

CPC COOPERATIVE PATENT CLASSIFICATION

B PERFORMING OPERATIONS; TRANSPORTING

(NOTES omitted)

SEPARATING; MIXING

B09 DISPOSAL OF SOLID WASTE; RECLAMATION OF CONTAMINATED SOIL
 {(treatment of waste water, sewage or sludge [C02F](#); treating radioactively contaminated solids [G21F 9/28](#))}

B09B DISPOSAL OF SOLID WASTE

NOTES

- This subclass covers only single or combined, e.g. multistage, operations not fully classifiable in a single other subclass
- In this subclass the following terms or expressions are added with the meanings indicated :
 - "disposal" means the discarding, e.g. dumping, or destroying of waste or its transformation into something useful or harmless;
 - "solid waste" includes waste which, although it has liquid content, is for practical purposes handled as solid
- Attention is drawn to the following places:

A23J 1/16	Obtaining proteins from waste water of starch manufacturing plants of like wastes
A23K 10/38	Animal feeding-stuffs from distillers' or brewers' waste
A23K 10/28	Animal feeding-stuffs from waste products of dairy
A23K 10/20	Animal feeding-stuffs from kitchen waste
A43B 1/12	Footwear made of rubber waste
A61L 11/00	Disinfection or sterilisation methods specially adapted for refuse
A62D 3/00	Chemical means for combatting harmful chemical agents; processes for making harmful chemical agents harmless
B01D 53/34	Chemical purification of smoke or fumes, e.g. flue gas
B02C 18/0084	Disintegrating by knives or other cutting or tearing members, which chop material into fragments, specially adapted for disintegrating garbage, waste or sewage
B03B 7/00	Combinations of wet processes or apparatus with other processes or apparatus, e.g. for dressing ores or garbage
B03B 9/06	General arrangement of separating plant, e.g. flow sheets, specially adapted for refuse
B05B 12/16 , B05B 12/32	Control of spray area of spraying plant, e.g. masking, side shields; Means for collection or re-use of excess material
B08B 15/00	Prevent escape of dirt or fumes from the area where they are produced; Collecting or removing dirt or fumes from that area
B23D 25/14	Machines or arrangements for shearing stock while the latter is travelling otherwise than in the direction of the cut without regard to the exact dimensions of the resulting material, e.g. for cutting up scrap
B27B 33/20	Edge trimming saw blades or tools combined with means to disintegrate waste
B29B 17/00	Recovery of plastics or other constituents of waste material containing plastics
B30B 9/32	Presses for consolidating scrap metal or for compacting used cars
B63B 17/06	Refuse discharge from vessels, e.g. for ash (B63J 4/006) Arrangements of installation for treating waste water or sewage on vessels
B65F 1/00	Refuse receptacles
B65F 3/00	Vehicles particularly adapted for collecting refuse
B65F 5/00	Gathering or removal of refuse otherwise than by receptacles or vehicles
B65F 7/00	Cleaning or disinfecting devices combined with refuse receptacles or refuse vehicles
C03C 1/00	Ingredients generally applicable to manufacture of glasses, glazes or vitreous enamels
C04B 7/24	Hydraulic cements from oil shales, residues or waste other than slag
C04B 11/26	Calcium sulfate cements from phosphogypsum or from waste, e.g. purification products of smoke
C04B 18/04	Waste materials or refuse used as fillers for mortars, concrete, artificial stone or the like
C04B 22/0006	Waste inorganic materials used as active ingredients for mortars, concrete, artificial stone or the like
C04B 24/001	Waste organic materials used as active ingredients for mortars, concrete, artificial stone or the like
C05F 9/00	Fertilisers made from household or town refuse
C08J 11/00	Recovery of waste materials of macromolecular substances
C08L 17/00	Compositions of reclaimed rubber

B09B**B09B**

(continued)

C10B 53/00	Destructive distillation, specially adapted for particular solid raw materials or solid raw materials in special form
C10B 57/00	Other processes not covered before; Features of destructive distillation processes in general
C10G 1/10	Production of liquid hydrocarbon mixtures from rubber or rubber waste
C10L 5/46	Solid fuels essentially based on sewage, house or town refuse
C10L 5/48	Solid fuels essentially based on industrial residues and waste materials
C10M 175/02	Working-up used lubricants based on mineral oils
C11B 13/00	Recovery of fats, fatty oils, or fatty acids from waste materials
C11D 19/00	Recovery of glycerol from a saponification liquor
C12F 3/00	Recovery of by-products
C12F 3/08	Recovery of alcohol from press residues or other waste material
C12P 7/08	Biochemical production of ethanol from waste
C22B 7/00	Working-up raw materials other than ores, e.g. scrap, to produce non-ferrous metals or compounds thereof
C22B 19/28	Obtaining zinc or zinc oxide from muffle furnace residues
C22B 19/30	Obtaining zinc or zinc oxide from metallic residues or scrap
C22B 25/06	Obtaining tin from scrap
D01B	Mechanical treatment of natural fibrous or filamentary material to obtain fibres or filaments, e.g. for spinning
D01C 5/00	Carbonising rags to recover animal fibres
D01F 13/00	Recovery of starting material, waste material or solvents during the manufacture of artificial filaments or the like
D01G 11/00	Disintegrating fibre-containing articles to obtain fibres for re-use
D01H 11/00	Arrangements for confining or removing dust, fly, or the like
D06L 1/10	Regeneration of used chemical baths used for dry-cleaning or washing fibres, fabrics or the like
D21B 1/08	Dry treatment of waste paper or rags for making paper or for the production of cellulose
D21B 1/32	Defibrating waste paper
D21C 5/02	Processes for obtaining cellulose by working-up waste paper
D21C 11/14	Regeneration of pulp liquors by wet combustion
D21F 1/66	Re-use of pulp-water in wet end machines for making continuous webs of paper
D21H 17/01	Waste products added to the pulp or used in paper-impregnating material
E03F	Sewers, Cesspools
E04F 17/10	Arrangements in building for the disposal of refuse
F23B 5/00	Combustion apparatus arrangements for burning uncombusted material from primary combustion
F23G	Consuming waste products by combustion
F23J	Removal or treatment of combustion products or combustion residues
G03C 11/24	Removing emulsion from waste photographic material
H01B 15/00	Apparatus or processes for salvaging material from electric cables
H01M 6/52	Reclaiming serviceable parts of waste cells or batteries
H01M 10/54	Reclaiming serviceable parts of waste accumulators

WARNING

In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

1/00	Dumping solid waste	3/0025	• {Agglomeration, binding or encapsulation of solid waste (solidification of sludge C02F 11/008 ; waste materials as compounding ingredients in polymers C08K 11/005)}
1/002	• {Sea dumping (disposal of radioactively contaminated material by storage under water G21F 9/24)}		
1/004	• {Covering of dumping sites}	3/0033	• • {using an organic binder or matrix}
1/006	• {Shafts or wells in waste dumps}	3/0041	• • {using a mineral binder or matrix, e.g. to obtain a soil like material (C04B takes precedence); Apparatus therefor}
1/008	• {Subterranean disposal, e.g. in boreholes or subsurface fractures}	3/005	• • • {involving a melting step}
3/00	Destroying solid waste or transforming solid waste {or contaminated solids} into something useful or harmless	3/0058	• {Removing gases or liquids enclosed in discarded articles, e.g. aerosol cans, cooling systems of refrigerators (arrangements for charging or discharging refrigerant from refrigerators F25B 45/00); Removing gases from discarded plastic foam products}
3/0008	• {comprising an adsorption step (separating processes involving the treatment of liquids with solid sorbents B01D 15/00 ; separation of gases or vapors by adsorption B01D 53/02)}	3/0066	• {Disposal of asbestos}
3/0016	• {comprising an extraction step (separation by solvent extraction B01D 11/00)}		

B09B

- 3/0075 . {Disposal of medical waste (casings for used articles, e.g. sharps [A61B 50/362](#); sterilisation of refuse [A61L 11/00](#); disposal of used needles or syringes [A61M 5/3205](#); disintegrating medical waste [B02C 19/0075](#))}
 - 3/0083 . {by means of a thermal treatment, e.g. evaporation (treatment of waste by pyrolysis or by combustion [F23G 5/00](#))}
 - 3/0091 . . {Steam treatment}
- 5/00 Operations not covered by single other subclass or by a single other group in this subclass**

2220/00 Type of waste materials treated

- 2220/02 . Aerosol cans, especially draining thereof
- 2220/04 . Animal meals
- 2220/06 . Incineration ashes
- 2220/08 . Discarded filters, especially draining thereof
- 2220/10 . Fuel tanks, especially draining thereof
- 2220/12 . Shock absorbers, especially draining thereof
- 2220/14 . Transdermal patches