

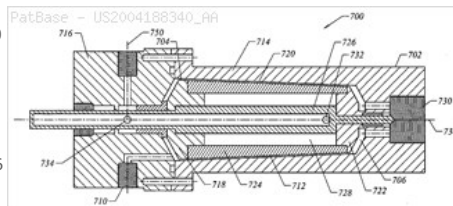
Diego Gonzalez

Title: APPARATUS FOR SEPARATING PARTICULATES FROM A SUSPENSION, AND USES THEREOF

Abstract: Source: US2004188340A The present invention includes an apparatus for separating particulates from a fluid in a suspension, comprising: a housing defining a frusto-conically shaped inner chamber with an inner wall, an inlet and a first outlet communicating with the chamber, and a second outlet; and a spinning assembly with a hollow interior mounted in the chamber, the assembly being shaped to define an annular gap with the chamber inner wall, the hollow interior communicating with the second outlet, and the hollow interior communicating with the annular gap for flow of fluid materials from the gap into the interior and out of the second outlet in response to rotation of the spinning assembly. The separator finds application in the preparation of **waste** products such as municipal sewage sludge for processes that produce useful materials including gas, oil, specialty chemicals, fertilizer, and carbon solids, in reliable purities and compositions, and with high energy efficiency.

Classifications:

International (IPC 8-9): B09B3/00 C10G1/10 C10L3/00 C10L5/40 A01C3/00 A23K1/00 A23K1/175 A23L1/00 B01D3/00 B01D3/06 B01D3/14 B01D5/00 B01D53/00 B01D53/86 B01D63/16 B01J10/00 B01J19/00 B01J19/18 B01J3/00 B04B5/12 B09C1/02 B09C1/08 B29B17/00 C01B31/02 C01B7/00 C01B7/19 C02F1/68 C02F1/70 C02F11/00 C02F11/08 C02F11/10 C02F11/18 C05B17/00 C05F1/00 C05F11/00 C05F3/00 C05F5/00 C05F7/00 C05F9/00 C05G1/00 C07C1/00 C07C1/20 C07C4/00 C07C7/00 C07C9/00 C07H15/04 C07H15/06 C07H5/04 C07H5/06 C08J11/10 C10B1/00 C10B35/00 C10B47/00 C10B53/00 C10B53/02 C10B53/07 C10B7/10 C10G1/00 C10G1/02 C10G1/04 C10G1/06 C10G3/00 C10G45/00 C10G9/00 C10L1/00 C10L1/02 C10L1/04 C10L3/06 C10L5/00 C11B13/00 C11B13/04 C11B3/00 (Advanced/Invention); B01D63/00 B09B3/00 C02F1/38 C02F103/20 C02F103/22 C02F11/10 C02F11/12 C05F1/00 C05F3/00 C05F7/00 C05F9/00 C07C1/00 C07H15/04 C07H15/06 C10G1/00 C10G1/06 C10G1/10 C10G3/00 C10L1/04 (Advanced/Non-invention); A23K1/00 A23K1/175 A23L1/00 B01D53/00 B01D53/86 B09B3/00 B29B17/00 C01B7/00 C02F11/00 C02F11/06 C02F11/10 C05B17/00 C05F1/00 C05F11/00 C05F3/00 C05F5/00 C05F7/00 C05F9/00 C05G1/00 C07C1/00 C07H15/00 C07H5/00 C08J11/00 C10B53/00 C10B53/07 C10G1/00 C10G45/00 C10L1/00 C10L3/00 C10L5/40 C11B13/00 (Core/Invention); C05F1/00 C05F3/00 C05F7/00 (Core/Non-invention); C01B C05G C07C C10G C10L (Subclass/Invention)



International (IPC 1-7): A01C3/00 B01D53/00 B01D53/86 B01D63/16 B01J10/00 B09B3/00 B09B3/02 B09B3/02 B29B17/00 C01B7/19 C10L1/04 C02F11/00 C05F17/00 C05F17/02 C05F5/00 C05G C05G0/00 C05G1/00 C07C1/00 C07C4/00 C10B35/00 C10G1/00 C10G1/00 C10L1/00 C10L1/04 **CPC:** C07H5/06 C10G3/40 C10G2300/807 C02F1/02 C02F1/04 C02F1/44 C02F11/18 C02F2103/28 C02F2103/322 C02F2103/36 C02F2209/02 C02F2209/03 C05F1/00 C10G9/005 C10L1/00 C10L1/04 C10L3/12 C10L5/40 C10G1/047 A61L11/00 B01J19/18 B01J19/20 B01J2219/00006 B01J2219/00083 B01J2219/00779 B03B9/06 C10G1/045 C10G2300/805 C10G2300/1018 C10G2300/4006 C10G2300/4012 C05F3/06 B01D3/009 B01D3/06 B01D3/148 B01D5/0036 B01D63/16 B04B5/12 C02F1/38 C02F11/10 C02F11/121 C02F2103/20 C02F2103/22 C05B17/00 C05F1/005 C05F3/00 C10B53/00 C10B53/02 C10B53/07 C10G1/00 C10G2300/1003 C10G2300/1014 C10G2300/202 C10G2300/205 C10G2300/304 C10G2300/307 C10G2400/26 Y02E50/14 Y02E50/343 Y02E50/30 C10G1/002 C10G1/02 C10B47/00 C10G1/00 Y02W30/43 Y02W10/33 Y02W10/37

European: A61L11/00 B01D3/00R B01D3/06 B01D3/14B4 B01D5/00F10 B01D63/16 B01J19/18 B01J19/20 B03B9/06 B04B5/12 C02F11/18 C05B17/00 C05F1/00 C05F1/00D C05F3/00 C07H5/06 C10B53/00 C10B53/02 C10B53/07 C10G1/00 C10G1/00B C10G1/02 C10G1/04E C10G1/04W C10G1/10 C10G3/00 C10G9/00L C10L1/00 C10L1/04 C10L3/12 C10L5/40 L01J219/00A2B L01J219/00B2D2D L01J219/00D2D M02F1/02 M02F1/04 M02F1/38 M02F1/44 M02F103/20 M02F103/22 M02F103/28 M02F103/32B M02F103/36 M02F11/10 M02F11/12C M02F209/02 M02F209/03 Y02E50/14 Y02E50/30

US: 201/21 201/25 201/25S 202/118 202/26 202/260 202/260S 202/262 202/262S 202/96 202/96S 208/15 208/15S 210/321.67 210/321.670S 210/321.68 210/321.680P 210/321.87 210/650 210/731 210/749 210/774 210/806 422/184.1 422/187 422/187S 422/188 422/188S 422/198 422/198S 422/600 422/600S 422/608 423/445.00RS 423/445.00S 423/484 423/484P 44/605 44/606 536/55.3 536/55.300 585/1 585/15 585/16 585/16P 585/1S 585/240 585/240P 585/240S 585/241 585/241P 585/242 585/310 585/310S 585/469 585/638 585/733 585/800 585/800S

Family:

Publication number	Publication date	Application number	Application date
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Priority:

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Probable Assignee: SYNPET TEKNOLOJI GELISTIRME AS

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Inventor(s): WILLIAN F LANGE ; ADAMS TERRY ; TERRY NADAMS BRIAN SAPPTEL JAMES HFREISS ; ROBERTS MICHAEL JUS ; SHANNON M JONES ; LANGE WILLIAM FUS ; ROBERTS MICHAEL ; LANGE WILLIAM ; FREISS JAMES HUS ; JONES SHANNON ; EINFELDT CRAIG TIMOTHYUS ; FREISS JAMES ; EINFELDT CRAIG ; CRAIG T EINFELDT ; CARNESI MICHAEL CHARLESUS ; CARNESI MICHAEL ; APPEL BRIAN SUS ; APPEL BRIAN S ADAMS TERRY N ROBERTS MICHAEL J LANG ; APPEL BRIAN ; ADAMS TERRY NUS

Agent(s): NAISMITH ROBERT STEWART ET AL; SHANKS ANDREW; MORGAN LEWIS AND BOCKIUS LLP; BRETT L NELSON EASTMAN CHEMICAL CO; MORGAN LEWIS AND BOCKIUS LLP (SF); DOWNS RACHLIN MARTIN PLLC; KOHLER THOMAS D

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 LI 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 YU ZA ZM ZW

Title: METHOD AND EQUIPMENT FOR SANITIZATION OF MEDICAL WASTE

Abstract: Source: US5620654A Equipment for automatically sanitizing medical waste is mounted in a tightly closable housing (2) provided with charge and discharge openings (9, 10). The housing contains a shredder (20) for comminuting the inserted raw waste and for conveying the shredded material to a mixing vessel (32) where it is diluted by water and thoroughly mixed; and a container (27) for storing tubes filled with several kinds of sanitizing materials and which is configured to dispense the required number and kinds of tubes into the shredder in accordance with the pH value of the mixture in the vessel signalled to a selective valve mechanism (39) by a sensor attached to the vessel. The equipment further includes a pump (33) for recirculating liquid from the vessel to the shredder, and a pump (34) for draining fluid from the mixing vessel. A conveyor (25) conveys the sanitized waste out of the vessel and out of the housing. Electronic and control equipment is provided for operating the various components.

Classifications:

International (IPC 8-9): A61L11/00 A61L2/18 B09B3/00 (Advanced/Invention);

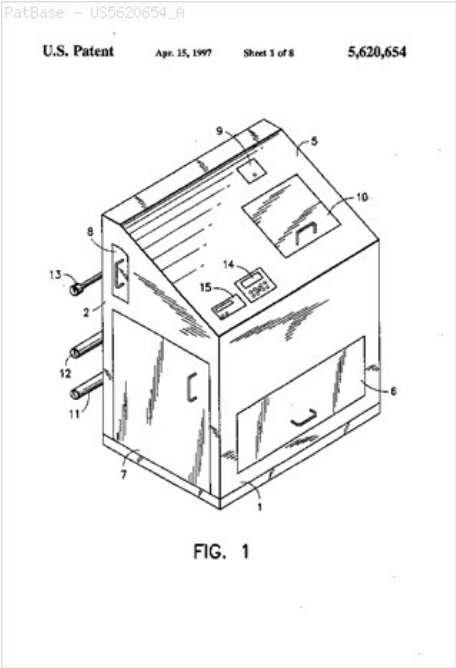
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International (IPC 1-7): A61L11/00 A61L2/18 A62D3/00 B02C B02C18/40 B02C19/12 B09B3/00

CPC: A61L11/00 B02C19/0075 B09B3/0075 Y10S588/90

European: A61L11/00 B02C19/00W6 B02C19/12M B09B3/00M

US: 422/28 422/3 588/205 588/218 588/900



Family:

Publication number	Publication date	Application number	Application date
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Priority:

IL19940108311 19940110 CA19952139689 19950106

Probable Assignee: MCM ENVIRONMENTAL TECHNOLOGIES INC

Assignee(s): (std): BENI MOSENSON ; BENI MOSENSON KIRYAT TIVON ; MOLEDET KFAR BNEI BRITH ; MOLEDET KFAR BNEI BRITH MOSHAV ; MOSHAV SHITUFI HAKLAI LTD ; MOSENSON BENI ; MOSENSON MOLEDET

Assignee(s): VINTAGE CAPITAL GROUP LLC ; MOLEDET KFAR BNEI BRITH MOSHAV SHITUFI HAKLAI LTD ; MOLEDET KFAR BNEI BRITH MOSHAV SHITUFI PAKLAI LTD ; CAPRIUS INC ; MCM ENVIRONMENTAL TECHNOLOGIES INC ; MCM ENVIRONMENTAL TECHNOLOGIES LTD

Inventor(s): (std): BENI MOSENSON ; MOSENSON BENI

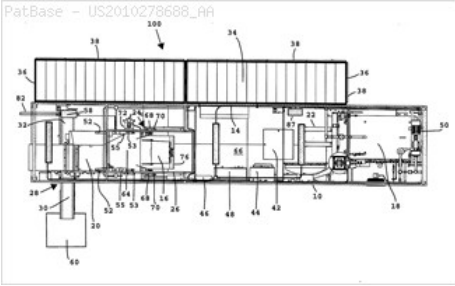
Designated states: AT BE DE ES FR GB IT NL

Title: CONTAINERIZED MEDICAL WASTE TREATMENT SYSTEM AND RELATED METHOD

Abstract: Source: US2010278688A A containerized medical waste treatment system for sterilizing and processing waste. The system includes an elongate, substantially enclosed container-like structure with an access door on at least one lateral side to accommodate the entry of moveable carts containing medical waste. The system further includes an autoclave for sterilizing medical waste, a shredder for processing the load after sterilization, a tipper for transferring the waste held in carts into the shredder, and a moveable roof panel for providing clearance for a cart that has been elevated by the tipper. At least one conveyor belt for receiving and directing sterilized, shredded waste into a previously positioned waste container is included. The system can perform an autoclave sterilization method which includes relatively short evacuation and heating cycles to remove air pockets within the mass of the load to reduce autoclave treatment times.

Classifications:

International (IPC 8-9): A61L11/00 A61L2/04 A61L2/07 A61L2/24 A61L2/26 B65G41/00 B65G47/00 (Advanced/Invention); A61L2/04 (Core/Invention)
CPC: A61L11/00
European: A61L11/00
US: 422/119 422/119S 422/26 422/26P 422/291 422/291S 422/297 422/297S 422/309 422/309S



Family:

Publication number	Publication date	Application number	Application date
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US2010278688 AA	20101104	US20090625378	20091124
WO10060111 A1	20100527	WO2009US65823	20091124

Priority:
US20080117573P 20081124 US20090625378 20091124 WO2009US65823 20091124

Probable Assignee: MEDCLEAN TECHNOLOGIES INC

Assignee(s): (std): CRAMER PAUL ; MEDCLEAN TECHNOLOGIES INC ; TANAKA DAMIEN

Inventor(s): (std): CRAMER PAUL ; TANAKA DAMIEN

Agent(s): MCCARTER AND ENGLISH LLP HARTFORD CITYPLACE I; GIARRATANA MARK D ET AL

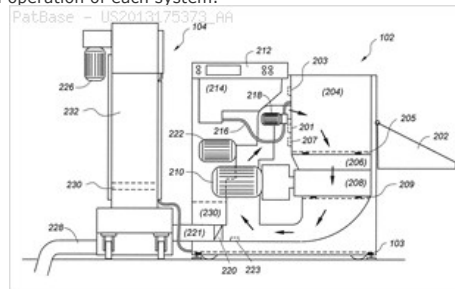
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE 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

Abstract: Source: US2013175373A An integrated **medical waste** management and treatment system may include sensors, interlocks, communications links and/or other features for determining if the **waste** itself, the decontaminating disinfectant used in the process, or the status of the system are consistent with recommended or authorized system operation. System operation may be terminated if a condition inconsistent with recommended or authorized system operation is detected. Such compliance apparatus may include an electronic scale for determining the weight of the **waste** loaded into the receiver compartment, a metal detector, or a sensor for determining if the decontaminating disinfectant is a recommended or authorized disinfectant. A communications link may be provided one or more systems to transmit information to a central station to deliver updates or commands associated with the recommended or authorized operation of each system.

International (IPC 8-9): A61G12/00 A61G19/00 A61L A61L11/00 A61L2/16 A61L2/18 B02C18/00 B02C23/00 B02C23/08 B02C23/36 B02C23/40 B02C25/00 B09B3/00 B09B5/00 (Advanced/Invention);
A61L (Subclass/Invention)

CPC: B02C23/00 B02C23/08 B02C23/36 B02C23/40 B02C25/00 A61L11/00
B02C19/0075 B02C23/12 B02C23/18 A61L2/186 B09B3/0075

US: 241/33 241/36 241/41 241/46.02



Publication number	Publication date	Application number	Application date
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Inventor(s): WEISS MEIRIL ; YURI LITINSKY ; MORGAN DWIGHTGB ; BORIS INDYCH ; DWIGHT MORGAN ; INDYCH BORISIL ; LITINSKY YURIIL ; MEIR WEISS

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL 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 LI 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 PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: PLASTIC SYRINGE DESTRUCTION DEVICE

Abstract: Source: AU199055187A 1. A plastic syringe destruction device having a cylinder (13) defining a chamber 14 having an open upper end for receiving a plurality of used plastic syringes cover means (31) for selectively closing said open end of said cylinder chamber and a piston (19) slidably mounted in said cylinder (13) opposite said cover means (31) characterized in having a heating disc (33) for heating the syringes (15) in said chamber (14) to a temperature sufficient to permit remolding of the syringes (15) and in that said piston (19) is slidably mounted in said chamber (14) for compacting the heated syringes (15) in said chamber (14) against said cover means (31) under a pressure sufficient to remold the heated syringes into a set compacted mass.

Classifications:
International (IPC 8-9): A61M5/00 (Advanced/Invention);
A61M5/00 (Core/Invention)
International (IPC 1-7): A61M5/00

Family:

Publication number	Publication date	Application number	Application date
AU199055187 A1	19911121	AU19900055187	19900521

Priority:
AU19900055187 19900521

Probable Assignee: ARTHUR J YERMAN
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Inventor(s): (std): YERMAN ARTHUR J
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