

# 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 (fuel from waste <a href="#">Y02E 50/30</a>; methane from waste for energy generation <a href="#">Y02E 50/34</a>)</b>	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 (heat utilisation in combustion or incineration of waste <a href="#">Y02E 20/12</a>; fuel from waste <a href="#">Y02E 50/30</a>; methane from waste for energy generation <a href="#">Y02E 50/34</a>)</b>	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