

Search history

Search 1: CPC=(F23G1/00) (Results 808)
Search 2: 1 and PD<20170420 (Results 739)
Search 3: 2 and (channel* or passage*) (Results 172)
Search 4: 2 and alkaline (Results 6)

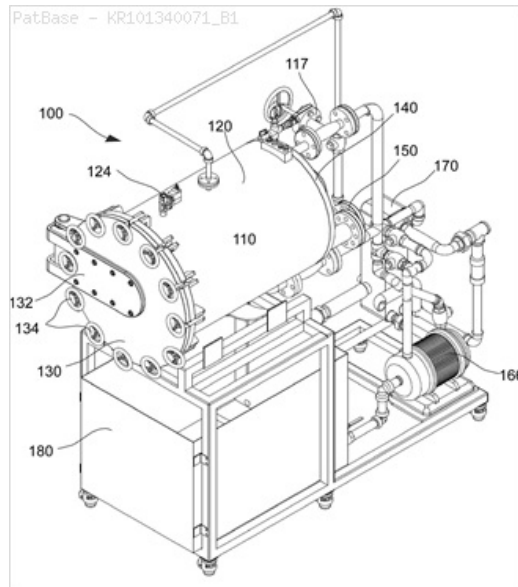
Title: **ALKALINE** HYDROLYSIS METHOD AND APPARATUS FOR TREATMENT OF ANIMAL CARCASSES

Abstract: The present invention relates to method and apparatus for treating animal carcasses by **alkaline** hydrolysis, comprising the steps of: injecting animal carcasses into a reaction chamber; filling the reaction chamber with reaction water comprising a fixed concentration of hydrolysis **alkaline** solution and water; applying pressure to the inside of the chamber by sealing the chamber and heating the reaction water; performing the hydrolysis for the animal carcasses by stirring them for a fixed time; performing a first neutralization by aerating with CO₂ gas through lowering the pressure and temperature of the hydrolyzed carcass treatment solution; and performing a second neutralization by adding a citric acid neutralizer after discharging the first neutralized solution to a storage tank. The present invention liquefies the animal carcasses by using an **alkaline** hydrolysis solution in the reaction chamber, and neutralizes the liquefied carcass treatment solution with CO₂ gas and citric acid, which does not generate pollutants. In addition, the processing energy can be saved by reducing the incinerating and cremating time, and the liquefied carcass solution can be used for organic matter liquid fertilizer by being neutralized into pH7.

Classifications:

International (IPC 8-9): B09B3/00 C05F1/00 (Advanced/Invention)

CPC: Y02A40/201 Y02A40/203 B09B3/0083 B01F7/02 B01F11/02 B08B3/02 C02F1/66 C05F1/007 F23G1/00 F26B9/08 Y02W30/20 Y02W30/50



Family:

Publication number	Publication date	Application number	Application date
KR101340071 B1	20131211	KR20130034828	20130329

Priority:

KR20130034828 20130329

Probable Assignee: STI CO LTD

Assignee(s): (std): STI CO LTD

Assignee(s): STI CO

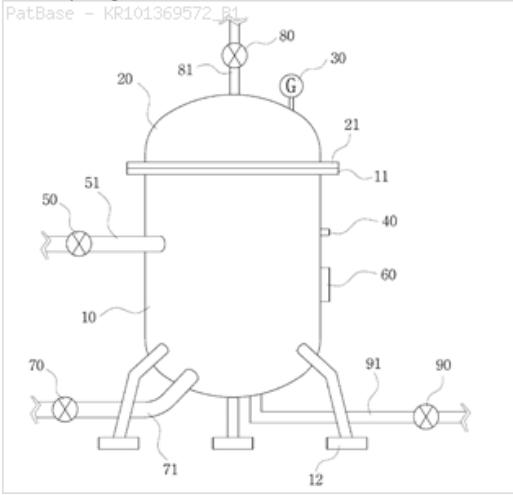
Inventor(s): (std): BAE HYUN SU ; JANG YUN JAE ; LEE GA HYEONG ; SEO TAE IL

Title: AN APPARATUS FOR DISPOSAL OF THE LIVESTOCK CARCASS

Abstract: A disposal apparatus for livestock carcasses according to the present invention includes: a reactor for holding livestock carcasses to separate; an **alkaline** supply unit for supplying **alkaline** to the reactor to separate the livestock carcasses; a heater unit for supplying heat; and a gas supply unit for supplying carbon dioxide gas to the reactor to neutralize by-products produced during the livestock carcass disposal process. Accordingly, the disposal apparatus for livestock carcass according to the present invention has fast and eco-friendly disposal process that separates livestock carcasses into a liquid phase using strong **alkaline** in the reactor under high-temperature and high-pressure conditions. Furthermore, the disposal apparatus for livestock carcass according to the present invention, which injects carbon dioxide gas into the reactor in which the livestock carcasses have separated into liquid phase to neutralize the pH of the separated liquid phase by-products through chemical reaction, has an advantage that the separated liquid phase by-products may be recycled as a liquid fertilizer and the like, thereby reconsidering resource recycling.

Classifications:

International (IPC 8-9): B09B3/00 (Advanced/Invention)
CPC: B09B3/0083 C05F1/02 F23G1/00 F23G2900/7003 F26B3/02 F26B2200/04 F26B2200/18



Family:

Publication number	Publication date	Application number	Application date
KR101369572 B1	20140306	KR20130134006	20131106

Priority:

KR20130134006 20131106

Probable Assignee: UNIV SUNCHON NAT IND ACAD COOP

Assignee(s): (std): ACADEMIC COOPERATION FOUNDATION OF SUNCHON NATIONAL UNIV IND ; UNIV SUNCHON NAT IND ACAD COOP

Assignee(s): ACADEMY COOPERATION CORPS OF SUNCHON NATIONAL UNIV IND ; INDUSTRY ACADEMY COOPERATION CORPS OF SUNCHON NATIONAL UNIVERSITY

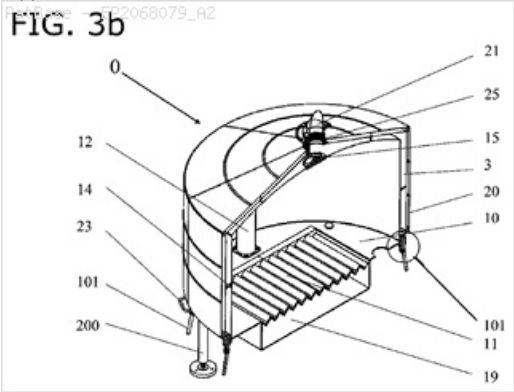
Inventor(s): (std): CHO JU SIK ; KANG SE WON ; KANG SEOG JIN ; LEE SANG GYU ; PARK JU WANG ; SEO DONG CHEOL ; SEO YOUNG JIN

Title: COMBUSTION DEVICE

Abstract: The device (0) has a ventilation channel (21) arranged on an outer chamber (2) and directly or indirectly arranged in a combustion chamber (1), such that oxygen-containing ambient air in a positively driven flow path is guided into the combustion chamber through an intermediate chamber and an outer surface of the combustion chamber. The outer chamber is mounted, such that the intermediate chamber is formed between outer surfaces of a side wall and a cover of the combustion chamber and inner surfaces of a lateral cover wall and an upper cover wall of the outer chamber.

Classifications:

International (IPC 8-9): F23G1/00 F23G5/00 F23G5/24 F23G5/40 F23G7/00 (Advanced/Invention); F23G1/00 F23G5/00 F23G5/24 F23G5/40 F23G7/00 (Core/Invention)
CPC: F23G2900/7009 F23G1/00 F23G5/24 F23G2202/30 F23G2203/00 F23G2204/101 F23G2206/10 F23G2209/20 F23G2900/50804 F23G2900/55001
European: F23G1/00 F23G5/24 R23G202/30 R23G203/00 R23G204/101 R23G206/10 R23G209/20 R23G900/50804 R23G900/55001 R23G900/70009



Family:

Publication number	Publication date	Application number	Application date
CH700435 B1	20100831	CH20070001878	20071205
DE202008004723 U1	20080626	DE200820004723U	20080405
EA200802286 A1	20090630	EA20080002286	20081204
EP2068079 A2	20090610	EP20080169351	20081118

Priority:

CH20070001878 20071205

Probable Assignee: IVAN BELONOGOV

Assignee(s): (std): IVAN BELONOGOV ; MONA INTELECCTUAL PROPERTY EST ; MONA INTELLECTUAL PROPERTY EST
Assignee(s): MONA INTELLECTUAL PROPERTY ESTABLISHMENT ; MONA INTELECCTUAL PROPERTY ESTABLISHMENT
Inventor(s): (std): BELONOGOV IVAN ; GANIEV YURIY ; NOSKOV ALEXANDER ; TARTYNOV IGOR
Inventor(s): YURIY GANIEV ; IGOR TARTYNOV ; ALEXANDER NOSKOV
Agent(s): SCHNEIDER FELDMANN AG PATENT- UND MARKENANWAELTE
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 MK MT NL NO PL PT RO RS SE SI SK TR

Title: Process to manufacture cremation coffin incorporating substantial portion of glass

Abstract: A coffin destined with its contents for cremation is manufactured from a wood-based material also incorporating a substantial amount of quartz and similar particles, rendering the ashes suitable for vitrification. The additives chosen also predispose the resultant glass to a subsequent glass craft process.

Classifications:

International (IPC 8-9): F23G1/00 F23G5/02 (Advanced/Invention);

F23G1/00 F23G5/02 (Core/Invention)

International (IPC 1-7): F23G1/00

CPC: F23G5/02 F23G1/00 F23G2201/701 F23G2202/104 F23G2900/7009

European: F23G1/00 F23G5/02 R23G201/701 R23G202/104 R23G900/70009

Family:

Publication number	Publication date	Application number	Application date
DE10061117 A1	20020613	DE20001061117	20001207
DE20023905 U1	20070614	DE20002023905U	20001207

Priority:

DE20001061117 20001207

DE20002023905U 20001207

Probable Assignee:

WIEMER KLAUS

Assignee(s): (std):

WIEMER KLAUS

Title: CONVERSION OF ANIMAL WASTES AND CARCASSES INTO FUEL, COMPRISES COMMUNITING TO WET SLURRY, MIXING WITH DRY MATERIAL, TRANSPORTING IN CLOSED SYSTEM, STORING AND COMBUSTING

Abstract: Waste, including carcasses, is comminuted to a wet slurry and mixed with dry material. Transported in a closed system, it is stored, then supplied under pressure to a combustion process. An Independent claim is included for plant carrying out the above process and for the fuel produced. Formation of the mixed, pumped fuel, is effected in a closed system, from raw materials basin to transport silo storage. Metering and introduction into combustion, employs a high pressure pump connected to a pressure line in a closed system. Preferred Features: Cadaver processing requirements at TBA (Tierkörper Beseitigungs Anstalten - animal cadaver disposal establishments) are simplified and changed to suit only the requirements of a product for combustion. These requirements no longer focus on optimum separation into animal meal, fat etc, but on the required combustion properties. The feedstock is a mixture of animal meal and meat slurry. There is no requirement to produce a very dry animal meal, and separately other products such as animal fat, which are then burned. Current rising quantities of stored, contaminated animal meal are removed with prion-contaminated hazardous material and animal carcasses, economically, in complete safety and in a controlled manner.

Classifications:

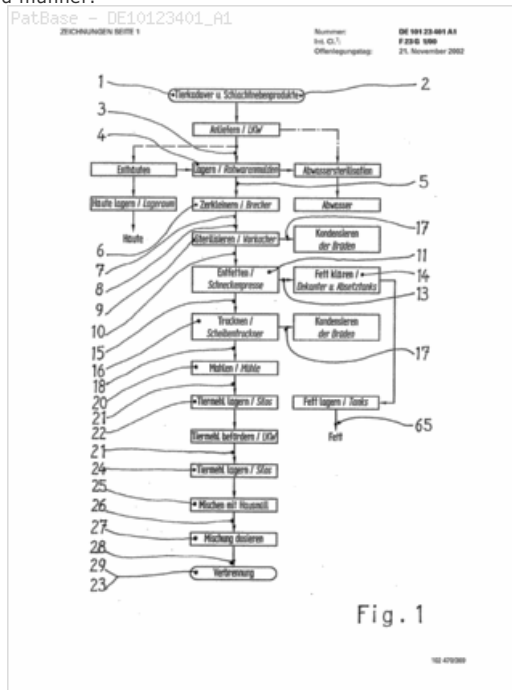
International (IPC 8-9): C10L5/42 F23G1/00 (Advanced/Invention);
C10L5/40 F23G1/00 (Core/Invention)

International (IPC 1-7): C10L5/00 C10L9/00 F23G1/00

CPC: C10L5/42 F23G1/00 F23G2900/7002 F23G2900/7004

F23G2900/7009 Y02E50/10 Y02E50/30

European: C10L5/42 F23G1/00 R23G900/70002 R23G900/70004
R23G900/70009 Y02E50/10 Y02E50/30



Family:

Publication number	Publication date	Application number	Application date
DE10123401 A1	20021121	DE20011023401	20010514

Priority:

DE20011023401 20010514

Probable Assignee:

SCHILP REINHOLD

Assignee(s): (std):

SCHILP REINHOLD

Inventor(s): (std):

SCHILP REINHOLD

Title: ANIMAL HAIR WASTE TREATING APPARATUS AND METHOD

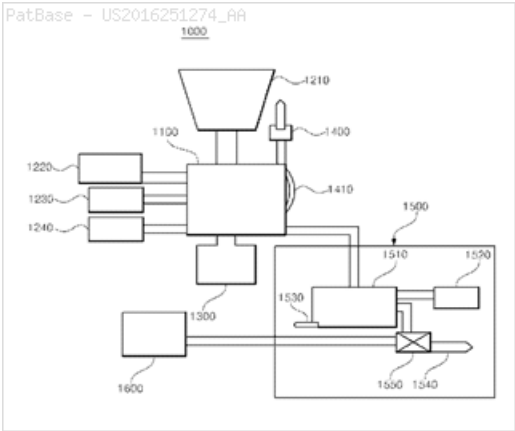
Abstract: Provided is an animal hair waste treating apparatus, which is intended to dissolve and treat animal hair waste, the apparatus including: a first treatment container configured to inject the animal hair waste and a treating solvent and to be heat-treated; a heating unit for heating the first treatment container; an animal hair waste storage and supply unit supplying the animal hair waste to the first treatment container; a treating solvent storage and supply unit supplying the treating solvent to the first treatment container; and a solid treating unit configured to neutralize the treating solvent and to filter and discharge remaining solids after treatment of the animal hair waste.

Classifications:

International (IPC 8-9): B09B3/00 C05F1/00 (Advanced/Invention)

CPC: C05F1/00 D06M19/00 D06M11/13 D06M11/55 D06M11/64 D06M2101/12 Y02P20/145 Y02A40/201 B09B3/00 B09B3/0083 B09B3/0016 B01D35/02 C02F1/66 F23G1/00 F23G5/00 F23G2900/7003 Y02W30/20 Y02W30/50

US: 71/18



Family:

Publication number	Publication date	Application number	Application date
KR101373660 B1	20140313	KR20130122354	20131015
US2016251274 AA	20160901	US20140021703	20140602
WO15056860 A1	20150423	WO2014KR04882	20140602

Priority:

KR20130122354 20131015 WO2014KR04882 20140602

Probable Assignee: GIDICHEM CO LTD

Assignee(s): (std): GIDICHEM CO LTD ; PRIVATE CO GREEN WORLD

Assignee(s): PRIVATE COMPANY GREEN WORLD ; GIDICHEM CO

Inventor(s): (std): LEE YOUN WOO ; OH MI HYE ; RYU NA HYEON ; RYU YEON SUK ; RYU YEON SEOK

Agent(s): KIM IN HAN ET AL

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 IR IS IT JP KE KG KM KN KP 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 PA PE PG PH PL PT QA RO RS RU RW SA 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