

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 (use of waste of metallurgical processes as filler for mortars or concrete Y02W 30/94)
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 ([production of fertilisers from the organic fraction of waste or refuse Y02W 30/40](#))
- Y02W 30/80 . . Packaging reuse or recycling ([bio-packaging Y02W 90/10](#))
- 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 ([metal recycling Y02W 30/54](#))
- 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
Y02W 90/00	Enabling technologies or technologies with a potential or indirect contribution to greenhouse gas [GHG] emissions mitigation
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