

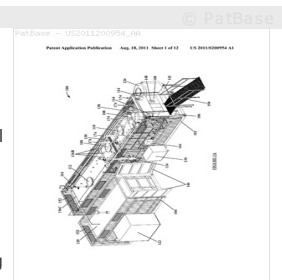
1) Family number: 49410021 (US2011200954A)

RENEWABLE ENERGY MICROGENERATION SYSTEM

Abstract: Source: US2011200954A A renewable energy microgeneration system is disclosed. The system includes a portable processing container with a mixing tank for mixing waste with a liquid, a macerating pump in fluid communication with the mixing tank that is configured to macerate the waste into smaller pieces, a plurality of small holding tanks in fluid communication with the mixing tank that are configured to perform at least one of a pasteurization thermophilic anaerobic digestion on the waste, a large holding tank in fluid communication with the plurality of small holding tanks that is configured to perform mesophilic anaerobic digestion on the waste after at least one of a pasteurization thermophilic anaerobic digestion is performed on the waste, and a de-watering unit in fluid communication with the large holding tank that is configured to dry what remains of the waste after mesophilic anaerobic digestion is performed on the waste; a controller for automating the flow of the waste between the mixing tank, the plurality of small holding tanks, the large holding tank, and the de-watering unit such that a user does not need to complete any tasks for performing mesophilic anaerobic digestion after the waste is loaded into the mixing tank; and a portable gas storage container comprising a gas storage tank that is configured to store biogas generated by the mesophilic anaerobic digestion, wherein the portable processing container and the portable gas storage container are configured to be transported to a site and placed in fluid communication with each other so the gas storage tank can store biogas generated by mesophilic anaerobic digestion in the processing container at the site.

Probable Assignee: SEAB ENERGY LTD

Earliest Publication Date: 20110818



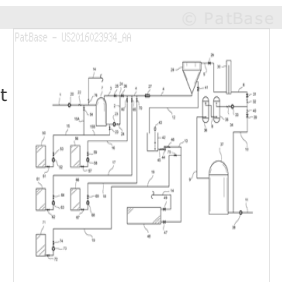
2) Family number: 57413357 (US2016023934A)

PORTABLE, NON-BIOLOGICAL, CYCLIC SEWAGE TREATMENT PLANT

Abstract: Source: US2016023934A A mobile sewage treatment and water reclamation system for rapid deployment to augment existing wastewater systems and provide interim service in lieu of permanent facilities, includes: (a) denaturing stage wherein raw sewage is first ground into suspendable grit, its pH first lowered to kill acid-sensitive bio-organisms, then raised to kill base-sensitive bio-organisms, and then neutralized; (b) clarifying stage employing an inverted-cone tank to circulate the solution after injection with chemicals to flocculate small particles for collection in a layer for siphoning off; and (c) disposal stage wherein clarified water passes through media filters to remove remaining solids and odors, the effluent water being clean enough for irrigation, aquatic life and discharge into waterways; and wherein sterile sludge is pressed into semi-dry solids, then dried, crushed, powdered and bagged for use as high-nitrate biomass fertilizer or for fossil-fuel power co-generation applications.

Probable Assignee: E3 WATER LLC

Earliest Publication Date: 20140918



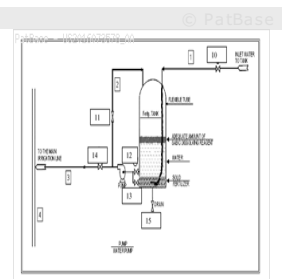
3) Family number: 57717182 (US2016073578A)

FERTIGATION COMPOSITION, USE AND SYSTEM

Abstract: Source: US2016073578A Disclosed herein is a method for fertigation comprising: (a) providing an acidic mixture of water and a fertilizer dissolving agent; (b) contacting the acidic mixture with a fertilizer composition in fertigation equipment to dissolve the fertilizer composition and to form a fertigation composition; and (c) contacting the fertigation composition with soil. Also disclosed are a fertigation composition and a fertilizer system.

Probable Assignee: SAUDI BASIC IND CORP

Earliest Publication Date: 20141106



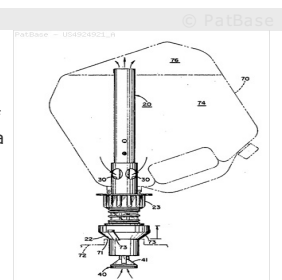
4) Family number: 3442616 (US4924921A)

LIQUID DELIVERY/FILLING SYSTEM

Abstract: Source: US4924921A By employing two independent, separate and distinct flow paths which are controllably sequentially opened during use in a single actuation operation, an error-free, flame and explosion proof liquid delivery/filling system is achieved. In the preferred embodiment, both flow paths are normally maintained in a closed, sealed configuration, requiring an actuation force to controllably, sequentially open the flow paths. Furthermore, the preferred embodiment is compact in design and provides an easy to use system, without sacrificing its inherent benefits. In addition, a flow diverging structure is mounted in the liquid flow path to assure complete removal of all of the air from the chamber being filled.

Probable Assignee: LINK RACING INC

Earliest Publication Date: 19900515



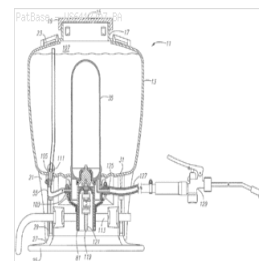
5) Family number: 23460943 (US6412707B)

COMPACT PORTABLE SPRAYER WITH LEAK-PREVENTION PUMP SYSTEM

Abstract: Source: US6412707B A portable backpack sprayer for spraying liquid chemicals such as pesticides, fungicides, and fertilizers having a large storage tank in which is mounted a pressure vessel. A manually actuated pumping assembly is connected with the bottom portion of the pressure vessel and also with the bottom portion of the tank. The pumping assembly comprises a reciprocating piston to draw liquid from the storage tank and pressurize it within the pressure vessel. The operator may discharge the pressurized liquid using a hose and a control valve affixed to the pressure vessel. The pumping assembly further comprises a double-walled piston and a leak barrier to collect any liquid that may leak from the piston. The reciprocating action of the piston is utilized to return the leaked liquid to the storage tank via a return siphon.

Probable Assignee: WIRZ PEDRO

Earliest Publication Date: 20020702



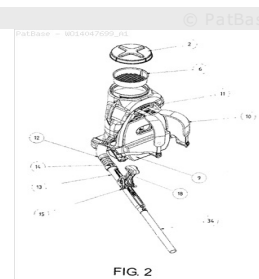
6) Family number: 56144698 (WO14047699A1)

PORTABLE DEVICE FOR APPLICATION OF GRANULATED PARTICLES

Abstract: The present patent application relates to a portable system for applying and preferably metering fertilisers and agrochemicals, comprising a portable, joystick-like control for applying a flow of granulated particles using the force of gravity, at local points of the soil surface, plant pots, etc, and for continuous application (for example, grams per minute) in planting furrows or even as a widespread coverage over a total area. The device is designed for being mounted and connected together with a discharge tube to the bottom of a storage tank for granulates, generally a backpack equipment for use by rural producers and cattle raisers for the most varied applications, even in large areas where, for example, a rough terrain makes access by tractor systems impossible.

Probable Assignee: GUARANY IND COM LTDA

Earliest Publication Date: 20140403



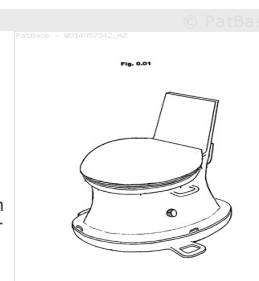
7) Family number: 55400969 (WO14057342A2)

MULTI-FUNCTIONAL PORTABLE TOILET FOR THE SANITARY PROCESS INVOLVING THE DEPOSITING, THE COLLECTION AND THE RECYCLING OF EXCREMENT AND URINE WITHOUT REQUIRING THE USE OF POTABLE WATER

Abstract: The invention relates to a mixed portable toilet that is practical, lightweight, strong, convenient and hygienic, which performs multiple functions as part of the complete treatment process for depositing, collecting and recycling organic human waste without requiring the use of potable water in under-developed regions with no water supply or sewage infrastructure. The collection process operates by means of the simple ordered handling of human waste with biodegradable and/or plastic bags that are transported using a simple collection case or container and/or collection dump trucks to the industrial and/or natural recycling site. The natural bulk recycling process uses medium or large well-structured backfill in order to make use of excrement and urine as a fertiliser for orchards, since there is nothing better or more cost effective than the natural brilliance of the roots of trees and other plant species for recycling human and animal urine and excrement and obtaining nutrients therefrom. The industrial recycling process uses processing plants to process solid and liquid organic waste, which, using the methane gas from the excrement, produce electricity and biogas for the community and, in addition, the waste from said excrement and urine is used to produce granular fertilisers for all types of agricultural crops.

Probable Assignee: BUSTAMANTE PARRA EDUARDO

Earliest Publication Date: 20121217



8) Family number: 74101751 (CO20180008247A)

APARATO MECANICO PORTATIL PARA FERTILIZACION CON TANQUE DE ALMACENAMIENTO Y DOSIFICACION GIRATORIA DE ABONO PORTABLE MECHANICAL APPARATUS FOR FERTILIZATION WITH STORAGE TANK AND ROTARY DOSING OF FERTILIZER (MACHINE TRANSLATION)

Abstract: Source: CO20180008247A La presente invencion se relaciona con un aparato mecanico portatil para realizar el proceso de fertilizacion en cultivos, en donde dicho aparato consta principalmente de por lo menos un tanque fabricado de material de alta densidad que permite el almacenamiento del producto abono granulado, una bomba de aire de desplazamiento positivo de simple efecto para la propulsion del abono a alta presion, un sistema de dosificacion giratorio con una camara y recamara ubicada en el tanque accionado por una palanca manual, una manguera que transporta el abono hasta la boquilla que permite su adecuada dispensacion en la raiz de la planta, en donde todos los componentes del aparato de fertilizacion se encuentran ensamblados en un chasis independiente al aparato, el cual puede ser transportado directamente por el operario, tal como en su espalda. Asi mismo, el aparato de la presente invencion presenta la ventaja que no requiere de motores adicionales para la entrega del abono granulado, ya que el proceso de fertilizacion se realiza de forma manual mediante el accionamiento de la palanca y la agitacion del granulado al interior del tanque por medio de correas para evitar que dicho granulado se compacte. The present invention relates to a portable mechanical apparatus for carrying out the process of fertilization in crops, wherein said apparatus consists mainly of at least a tank made of high density material that allows the storage of the product fertilizer granulate, a simple positive displacement air pump effect for propulsion of the compost at high pressure, a rotary dosing system with a camera and bedroom located in the tank driven by a manual lever, a hose that carries the subscription to the nozzle that allows proper dispensing at the root of the plant, where all the components of the apparatus are assembled in a separate chassis fertilization to the apparatus, Which can be carried directly by the operator, such as on his back. Likewise, the apparatus of the present invention has the advantage that does not require additional motors for delivery of the fertilizer granulate, since the process of fertilization is done manually by actuating the lever and the stirring of the granulate into the tank by means of belts to prevent said granulate is compacted.

Probable Assignee: CAPERA LOMBO FERNANDO

Earliest Publication Date: 20190412

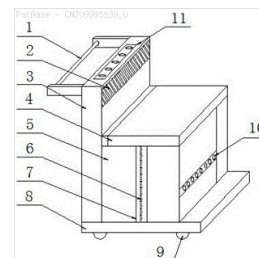
9) Family number: 77461173 (CN209995139U)

A PORTABLE, BREEDING NEREIS FERTILIZATION DEVICE (MACHINE TRANSLATION)

Abstract: Source: CN209995139U The utility model discloses a portable, breeding Nereis fertilization equipment, including plate, fat storage tank and telescopic tube fertilization, the fat reservoir tank side provided by the board, the fat reservoir tank lower end is provided with a base, said base is provided with a universal self-locking pulley, the plate against the top side of the top plate is provided with a putter, the other side is provided with lights, the top plate is provided with the operation switch, the fat reservoir tank cover by a hinge connection, said box Cover internally provided with UV germicidal lamp, the UV germicidal lamp at one side is provided with a ultraviolet light disinfection, the fat reservoir tank surface is provided with a telescopic tube fertilization, the fat reservoir tank side is provided with an observation window, the observation window surface provided with tick marks, by setting the telescopic tube fertilization, the fertilization tube, and can be used for telescopic large range of fertilization process, by setting the window and tick marks, you can grasp the amount of fertilizer and fertilizer were observed.

Probable Assignee: YANCHENG ABUNDANT SOURCE BAIT CO LTD

Earliest Publication Date: 20200131



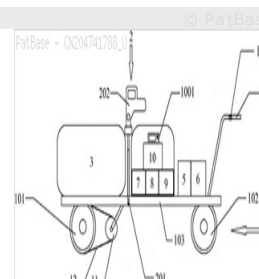
10) Family number: 60784204 (CN204741788U)

PORTABLE FERTILIZER DISTRIBUTOR

Abstract: Source: CN204741788U The utility model provides a portable fertilizer distributor, include: but moving vehicle frame to but and set up fertilization rifle, the fertilizer water tank on moving vehicle frame, but moving vehicle frame includes drive wheel and orientation wheel, and the drive wheel is connected with one and is used for for its motor that provides power, and the motor is connected with first storage battery, and first storage battery is connected with first charger, the fertilization rifle includes the fertilization needle and is used for the punching press host computer with fertilization needle punching press to below ground that the fertilization needle sets up on the punching press host computer, wherein, fertilization needle and fertilizer water tank intercommunication to the transport of fertilizer is carried out through the high -pressure pump, wherein, the punching press host computer is connected with the second storage battery, and the second storage battery passes through the dc -to -ac converter and is connected with the second charger, portable fertilizer distributor further includes the controller, and motor, punching press host computer, high -pressure pump are connected with the controller respectively. Through the utility model discloses can realize fertilizeing to the dark root of ornamental trees and shrubs, the move mode of fertilizer distributor is also more light, laborsaving simultaneously.

Probable Assignee: SHANGHAI GREENING MAN GUIDANCE STATION

Earliest Publication Date: 20151111



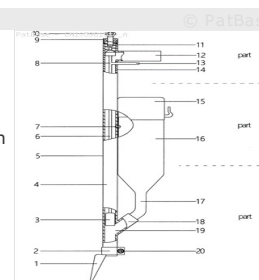
11) Family number: 63705614 (CN105981510A)

PORTABLE MULTIFUNCTIONAL SOIL LOOSENING-DIGGING-FERTILIZATION-SOWING DEVICE

Abstract: Source: CN105981510A The invention discloses a portable multifunctional soil loosening-digging-fertilization-sowing device. The device comprises a fourway pipe, a material storage tank, a pointed shovel and a fertilizer and seed switch system. A shovel handle clamping ring of the pointed shovel firmly clamps a through rod bottom end of the fourway pipe, an inclined connector of the fourway pipe is connected to a discharge pipe at the bottom of a material storage tank, the material storage tank is fixed to a through rod through bolts and the fertilizer and seed switch system is installed in the through rod of the fourway pipe. The device realizes soil loosening, digging, fertilization, sowing and soil covering through one step, can be finished fast, is free of bowing, squat and hand direct contact with fertilizer and effectively protects user physical health. The device is simple, scientific, light and portable, has a low cost and is efficient and practical.

Probable Assignee: ZHANG ZHIWEI

Earliest Publication Date: 20161005



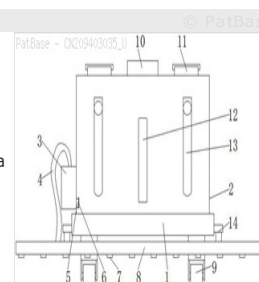
12) Family number: 75913623 (CN209403035U)

GARDENING PORTABLE FERTILIZATION DEVICE

Abstract: Source: CN209403035U The utility model discloses a portable fertilizing device for gardening. The device comprises a base and a water tank, the water tank is fixed to the upper end surface of the base. A water conveying pipe is transversely fixed to the lower end of the base through a fixing frame. A small water pump is fixed to the lower end of the left side of the water tank and communicates with the water conveying pipe through a guide pipe, a driving motor is fixed to the top of the water tank, a stirring rod is installed at the lower end of the driving motor and located in the water tank, and a storage battery is fixed to the surface of the upper end of the front side of the base. A driving motor is fixed at the upper end of a water tank; the stirring rod installed at the lower end of the driving motor is located in the water tank, fertilizer and water can be added into the water tank together during fertilization and stirred through the stirring rod, the fertilizer is pumped out through the small water pump and sprayed to the ground surface from the spray head to fertilize horticultural plants after being fully stirred and mixed, plant absorption is facilitated, and the fertilizer applicator is suitable for wide application and popularization.

Probable Assignee: LI JIE

Earliest Publication Date: 20190920



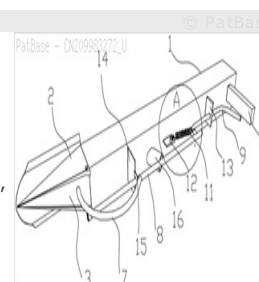
13) Family number: 77418313 (CN209983272U)

A PORTABLE FERTILIZATION DEVICE (MACHINE TRANSLATION)

Abstract: Source: CN209983272U The utility model discloses a portable fertilization device, relates to the field of fertilization tool technology, including a storage tank, the feed tube and feeding tube, said feed hose first end communicating with the storage tank, the other end of the feed tube is connected, the feed tube One end is provided with a feed tube fixedly connected to the hopper and the hopper control opening and closing of the hopper, the hopper and the hopper lid cover is hinged connection, said hopper is provided on the side of the cover away from the hopper, the hopper lid is connected to scarifier drives the hopper lid away from or close to the hopper of the drive means; said storage tank is provided with a strap for the PIGGYBACKED. The present utility model provides a fertilizer unit compact and easy to carry, and has a strong endurance, and in the soil compaction hard, but also as usual use, greatly enhance the efficiency of fertilization and fertilization effect.

Probable Assignee: ZHENG PENG

Earliest Publication Date: 20200124

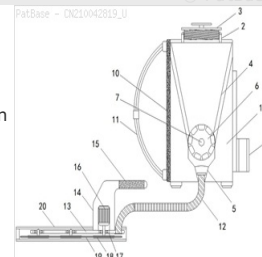


A NEW PORTABLE PRUNING GREEN BELT FERTILIZATION DEVICE (MACHINE TRANSLATION)

Abstract: Source: CN210042819U The utility model relates to green belt technology governance, and discloses a new portable pruning green belt fertilization device comprises a stationary tank, said fixing tank top fixed connection with a feeding port, the doghouse at the top with a sealing plug, the plug is fixed inside the box is fixedly connected with the hopper, said fixing tank has opened the bottom located at the bottom of the hopper discharge port. The new portable pruning green belt fertilization means, by the storage hopper storing fertilizer, manually rotate turn drive shaft, so that the discharge the discharge tray outside the disk rotation, using the opened discharge slots fertilizer to the discharge port flows out from the hose through the user grasps the handle fertilization, the use of drive motor driven gear rotates, thereby stimulating turning tooth chain, you can turn on the green belt trimmed, and pruning may be from flowing out of the hose fertilization fertilizer spread in the green belt pruning, fertilization performed together, save time and improve efficiency.

Probable Assignee: ANHUI TIANCHEN GARDEN ENGINEERING CO LTD

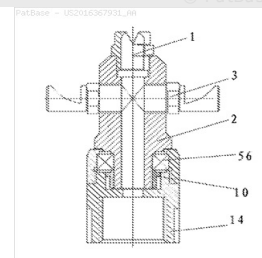
Earliest Publication Date: 20200211

**AN AUTOMATIC HIGH-SPEED ROTARY ATOMIZING DEVICE AND A FIRE EXTINGUISHING METHOD BY USING THE SAME**

Abstract: Source: US2016367931A An automatic high-speed rotary atomizing device, comprising a rotary spray head with an upper portion and a lower portion, the upper portion is connected to pressurized fluid, the lower portion is connected to the upper portion by means of one or more spray nozzles (1, 3) or spray orifices via a bearing (56). The upper portion is stationary. When the pressurized fluid is sprayed out from the spray nozzle, part of kinetic energy of the pressurized fluid generates a counterforce that propels the entire lower portion of the spray head to rotate at a high speed, so as to convert most of the kinetic energy of the pressurized fluid into surface energy that facilitates atomization of water flow when the pressurized fluid hits against a slanted surface or slit of the spray nozzle or passes through an aperture thereof, thereby forming a large-scale atomized, dispersed and swirling system. This automatic high-speed rotary atomizing device has low working pressure, high rotating speed, small and homogeneous fog droplets, and therefore can be widely used in fire extinguishing, flue gas purification, city purification, greenfield watering, landscape decoration, etc.

Probable Assignee: BEIJING CHINA SCIENCE ORGANIC INNOVATION LLC

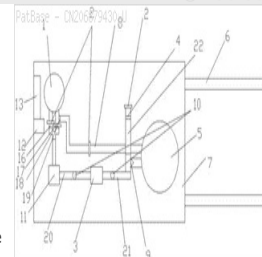
Earliest Publication Date: 20150701

**PORTABLE FERTILIZER IRRIGATION MACHINE**

Abstract: Source: CN206879430U The utility model relates to a portable fertilizer irrigation machine, including the vehicle bottom dish, be provided with fertilizing tank and water storage tank on the vehicle bottom dish, the downside of vehicle bottom dish is provided with the wheel that is used for the removal, the water storage tank is respectively through main water pipe, muddy fertile pipe is linked together with two inputports of three -way pipe, the electron lighter gasoline pump is connected to the delivery outlet of three -way pipe, it is linked together with fertilizing tank through the discharging pipe to mix fertile pipe, muddy fertile pipe is provided with the venturi with the junction of discharging pipe, the output management way A of electron lighter gasoline pump is linked together with the input of filter, the output management way B of filter is linked together with the input of triangular valve door, another input and the fertilizing tank of triangular valve door are linked together, the output of triangular valve door even has and is used for the exit tube that is connected with field pipe -line system, be provided with the air valve on the exit tube, the utility model discloses can satisfysmall size field piece irrigation and fertilization system's requirement, that the operation is removed is convenient, rapidly, and it is little to take up an area of the space.

Probable Assignee: INST SOIL AND FERTILIZER FUJIAN

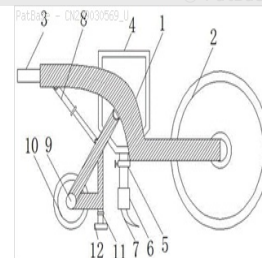
Earliest Publication Date: 20180116

**PORTABLE FERTILIZING DEVICE**

Abstract: Source: CN209030569U The utility model discloses a portable fertilizing device. Vehicle frame, wheels are fixed to the inner walls of the two sides of the frame through bearings. Handles are welded to the outer walls of the two sides of the end, away from the wheels, of the frame. Conical storage tanks are fixed to the inner walls of the two sides of the frame through bolts. a discharging pipe sleeves the inner wall of a discharging opening in the bottom of the storage tank, a valve sleeves one end of the discharging pipe, a telescopic sleeve sleeves one end of the valve, a plough tip is fixed to the outer wall of the bottom of the telescopic sleeve through a bolt, mounting frames are hinged to the outer wall of the bottom of the frame, and pressing rollers are fixed to the inner walls of the opposite sides of the mounting frames through bearings. According to the utility model, the fertilization device is designed to be in the form of a trolley, so that the fertilization device is convenient to carry, the discharge pipe is arranged behind the plough tip, the problems of less fertilization and low efficiency of the existing backpack fertilization device are solved, and the fertilizer is buried into soil through the soil filling mechanism, so that the fertilizer loss is avoided.

Probable Assignee: PINGYU YUAIJIE AGRICULTURAL DEV CO LTD

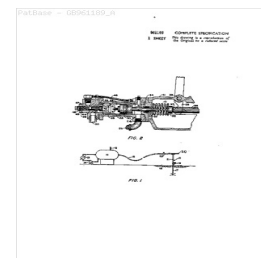
Earliest Publication Date: 20190628

**IMPROVEMENTS IN OR RELATING TO THE FERTILIZATION OF PLANTS AND TREES**

Abstract: Source: GB961189A 961,189. Soil fertilising. CONTINENTAL OIL CO. Oct. 5, 1960 [July 13, 1960], No. 34199/60. Heading A1B. [Also in Division F1] Apparatus for injecting a measured quantity of anhydrous ammonia into the ground comprises a pronged hollow rod 17 connected to a storage tank 11 by a flexible hose 15 incorporating a valve 22 for regulating the flow of ammonia to the rod. The ammonia is pumped from the tank 11 and fed into the ground through outlets near the lower end of the rod, a metering device e.g. an orifice 21 measuring the flow of ammonia to the rod. A cross piece 19 limits the depth of penetration of the rod into the ground.

Probable Assignee: CONTINENTAL OIL CO

Earliest Publication Date: 19610316



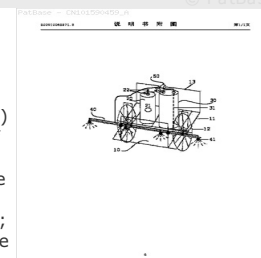
19) Family number: 44131888 (CN101590459A)

ENVIRONMENT-FRIENDLY PORTABLE SPRAYER

Abstract: Source: CN101590459A The invention discloses an environment-friendly portable sprayer and relates to an agricultural spraying device. The sprayer adopts the following structure that the front part of a truck frame (11) is provided with a spray pipe (40); the middle part of the truck frame (11) is provided with an air pressure tank (20) and a solvent box (30); a handle (13) is provided with a pipeline valve (50); an air pressure adjusting valve (23) of the air pressure tank (20) is communicated with the solvent box (30) through a pipeline; the solvent box (30), the pipeline valve (50) and the spray pipe (40) are communicated in turn through pipelines; a power source (21) can be a CO2 tank power source or a power source consisting of a small storage battery and a small air pump connected with each other; the spray pipe (40) is a 0.4 to 2.8 m telescopic long pipe with an adjustable distance to the ground; and flat sector-shaped spray heads (41) are arranged at intervals of 40 to 60 cm. The environment-friendly portable sprayer has the advantages of handcart type, portability, no pollution, environmental protection, energy saving, labor saving, controllable quantity spraying and uniform and wide spraying; therefore, the sprayer is suitable for plant spray and fertilization.

Probable Assignee: WUHAN BOTANICAL GARDEN CAS

Earliest Publication Date: 20091202



20) Family number: 10642834 (DE4142627A1)

AGRICULTURAL LIME SLURRIES - PRODUCED BY CRUSHING LIMESTONE CHIPPINGS IN PRESENCE OF WATER, MILLING AND STORING FOR FUTURE USE

Abstract: Source: DE4142627A1 New agricultural lime slurries have a water content of 20-30 weight percent and contain lime particles with a dia. of up to 3mm, with 70 percent of the particles having a dia. below 1 mm. Prodn. of agricultural lime slurries is effected by crushing limestone chippings in the presence of water; milling the limestone-water mixt. to form particles with a dia. of up to 3 mm (70 percent below 1 mm); pumping the mixt. into a storage vessel; and storing the mixt. to form a slurry with a time-independent water content at the bottom of the vessel. Application of agricultural lime slurries is effected by transferring the slurry from a storage vessel to a container vessel; transporting the slurry to the application site in the vehicle; and distributing the slurry over the site by means of a spinning disc mounted on the vehicle. ADVANTAGE - The slurries have good storage and handling properties and can be applied in all weathers using conventional manure spreaders

Probable Assignee: LOGES WILHELM

Earliest Publication Date: 19930624

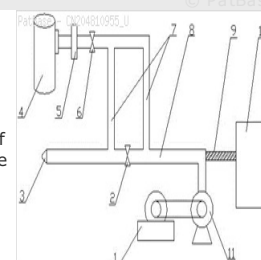
21) Family number: 61006227 (CN204810955U)

NOVEL FERTILE PORTABLE FERTILIZER APPLICATOR OF LIQUID

Abstract: Source: CN204810955U The utility model belongs to the technical field of agricultural fertilization equipment, specifically disclose a novel fertile portable fertilizer applicator of liquid, including the water pump, be connected with the water pipe on the water pump, water pipe one end is equipped with the shower nozzle, and the other end is through flexible pressure hose and water tank intercommunication, be connected with the fertile pipe of liquid on the water pipe, the fertile union coupling of liquid has the fertile storage tank of liquid, be equipped with the flowmeter on the fertile pipe of liquid. The utility model discloses simple structure, easily operation and extensively applied.

Probable Assignee: HENAN JINKAI CHEMICAL INVEST HOLDING GROUP CO LTD

Earliest Publication Date: 20151202



22) Family number: 40890473 (WO07138139A2)

PERSONALIZED CRYOSTAT CAPSULE

Abstract: In this globalized world ordinary people can only impose their own choices, however praiseworthy they are, on a few occasions, with the exception of what people invent. Taking advantage of this circumstance, it is desired that this patent - or at least its fourth part - should be of common and public utility.

Probable Assignee: SZABO TIVADAR

Earliest Publication Date: 20071206

23) Family number: 61851554 (CO7510044A)

EQUIPO PARA PRUEBA DE TENSION DE BITAS TENSION TESTING EQUIPMENT BOLLARDS (MACHINE TRANSLATION)

Abstract: Source: CO7510044A La invencion se refiere a un producto de aislamiento termico a base de fibras minerales que comprenden lana mineral, el producto que comprende dos caras principales y dos bordes longitudinales y transversales perpendiculares a las caras principales, donde el producto que se caracteriza por los siguientes niveles de orientacion: un nivel de orientacion longitudinal mayor o igual a 48 percent, o incluso mayor que o igual a 50 percent, en un angulo de mas o menos 6 degrees con respecto al plano de las caras principales, cuando las fibras minerales se cuentan hasta solo en la seccion longitudinal; y un nivel de orientacion mayor que o igual a 40 percent, o incluso mayor que o igual a 45 percent, en un angulo o mas o menos 6 degrees con respecto al plano de las caras principales, cuando las fibras minerales se cuentan hasta tanto en la seccion transversal y en la seccion longitudinal. La invencion hace que sea posible mejorar la capacidad de aislamiento de un producto de aislamiento termico basado en lana mineral sin aumentar el grosor de la misma. The invention relates to a thermal insulation product based on mineral fibers comprising mineral wool product comprising two main faces and two perpendicular longitudinal and transverse edges to the main faces, where the product It characterized by the following levels of orientation: a level of greater than or equal longitudinal orientation to 48 percent, or even greater than or equal to 50 percent, in an angle of about 6 degrees relative to the plane of the main faces, when the mineral fibers are counted up only in the longitudinal section; and a level of greater than or equal orientation to 40 percent, or even greater than or equal to 45 percent, at an angle or more about 6 degrees relative to the plane of the main faces, when the mineral fibers are counted until both the transverse and in the longitudinal section. The invention makes it possible to improve the insulation capacity of a thermal insulation product based on mineral wool without increasing the thickness thereof.

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