

[SS 10] ..fi epodoc



Database: EPODOC

[EPODOC: SS 10] chamber and pollution and air

Results in EPODOC 9.165

[SS 11] * and sprinkle+

Results in EPODOC 22

[SS 12] ..li



1/22 © EPODOC / EPO

PN - [CN207056745U](#) U 20180302

PR - CN20172908520U 20170725

AP - CN20172908520U 20170725

DT - I

PA - ZHU JIE

TI - Building garbage crusher device with dust removal function

AB - The utility model relates to an architectural equipment technical field, and disclose a building garbage crusher device with dust removal function, including the box, the inner **chamber** through connection at box top has an inlet tube, and the one end fixedly connected with **sprinkler** bead of inlet tube, one side from the top down of box be fixedly connected with intake fan and blow off pipe respectively, and intake fan keeps away from the inside fixedly connected with adsorbed layer of the one end fixedly connected with blast pipe of box, blast pipe. This building garbage crusher device with dust removal function, pass through intake fan, the blast pipe, cooperation between the adsorbed layer, the dust that flies away in the time of can be with the breakage filters in inhaleing the blast pipe, the protection **air** does not receive the **pollution**, finishing, the breakage pass through the inlet tube after, the **sprinkler** bead, and the cooperation between the blow off pipe, can wash the dust ofconstructing garbage crushing device inside, the cleanness of the internal portion of guard box, prevent that the box from being construct rubbish and corroding, the service life of building garbagecrusher device is prolonged.

2/22 © EPODOC / EPO

PN - [CN107569155](#) A 20180112

PR - CN20171953977 20171013

AP - CN20171953977 20171013

DT - I

PA - SUN BINGJIE

TI - Solar compost type toilet with shower function

AB - The invention provides a solar compost type toilet with a shower function. The solar compost type toilet with the shower function comprises a toilet house, a compost barrel, a padding barrel and a reclaimed water barrel, wherein a push-and-pull door which can be opened and closed is arranged on a side wall of the toilet house; a solar water storage **chamber** is further arranged on the top of the toilet house; a solar water bag is arranged in the solar water storage **chamber**; a **sprinkler** which communicates with the solar water bag is mounted in the toilet house; the compost barrel is placed in the toilet house; the inside of the compost barrel is divided into an upper cavity and a lower cavity which communicate with each other by a partition with through holes; the lower end of the padding barrel extends into the upper cavity; a barrel cover which can be opened and closed is arranged at the lower end of the padding barrel; and the reclaimed water barrel communicates with the lower cavity through a retractable tube. By the solar compost type toilet with the shower function, compost is closed by microorganisms existing in the nature or microorganisms released manually, pathophoresis is avoided, and the compost returns to the fields after being decomposed. Crushed straws and chippings are used as padding, **air pollution** caused by incineration is avoided, organic circulation of nutrients is realized, and the problem that the traditional pit toilet is dirty, disorderly and bad is solved thoroughly.

3/22 © EPODOC / EPO

PN - [CN206736820U](#) U 20171212

PR - CN20172601950U 20170526

AP - CN20172601950U 20170526

DT - I

PA - SUQIAN JIELI MUNICIPAL MACHINERY CO LTD

TI - Sweeping machine case dust device that gathers materials

AB - The utility model discloses a sweeping machine case dust device that gathers materials, which comprises an outer shell, install the water tank in the middle part inner **chamber** of shell, the inner **chamber** bottom fixed mounting of water tank has the water pump, one side of water pump leads to pipe and **sprinkler** bead fixed connection, the middle part downside fixed mounting of shell has the suction nozzle, the upside of suction nozzle passes through bellows and tuber pipe fixed connection, the inner **chamber** upper portion fixed mounting of storage case has the otter board, the bottom fixedly connected with header tank of storage case, the inner **chamber** upper portion fixed mounting of shell has fan and driving motor, the **air** -out end fixedly connected with gas vent of fan, the **air** inlet end fixed mounting of fan has **air** filter, there is the hatch door on the right side of storage case through support movable mounting, the upper portion fixed connection of support and cabin door opening device and shell is passed through on the upper portion of hatch door. The utility model discloses simple structure carries out dust lowering processing to the rubbish of absorbing, prevents that the dust from getting into the **air**, to environment secondary **pollution**.

4/22 © EPODOC / EPO

PN - [CN107023848](#) A 20170808

PR - CN20171382667 20170526
 AP - CN20171382667 20170526
 DT - I
 CNOI - [F23J15/04](#)
 PA - HUANG FUYI
 TI - Novel water spray type dust removing chimney
 AB - The invention discloses a novel water spray type dust removing chimney which comprises a chimney body, wherein an **air** blower is arranged at one end, connected with a cooking range, of the chimney body; the chimney body is transversely arranged; the end, connected with the cooking range, of the chimney body is higher than the other end; a sprinkling **chamber** is arranged at the middle section of the end, connected with the cooking range, of the chimney body; a **sprinkler** head is arranged at the top in the sprinkling **chamber**; the **sprinkler** head is connected with one end of a water pipe; the other end of the water pipe extends out of the sprinkling **chamber** wall; drainage outlets are formed in the bottom in the sprinkling **chamber**; the drainage outlets are connected with drainage pipes to extend out of the sprinkling **chamber** wall. With the adoption of the novel water spray type dust removing chimney, the **pollution** of dust and coke tar to the **air** is greatly reduced, the environmental protection effect is remarkable, the chimney is simple in structure and convenient to mount, and can be extensively applied to various stoves and blast furnaces.

5/22 © EPODOC / EPO

PN - [CN206366903U](#) U 20170801
 PR - CN20162773690U 20160722
 AP - CN20162773690U 20160722
 DT - I
 PA - SHANGHAI DASONG CORRUGATING ROLL IND CO LTD
 TI - A tungsten carbide spraying and surface finish device for flute roller
 AB - The utility model discloses a tungsten carbide spraying and surface finish device for flute roller, spout device and burnishing device including scribbling, it is equipped with working **chamber** and garbage collection **chamber** in the device to scribble to spout, the working **chamber** top is installed two supersonic flame and is scribbled tungsten equipment, and every supersonic flame scribbles first guide rail and spray gun sliding connection that tungsten equipment all was equipped with bottom it, spray gun one end is connected with multi -orifice **sprinkler** head, be equipped with the roll body in the working **chamber**, and the roll body both ends are run through to scribble through the pivot and are spouted the device inner wall and be connected with gear motor, be formed with the tungsten carbide particle between roll body surface and the multi - orifice **sprinkler** head, fixed mounting had the **air** gun in supersonic flame scribbled the working **chamber** between the tungsten equipment, the burnishing device bottom is equipped with the base, base one end fixed mounting has the second chuck, the utility model discloses use the tungsten carbide top layer and improve the finish of flute roller to replace and electroplate the flute roller, in the elimination electroplating flute roller production process, the **pollution** of chromic acid, it is healthy to avoid seriously haring people.

6/22 © EPODOC / EPO

PN - [CN106731383](#) A 20170531
PR - CN201611203453 20161223
AP - CN201611203453 20161223
DT - I
CNOI - [B01D50/00](#)
PA - HARBIN HENGYU MINGXIANG TECHNOLOGY CO LTD
TI - Recovery system for soot in boiler waste gas
AB - A recovery system for soot in boiler waste gas comprises a recovery system body, wherein an electrostatic dust **chamber** is arranged at the upper end of the recovery system body; a soot recovery **chamber** is arranged at the lower end of the recovery system body; a dust bin is arranged at the upper end of the electrostatic dust **chamber**; a dust hopper is arranged at the lower end of the electrostatic dust **chamber**; the bottom of the electrostatic dust **chamber** is connected with the middle of the top of the soot recovery **chamber** through a discharge pipe; an atomizing **sprinkler** is arranged on the left side of the soot recovery **chamber**; a bin door is arranged on the right side of the soot recovery **chamber**; a base is arranged at the bottom of the soot recovery **chamber**; an ash-in net is arranged at the inner top end of the soot recovery **chamber**; a dust box is arranged at the inner bottom end of the soot recovery **chamber**. The recovery system for soot in boiler waste gas fully collects and effectively recovers soot in waste gas, not only avoids **air pollution** caused by direct discharge of waste gas but also fully recovers soot, is low in recovery cost, simple to operate and higher in resource utilization ratio, and is environment-friendly, efficient and energy-saving.

7/22 © EPODOC / EPO

PN - [CN206008388U](#) U 20170315
PR - CN20162964833U 20160829
AP - CN20162964833U 20160829
DT - I
PA - ZHEJIANG TENGMA TEXTILE CO LTD
TI - Weaving mill **air** purification device
AB - The utility model relates to a weaving mill **air** purification device, include tuyere, sealing **chamber**, filter **chamber**, process **chamber**, separator, cistern, remove the water cavity and purify the **chamber**, the top of tuyere is provided with the fan, is connected with the trachea between tuyere and the sealing **chamber**, and the inside screen cloth that is provided with of sealing **chamber**, and the below of sealing **chamber** is connected with the **air** flue, the **air** flue other end and process **chamber** link to each other, and the filter **chamber** is located the central authorities of **air** flue, the inside separating layer that is provided with of filter **chamber**, be connected with the water pipe between process **chamber** and the separator, the inside of process **chamber** is provided with **sprinkler** head and inductor, the below of separator is connected with the cistern, and the top of separator is connected with the blast pipe, and the central authorities of blast pipe are provided with except that water cavity and purification **chamber**, this weaving mill **air** purification device can weaving the produced harmful gas of in -process with the yarn and carry out purification treatment,

the effectual environmental **pollution** who weavings the in -process that has avoided, very big assurance to weaving the producer's the person healthy.

8/22 © EPODOC / EPO

- PN - [KR101591226B](#) B1 20160202
- PR - KR20150069764 20150518
- AP - KR20150069764 20150518
- DT - I
- PA - BAE SONG SOON [KR]
- TI - A APPARATUS OF CLEANING **AIR** DUST
- AB - The present invention relates to an apparatus of cleaning **air** dust comprising: a float member floating on water; an **air** duct having a rectangular cross-section, and arranged in a longitudinal direction in the upper surface of the float member; an exhaust **chamber** where a plurality of exhaust fans are arranged in three directions in front of the **air** duct, and for discharging **air** to an outside; an **air** trap for separating **air** in water; a cleaning room where a sprinkling bath including a plurality of sprinkling nozzles in a V-groove of a bottom is arranged in the upper part of an **air** duct, and for cleaning **air** dust; a horizontal **sprinkler** and a vertical **sprinkler** equipped in the cleaning room for spreading water; a plurality of lift pumps arranged outside the **air** duct to supply water to the sprinkling bath; and a control box in which a computer program for remotely unattended operation is embedded. According to the present invention, the **air** dust cleaning apparatus is arranged in a water-rich river or a water-rich lake or on water of a water tank by a float member. If **air** dust is severe in an alert level, an operation signal is remotely transmitted to a control box through wireless frequency from a management office, thereby operating an exhaust fan and a lift pump in an unattended method. Therefore, **air** dust guided in an entrance of an **air** duct is cleaned by water sprayed from a sprinkling bath, thereby reducing atmospheric **pollution**.

9/22 © EPODOC / EPO

- PN - [CN204756960U](#) U 20151111
- PR - CN20152487458U 20150708
- AP - CN20152487458U 20150708
- DT - I
- CCA - [Y02E20/363](#)
- PA - LIU GANG
- TI - Can handle environmental protection boiler of tail gas
- AB - The utility model discloses a can handle environmental protection boiler of tail gas, include boiler body, hot plate, settling cask, clean room and leak the hole, boiler body has furnace and a flourishing water cavity, and flourishing water cavity sets up in furnace body body front upper place, and the hot plate setting is in the centre of furnace with flourishing water cavity, boiler body's top is equipped with the exhaust port, and the exhaust port is equipped with the mechanism of bleeding through union coupling to the settling cask of discharging fume, the gas vent connection of subsiding tank bottom end, and the top of settling cask gas outlet is located to the **air** inlet of settling cask,

the **air** inlet and the mechanism's intercommunication of should bleeding of clean room, and the settling cask top is located to the **air** inlet of above -mentioned settling cask. The utility model discloses thereby particulate matter, dust of its inside of the settling cask that sets up can subside by oneself realizes the one -level dust removal, and the settling cask lateral wall is equipped with the bleed mechanism and the sky that removes dust, carries out the **pollution** of second grade dust removal, reduction environment to the dust that produces, the **sprinkler** pipe and the grit **chamber** inboard that set up are integrative structures to durable more.

10/22 © EPODOC / EPO

PN - [CN204745980U](#) U 20151111
 PR - CN20152319397U 20150518
 AP - CN20152319397U 20150518
 DT - I
 PA - GUANGZHOU YILING AIR CONDITIONING ENGINEERING CO LTD
 TI - Dust removal adsorption equipment is filtered to wave band formula
 AB - The utility model relates to a dust removal adsorption equipment is filtered to wave band formula, its technical scheme is: including the box, the bottom of box is equipped with the **air** intake, and the top of box is equipped with the **air** outlet, and the bottom of box is equipped with the deposition **chamber**, the bottom in deposition **chamber** be equipped with ash material conveyer belt, the inside of box be equipped with the bellows, the inside net that adsorbs of bellows, the top of box is equipped with spouts wet unit, the wet unit that spouts include water pocket, spray pipe, **sprinkler** bead, the water pocket is through spouting the water piping connection **sprinkler** bead, the beneficial effects of the utility model are that: it is simple that the purification and dust removal ware purifies the cleaning, and the operating is simplified process has improved the mass of exhaust of flue gas, has alleviated the **pollution** to the environment.

11/22 © EPODOC / EPO

PN - [CN204523111U](#) U 20150805
 PR - CN20152202561U 20150403
 AP - CN20152202561U 20150403
 DT - I
 PA - GUANGDONG MEIYAN JIXIANG HYDROPOWER CO LTD
 TI - Cement raw material grinds machine
 AB - The utility model discloses a cement raw material grinds machine, the novel nipple rectifier comprises a cylindrical shel, the barrel includes the strutting piece, casing and shell body in install respectively at the strutting piece both ends, still be equipped with buffer layer and amortization layer between interior casing and the shell body, **air** supply arrangement and exhaust treatment device are installed respectively to the both ends of barrel, exhaust treatment device includes the casing, the inner **chamber** of casing is divided into becoming upward cavity and lower cavity, the upper portion of lower cavity is provided with the feed pipe, the lower extreme of feed pipe is provided with **sprinkler**, go up the inner **chamber** of cavity and install adsorption equipment and ultraviolet lamp, the utility model discloses a buffer layer and amortization layer are

reduced and are ground quick-witted noise anecdotes, the whole noise of reduction equipment, and the exhaust treatment device who installs additional makes the output of dust reduce in a large number through water-soluble and absorbent mode, and the effectual degree that reduces environmental **pollution** has improved environmental quality.

12/22 © EPODOC / EPO

PN - [CN104058480](#) A 20140924

PNFP - CN104058480B B 20150902

PR - CN2013187976 20130319

AP - CN2013187976 20130319

DT - I

CT - || STSE (A)

[CN203200062U](#) U 20130918 [] (SUN HONGMEI)

[] 1-10

权利要求1-10

[CN101148285](#) A 20080326 [] (UNIV ZHEJIANG [CN])

[] 1-11

具体实施方式

[CN1450002](#) A 20031022 [] (SHANGHAI FUJIE ENVIRONMENT SCI [CN])

[] 1-11

具体实施方式

PA - (A)

SUN HONGMEI

TI - (A)

Low-pressure discharge plasma water treating apparatus and method

AB - (A)

The invention relates to a low-pressure discharge plasma water treating apparatus, mainly comprising a discharge power supply, a high voltage electrode, a reactor, an atomization **sprinkler**, a water inlet pipe, a water outlet pipe, a water flow monitor, an **air** exhaust pipe, an **air** valve, a vacuum pump, a sewage pool and a clean water reservoir. According to the invention, without a water pump, a low pressure environment in the reactor can be maintained via only one vacuum pump under the condition that water flows through the reactor; electro-discharge is carried out in the low pressure environment, and large-volume, high-activity and non-thermal equilibrium plasma is generated; the treating apparatus can effectively remove **pollution** sources like heavy metal ions, organic matters and microbes in water, has high treatment efficiency, is generally applicable to sewages having different **pollution** degrees and produced by different industries and provides activated water for special industries. The invention further relates to a plasma water treating method which realizes low pressure discharge under the condition that a water cycle between the interior of the reaction **chamber** and the outside is maintained without usage of a forced exhaust type water pump. With the method, system energy consumption is greatly reduced.

13/22 © EPODOC / EPO

PN - [CN103961963](#) A 20140806

PNFP - CN103961963B B 20160113

PR - CN20141189574 20140507

AP - CN20141189574 20140507

DT - I

CT - || STSE (A)
[CN200995185Y](#) Y 20071226 [Y] (BIYADI CO LTD [CN])
[Y]
[CN2785691Y](#) Y 20060607 [Y] (TONG SHANGYUAN [CN])
[Y]
[WO9919047](#) A1 19990422 [A] (GEN SIGNAL CORP [US])
[A]
[CN102989300](#) A 20130327 [A] (KUNMING YEYAN NEW MATERIAL CO LTD)
[A]
[CN203803318U](#) U 20140903 [R] (SUZHOU HUANGSEN ELECTRICAL AND MECHANICAL TECHNOLOGY CO LTD)
[R]
[CN201901460U](#) U 20110720 [A] (CISDI ENG CO LTD)
[A]

PA - (A)
SUZHOU HUANGSEN ELECTROMECHANICAL TECHNOLOGY CO LTD

TI - (A)
Systematic dust collector

AB - (A)
The invention relates to the technical field of environmental protection, in particular to a systematic dust collector, which comprises an induced draft fan, an **air** main and a dust **chamber**, wherein one end of the **air** main stretches into the dust **chamber**; the **air** main is located below a **sprinkler**; a filter layer is arranged at the upper end of a water tank; guide rails are symmetrically arranged on the transverse side walls of the water tank; a scraper is arranged above the filtering layer; the two sides of the scraper are fixedly connected with moving arms; grooves matched with the guide rails are arranged at the bottom ends of the moving arms; and the longitudinal side wall at one end of the water tank is inclined inwards, and the inward inclination angle is at least 60 degrees. The systematic dust collector further comprises a conveying device, wherein one end of the conveying device stretches into the dust **chamber** to contact with the inward inclined face of the water tank, and a dust collection bucket is arranged at the other end of the conveying device. When the systematic dust collector is used, not only the dust collection problem can be solved but also secondary **pollution** can be avoided in the collection process of dust; and meanwhile, the dust processing and collection efficiency can be improved. The systematic dust collector has the advantages of simple structure, rational setting, low manufacturing cost and the like.

14/22 © EPODOC / EPO

PN - [CN103881734](#) A 20140625

PR - CN20141121311 20140328

AP - CN20141121311 20140328

DT - I

CT - || STSE (A)
[CN201024089Y](#) Y 20080220 [Y] (GUIFA LIU [CN])
[Y] 1-2
说明书第3页第2段
[CN1958722](#) A 20070509 [] (HE XIANGHUA [CN])
[] 1-4
说明书第1页第4段,第2页具体实施方式
[CN1958722](#) A 20070509 [Y] (HE XIANGHUA [CN])
[Y] 1-4
说明书第1页第4段,第2页具体实施方式,说明书附图
[US4106998](#) A 19780815 [] (OKADA YUTAKA, et al)
[] 1-4
全文
[CN2823260Y](#) Y 20061004 [] (LU XIAOQI [CN])
[] 1-4
全文
[CN203855549U](#) U 20141001 [R] (JIANGSU KONGQUESHI NEW ENERGY SCIENCE & TECHNOLOGY CO LTD)
[R] 2
权利要求1

PA - JIANGSU KONGQUESHI NEW ENERGY TECHNOLOGY CO LTD

TI - Closed safe wet quenching pre-negative-pressure device

AB - The invention discloses a closed safe wet quenching pre-negative-pressure device. Particularly, a quenching car of a coke quenching device enters a sealed space, namely a coke quenching **chamber**, and automatic doors are arranged at two sides of the coke quenching **chamber**. The automatic doors at two sides are closed when the quenching car completely enters the coke quenching **chamber**; an automatic valve is arranged on a connecting pipeline between the coke quenching **chamber** and a vacuum storage tank, and is turned on when the automatic doors of the coke quenching **chamber** are closed; a vacuum pump vacuumizes the large storage tank, and simultaneously extracts **air** inside the coke quenching **chamber**. High-temperature coke of the quenching car and spray water of a **sprinkler** generate a water gas to form pressure. The vacuum pump exhausts the quenching **chamber**, and simultaneously can extract generated water gas, so that the quenching car is kept in a negative pressure state. The water yield of the **sprinkler** is controlled, and the generated water gas and the extracted water gas can be exchanged, so that the safety is greatly improved, a harmful substance generated by quenching is not released to an atmospheric layer, and the environmental **pollution** is relieved.

15/22 © EPODOC / EPO

PN - [CN103452068](#) A 20131218

PNFP - CN103452068B B 20160518

PR - CN20131394147 20130903

AP - CN20131394147 20130903

DT - I

CT - || STSE (A)
[CN2683697Y](#) Y 20050309 [XY] (SHANDONG LUFENG SPECIAL PURPOS [CN])

[X]
[Y]
[US5522543](#) A 19960604 [A] (HERZOG WILLIAM E [US])
[A]
[CN2373693Y](#) Y 20000412 [A] (ZHANG WEIQUN [CN])
[A]
[CN201014524Y](#) Y 20080130 [A] (AIHAITI AILI [CN])
[A]
[CN2152593Y](#) Y 19940112 [A] (INST OF METALLURG BAOTOU IRON [CN])
[A]
[CN2113827U](#) U 19920826 [Y] (GUO JIUQING [CN])
[Y]
[CN201909324U](#) U 20110727 [A] (NANJING RES INST OF ENVIRONMENTAL PROT)
[A]
[CN203530906U](#) U 20140409 [R] (HUBEI TRI RING SPECIAL TRUCK CO LTD)
[R] 1-2
权利要求1-2
[CN1605401](#) A 20050413 [A] (INST PROCESS ENG CAS [CN])
[A]

PA - (A)
HUBEI TRI RING SPECIAL TRUCK CO LTD

TI - (A)
Sprinkler with heating system

AB - (A)
The invention relates to a **sprinkler** with a heating system. The technical key points of the **sprinkler** with the heating system are as follows: the heating system is additionally arranged at the tail part of a tank body of a common **sprinkler**; the structure of the heating system is that a rectangular space is additionally arranged in the tail part of the tank body of the common **sprinkler** and is of two layers, the middle part of the rectangular area is separated by a filtering layer, the upper layer of the rectangular area is a combustion **chamber**, and the lower layer of the rectangular area is an ash collection **chamber**; a circulation pipeline is arranged in the tank body, a hot gas outlet of the combustion **chamber** is connected with the circulation pipeline, a dust removing device is connected with the tail end of the circulation pipeline and is communicated with a chimney at the top of the tank body, and hot gas after being combusted enters the dust removing device to be treated and enters the chimney to be discharged into the atmosphere after passing through the circulation pipeline. The **sprinkler** with the heating system, which is disclosed by the invention, is mainly applied to areas with low **air** temperature; the heat generated by the comburentacts on the tank body to be capable of effectively preventing water in the tank body from icing, so that the operating performances of the **sprinkler** are improved, and meanwhile, the service life of the **sprinkler** is prolonged; the dust removing device in the combustion room can effectively purify waste gas so as to greatly reduce the **pollution** of discharged waste gas to the environment.

16/22 © EPODOC / EPO

PN - [CN201371041Y](#) Y 20091230

PR - CN2009231969U 20090220

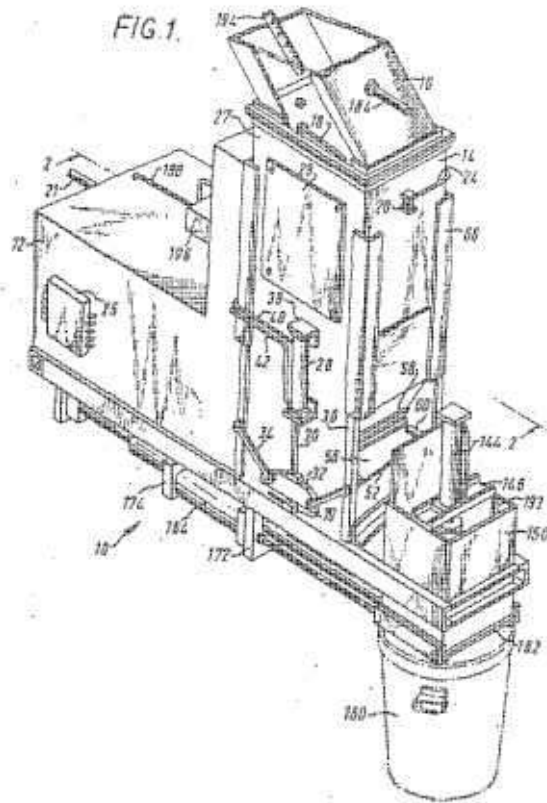
AP - CN2009231969U 20090220
 DT - I
 PA - UNIV XI AN JIAOTONG
 TI - Flue gas dust-removing and denitrifying device
 AB - The utility model discloses a flue gas dust-removing and denitrifying device. A denitrification **chamber** of the device is positioned above a dust removal **chamber**. A regenerated liquor reclamation **chamber** is arranged between the denitrification **chamber** and the dust removal **chamber**. A regenerated liquor **sprinkler** head is arranged at the top of the denitrification **chamber**. An inverted L-shaped **air** intake structure is arranged in the regenerated liquor reclamation **chamber** and is connected with a regenerated liquor outlet. A dust-removing cloth bag is arranged in the dust removal **chamber**, and a high-pressure pulse **air**-current back flushing pipe. The dust removal **chamber** is connected with a flue gas inlet and a dust discharge opening. The utility model integrates dust removal and denitrification and occupies only a small area. Regenerated liquor can be reclaimed so that no secondary **pollution** is generated.

17/22 © EPODOC / EPO

PN - [JPH04251132](#) A 19920907
 PNFP - JPH0762534B B2 19950705
 PR - JP19910148259 19910620; JP19900271517 19901009
 AP - JP19910148259 19910620
 DT - I
 FI - B03C3/019; B03C3/38; F24F1/00&371B; F24F6/16
 FT - 3L051/BC02; 3L055/BB02; 3L055/BB03; 3L055/DA04; 3L055/DA05; 3L055/DA06; 3L055/DA20; 4D054/AA15; 4D054/BA20; 4D054/CA10; 4D054/EA01; 4D054/EA08; 4D054/EA11; 4D054/EA22; 4D054/EA23; 4D054/EA30
 PA - (A)
 SHIN APETSUKUSU BOUEKI KK
 TI - (A)
 NEGATIVE ION **AIR** GENERATING DEVICE
 AB - (A)
 PURPOSE:To provide a negative ion **air** generating device having a relatively simple configuration and having a function of removing **air pollution** substance and another function of humidifying **air**. CONSTITUTION:A mist **chamber** 6 is disposed in a housing 1 provided with an **air** suction port 2 and an **air** discharging port 3, this mist **chamber** is provided with rotary plates 10 and 11 rotated by a motor 13, water is fed from a water supplying means 7 to the rotary plates, this water is **sprinkled** around it with a centrifugal force produced by the rotation of the rotary plates to atomize water, **air** sucked from the **air** suction port is contacted with the water particles to produce negative ion **air**, this negative ion **air** is supplied from the **air** discharging port. With such an arrangement, the water is **sprinkled** with the centrifugal force under the rotation of the rotary plates to make fine water particles and then the negative ions are given to the **air** under a Lenard effect.

18/22 © EPODOC / EPO

PN - [GB1333283](#) A 19731010
 PR - US19700081370 19701016
 AP - GB19710046557 19711006
 DT - **
 CCI - [B30B9/3078](#)
 PA - INT POLLUTION CONTROLS CORP
 TI - AUTOMATIC REFUSE
 COMPACTION SYSTEM
 AB - 1333283 Refuse compactors
 INTERNATIONAL **POLLUTION**
 CONTROLS CORP 6 Oct 1971 [16
 Oct 1970] 46557/71 Heading
 B8C An automatic refuse
 compaction system comprises a
 refuse-receiving duct 14, a
 compaction **chamber** 68 having
 an open lateral end, a
 discharge **chamber** 70 open to
 the lateral end, compaction
 means 75-78 movable
 transversely of the duct to push
 refuse through the
 compaction **chamber** into the
 discharge **chamber**,
 pneumatically operated valve
 means, pneumatically actuated
 control means pneumatically
 connected to the valve means for
 operating the same and fluid
 conducting means connecting
 the valve means in circuit with
 the compaction means for
 controlling and operating the
 same so that the compaction
 means 75-78 operates cyclically.
 As shown, refuse fed into a shoot
 16 is subjected to a first stage
 compaction in the
 compaction **chamber** 68 by
 plates 56 which are rotated
 between vertical and horizontal
 positions by double-acting
 pneumatic cylinders 28
 whereafter the refuse is pushed
 by an hydraulically operated
 ram 72 into the compaction and
 discharge **chamber** 70 from

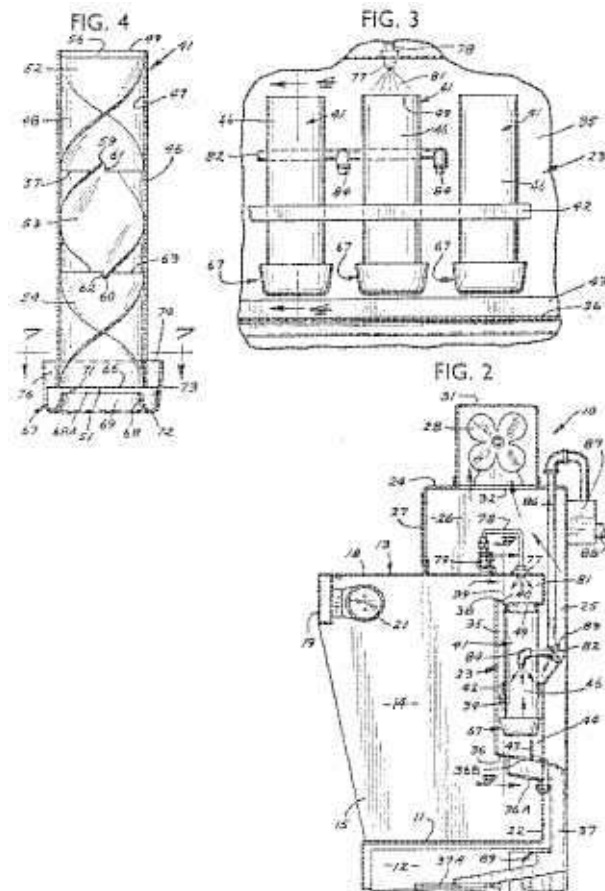


which it is discharged by a pneumatically-operated plate 140 through a sliding door 162 operated by pneumatically operated rods 166. Sensing rods 18 in the shoot 16 detect the presence of refuse passing into the shoot, the rods being connected to pneumatic switches 20 controlled by a pneumatically operated control circuit 204, Fig. 5 (not shown), in a housing 25. The apparatus is provided with a fire-extinguishing system comprising a pneumatically operated temperature responsive switch 175 which controls a **sprinkler** head 186 and which automatically moves the compactor plates to horizontal position to cut off **air** to any burning material in the **chamber** 68, and automatically advances the ram 72 to push such material into the **chamber** 70. Deflection of the rods 18 actuates a spray nozzle of a disinfectant spray unit fed from a tank 190 and a perforated pipe 194 periodically discharges insecticide into duct 16. An hydraulic pressure booster 100, fed from an hydraulic fluid tank 96, automatically boosts the pressure applied to the ram 72 if compaction is resisted by the lower pressure normally used. The apparatus, which is fully automatic in operation, is controlled by a programmed pneumatic circuit, described in detail with reference to Figs. 5 and 6 (not shown). Compressed **air** for the pneumatic operation is fed from a source remote from the apparatus and several units of the apparatus may be supplied with compressed **air** from a

common source, Fig. 7 (not shown), the control circuit 204 of each unit being connected directly to the air supply for operating the first stage of compaction as required and the second stage of compaction of each unit being connected to a selector (250) programmed to selectively pass air to one unit at a time.

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 PR - US19750555795 19750306
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 DT - **
 CCI - [B01D45/16](#) ; [F24C15/20](#)
 CCA - [Y10S55/36](#)
 PA - CENTURY 21 POLLUTION CONTROL
 TI - APPARATUS FOR SEPARATING FOREIGN MATTER FROM FLUID
 AB - 1536366 Centrifugal separators
 CENTURY 21 **POLLUTION**
 CONTROL INC 1 March 1976 [6
 March 1975] 08095/76 Heading
 B2P [Also in Division F4] An
 apparatus for separating foreign
 matter entrained in a fluid
 comprises a separator unit 41,
 Fig. 4, having a passage 48 with
 a fluid inlet 49 and a fluid outlet
 51, helical means located in the
 passage and consisting of
 helical elements 52, 53, 54
 which are angularly displaced
 relative to each other whereby
 fluid flowing through the
 passage follows a helical path
 and is divided successively into
 separate streams and the foreign
 matter is moved outwardly and
 in the direction of the flow of
 fluid through the passage, and a
 collector 67, adjacent the outlet
 51 of the passage, for foreign
 matter discharged from the end



of the passage. The fluid may be liquid or gaseous and the foreign matter may be solid, liquid or gaseous. A number of separator units 41, Figs. 2 and 3, form part of a hood assembly 10 located over a cooking plate or grill 11. The units are mounted in a **chamber** 35 located within a housing 13 and communicating via an opening 39 with a **chamber** 14 having an open front 15 and containing a light source 21. The **chamber** is also in communication via a clean **air** passage 25 with a **chamber** 26 which opens at 32 into a casing 31 containing two motor-driven exhaust blowers 28 and having clean **air** side outlets (33), Fig. 1 (not shown). Liquid may be introduced through nozzles 77 from a manifold 79 into the units 41 and may consist of water to facilitate separation of foreign matter from the **air** or of a cleaning solution, e.g. a detergent or sanitizer, to wash the units. Temperature-responsive **sprinklers** 84 are provided in the **chamber** 35 to dispense fire quenching substance, e.g. water, into the area surrounding the separator units 41. Such **sprinklers** may also be attached to the top wall 18 of **chamber** 14. The separator units consist of tubular members 46 made of stainless steel or synthetic material, e.g. urethane rubber. The helical elements 52, 53, 54 of each separator unit have notches, e.g. 61, in their adjacent edges to provide a dovetail or interlocking connection between the elements. Each element may have a 30 to 180 twist and adjacent edges of adjacent elements may

be positioned at an angle of 30 to 90 to each other. The collector 67 of each unit has an inwardly tapered flange 68 surrounding an opening 69 and defining a throat 71 through which **air** and foreign matter, that has been thrown by centrifugal force against the wall of the respective unit, pass into an enlarged annular collection **chamber** defined by an upwardly extending outside annular wall 73 of the collector whereby the **air** expands and passes upwardly through **chamber** 35 and the foreign matter settles into the bottom of the **chamber** and discharges through a hole 72 into a trough 44 and thence via a conduit 37 into a container 37A. Liquid or solution discharging from the units 41 via the opening 69 of the collector 67 and an opening 36B in the bottom wall 36 of **chamber** 35 passes into a channel defined by an angle-shaped wall 36A and is removed through a drain pipe 89.

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DT - *

CT - (A1)
[FR2323431](#) A1 [A]; [US4351804](#) A [A];
[DE3920544](#) C1 [A]; [FR2162118](#) A1 [A];
[FR2384714](#) A1 [A]; [FR2355551](#) A1 [A];
[FR2299074](#) A1 [A]

CCI - [B01D53/501](#)

CCA - [C02F1/04](#) ; [C02F2001/007](#) ; [C02F2103/18](#) ; [C02F2209/40](#)

PA - (A1 B1)
PARIS PAVAGE ASPHALTES [FR]

TI - (A1)
Gas scrubbing process for effluents from heating bituminous mixtures - which includes

the cleaning of discharged water vapour contg. pollutants using a condenser and droplet extractor.

AB

- (A1)

Process for treating gaseous effluents from heating bituminous products or mixts. in which gases, in partic. contg. water vapour, are treated in a condenser and a droplet extractor. The gases are condensed by natural expansion in the presence of a spray of refrigerated soda-water. The gases are then washed with soda water, the condensation and washing water are recovered and cooled and then recycled through a distillation process. After distillation, a soda solution is added to part of the water to make the washing water, and iron sulphate solution is added to the outer part to fix and eliminate the products identified by the soda water. The amount of water used is controlled by a reservoir and by the eventual discharge of distilled water. The appts. pref. has a gas-handling part of the installation comprising an expansion **chamber** (1) with **sprinklers** (2) opening into a collecting container (7) connected to a controllable **air** inlet, passing through a primary droplet extractor (9) at the entrance to a washing process (10) with two levels of cold soda water **sprinklers** and a secondary droplet extractor (13) at the exit to atmosphere. There is also a ventilator to ensure flow. The other part of the installation comprises in order the expansion **chamber**, a decanter (18), a reservoir (29), a distillation column (22), a reservoir of distilled water (23) and a distilled water feed into both reservoirs. USE/ADVANTAGE - Used for the removal of **pollution** from the exhaust from heating bitumastic products or mixtures. Provides successful scrubbing both of exhaust gases and extraction of discharged water contg. pollutants.

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PN

- [CN2740905Y](#) Y 20051116

PR

- CN2004234179U 20040625

AP

- CN2004234179U 20040625

DT

- I

PA

- ZHANG HONG [CN]

TI

- Smokeless burning power generator of living refuse

AB

- The utility model relates to a smokeless burning power generator of living refuse, comprising a negative pressure **chamber** 31, a baking **chamber** 10, a combustion **chamber** 17, a boiler 14 and a cooling purification **chamber** 24. A blower 5 generates negative pressure in the negative pressure **chamber** 31, and the blower 5 is connected with an **air** intake pipe 8 which is connected with a jet-**air** pipe 20. A water inlet pipe 11 and the **air** intake pipe 8 are arranged in the baking **chamber** 10, and the outlet of the water inlet pipe 11 is connected with the boiler 14. A flue 12 is communicated with the baking **chamber** 10, and the bottom of the baking **chamber** 10 is provided with a cooled fume outlet 33 and is communicated with the cooling purification **chamber** 24, which exempts from the atmosphere **pollution** of fume emission. After tail gas is reclaimed, no smoke is discharged into the atmosphere. By using the heat of the fume after the refuse is incinerated, the baking **chamber** 10 uniformly proceeds baking to the refuse, the charging water and the charging wind. The cooling purification **chamber** 24 **sprinkles** the fume, proceeding purification treatment. The tail gas is sent into the negative pressure **chamber** 31 for secondary burning, and a reciprocating grate 18 conveniently makes the refuse enter the upper part of a fixed

form fire grate.

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PR - CN2003216694U 20030508

AP - CN2003216694U 20030508

DT - I

PA - ZHANG XUNLONG [CN]

TI - Dust removing device for flue pipe of boiler

AB - A boiler flue dust collector belongs to the technical field of boiler discharge purification device. At present, the boiler flue gas is purified by the dust collector device before the gas is discharged into the **air**; the dust retainer has a complicated structure and the production cost is high; if the process of retaining dust is not implemented thoroughly, the dust will pollute the environment to some extent. The technical proposal of the utility model is that a chimney 4 is connected with a suction ventilator 5; a chimney 1 is connected with a rain **chamber** 2, in which a shower set 9 with a water inlet 3 is disposed; the rain **chamber** 2, a sedimentation basin 6 and a clean water tank 7 are connected with each other in turn; the clean water tank 7 is disposed with a sinking pump 8 which is connected with the water inlet 3 by pipeline. The design for the utility model is original and unique; the structure is simple and practical; the utility model uses the **sprinkler** purifies the dust in the flue gas and then the gas is discharged without **pollution** to the environment. Moreover, the water **sprinkled** can be used repeatedly which can save water resource.