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Search 1: STAC=(drying and plant and moisture and feed* and sensor) and PD<20160426 and IC=(C02F11/12 or F26B 17/00 or F26B 3/00)
(Results 0)

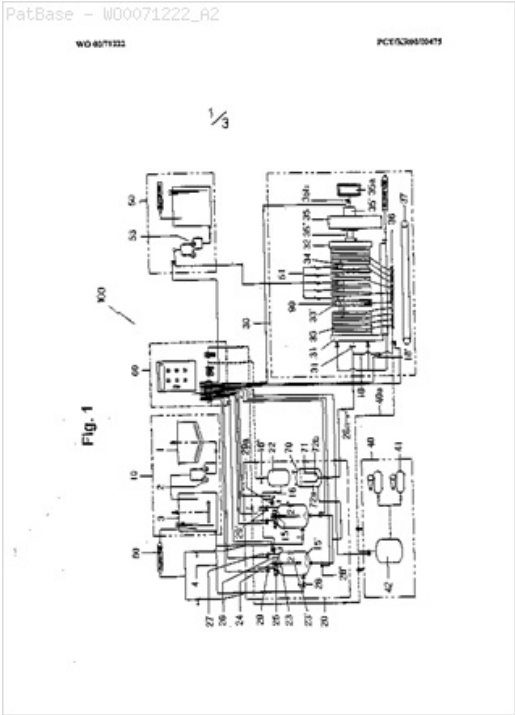
Search 2: SFT=(drying and plant and moisture and feed* and sensor) and PD<20160426 and IC=(C02F11/12 or F26B 17/00 or F26B 3/00)
(Results 49)

Title: DRAINAGE SLUDGE DEHYDRATION AND **DRY** SYSTEM

Abstract: The object of this invention is to provide a sludge dehydration and **dry** system. This system **feeds** sludge-laden waste liquid from a sludge inlet unit (10) to pressure vessels of an automatic pneumatic pump (20), and **feeds** waste liquid to a dehydration unit (30) by pressurizing the surface of waste liquid within the vessels using compressed air, thus dehydrating the sludge to form sludge cakes, and dries the sludge cakes at the filter plates (33) of the unit (30) using compressed air from a **dry** unit (18). The **moisture** content of the sludge cakes within the dehydration unit is reduced by inflating the membranes (90) with compressed air. After the sludge compression and dehydration process, the filter plates are separated from each other by a separation unit (34), and so the resulting sludge cakes are dropped from the filter plates onto a **feeding** conveyor (37) to be discharged from the system.

Classifications:

International (IPC 8-9): B01D25/12 C02F11/12 F26B25/00 F26B5/14 (Advanced/Invention); C02F11/12 (Advanced/Non-invention); B01D25/12 C02F11/12 F26B25/00 F26B5/00 (Core/Invention)
International (IPC 1-7): B01D25/12 C02F11/12 C02F11/14 H02H7/085
CPC: C02F11/12 F26B5/14 F26B25/002 F26B2200/18
European: C02F11/12 F26B25/00B2 F26B5/14 R26B200/18



Family:

Publication number	Publication date	Application number	Application date
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AU200046199 A5	20001212	AU20000046199	20000516
CN1171814 C	20041020	CN20001008586	20000518
CN1274687 A	20001129	CN20001008586	20000518
JP2000354900 A2	20001226	JP20000150576	20000522
KR100308407 B1	20011107	KR20000014235	20000321
KR19990068444 A	19990906	KR19990018302	19990520
KR20000076920 A	20001226	KR20000014235	20000321
WO0071222 A2	20001130	WO2000KR00475	20000516
WO0071222 A3	20010322	WO2000KR00475	20000516

Priority:

KR19990018302 19990520 KR19990018302 19990520 KR20000014235 20000321
WO2000KR00475 20000516

Probable Assignee: SAE JON BAK

Assignee(s): (std): BAK SAE JON ; BOKU SEISHUN ; PARK SE JUN ; SAE JON BAK ; SE JUN PARK

Inventor(s): (std): PARK SE JUN ; SAE JON BAK ; BOKU SEISHUN

Inventor(s): SE JUN PARK ; BAK SAE JON

Designated states: AT AU BE BR CA CH CY DE DK ES FI FR GB GR ID IE IN IT LU MC MX NL NZ PT SE SG VN

Abstract: There is disclosed a process for treating sewage or similar organic sludge to produce a pasteurized and dried product comprising the steps of: dividing the sludge into at least one first portion and at least one second portion; **drying** the first portion so that the first portion has a higher **dry** solids content than that of the second portion; mixing the first portion and the second portion to produce a mixture having a **dry** solids content which is intermediate between that of the first and second portions; adding an alkaline admixture to the mixture in order to pasteurize the mixture and thereby produce the product without employing subsequent **drying** by aeration.

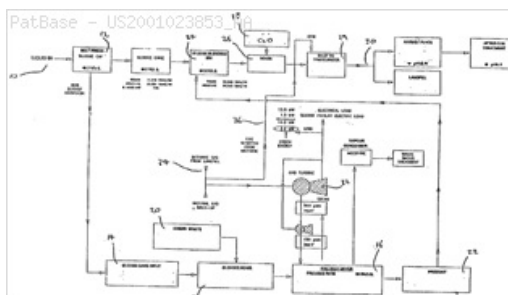
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C02F11/18 (Advanced/Invention);
C02F11/00 C02F11/12 C02F11/14 C02F11/18 (Core/Invention);
C02F (Subclass/Invention)

International (IPC 1-7): C02F C02F1/02 C02F1/42 C02F1/50 C02F11/00 C02F11/12 C02F11/14 C02F11/18

CPC: C02F11/14 C02F11/185 C02F11/123 C02F11/12 C02F11/18

European: C02F11/12C4 C02F11/14 C02F11/18C

US: 210/181 210/198.1 210/252 210/259 210/660 210/764 210/766
210/768 210/770 210/790



Publication number	Publication date	Application number	Application date
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AU200139409 A5	20011008	AU20010039409	20010322
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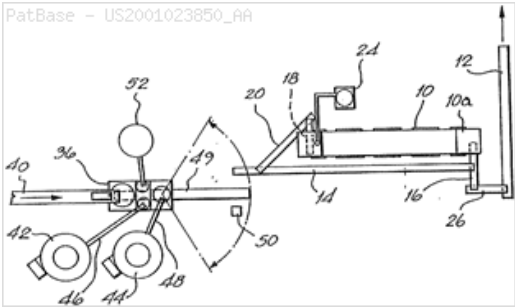
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Title: TREATING SEWAGE OR LIKE SLUDGE

Abstract: There is disclosed a process for treating sewage sludge or similar organic sludge in which dewatered sludge cake and an alkaline admixture are mixed and then dried under pasteurisation conditions utilising heat from the exothermic reaction with the alkali, in which **drying** is effected by extraction of **moisture** evaporated from the mixture by the exothermic heat.

Classifications:

International (ipc 8-9): C02F11/12 C02F11/14 C02F11/18 (Advanced/Invention); C02F11/12 C02F11/14 C02F11/18 (Core/Invention)
International (ipc 1-7): C02F C02F11/12 C02F11/14 C02F11/18
CPC: C02F11/14 C02F11/185
European: C02F11/14 C02F11/18C
US: 210/739 210/766



Family:

Publication number	Publication date	Application number	Application date
AU2001240924 AA	20011008	AU20010240924	20010322
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GB2363116 A1	20011212	GB20000007246	20000325
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MXPA02009394 A1	20040517	MX2002PA09394	20010322
PL358805 A1	20040823	PL20010358805	20010322
US2001023850 AA	20010927	US20010815815	20010323
WO0172646 A1	20011004	WO2001GB01239	20010322
ZA200207565 A	20030508	ZA20020007565	20020920

Priority:

GB20000007246 20000325 US20000196445P 20000411 WO2001GB01239 20010322
US20010815815 20010323

Probable Assignee: R3 MANAGEMENT LTD

Assignee(s): (std): MILLARD ROBIN ; R3 MAN LTD ; R3 MANAGEMENT LIMITED ; R3 MANAGEMENT LTD

Inventor(s): (std): ROBIN MILLARD ; MILLARD ROBIN

Agent(s): FETHERSTONHAUGH AND CO

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

Title: Refuse treating apparatus

Abstract: Refuse 21 in a refuse container 2 is heated by a heater 16, and the steam generated from the refuse 21 is condensed by a condenser 8. The ambient temperature near the refuse container 2 is detected by a first temperature detector 6, and the output of the heater 16 is controlled by the output of the first temperature detector 6 so that the temperature near the refuse container 2 may be a specific temperature, and the temperature of the steam flowing out from the refuse container 2 into the condenser 8 is detected by a second temperature detector 7 at the condenser 8. When the temperature change of the second temperature detector 7 exceeds a specific value, the **drying** process is terminated, so that the **drying** end time can be detected accurately without allowing to scorch.

Classifications:

International (IPC 8-9): A61L11/00 A61L9/015 B01D53/34 B01D53/38 B01D53/74 B01D53/81 B01D53/86 B01F15/06 B01F7/16 B01F9/08 B02C17/00 B02C18/00 B02C18/16 B02C18/18 B09B3/00 B09B5/00 B65F1/00 B65F1/14 C01B13/10 C02F11/12 F26B11/08 F26B11/12 F26B11/14 F26B11/16 F26B21/00 F26B25/00 F26B25/22 F26B3/18 F26B9/06 (Advanced/Invention); B01D53/38 B01D53/81 C02F11/12 (Advanced/Non-invention); A61L11/00 A61L9/015 B01D53/34 B01D53/38 B01D53/74 B01D53/81 B01D53/86 B01F15/00 B01F7/16 B01F9/00 B02C17/00 B02C18/00 B02C18/06 B09B3/00 B09B5/00 B65F1/00 B65F1/14 C01B13/10 C02F11/12 F26B11/00 F26B21/00 F26B25/00 F26B25/22 F26B3/00 F26B9/06 (Core/Invention); B01D53/38 B01D53/81 C02F11/12 (Core/Non-invention)

International (IPC 1-7): A61L11/00 A61L9/015 B01D53/34 B01D53/38 B01D53/74 B01D53/81 B01D53/86 B01F15/06 B01F7/16 B01F9/08 B02C17/00 B02C18/16 B02C18/18 B02C18/40 B02C18/44 B09B3/00 B09B5/00 B65F1/00 B65F1/14 C01B13/10 C02F11/12 F26B11/08 F26B11/12 F26B11/14 F26B11/16 F26B19/00 F26B21/00 F26B25/00 F26B25/22 F26B3/18 F26B9/06

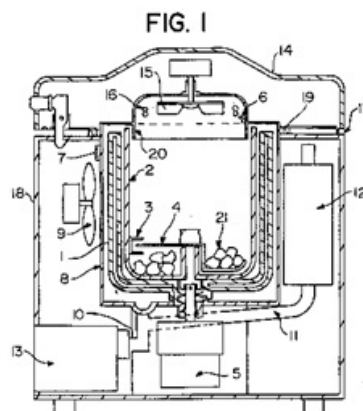
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US: 241/199.12 241/36 241/65 241/DIG.38 34/543 34/549 34/554 345/490

PatBase - US5551170_A

U.S. Patent Sep. 3, 1996 Sheet 1 of 20 5,551,170



Family:

Publication number	Publication date	Application number	Application date
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Probable Assignee: MATSUSHITA ELECTRIC INDUSTRIAL CO LTD

Assignee(s): (std): MATSUSHITA ELECTRIC IND CO LTD

Assignee(s): HAYASHIDA YUKIO ; KUROKI YOICHI ; KIKAWA TATSUO ; KITAMURA HIDENORI ; ISHIBASHI KATSUYUKI ; KUBOTA TADASHI ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD KADOMA OSAKA ; MATSUSHITA ELECTRIC INDUSTRIAL CO ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD ; PANASONIC CORP ; MATSUSHITA ELECTRIC INDUSTRIAL CO LTD KADOMA OSAKA JP ; UETANI YOJI ; SAKATANI HIDEAKI ; NISHIDA HIROFUMI ; UENO SEICHI ; NISHIKORI YUKIYOSHI ; TOKUMITU SYUZO ; SUNABA KENICHIRO ; MISHIMA MOTOMICHI ; TSUNAGA HISAO ; ASADA SYUJI ; FUJITA TATSUO ; HATA KEIKO

Inventor(s): (std): ASADA SHUJI ; ASADA SYUJI ; FUJITA TATSUO ; HATA KEIKO ; HAYASHIDA YUKIO ; HIROTA HIROMI ; ISHIBASHI KATSUYUKI ; KAMIYA HIROTSUGU ; KIKAWA TATSUO ; KIKAWA TATSUOSUYUKI ; KITAMURA HIDENORI ; KITAMURA SHUSUKE ; KUBOTA TADASHI ; KUROKI YOICHI ; MISHIMA MOTOMICHI ; NISHIDA HIROFUMI ; NISHIDA HIROSHI ; NISHIGORI YUKIYOSHI ; NISHIKORI YUKIOYOSHI ; NISHIKORI YUKIYOSHI ; SAKATANI HIDEAKI ; SUNABA KENICHIRO ; TOKUMITSU SHUZO ; TOKUMITU SYUZO ; TSUNAGA HISAO ; UENO SEICHI ; UENO SEIICHI ; UETANI YOJI ; YOSHIKAWA TATSUO

Inventor(s): UETANI YOJI AMGASAKI SHI HYOGO 661 JP ; UENO SEICHI HIKONE SHI SHIGA 522 JP ; TSUNAGA HISAO MINOU SHI OSAKA 562 JP ; TOKUMITU SYUZO KAWANISHI SHI HYOGO 666 01 JP ; SUNABA KENICHIRO OUMIHACHIMAN SHI SHIGA 523 JP ; SAKATANI HIDEAKI TAKARAZUKA SHI HYOGO 665 JP ; NISHIKORI YUKIOYOSHI OUMIHACHIMAN SHI SHIGA 523 JP ; NISHIDA HIROFUMI OSAKA SHI OSAKA 576 JP ; MISHIMA MOTOMICHI TAKARAZUKA SHI HYOGO 665 JP ; KUROKI YOICHI KAWACHINAGANO SHI OSAKA 586 JP ; KUBOTA TADASHI KATANO SHI OSAKA 576 JP ; KITAMURA HIDENORI GAMOU GUN SHIGA 521 13 JP ; KIKAWA TATSUOSUYUKI OUMIHACHIMAN SHI SHIGA 523 JP ; KIKAWA TATSUO OUMIHACHIMAN SHI SHIGA 523 JP ; ISHIBASHI KATSUYUKI YOUKAICHI SHI SHIGA 527 JP ; HAYASHIDA YUKIO AMAGASAKI SHI HYOGO 661 JP ; HATA KEIKO AMAGASAKI SHI HYOGO 661 JP ; FUJITA TATSUO OSAKA SHI OSAKA 534 JP ; ASADA SYUJI YOUKAICHI SHI SHIGA 527 JP

Agent(s): ROBIC

Designated states: DE ES FR GB

Title: TREATMENT PLANT FOR PROCESSING ANIMAL WASTES PRODUCED IN A CONFINED ANIMAL GROWING ARE

Abstract: Noxious odors and water pollution commonly associated with the raising of hogs, cattle or poultry under confined conditions are eliminated by replacing the conventional waste lagoon and waste spreading fields with a wastewater treatment plant. The treatment plant extracts manure from the wastewater, then dries and burns the manure along with collected waste gases. The liquid waste portion is filtered, deodorized and then recirculated to the growing buildings as flushwater.

Classifications:

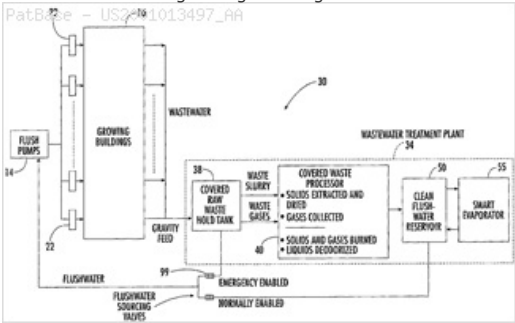
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International (ipc 1-7): A01K1/01 A01K1/02 B01D1/00 B01D37/00 C02F1/04 C02F1/14 C02F1/16 C02F1/72 C02F1/78 C02F11/06 C02F11/12

CPC: Y02W10/37 Y02W10/40 A01K1/0103 C02F1/04 C02F1/78 C02F2103/20

European: A01K1/01A C02F1/78 M02F1/04 M02F103/20

US: 119/447 119/450 210/17 210/170.08 210/170.080S 210/744 210/747 210/747.9 210/747.900P 210/767 210/767S 210/769 210/805



Family:

Publication number	Publication date	Application number	Application date
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US6190566 BA	20010220	US19980103305	19980623
WO9967174 A1	19991229	WO1999US13926	19990622
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Priority:

US19980103305 19980623 WO1999US13926 19990622 US20010788223 20010216

Probable Assignee: STEVEN N KOLBER

Assignee(s): (std): KOLBER STEVEN N ; STEVEN N KOLBER

Inventor(s): (std): KOLBER SN ; KOLBER STEVEN N

Inventor(s): SN KOLBER ; STEVEN N KOLBER

Designated states: AE AL AM AT AU AZ BA BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CU CY CZ DE DK EE ES FI FR GA GB GD GE GH GM GN GR GW HR HU ID IE IL IN IS IT JP KE KG KP KR KZ LC LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SL SN SZ TD TG TJ TM TR TT UA UG US UZ VN YU ZA ZW

Title: METHOD AND APPARATUS FOR THE TREATMENT OF SEWAGE SLUDGE AND THE LIKE

Abstract: A process for the production of a durable granular or pelletized sludge product is disclosed whereby a minimal amount of high calcium oxide material is utilized for pathogenic stabilization, the resulting material being further processed through an agglomeration stage. A portion of the agglomerated material is further processed in a **moisture reduction** or **drying** stage and recycled back to the agglomeration stage for percent solids adjustment and promotion of agglomeration. An apparatus for performing the process is also disclosed.

Classifications:

International (IPC 8-9): C02F11/00 C02F11/12 C02F11/18 C05D3/00 C05F7/00 (Advanced/Invention);

C02F11/00 C02F11/12 C02F11/18 C05D3/00

C05F7/00 (Core/Invention)

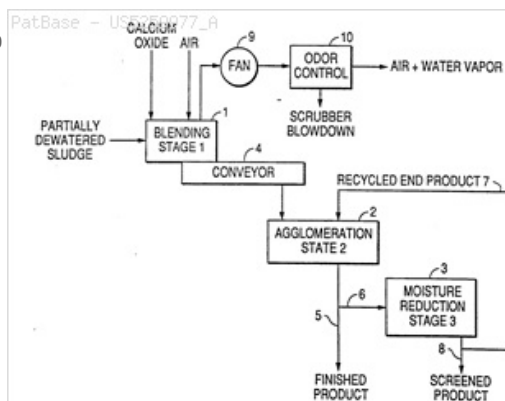
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US: 210/181 210/195.1 210/609 210/742 210/751 210/764 210/768 210/770 210/774



Family:

Publication number	Publication date	Application number	Application date
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Priority:

US19920854896 19920320 US19930147588 19931105 CA19942135085 19941104

Probable Assignee: BIO GRO SYSTEMS INC

Assignee(s): (std): BIO GRO SYSTEMS INC

Assignee(s): GIROVICH MARK ; SYNAGRO WWT INC ; WHEELABRATOR CLEAN WATER SYSTEMS INC ; WHEELABRATOR WATER TECHNOLOGIES INC ; BANK OF AMERICA NA

Inventor(s): (std): DAUSMAN JEROME F ; GIROVICH MARK

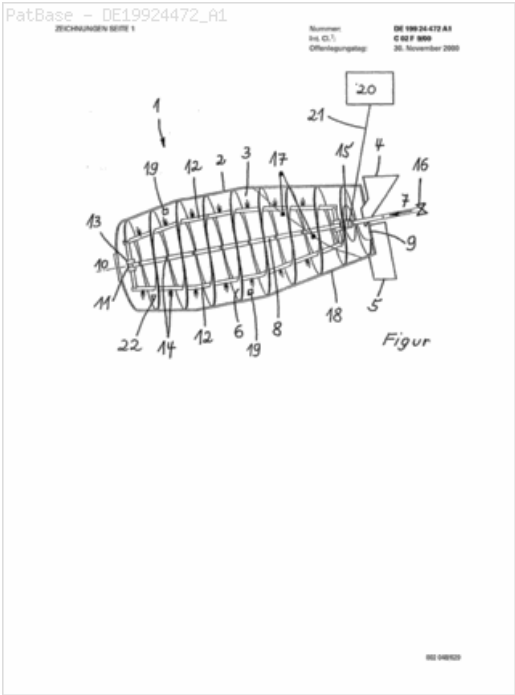
Agent(s): RIDOUT AND MAYBEE LLP

Title: Treatment with carbon dioxide of waste (eg from papermaking) to make use of the quicklime, carbon or metal components in metallurgy, cement manufacture or firing of power stations or incinerators

Abstract: Further treatment of an exothermically-reacted mixture made from waste comprises stirring it before or after the decay of its reactivity and charging it with a CO2-containing gas, the mixture containing: (a) water, carbon, metals, metal oxides and/or other reactive materials; and (b) components which are reactive with (a) comprising free quicklime, calcined dolomite, carbon, metals, metal oxides etc in finely-divided or powdered form.

Classifications:

International (ipc 8-9): C02F11/00 C02F11/12 C04B2/06 (Advanced/Invention);
C02F11/00 C02F11/12 C04B2/00 (Core/Invention)
International (ipc 1-7): C02F1/00 C02F1/74 C02F9/00
CPC: C02F11/008 C02F11/12 C04B2/066
European: C02F11/00F C02F11/12 C04B2/06H



Family:

Publication number	Publication date	Application number	Application date
DE19924472 A1	20001130	DE19991024472	19990528

Priority:

DE19991024472 19990528

Probable Assignee: CODE GMBH COMMERCIAL DEVELOPME
Assignee(s): (std): CODE GMBH COMMERCIAL DEVELOPME
Assignee(s): CODE GMBH COMMERCIAL DEVELOPMENTS
Inventor(s): (std): OSING DIRK

Title: Process and apparatus for **dry**ing material with indirectly heated driers and for decontaminating waste gas

Abstract: A process and apparatus for **dry**ing material, particularly sludges, with indirectly heated driers includes a system for the thermal decontamination of exhaust air from the drier. Excess exhaust air from the drier loop is fed as secondary air to the heating boiler or furnace separately from the primary air for combustion of the fuel and to thermally clean the exhaust air from the drier. The exhaust drier gas from the drier remains in the furnace for a period to decontaminate the drier gas, after which it is mixed with the flue gases. The mixture is then removed from the furnace. The system is suitable for operation under normal operating temperatures and at low, below normal operating temperatures.

Classifications:

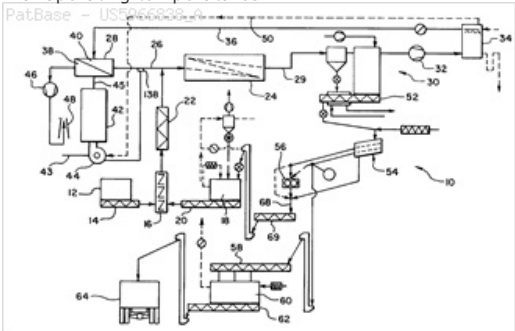
International (ipc 8-9): B01D53/00 C02F11/12 F23G7/06 F26B21/04 F26B23/02 (Advanced/Invention)

International (ipc 1-7): C02F11/12 F26B21/06 F26B3/00

CPC: B01D53/005 C02F11/12 F23G7/065 F26B21/04 F26B23/022 F26B2200/18

European: B01D53/00H C02F11/12 F23G7/06B3 F26B21/04 F26B23/02B R26B200/18

US: 34/467 34/477 34/479 34/79 34/790 34/86



Family:

Publication number	Publication date	Application number	Application date
AT170796 A	19990215	AT19960001707	19960926
AT405644 B	19991025	AT19960001707	19960926
EP0832856 A2	19980401	EP19970113820	19970811
EP0832856 A3	19990224	EP19970113820	19970811
US5966838 A	19991019	US19970935674	19970923
US6058619 A	20000509	US19990354104	19990715

Priority:

AT19960001707 19960926 US19970935674 19970923 US19990354104 19990715

Probable Assignee: ANDRITZ PATENTVERWALTUNGS GES MBH

Assignee(s): (std): ANDRITZ PATENTVERWALTUNG

Assignee(s): ANDRITZ PATENTVERWALTUNGS GES M B H ; ANDRITZ PATENTVERWALTUNGS GES MBH ; ANDRITZ PATENTVERWALTUNGS GES MBH STATTEGGERSTRASS ; ANDRITZ PATENTVERWALTUNGS GESELLSCHAFT M B H

Inventor(s): (std): BRUNNMAIR ERWIN ; BRUNNMAIR ERWIN DIPL ING ; COMMERFORD PETER ; KREBS GEORG ; KREBS GEORG DIPL ING

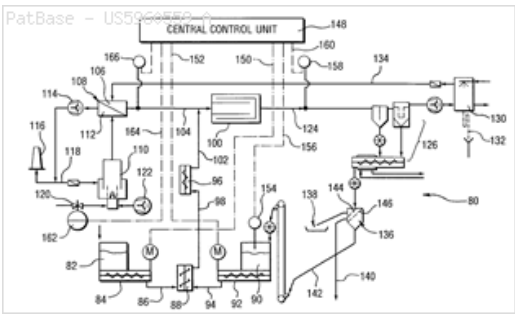
Designated states: AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

Title: Process and apparatus for **drying** material

Abstract: A process and apparatus for **drying** material, in which a previous dried material is mixed into the wet material to be dried to produce a dried mixture of different particle sizes. The process for **drying** material requires less industrial equipment implemented in a more economical and simpler **plant** that can be operated with low energy and maintenance requirments. The amount of fine material obtained after **drying** is measured and the amount of fine previously dried material mixed into the wet material to be dried is then set in inverse proportion to the quantity of fine dried material produce.

Classifications:

International (IPC 8-9): F26B1/00 (Advanced/Invention)
International (IPC 1-7): C02F11/12 F26B1/00 F26B3/00
CPC: F26B1/00 F26B2200/18
European: F26B1/00 R26B200/18
US: 110/216 110/245 34/371 34/424 34/514 34/79 34/85 34/86 432/59 432/72



Family:

Publication number	Publication date	Application number	Application date
AT404015 B	19980727	AT19960000694	19960417
AT69496 A	19971215	AT19960000694	19960417
EP0802381 A2	19971022	EP19970103315	19970228
EP0802381 A3	19980401	EP19970103315	19970228
US5960559 A	19991005	US19970843304	19970414

Priority:

AT19960000694 19960417

Probable Assignee: ANDRITZ PATENTVERWALTUNGS GES MBH

Assignee(s): (std): ANDRITZ PATENTVERWALTUNG ; ANDRITZ PATENTVERWALTUNGS GESE

Assignee(s): ANDRITZ PATENTVERWALTUNGS GESELLSCHAFT M B H ; ANDRITZ PATENTVERWALTUNGS GESELLSCHAFT M B H ; ANDRITZ PATENTVERWALTUNGS GES MBH ; ANDRITZ PATENTVERWALTUNGS GES MBH STATTEGGERSTRASS

Inventor(s): (std): BRUNNMAIR ERWIN ; BRUNNMAIR ERWIN DIPL ING ; PINTER REINHARD ; PINTER REINHARD DIPL ING DR TE

Inventor(s): PINTER REINHARD DIPL ING DR TECHN ; PINTER REINHARD DIPL ING

Designated states: DE ES FR GB IT

Title: APPARATUS AND METHOD FOR TREATING WASTE WATER FROM A RESIDENTIAL HOME

Abstract: Disclosed is a system for processing relatively small volumes of waste water such as that found in residential home use. The system first comprises a chamber adapted to hold the waste water. The system further comprises a first filter adapted to remove coarse material from the waste water and a second filter adapted to remove fine materials from the waste water. The system further comprises a disinfectant chamber adapted to disinfect the waste water. The system comprises a pump adapted to pump the waste water from the chamber through the first and second filters, and the disinfectant chamber.

Classifications:

International (IPC 8-9): B01D36/02 C02F1/04 C02F1/32 C02F9/00 F23G7/00 (Advanced/Invention);

C02F11/12 (Advanced/Non-invention);

B01D36/00 C02F1/04 C02F1/32 C02F9/00 F23G7/00 (Core/Invention); C02F11/12 (Core/Non-invention)

International (IPC 1-7): B01D36/02 B01D36/04 C02F9/00

CPC: Y10S210/92 F23G7/001 B01D36/02 C02F1/04 C02F1/32 C02F3/28 C02F9/00 C02F11/12 B01D36/04

European: B01D36/02 C02F1/04 C02F1/32 C02F9/00 F23G7/00F M02F1/32 M02F11/12 M02F3/28

US: 210/108 210/136 210/195.1 210/195.3 210/202 210/205 210/252 210/259 210/295 210/333.1 210/335 210/748 210/748.11 210/920

