | . . Anaerobic processes with biogas recycling, capture or flaring  | 30/522 | . . . Separation techniques   |
|              |  | 30/523 | . . . . Sieving or screening  |
| 10/15        | . . Aerobic processes  | 30/524 | . . . . based on density or gravimetry  |
| 10/18        | . . Constructed wetlands   | 30/525 | . . . . using wind or air currents  |
| 10/20        | . Sludge processing  | 30/526 | . . . . Magnetic separation   |
| 10/23        | . . Anaerobic processes with biogas recycling, capture or flaring  | 30/527 | . . . . Electrostatic separation  |
|              |  | 30/528 | . . . . inducing eddy-currents  |
| 10/27        | . . Aerobic processes  | 30/54  | . . Metal recycling   |
| 10/30        | . Wastewater or sewage treatment systems with climate change mitigation effect characterised by the origin of the energy   | 30/541 | . . . Manufacture of articles from waste metal particles  |
|              |  | 30/542 | . . . Recovery or treatment of by-products during pig-iron manufacturing ( <a href="#">use of waste of metallurgical processes as filler for mortars or concrete Y02W 30/94</a> ) |
| 10/33        | . . using wind energy  |        |   |
| 10/37        | . . using solar energy   |        |   |
| 10/40        | . Valorisation of by-products of wastewater, sewage or sludge processing   | 30/543 | . . . . Treatment of liquid slag  |
| 10/45        | . . Obtention of bio-polymers  | 30/56  | . . Disassembly of vehicles for recovery of salvageable parts   |
| <b>30/00</b> | <b>Technologies for solid waste management</b> ( <a href="#">heat utilisation in combustion or incineration of waste Y02E 20/12</a> ; <a href="#">fuel from waste Y02E 50/30</a> ; <a href="#">methane from waste for energy generation Y02E 50/34</a> ) | 30/58  | . . Construction or demolition [C&D] waste  |
|              |  | 30/60  | . . Glass recycling   |
|              |  | 30/61  | . . . Glass containers reutilization  |
| 30/10        | . Related to waste collection, transportation, transfer or storage, e.g. segregated refuse collecting, electric or hybrid propulsion   | 30/62  | . . Plastics recycling  |
|              |  | 30/622 | . . . Separating plastics from other materials  |
|              |  | 30/625 | . . . Disintegrating plastics   |
| 30/20        | . Related to waste processing or separation ( <a href="#">separation techniques Y02W 30/522</a> ; <a href="#">separating plastic from other materials Y02W 30/622</a> ; <a href="#">removing refrigerant Y02W 30/825</a> )                               | 30/628 | . . . Plastic containers reutilization  |
|              |  | 30/64  | . . Paper recycling   |
|              |  | 30/642 | . . . Dry methods for dividing waste paper into small particles   |
|              |  |        | . . . . by cutting actions  |
| 30/30        | . Landfill technologies aiming to mitigate methane emissions   | 30/644 | . . . . by cutting actions  |
|              |  | 30/646 | . . . Wet methods for dividing waste paper into small particles   |
| 30/32        | . . Sealing or covering  |        |   |
| 30/35        | . . Landfill gas capture   | 30/648 | . . . Recovery of cellulose by working-up waste paper   |
| 30/38        | . . Landfill gas flaring   |        |   |
| 30/40        | . Bio-organic fraction processing; Production of fertilisers from the organic fraction of waste or refuse  | 30/66  | . . Disintegrating fibre-containing textile articles to obtain fibres for re-use  |
|              |  | 30/663 | . . . Opening, unravelling or teasing ropes or like fibrous strands to obtain fibres for re-use   |
| 30/43        | . . Aerobic fermentation, e.g. composting  |        |   |
| 30/47        | . . Anaerobic fermentation, e.g. methanation combined with capture, recycling or flaring   | 30/667 | . . . Opening rags to obtain fibres for re-use  |
|              |  | 30/68  | . . Rubber waste recycling  |

- 30/683 . . . Utilisation of recycled rubber in footwear
- 30/687 . . . Utilisation of recycled tires for hydraulic engineering
- 30/70 . . Recovery of polymers other than plastics or rubbers
- 30/701 . . . without chemical reactions
- 30/702 . . . by chemically breaking down the molecular chains of polymers or breaking of crosslinks, e.g. devulcanisation
- 30/703 . . . . by dry-heat treatment only
- 30/704 . . . . by treatment with steam or water
- 30/705 . . . . by treatment with inorganic material
- 30/706 . . . . by treatment with organic material
- 30/72 . . Recovery of luminescent materials
- 30/74 . . Recovery of fats, fatty oils, fatty acids or other fatty substances, e.g. lanolin or waxes
- 30/76 . . Recovery of tanning agents from leather
- 30/78 . . Recycling of wood or furniture waste ([production of fertilisers from the organic fraction of waste or refuse Y02W 30/40](#))
- 30/80 . . Packaging reuse or recycling ([bio-packaging Y02W 90/10](#))
- 30/801 . . . Technologies specific to multilayer packaging
- 30/802 . . . Packaging eco-design or eco-conception
- 30/803 . . . . Packaging containers made of recycled materials
- 30/804 . . . . . the recycled material being paper
- 30/805 . . . . Packaging containers especially suited for or with means facilitating recycling
- 30/806 . . . . . Packaging containers consisting of two or more parts made of the same material
- 30/807 . . . . Packaging containers especially suited for or with means facilitating reusability
- 30/82 . . Recycling of waste of electrical or electronic equipment [WEEE]
- 30/821 . . . Recovery of metals from electric or electronic cables or wires scrap ([metal recycling Y02W 30/54](#))
- 30/822 . . . Recovery of materials from electronic scrap, e.g. printed circuit board scrap
- 30/823 . . . Technologies specific to particular WEEE categories
- 30/824 . . . . Refrigerators
- 30/825 . . . . . Removing refrigerant
- 30/826 . . . . Information technology [IT] or telecommunication equipment
- 30/827 . . . . Consumers equipment or photovoltaic panels
- 30/828 . . . . Lighting equipment or discharge tubes
- 30/829 . . . . . Lighting devices made of waste or recyclable material
- 30/84 . . Recycling of batteries
- 30/86 . . Recycling of fuel cells
- 30/88 . . Nuclear fuel reprocessing
- 30/881 . . . Apparatus or processes for dismantling nuclear fuel, e.g. before reprocessing
- 30/882 . . . Reprocessing of irradiated solid fuel
- 30/883 . . . . Aqueous processes, e.g. based on organic extraction means or regeneration thereof
- 30/884 . . . . Non-aqueous processes
- 30/90 . . Reuse, recycling or recovery technologies cross-cutting to different types of waste
- 30/91 . . . Use of waste materials as fillers for mortars or concrete
- 30/92 . . . . Combustion residues, e.g. purification products of smoke, fumes or exhaust gases
- 30/93 . . . . from quarries, mining or the like
- 30/94 . . . . from metallurgical processes
- 30/95 . . . . from building or ceramic industry
- 30/96 . . . . organic, e.g. rubber, polystyrene
- 30/97 . . . . . Vegetable refuse, e.g. rice husks, maize-ear refuse; cellulosic materials, e.g. paper
- 90/00 Enabling technologies or technologies with a potential or indirect contribution to greenhouse gas [GHG] emissions mitigation**
- 90/10 . Bio-packaging
- 90/11 . . Packing containers made from renewable resources
- 90/12 . . . Packing containers made of bio-plastics
- 90/13 . . . Biodegradable packaging containers
- 90/14 . . . . Compostable packaging containers
- 90/20 . Computer systems or methods specially adapted for waste reduction or recycling of materials or goods