

13 Documents

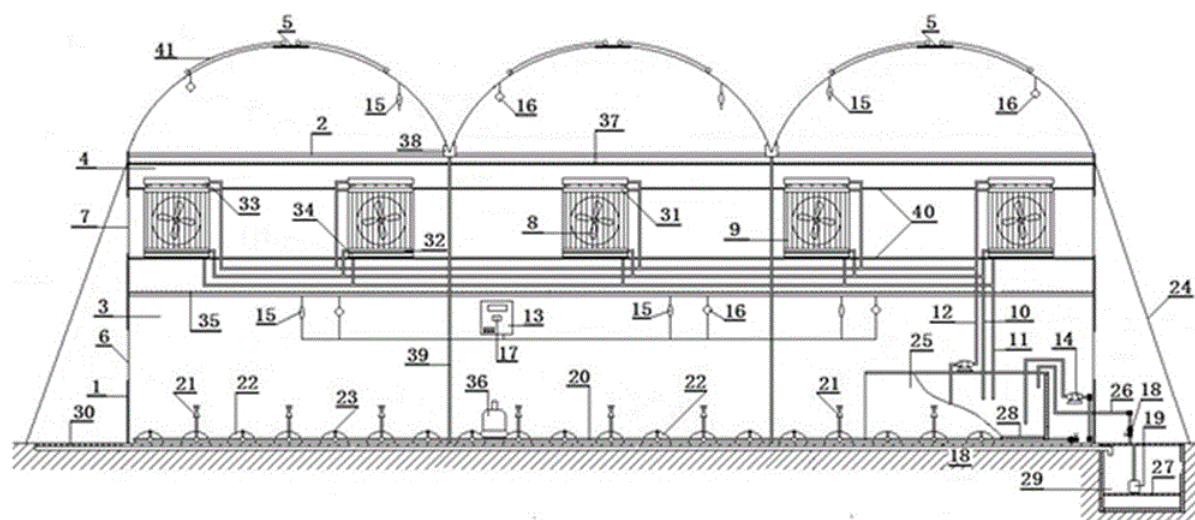
Publication numbers	Title	Current assignees
CN110178600 A	Intelligent greenhouse and environmental control method of using greenhouse effect for heat collection and fan coils for heat exchange	YUNNAN XUWEI AGRICULTURAL TECHNOLOGY
CN110178601 A	Intelligent greenhouse and environmental control method of using greenhouse effect for heat collection and water vapor films for heat exchange	YUNNAN XUWEI AGRICULTURAL TECHNOLOGY
CN104737853 A	Asymmetry arch rail sunlight greenhouse system special for fruit trees and construction method of asymmetry arch rail sunlight greenhouse system	JINAN ZHENGZHUANG AGRICULTURE TECHNOLOGY
CN204907337U U	Special asymmetric rail sunlight greenhouse system of encircling of fruit tree	JINAN ZHENGZHUANG AGRICULTURE TECHNOLOGY
CN103875438 A	Greenhouse cultivation and management method of high-yield watermelons growing with multiple crops in one year	LIU FUJIU
KR20150061264 A	Water film water recycling system for waterproof grow greenhouse using geothermal heat	KOREA AGRICULTURAL & RURAL INFRASTRUCTURE
CN105981540 A	Quick cultivation method for KF156 middle-of-south 128 hybridized ginseng	KONG YUNRONG
CN103875384 A	Efficient cultivation method for fine varieties of small watermelons	BEIJING AGRICULTURE TECHNOLOGY PROMOTION STATION
US20100230508 A1	God device genres cadres	PETROVICH SVETOZAR B
US20100208860 A1	GC QCMEHC nuclear power plants	PETROVICH SVETOZAR B, ...
US20110240755 A1	God forms' Genres	PETROVICH SVETOZAR B
US20110290900 A1	Domains of fluid elements	PETROVICH SVETOZAR B
CN2764771U Y	Comprehensive development and utilization apparatus for organic, ecological and environment-friendly biogas energy source	XIA ZHONGJUN

Family 1/13 - FAMPAT - ©Questel

Title

(CN110178600)

Intelligent **greenhouse** and environmental control method of using **greenhouse** effect for **heat** collection and fan coils for **heat** exchange

Images**Publication numbers with kind code & date**

CN110178600

A

2019-08-30

CN110178600

**Abstract**

(CN110178600)

The invention discloses an intelligent **greenhouse** and environmental control method of using the **greenhouse** effect for **heat** collection and fan coils for **heat** exchange. The **greenhouse** is a multi-unit combined light-transmissive **greenhouse** with a highly overhead structure and comprises fan coil devices which are arranged at the middle-upper portions of the **greenhouse**, wherein each fan coil device integrating a **heat** exchanger and a wet curtain comprises a high-air-volume low-air-pressure fan and is provided with an inner water circulation pipe and an outer water circulation pipe, and the fan coil devices are connected to a **heat** storage pool through one water supply and return pipe. Two curtain layers are arranged above and below the devices respectively. An intelligent control system is designed, the **greenhouse** is closed for keeping warm in the cold season, the fans are started, internal water circulation of the coils is enabled, the solar **heat** is accumulated into water during daytime, and crops are supplemented with CO₂ gas fertilizer; the solar **heat** in the water is released into the air during nighttime. The **greenhouse** is opened for ventilation in the hot season, the fans are started, and external water circulation is enabled; the ventilation cooling effect is improved through evaporation and **heat** absorption on the surfaces of the **heat** exchangers. The problem that the cost is too high when existing methods are adopted for regulating the **greenhouse** environment is solved in an environment-friendly low-carbon mode, the remarkable effects of increasing the production, improving the quality, reducing the consumption of drugs and saving water are achieved, and transformation and upgrading of facility agricultural production modes are facilitated.

Inventors

LI JINZE

LIU GUANSUO

ZHOU YI

SU YAN

Latest standardized assignees - inventors removed

YUNNAN XUWEI AGRICULTURAL TECHNOLOGY

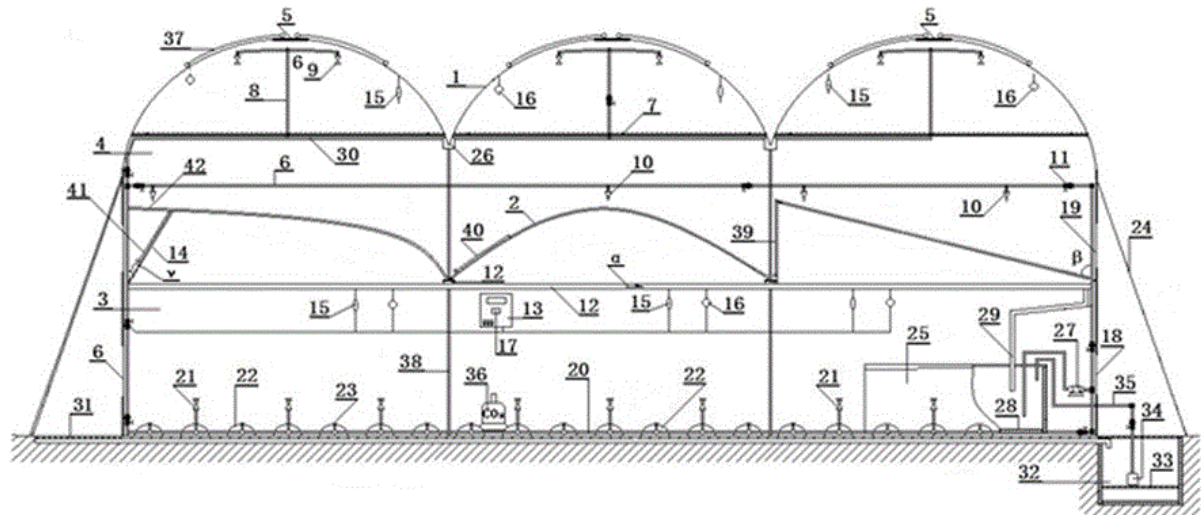
Family 2/13 - FAMPAT - ©Questel

Title

(CN110178601)

Intelligent **greenhouse** and environmental control method of using **greenhouse** effect for **heat** collection and water vapor films for **heat** exchange

Images



Publication numbers with kind code & date

CN110178601

A

2019-08-30

CN110178601



Abstract

(CN110178601)

The invention discloses an intelligent **greenhouse** and environmental control method of using the **greenhouse** effect for **heat** collection and water vapor films for **heat** exchange. The **greenhouse** is a multi-unit combined light-transmissive **greenhouse**, wherein the middle of the **greenhouse** is provided with an air-permeable and rainproof inner shed, the **greenhouse** is divided into an upper regulating buffer area and a lower planting area, the inner top of an outer shed is provided with a mist spraying device, the outer top of the inner shed and the lower portion of a **heat** preservation curtain are provided with spraying devices, and a rainwater collecting and circulating water supply pipeline is connected to a **heat** storage pool through a water pump. The **greenhouse** environment is intelligently controlled on the basis of a sunlight **greenhouse** effect-water vapor film **heat** exchange-convection circulation principle; in the cold season, the **greenhouse** is closed, the water vapor films are adopted for **heat** exchange, **heat** is stored in water during daytime, and crops are supplemented with CO₂ gas fertilizer; during nighttime, the water films radiate infrared **heat** to warm the **greenhouse**. In the hot season, an intermittent spraying evaporation and **heat** absorption mode is utilized to enhance the ventilation cooling effect. The intelligent **greenhouse** and the environmental control method are environmentally friendly and achieve a low-carbon effect, the problem that the cost is too high when existing methods are adopted for regulating the **greenhouse** environment is solved, the remarkable effects of increasing the production, improving the quality, reducing the consumption of drugs and saving water are achieved, and transformation and upgrading of facility agriculture are facilitated.

Inventors

LI JINZE

LI KUNMING

YU DANXIA

ZHAO ZHIXIANG

Latest standardized assignees - inventors removed

YUNNAN XUWEI AGRICULTURAL TECHNOLOGY

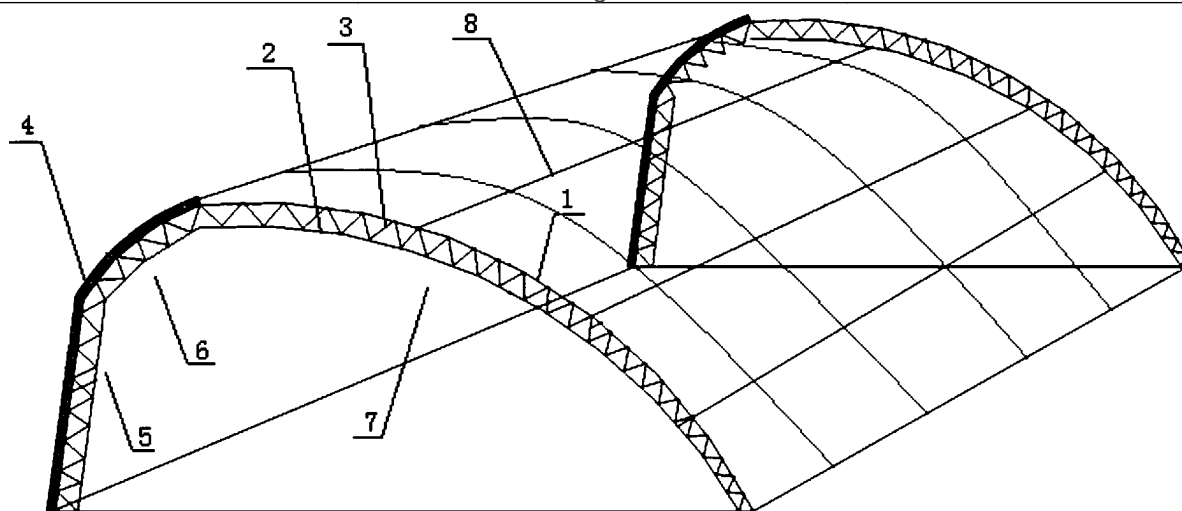
Family 3/13 - FAMPAT - ©Questel

Title

(CN104737853)

Asymmetry arch rail sunlight **greenhouse** system special for fruit trees and construction method of asymmetry arch rail sunlight **greenhouse** system

Images

**Publication numbers with kind code & date**

CN104737853

A

2015-07-01

CN104737853

**Abstract**

(CN104737853)

The invention relates to an asymmetry arch rail sunlight **greenhouse** system special for fruit trees and a construction method of the asymmetry arch rail sunlight **greenhouse** system. The asymmetry arch rail sunlight **greenhouse** system comprises a **greenhouse**. The **greenhouse** comprises a **greenhouse** body and side walls arranged at the two ends of the **greenhouse** body. Asymmetry arches are arranged on the outer portion of the **greenhouse** body. The **greenhouse** body comprises a plurality of **greenhouse** frameworks arranged side by side, and transverse pull rods arranged at equal intervals. Each **greenhouse** framework comprises an upper chord, a lower chord and connection rods, wherein the upper chord and the lower chord are fixedly connected through the connection rods. The transverse pull rods are fixedly connected with the lower chords. A plastic thin film and a **heat** preservation rear wall are arranged on the outer surface of the **greenhouse** body. By means of the asymmetry design of the **greenhouse** body, the sun incidence angle is improved to the maximum degree, more optical energy and **heat** energy are absorbed, the requirements of crop physiology for illumination and temperature are met, and the asymmetry arch rail sunlight **greenhouse** system is particularly suitable for out-of-season production of the fruit trees. The facility input cost is greatly saved, the asymmetry arch rail sunlight **greenhouse** system is suitable for operation of enterprises and individuals, and the input-output ratio of out-of-season production is increased.

Inventors

WANG YAN

WANG JINZHENG

WANG ZHENGZHUANG

LIU YONGQUAN

Latest standardized assignees - inventors removed

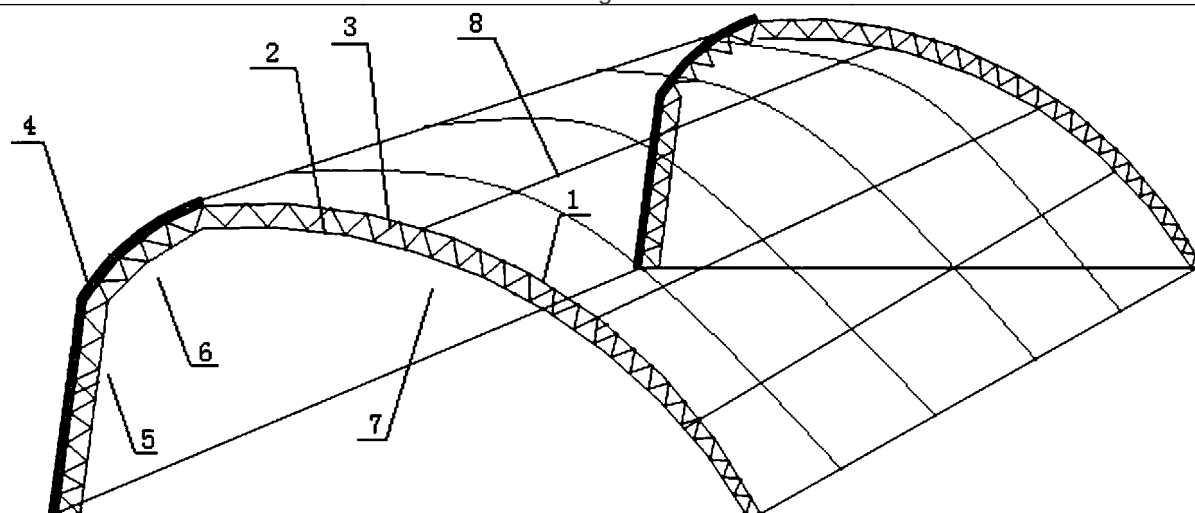
JINAN ZHENGZHUANG AGRICULTURE TECHNOLOGY

Family 4/13 - FAMPAT - ©Questel

Title

(CN204907337U)

Special asymmetric rail sunlight **greenhouse** system of encircling of fruit tree**Images**



Publication numbers with kind code & date

CN204907337

U

2015-12-30

CN204907337U



Abstract

(CN204907337)

The utility model relates to a special asymmetric rail sunlight **greenhouse** system of encircling of fruit tree, including warmhouse booth, warmhouse booth includes the big -arch shelter body and sets up the side wall at big -arch shelter body both ends, and the appearance setting of big -arch shelter body is asymmetric arch, and the big -arch shelter body includes the drag link of a plurality of **greenhouse** skeleton that set up side by side and a plurality of equidistant settings, **greenhouse** skeleton including wind up, last quarter and connecting rod, wind up and the last quarter passes through connecting rod fixed connection, drag link and last quarter fixed connection, the surface of big -arch shelter body is provided with plastic film and **heat** preservation back wall. Through the not symmetric design to the big -arch shelter body, furthest improves the sun angle of incidence, absorbs more light energy and **heat** energy, satisfies crop physiology to the demand of illumination and temperature, especially be fit for the crop especially the anti -season of fruit tree produce. Practice thrift the facility input cost greatly, be fit for company and individual operation, improve the input and output of anti -season production and compare.

Inventors

WANG YAN

WANG JINZHENG

WANG ZHENGZHUANG

LIU YONGQUAN

Latest standardized assignees - inventors removed

JINAN ZHENGZHUANG AGRICULTURE TECHNOLOGY

Family 5/13 - FAMPAT - ©Questel

Title

(CN103875438)

Greenhouse cultivation and management method of high-yield watermelons growing with multiple crops in one year

Publication numbers with kind code & date

CN103875438

B

2016-03-02

CN103875438B

CN103875438

A

2014-06-25

CN103875438



Abstract

(CN103875438)

The invention discloses a **greenhouse** cultivation and management method of high-yield watermelons growing with multiple crops in one year. The method is characterized in that the **greenhouse** technology is improved; the planting distance ratio is made to be reasonable; the continuous fruit setting technology is adopted, vegetative growth and reproductive growth are adjusted, watermelon fruit setting and watermelon seedling growth are controlled, the fruit setting number and the weight of a single watermelon are increased, and the yield per plant is guaranteed; nutrient and water management is conducted,

wherein base fertilizer is applied to the whole layer, organic fertilizer and inorganic fertilizer are combined, nitrogen fertilizer, phosphorus fertilizer, potassium fertilizer, calcium fertilizer and magnesium fertilizer are in coordination, topdressing is conducted after watermelons are harvested, the amount of fertilizer is determined according to the yield, drop irrigation is conducted with a small amount of water, and water and fertilizer are combined. Compared with the prior art, the cultivation and management method has the advantages that high yield and high efficiency are achieved, under the condition that watermelons can be produced and supplied all year around, two times to three times of seedling culture, two times to three times of field plantation, seedling management, field operation and other operations can be omitted, and seedling planting cost, labor cost and the like are lowered.

Inventors

LIU FUJIU

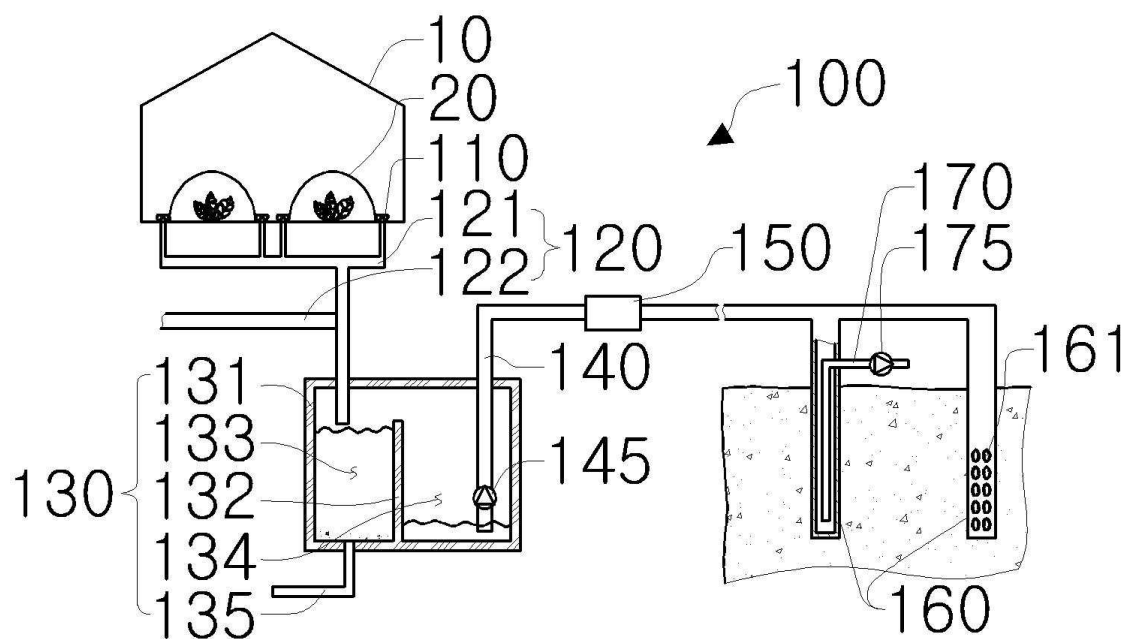
Family 6/13 - FAMPAT - ©Questel

Title

(KR101557787)

Water film water recycling system for waterproof grow greenhouse using geothermal heat

Images



Publication numbers with kind code & date

KR101557787

B1 2015-10-06

KR101557787

KR20150061264

A 2015-06-04

KR20150061264



Abstract

(KR20150061264)

Disclosed is a system for recycling water-curtain water in a water curtain house using geothermal heat. The disclosed system for recycling water-curtain water in a waterproof greenhouse using geothermal heat comprises: a water-curtain water collection member which collects water-curtain water supplied to the water curtain house; a collection tank in which the water-curtain water collected in the water-curtain water collection member is accommodated; a water supply pump which discharges the water-curtain water accommodated in the collection tank to the outside of the collection tank; and an

injection tubular well which injects the water-curtain water discharged from the collection tank by the water supply pump into the underground. According to the disclosed system for recycling water-curtain water in a waterproof **greenhouse** using **geothermal heat**, after water-curtain water used for thermal insulation in a water curtain house is collected by the water-curtain collection member, the water is filtered through a precipitation process in the collection tank, is quickly permeated into the surrounding underground of the water curtain house by the injection tubular well and is combined with the groundwater, thereby artificially recharging the groundwater near the water-curtain house promptly. As a result, the water-curtain water used in the water curtain house can be recycled in artificial groundwater recharge.

Inventors

KIM HYEONG MO

PARK KI YOUN

SEO JUNG JIN

Latest standardized assignees - inventors removed

KOREA AGRICULTURAL & RURAL INFRASTRUCTURE

Family 7/13 - FAMPAT - ©Questel

Title

(CN105981540)

Quick cultivation method for KF156 middle-of-south 128 hybridized ginseng

Images

Publication numbers with kind code & date

CN105981540	A	2016-10-05	CN105981540
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**Abstract**

(CN105981540)

The invention discloses a ginseng cultivation technology in the field of planting of agricultural special types and in particular relates to a quick cultivation method for KF156 middle-of-south 128 hybridized ginseng. The method comprises the following steps: selecting and establishing a ginseng cultivation site, preparing soil of a reference bed, and building a shed; accelerating germination of the hybridized ginseng by utilizing a modern method, sowing, growing seedlings, transplanting, cultivating, carrying out management, carrying out field cultivation management by utilizing self-made thoroughly decomposed manure and plant straw bioreactor technique and scientific water utilization and fertilization, and preventing and controlling diseases and pests by utilizing physical and biological techniques. The method disclosed by the invention has the advantages that a dormant period in growth of ginseng is overcome, so that the ginseng grows quickly; quick growth of roots, stems and leaves of the hybridized ginseng are promoted, so that the leaf area, photosynthesis and time effect during growth of the ginseng are improved; and nutrient substance or nutrients generated by the ginseng are increased, so that the root part of the ginseng is expanded quickly, the quality of the ginseng quickly cultivated for 8-10 years is equivalent to the quality of wild ginseng growing for 20-30 years in Changbai Mountain forest regions in Jilin, and quick high-quality high-yield cultivation of the hybridized ginseng is realized.

Inventors

KONG YUNRONG

Family 8/13 - FAMPAT - ©Questel

Title

(CN103875384B)

Efficient cultivation method for fine varieties of small watermelons

Publication numbers with kind code & date

CN103875384	B	2015-06-10	CN103875384B
CN103875384	A	2014-06-25	CN103875384

**Abstract**

(CN103875384)

The invention relates to an efficient cultivation method for fine varieties of small watermelons. By taking measures of single-line high-density planting, 'one-main and one-side' pruning, double-curtain covering temperature raising, bacterial manure application and efficacy enhancement, under-film micro-jetting **heat** insulation, carbon dioxide application, continuous cropping and fruit setting by using the second crop of watermelons, the unimaginable yield of the fine varieties of the small watermelons is improved.

Inventors

MA CHAO

CENG JIANBO

ZHANG SHITONG

LI LIN

CHEN YANLI

LI TING

Latest standardized assignees - inventors removed

BEIJING AGRICULTURE TECHNOLOGY PROMOTION STATION

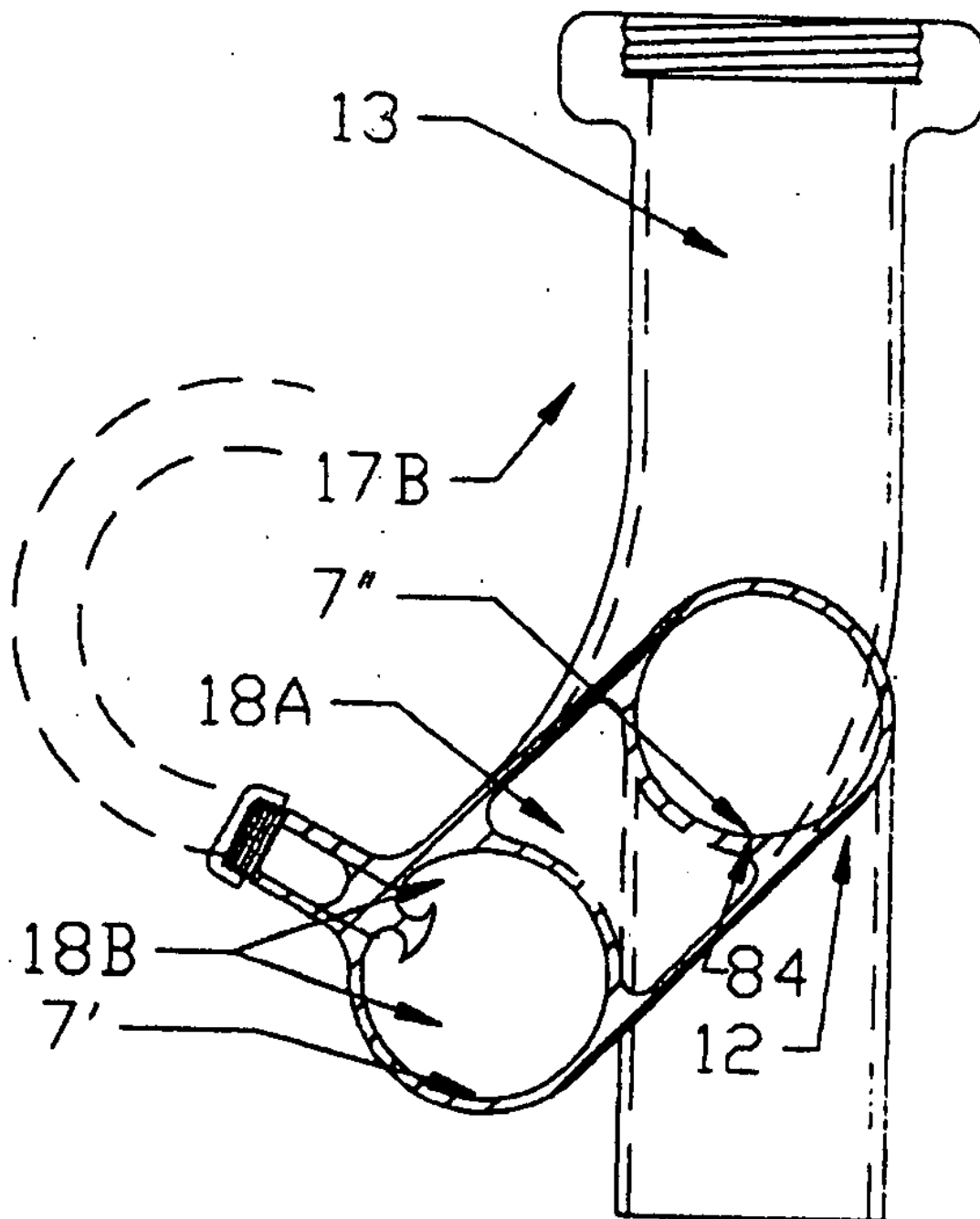
Family 9/13 - FAMPAT - ©Questel

Title

(US20100230508)

God device genres cadres

Images



Publication numbers with kind code & date

[US20100230508](#)

A1 2010-09-16

US20100230508



Abstract

(US20100230508)

Globose-conduit (GC) conforming embodiments Universe of quintessential, core, natural disposition mass energy highest conserving (QCNDMEHC) forces completely matched complete complements compact composite Sets. 'Fluids functions' conforming least mass compositions at highest elevations least GC height least length continuous compact composite, fluid free-surfaces composite least rotations, fluids quanta forms least height perimeters most conserve mass energy. Buried GC QCNDMEHC thermal aqueducts transfer their mass-energy **heat** portion into subsoil, combat 'global warming', the Earth's crust surface cooling, sea levels rising and submicroscopic, subatomic to cosmos mass systems **heat** energy forced electro-thermodynamics electromagnetics perimeters buoyancy/density, evaporation and suction. Universal stratifications, gradations (SG) processes 'global warming', energy crises and water masses depletions which imperil the Earth's survival, fluids MEHC, QCMEHC and QCNDMEHC combat; the God device said Earth's fluids 'functions', said perimeters' mass energy highest conserving said cadres genres ardently enforce.

Inventors

PETROVICH SVETOZAR B

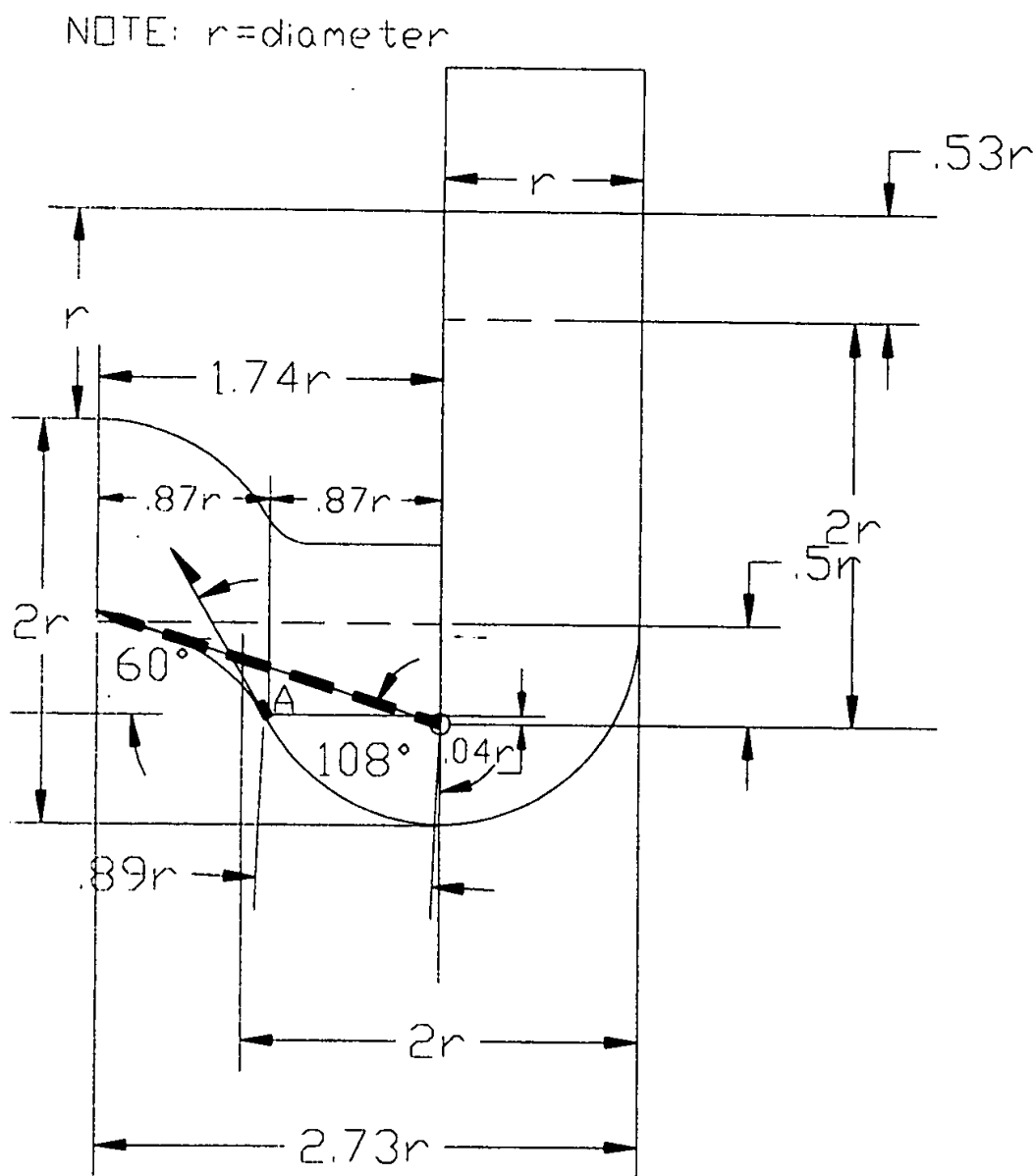
Family 10/13 - FAMPAT - ©Questel

Title

(US20100208860)

GC QCMEHC nuclear power plants

Images



Publication numbers with kind code & date

US20110290899

A1 2011-12-01

US20110290899

US20100208860

A1 2010-08-19

US20100208860



Abstract

(US20100208860)

Globose-conduit (GC) perimeter boundaries formations mass energy highest conserving (MEHC) Sets, balanced nuclear power plants, in millennium lifespan generate safest environmentally most friendly electric power; said perimeter boundaries' formations, multiple and serial enclosures, constitute a globose foundation globose reactor vessel, a containment building with a lower perimeter ancillary annex building for multiple primary coolant loops, light water reactors

pressurized system, GC conduit tuned piping mass energy processes and buildings complex, boundaries safely closed perimeters. Two or four globose steam generators/separators two or four high pressure pumps' coolant loops and the reactor's support equipment floors in the annex building outside of the containment symmetrically align high pressure and temperature GC MEHC boundaries respectively two or four processes generated electrons turbine-generator buildings. The reactor, steam generators, processes piping and turbine-generators make GC mass energy formations.

Inventors

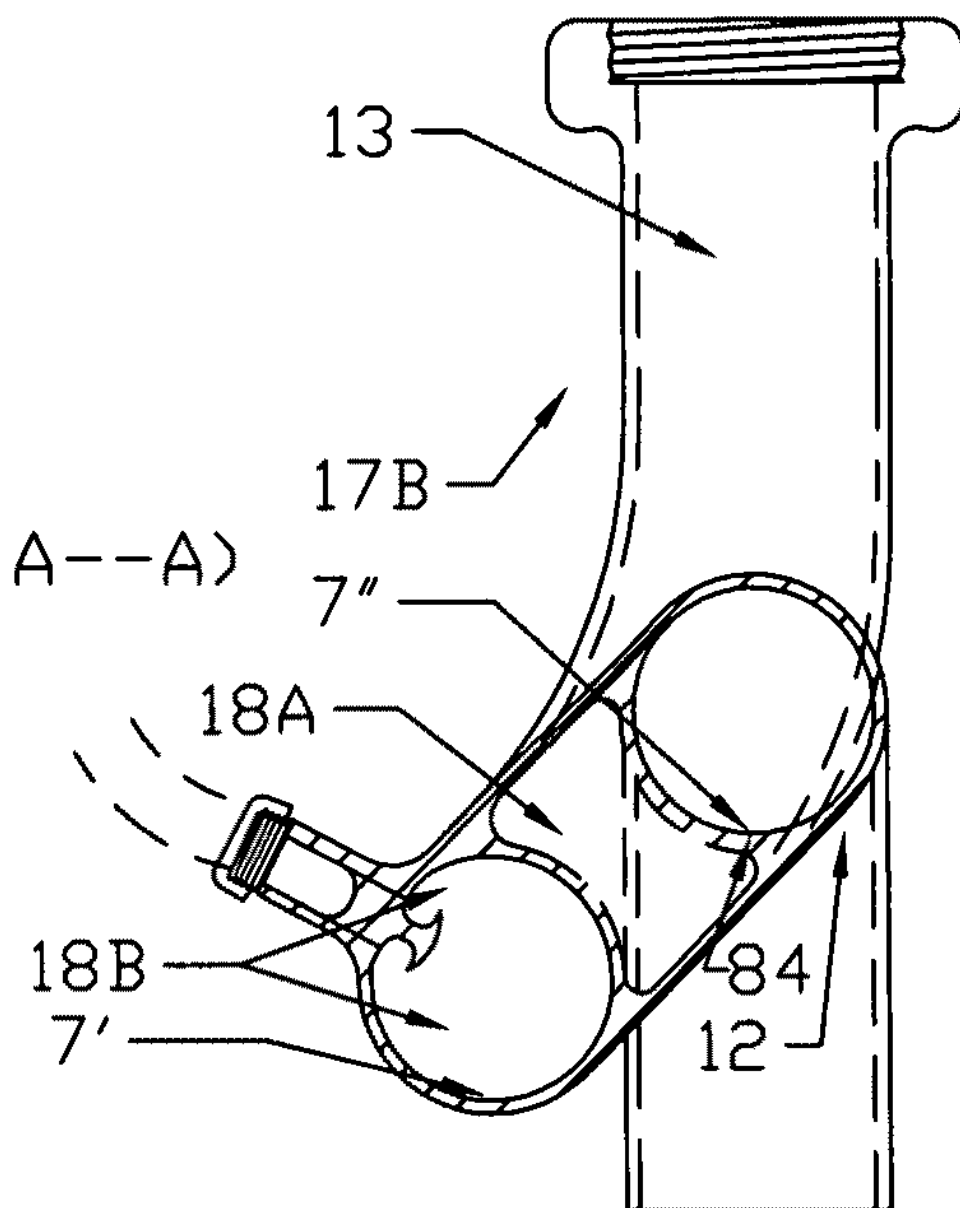
PETROVICH SVETZAR B

Family 11/13 - FAMPAT - ©Questel

Title

(US20110240755)

God forms' Genres

Images

Publication numbers with kind code & date

[US20110240755](#)

A1 2011-10-06

US20110240755



Abstract

(US20110240755)

An advanced Processor couples magma and mantle magnetic field functions, couples mantle quanta masses vital groundwater, polar caps and glaciers, and less couples continental waters and oceans, partially decoupling atmosphere, and least coupling the ionosphere and its transiting ions and electrons; said mantle solidified boundaries contain most of Earth internal **heat** and electrical energy transfers, lessening gaseous fluids boundary distending and Earth's cooling weakening of magnetic field; Fluid Elements mass energy highest conserving (MEHC), and quintessential core natural disposition (QCNDMEHC) functions crucial processes, configure complete compliments sealed boundaries longevity, forms least energy of distortion volume changes, with stratifications gradations and no forbidden mechanisms plasma fountains; fluids composition, optimal diatomic atmosphere, and mass energy MEHC genres embody God's forms which include Fluid Elements.

Inventors

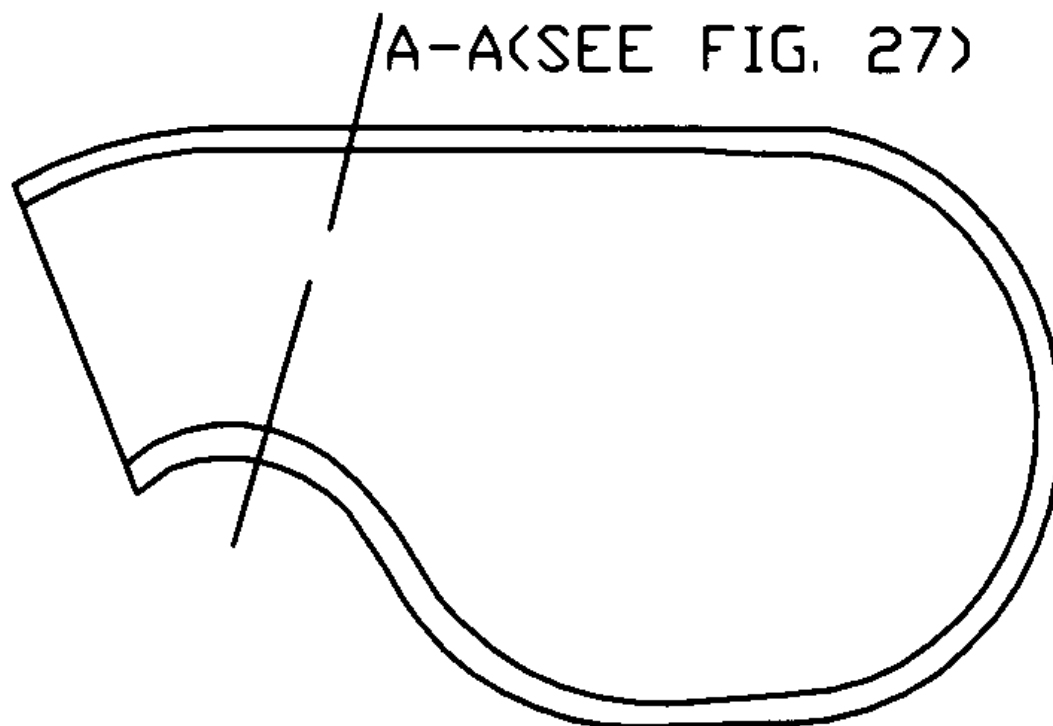
PETROVICH SVETOZAR B

Family 12/13 - FAMPAT - ©Questel

Title

(US20110290900)

Domains of fluid elements

Images**Publication numbers with kind code & date**[US20110290900](#)

A1 2011-12-01

US20110290900

**Abstract**

(US20110290900)

An advanced Processor coupled the Earth's magma and mantle with magnetic field functions couples mantle quanta masses vital groundwater, polar caps and glaciers, less couples continental waters and oceans, partially decouples atmosphere and least coupled the ionosphere mass and its electrons; crusted mantle boundaries constrain most of **heat** and electrical energy outflows which slow the Earth's cooling rate and gaseous mass boundaries distending that weaken said magnetic field functions; mass energy highest conserving (MEHC) with Fluid Elements quintessential core natural disposition (QCNDMEHC) functions crucial processes configures complete compliments sealed boundaries longevity

energy of distortion and volume changes which permit stratifications gradations forbidden mechanism processes forced plasma fountains outflows; optimally diatomic atmosphere compositions MEHC genres constitute Fluid Elements, Isotopes, and Ions principles, methodologies, innovations, and inventions (FEIIPMII), disclosed sciences applied technologies. Energy highest conserving fluids' configured key Fluid Elements comprise advanced Processors.

Inventors

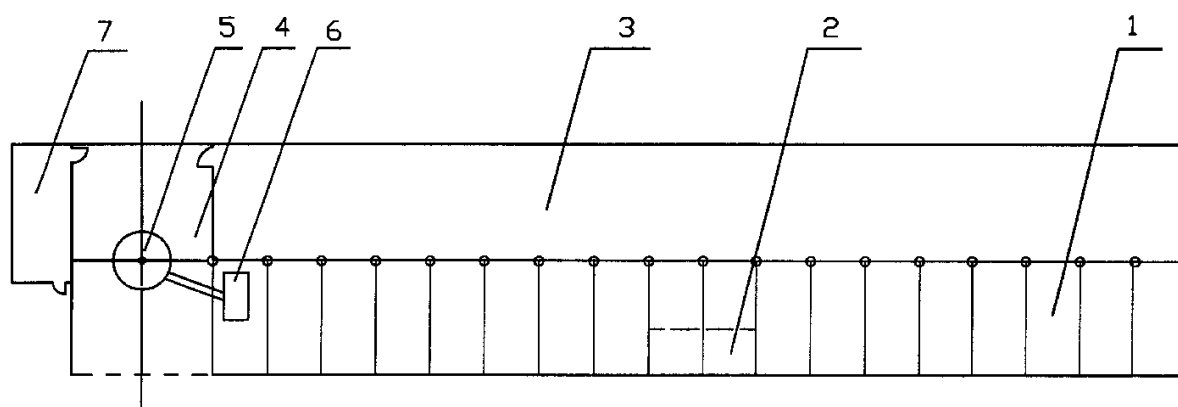
PETROVICH SVETOZAR B

Family 13/13 - FAMPAT - ©Questel

Title

(CN2764771U)

Comprehensive development and utilization apparatus for organic, ecological and environment-friendly biogas energy source

Images**Publication numbers with kind code & date**

[CN2764771](#)

Y

2006-03-15

CN2764771U

**Abstract**

(CN2764771)

The utility model relates to a comprehensive development and utilization apparatus for organic ecological biogas energy sources with environmental protection, which comprises a daylight **greenhouse** and a protecting house, wherein a pigpen, a fruit and vegetable planting house and a cow house are built in the daylight **greenhouse**; a biogas generating pit and an output pool of biogas fertilizer are built in the pigpen; a fruit and vegetable storage cellar is built under the ground of the fruit and vegetable planting house. The utility model solves the problems of the consumption and waste of energy sources of the separated cultivation and planting of greenhouses in the northern area of China, environmental pollution, the insufficient supply of carbon dioxide of plants and the air hunger of animals. With the rational layout of the cultivation and the planting in the greenhouses, the fruit and vegetable planting and the animal cultivation in the greenhouses in winter can be carried out simultaneously. Organic matters can regenerate the biogas energy sources to exploit and save the energy sources. The energy utilization rate is high, and the ecotype comprehensive development and utilization is realized. The utility model is favorable for protecting ecological environment and suitable for the frigid areas and the subfrigid areas of the northern part of China.

Inventors

XIA ZHONGJUN