

**CPC****COOPERATIVE PATENT CLASSIFICATION****Y02W****CLIMATE CHANGE MITIGATION TECHNOLOGIES RELATED TO WASTEWATER TREATMENT OR WASTE MANAGEMENT****Y02W 10/00**

**Technologies for wastewater treatment** ([fuel from waste Y02E 50/30](#); [methane from waste for energy generation Y02E 50/34](#))

Y02W 10/10

- . Biological treatment of water, waste water, or sewage

Y02W 10/12

- .. Anaerobic processes with biogas recycling, capture or flaring

Y02W 10/15

- .. Aerobic processes

Y02W 10/18

- .. Constructed wetlands

Y02W 10/20

- . Sludge processing

Y02W 10/23

- .. Anaerobic processes with biogas recycling, capture or flaring

Y02W 10/27

- .. Aerobic processes

Y02W 10/30

- . Wastewater or sewage treatment systems with climate change mitigation effect characterised by the origin of the energy

Y02W 10/33

- .. using wind energy

Y02W 10/37

- .. using solar energy

Y02W 10/40

- . Valorisation of by-products of wastewater, sewage or sludge processing

Y02W 10/45

- .. Obtention of bio-polymers

**Y02W 30/00**

**Technologies for solid waste management** ([heat utilisation in combustion or incineration of waste Y02E 20/12](#); [fuel from waste Y02E 50/30](#); [methane from waste for energy generation Y02E 50/34](#))

Y02W 30/10

- . Related to waste collection, transportation, transfer or storage e.g. segregated refuse collecting, electric or hybrid propulsion

Y02W 30/20

- . Related to waste processing or separation ([separation techniques Y02W 30/522](#); [separating plastic from other materials Y02W 30/622](#); [removing refrigerant Y02W 30/825](#))

Y02W 30/30

- . Landfill technologies aiming to mitigate methane emissions

Y02W 30/32

- .. Sealing or covering

Y02W 30/35

- .. Landfill gas capture

Y02W 30/38

- .. Landfill gas flaring

Y02W 30/40

- . Bio-organic fraction processing; Production of fertilisers from the organic fraction of waste or refuse

Y02W 30/43

- .. Aerobic fermentation, e.g. composting

Y02W 30/47

- .. Anaerobic fermentation, e.g. methanation combined with capture, recycling or flaring

Y02W 30/50

- . Reuse, recycling or recovery technologies

Y02W 30/52

- .. Dismantling or mechanical processing of waste for the recovery of materials during separation, disassembly, pre-processing or upgrading

Y02W 30/521

- ... Crushing or shredding

Y02W 30/522

- ... Separation techniques

Y02W 30/523	....	Sieving or screening
Y02W 30/524	....	based on density or gravimetry
Y02W 30/525	....	using wind or air currents
Y02W 30/526	....	Magnetic separation
Y02W 30/527	....	Electrostatic separation
Y02W 30/528	....	inducing eddy-currents
Y02W 30/54	..	Metal recycling
Y02W 30/541	...	Manufacture of articles from waste metal particles
Y02W 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> )
Y02W 30/543	....	Treatment of liquid slag
Y02W 30/56	..	Disassembly of vehicles for recovery of salvageable parts
Y02W 30/58	..	Construction or demolition [C&D] waste
Y02W 30/60	..	Glass recycling
Y02W 30/61	...	Glass containers reutilization
Y02W 30/62	..	Plastics recycling
Y02W 30/622	...	Separating plastics from other materials
Y02W 30/625	...	Disintegrating plastics
Y02W 30/628	...	Plastic containers reutilization
Y02W 30/64	..	Paper recycling
Y02W 30/642	...	Dry methods for dividing waste paper into small particles
Y02W 30/644	....	by cutting actions
Y02W 30/646	...	Wet methods for dividing waste paper into small particles
Y02W 30/648	...	Recovery of cellulose by working-up waste paper
Y02W 30/66	..	Disintegrating fibre-containing textile articles to obtain fibres for re-use
Y02W 30/663	...	Opening, unravelling or teasing ropes or like fibrous strands to obtain fibres for re-use
Y02W 30/667	...	Opening rags to obtain fibres for re-use
Y02W 30/68	..	Rubber waste recycling
Y02W 30/683	...	Utilisation of recycled rubber in footwear
Y02W 30/687	...	Utilisation of recycled tires for hydraulic engineering
Y02W 30/70	..	Recovery of polymers other than plastics or rubbers
Y02W 30/701	...	without chemical reactions
Y02W 30/702	...	by chemically breaking down the molecular chains of polymers or breaking of crosslinks, e.g. devulcanisation
Y02W 30/703	....	by dry-heat treatment only
Y02W 30/704	....	by treatment with steam or water
Y02W 30/705	....	by treatment with inorganic material
Y02W 30/706	....	by treatment with organic material
Y02W 30/72	..	Recovery of luminescent materials

Y02W 30/74	..	Recovery of fats, fatty oils, fatty acids or other fatty substances, e.g. lanolin or waxes
Y02W 30/76	..	Recovery of tanning agents from leather
Y02W 30/78	..	Recycling of wood or furniture waste ( <a href="#">production of fertilisers from the organic fraction of waste or refuse Y02W 30/40</a> )
Y02W 30/80	..	Packaging reuse or recycling ( <a href="#">bio-packaging Y02W 90/10</a> )
Y02W 30/801	...	Technologies specific to multilayer packaging
Y02W 30/802	...	Packaging eco-design or eco-conception
Y02W 30/803	....	Packaging containers made of recycled materials
Y02W 30/804	.....	the recycled material being paper
Y02W 30/805	....	Packaging containers especially suited for or with means facilitating recycling
Y02W 30/806	.....	Packaging containers consisting of two or more parts made of the same material
Y02W 30/807	....	Packaging containers especially suited for or with means facilitating reusability
Y02W 30/82	..	Recycling of waste of electrical or electronic equipment [WEEE]
Y02W 30/821	...	Recovery of metals from electric or electronic cables or wires scrap ( <a href="#">metal recycling Y02W 30/54</a> )
Y02W 30/822	...	Recovery of materials from electronic scrap, e.g. printed circuit board scrap
Y02W 30/823	...	Technologies specific to particular WEEE categories
Y02W 30/824	....	Refrigerators
Y02W 30/825	.....	Removing refrigerant
Y02W 30/826	....	Information technology [IT] or telecommunication equipment
Y02W 30/827	....	Consumers equipment or photovoltaic panels
Y02W 30/828	....	Lighting equipment or discharge tubes
Y02W 30/829	.....	Lighting devices made of waste or recyclable material
Y02W 30/84	..	Recycling of batteries
Y02W 30/86	..	Recycling of fuel cells
Y02W 30/88	..	Nuclear fuel reprocessing
Y02W 30/881	...	Apparatus or processes for dismantling nuclear fuel, e.g. before reprocessing
Y02W 30/882	...	Reprocessing of irradiated solid fuel
Y02W 30/883	....	Aqueous processes, e.g. based on organic extraction means or regeneration thereof
Y02W 30/884	....	Non-aqueous processes
Y02W 30/90	..	Reuse, recycling or recovery technologies cross-cutting to different types of waste
Y02W 30/91	...	Use of waste materials as fillers for mortars or concrete
Y02W 30/92	....	Combustion residues, e.g. purification products of smoke, fumes or exhaust gases
Y02W 30/93	....	from quarries, mining or the like
Y02W 30/94	....	from metallurgical processes
Y02W 30/95	....	from building or ceramic industry

Y02W 30/96	....	organic e.g. rubber, polystyrene
Y02W 30/97	.....	Vegetable refuse, e.g. rice husks, maize-ear refuse; cellulosic materials, e.g. paper
<b>Y02W 90/00</b>		<b>Enabling technologies or technologies with a potential or indirect contribution to greenhouse gas [GHG] emissions mitigation</b>
Y02W 90/10	.	Bio-packaging
Y02W 90/11	..	Packing containers made from renewable resources
Y02W 90/12	...	Packing containers made of bio-plastics
Y02W 90/13	...	Biodegradable packaging containers
Y02W 90/14	....	Compostable packaging containers
Y02W 90/20	.	Computer systems or methods specially adapted for waste reduction or recycling of materials or goods