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Search 3: TAC=(2 and dry) and CPC=(B09) (Results 34)
Search 4: TAC=(3 and waste) and CPC=(B09) (Results 15)

Title: REMOVING AND **DRYING** EQUIPMENT OF MOISTURE CONTAINED IN DOMESTIC FOOD **WASTE** BY SEPARATION

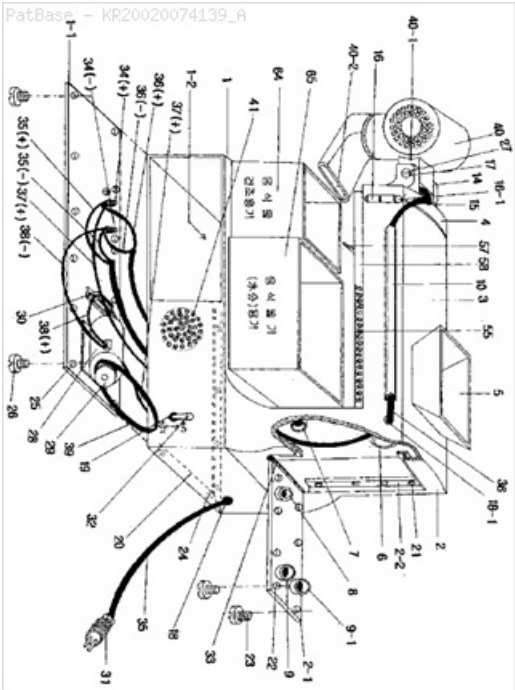
Abstract: Source: KR20020074139A PURPOSE: A removing and **drying** equipment of moisture contained in domestic food **waste** by separation is provided, which can cut food **waste** by rotating helical screw cutter, separate water by **centrifuge** filter, and **dry** by heater(40). The dried food can be used as compost and animal feed. CONSTITUTION: The system comprises a drawer(1-2), a space, a draft hole(41), a power switch, a power plug, a connecting supporter(20), a bolt nut hole, a separating supporting base, a fuse box, and stand pole. At the left space of the quadrilateral box, the drawer is set and at the right space, small pulley induced motor and fuse box are installed. The heater(40) is set near the helical screw cutter(16-1) and the draft hole(41) is set at the bottom.

Classifications:

International (IPC 8-9): B09B3/00 (Advanced/Invention);
B09B3/00 (Advanced/Non-invention);
B09B3/00 (Core/Invention)

International (IPC 1-7): B09B3/00

CPC: B09B3/0083 C05F9/02



Family:

Publication number	Publication date	Application number	Application date
KR20020074139 A	20020928	KR20020053972	20020906

Priority:

KR20020053972 20020906

Probable Assignee:

YANG YONG GUN

Assignee(s): (std):

YANG YONG GUN

Inventor(s): (std):

YANG YONG GUN

5) Family number: 40762785 (US2007251433A)

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Title: METHOD AND PLANT FOR PROCESSING **WASTE**

Abstract: Source: US2007251433A A municipal or like refuse is crushing, mixing with crushed limestone, **dry** up in two stages-by hot air and by part of solid products of pyrolysis which other part goes on washing out and filtration. Pyrolysis is carried out in two stages-due to heat of the specified part of solid products of pyrolysis and simultaneous neutralization of allocated hydrogen chloride by limestone with reception of calcium chloride, and then due to heat of final chimney gases of the combustion chamber, where in three stages the washed solid products of pyrolysis preliminary drained by a part of combustion chamber slag are burnt together with liquid and gaseous products of pyrolysis. Gas allocated at pyrolysis condense and divide on organic, which is liquid fuel and water phases. Air after a dryer moves to blowing away of light organic substances from the specified water phase, is heated up due to heat of slag and moves in combustion chamber. Washing water goes on allocation of salts of heavy metals and calcium chloride, and slag after molding of a concrete mixture goes to the chamber of thermohumid processing of the slag concrete by a part of damp chimney gases after **drying** calcium chloride, other part of gases moves to manufacture of liquid carbon dioxide.

Classifications:

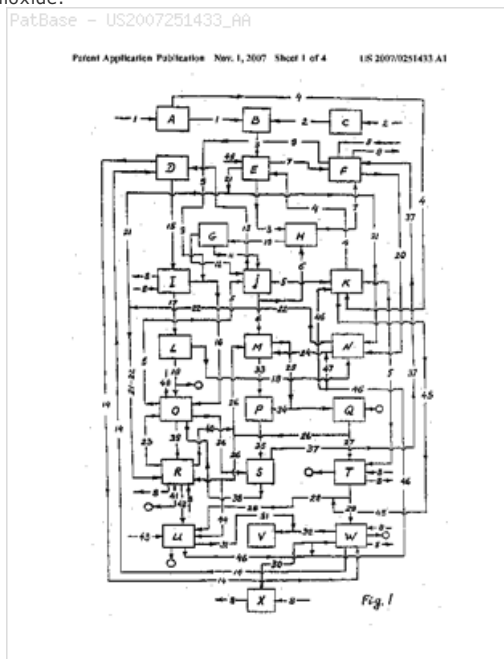
International (IPC 8-9): B09B3/00 C04B18/04 C04B7/14 F23G5/00 F23G5/02 F23G5/027 F23G5/04 (Advanced/Invention); C04B7/00 F23G5/00 F23G5/02 (Core/Invention); C04B F23G (Subclass/Invention)

International (IPC 1-7): C04B7/14

CPC: C10J2300/0906 C10J2300/0996 F23G5/006 B09B3/00 C10B47/30 C10B53/00 C10J3/00 C10J3/84 F23G5/027 F23G5/04 F23G5/16 F23G5/46 F23G2201/303 F23G2201/304 F23G2201/602 F23G2201/701 F23G2202/104 F23G2206/10 F23G2900/00001 F23G2900/50205 F23G2900/50401 Y02E20/12 Y02P20/129

European: B09B3/00 C10B47/30 C10B53/00 C10J3/00 C10J3/84 F23G5/00P F23G5/027 F23G5/04 F23G5/16 F23G5/46 R23G201/303 R23G201/304 R23G201/602 R23G201/701 R23G202/104 R23G206/10 R23G900/00001 R23G900/50205 R23G900/50401 Y02E20/32D

US: 106/745 106/789 110/235 588/321



Family:

Publication number	Publication date	Application number	Application date
AU2007243632 AA	20071108	AU20070243632	20070323
AU2007243632 BB	20110811	AU20070243632	20070323
CA2656987 AA	20090106	CA20072656987	20070323
DE602007027951 D1	20130307	DE200760027951T	20070323
EP2004565 A2	20081224	EP20070754020	20070323
EP2004565 A4	20120404	EP20070754020	20070323
EP2004565 B1	20130109	EP20070754020	20070323
IN02271MN2008 A	20090123	IN2008MN02271	20081023
RU2008144166 A	20100510	RU20080144166	20070323
US2007251433 AA	20071101	US20060393195	20060330
US7611576 BB	20091103	US20060393195	20060330
WO07126746 A2	20071108	WO2007US07443	20070323
WO07126746 A3	20081002	WO2007US07443	20070323
ZA200809743 A	20090930	ZA20080009743	20081114

Priority:

EP20070754020 20070323 US20060393195 20060330 WO2007US07443 20070323

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Assignee(s): RABINER YURIY NEW YORK

Inventor(s): (std): RABINER YURIY ; YURIY RABINER

Inventor(s): RABINER YURIY NEW YORK

Agent(s): FISHER ADAMS KELLY CALLINANS; CALLINANS; OGILVY RENAULT LLP SENCRL SRL; HENTRICH SWEN
DIPL PHYS DRRERNAT; HENTRICH SWEN; KF ROSS PC; JONATHAN; ANDREW

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY
CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS
IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MT MW MX MY
MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG
TJ TM TN TR TT TZ UA UG US UZ VN ZA ZM ZW

Title: METHOD AND PLANT FOR TREATING **WASTES** WITH HIGH ORGANIC LOADING

Abstract: The invention relates to a method and a plant for treating **wastes** with high organic loading, especially slaughter **wastes**, with biological processing of the **waste** in a fermenter, featuring a cogeneration power plant which converts the gas, formed in the fermenter in the fermentation of the **waste**, into electrical energy and process heat, with reprocessing of the fermentation residue. The reprocessing of the fermentation residue encompasses the following steps: sanitizing of the fermentation residue; solid/liquid separation of the sanitized fermentation residue in a decanter; dewatering of the decanter liquid in an evaporation unit; cooling of the distillate from the evaporation unit in a cooling system. The energy needed for the dewatering in the evaporation unit is supplied from the cogeneration power plant.

Classifications:

International (IPC 8-9): B01D1/00 C02F11/12 C02F9/00

C12M1/107 (Advanced/Invention);

B01D1/00 C02F11/12 C02F9/00 C12M1/107 (Core/Invention)

CPC: C12M21/04 C12M47/14 B09B3/00 C02F1/04 C02F1/441

C02F9/00 C02F11/04 C02F11/12 C02F2101/16 C02F2101/20

C02F2103/003 C02F2103/22 C02F2103/32 C02F2103/343

C02F2209/005 C02F2209/02 C05F1/005 C05F17/0027 Y02E50/343

Y02W30/43 Y02P20/129 Y02P20/13 Y02P20/145

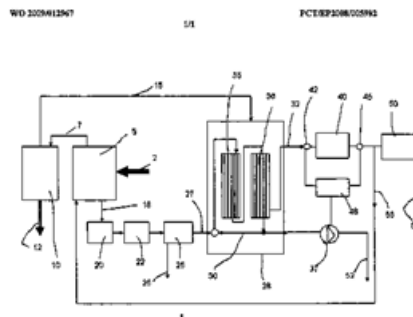
European: B09B3/00 C02F9/00 C05F1/00D C05F17/00F M02F1/04

M02F1/44B M02F101/16 M02F101/20 M02F103/00D M02F103/22

M02F103/32 M02F103/34P M02F11/04 M02F11/12 M02F209/00T

M02F209/02 Y02E50/34B

PatBase - WO09012967_A1



Family:

Publication number	Publication date	Application number	Application date
DE102007034642 A1	20090129	DE200710034642	20070723
WO09012967 A1	20090129	WO2008EP05982	20080722

Priority:

DE200710034642 20070723

Probable Assignee: ABB AG

Assignee(s): (std): ABB AG ; HORSTICK KLAUS

Inventor(s): (std): HORSTICK KLAUS

Agent(s): FRITSCH KLAUS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

11) Family number: 51549815 (EP2520379A2)

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Title: MULTI STAGE WASTE TREATMENT PROCESS

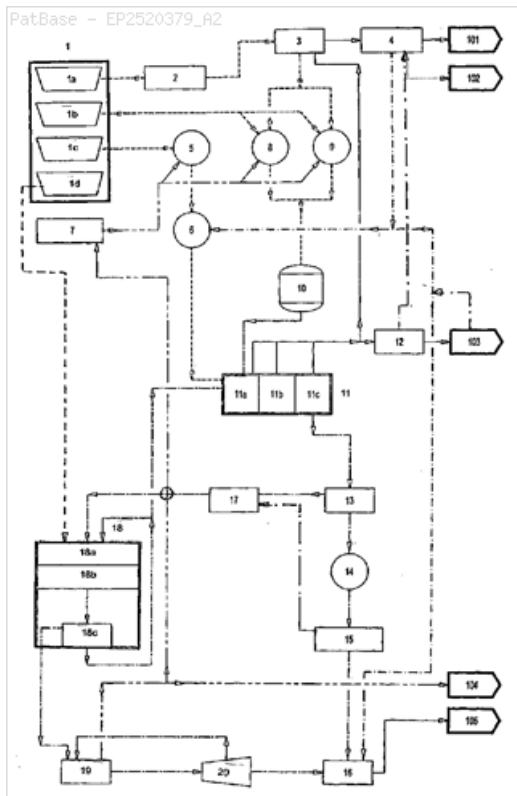
Abstract: Source: EP2520379A2 Waste disposal method, with sorting and homogenization of solid wastes, mixing solid organic wastes with liquids, thermal hydrolysis of wastes, ad anaerobic digestion, whereat wastes delivered to the station are divided into four groups: - solid wastes (1a), - liquid wastes (1b), - sewage sludge (1c) and - organic waste rich in carbon (1d), while solid wastes (1a) are subject to crushing and then split into the 3 fractions a) minerals, which are led directly to the municipal landfill (102); b) high-calorific fraction, which is directed to the incinerator (4); and c) biodegradable fraction; in which the biodegradable fraction c) is mixed with liquid wastes (1b) and/or purified sewage in tanks (8, 9), and the obtained pulp is sent to the thermal hydrolysis in a reactor (10); the sewage sludge (1c) is mixed with purified sewage from a tank (7) and preferably subject to pasteurization, the preferably pasteurized diluted sewage sludge and the substrate exiting the thermal hydrolysis reactor (10) are combined, with addition of excess sludge from a biological water purification stage - and subject to anaerobic digestion in chamber (11), followed by a sedimentation in chamber (13); the in the process of anaerobic digestion obtained biogas is sent to the current generator (103) and a low-calorie excess of biogas is directed to the burner of the incinerator (4), supporting waste incineration; the clear liquid obtained after sedimentation is led to a clear liquid tank (17) and/or tank (7) at the beginning of the process, while the post-sedimentation sludge is treated with coagulants and flocculants, and then filtrated, a part of the liquid from the clear liquid tank (17) is mixed with organic waste rich in carbon, i.e. the fourth waste group (1d), and is then subject to treatment in a biological treatment stage (18) using active sludge; a part of the active sludge from the biological treatment stage (18) is returned to the biological treatment stage and the excess is sent to the anaerobic digestion chamber (11); the liquid exiting the biological treatment stage (18) is subject to treatment in the chemical treatment station (19).

Classifications:

International (IPC 8-9): B03B9/06 B09B3/00 C02F11/04 C02F9/00 (Advanced/Invention)

CPC: B09B3/00 C02F1/38 C02F3/30 C02F9/00 C02F11/04 C02F11/122 C02F11/14 C02F11/185 Y02E50/343 C12M21/04 C12M23/58 C12M41/18 C12M45/02 C12M45/06 C12M45/20

European: B09B3/00 C02F9/00 M02F1/38 M02F11/04 M02F11/12C2 M02F11/14 M02F11/18C M02F3/30



Family:

Publication number	Publication date	Application number	Application date
EP2520379 A2	20121107	EP20110460064	20111219
EP2520379 A3	20130306	EP20110460064	20111219
PL217056 B1	20140630	PL20100393371	20101220
PL393371 A1	20120702	PL20100393371	20101220

Priority:

PL20100393371 20101220

Probable Assignee: KOMAROWSKI LESZEK

Assignee(s): (std): KOMAROWSKI LESZEK

Inventor(s): (std): KOMAROWSKI LESZEK

Agent(s): DZIUBINSKA JOANNA

Designated states: AL AT BA BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC ME MK MT NL NO PL PT RO RS SE SI SK SM TR