



## **ALERTA TECNOLÓGICA**



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## **ENERGÍA SOLAR FOTOVOLTÁICA**

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- **Photovoltaic solar panel array based on the cooling system of Internet of Things.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209184558U	China	Xuzhou College of Industrial Technology	2019-01-24

**Resumen:**

The present utility model discloses a photovoltaic solar panel array based on the cooling system of Internet of Things, including ground platform, there is arranged a photovoltaic solar panel array above the ground platform; photovoltaic solar panel array includes at least a 1st column photovoltaic solar panels that are distributed in parallel to each other, 2nd column photovoltaic solar panels, solar panels and 4th 3rd column photovoltaic solar panel photovoltaic column; the present utility model has a simple structure, a photovoltaic array to the number of whole sink rail in a groove under the photovoltaic solar panel array forms a meandering below the water channel, and a natural evaporation of water in the water channels utilizing the characteristics of the heat absorbing ambient heat capacity, and thus achieving a preliminary cooling effect; robot to forcibly cool the cooling may also be started at the same time.

- **Photovoltaic solar panel cleaning maintenance device.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209462336U	China	Gu Xun	2019-04-12

**Resumen:**

The present utility model provides a photovoltaic solar panel cleaning maintenance device, adapted to the production of a solar panel cleaning technology to the field of



application, cleaning and maintenance device comprises a photovoltaic solar panel, the cleaning tank, a cleaning bin includes at its left and right ends of the hinge by a hinge plate is rinsed by two walls, and a cleaning plate for cleaning boxes the length of the two one-half of a length, a width of the two cleaning plates having a width equal to the purge bin, the present utility model has the advantages that: L-shaped slide through setting, the power ramp, and a brush plate side bars, thereby effectively reducing the phenomenon of recontaminated, through the water tank is provided at the same time, the water inlet pipe, a pump, a water outlet pipe and a pumping pipe, the secondary source of the object is achieved by, effectively saving the water source, enhancing the practicability of photovoltaic solar panels which cleaning maintenance device, a photovoltaic solar panel cleaning apparatus for maintaining the existing utility supply and waste of the problem of low.

- **Easy-to-mounted photovoltaic solar panel.**

<b>Publicación</b>	<b>País de origen</b>	<b>Solicitante</b>	<b>Fecha de prioridad</b>
CN209267511U	China	Henan Yaoye Power Engineering	2019-02-01

**Resumen:**

The present utility model discloses a photovoltaic solar panel is easily installed, includes a housing, a back plate, the mounting plate, a positioning hole installed, T-shaped, T-shaped block, the fastening pins, connecting the pin holes, a photovoltaic solar panel body, a mounting base, a bearing plate, 1st spring, damping rubber, fixing seat, a piston plate, 2nd springs, tie bars and a cylindrical groove, a back side of the housing is provided with two backplates, both sides of the backplate is provided with a connection box, and a connecting pin hole of the securing pin installed with, the fastening pins extend through the pin holes are connected with the



housing is connected, at both ends of the backboard is attached to the mounting plate through bolt, and the mounting plate is mounted on both sides of the positioning holes are formed, the inside of the housing is fixedly attached to the mounting base, and is attached to the chassis of the photovoltaic solar panel arranged on the top of the body, the photovoltaic solar panels, securing a stable, has excellent impact resistance; at the same time, it is possible to apply a different sized solar rack, convenient installation.

- **Household photovoltaic power generation device.**

<b>Publicación</b>	<b>País de origen</b>	<b>Solicitante</b>	<b>Fecha de prioridad</b>
CN209358493U	China	Zhengzhou Railway Vocational & Technical College	2019-03-05

**Resumen:**

The present utility model discloses a photovoltaic power generation device home, including photovoltaic solar panels, solar controller, the battery pack, an inverter and a bidirectional electric meter, a photovoltaic solar panel is electrically connected with the energy controller, and a battery electrically connected to the energy controller, electrically connected to the battery and an inverter, the inverter is connected to the two-way meters, two-way meter while the connection grid, the inverter is further connected to a household appliance, characterized in: a photovoltaic solar panel is provided with cleaning means. The present utility model small investment, a cost increase is limited, and can prompt cleaning photovoltaic solar panel, to improve power generation efficiency of the photovoltaic solar panels, also increases the lifetime of the photovoltaic solar panels.



- **Photovoltaic solar panel.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209419561U	China	Cixi City Rixing Electronics	2019-01-30

**Resumen:**

The present utility model relates to a photovoltaic solar panel, the techniques involve photovoltaic field, where the leaf is solved once falls and other debris onto the photovoltaic solar panels, can cause the problem of the hidden part is not able to convert an energy source, which includes a frame plate is provided for cleaning a brush, a brush is also provided for fixing a brush holder, the holder is provided with a fixed block, both sides of the fixed blocks are provided with a connecting rod, a connecting rod is provided with a slider, the frame is also provided with a shelf for placing a brush supply, with the frame plate is placed on the connecting rod is connected with the slide for slide blocks each provided with a slide groove, and a sliding groove communicating with each other with the outside world, the slider is provided with slide grooves of the shielding block is closed. The present utility model has a convenient cleaning of photovoltaic solar panels, to increase the usable area of a photovoltaic solar panel, thereby improving energy conversion efficiency results.

- **Mirror photovoltaic solar panel frame assembly.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209250564U	China	Jiangyin Yurun Energy Technology	2019-01-07

**Resumen:**

The present utility model discloses a photovoltaic solar panel frame assembly mirror surfaces, includes: department of storage, which is a hollow structure department of



storage, which is provided with an internal cavity through the opening of the open top end, is formed with an internal cavity space chu na; and a collapsible support portion, the collapsible support includes: a retractable member, the retractable member is mounted to the inner space chu na, and an adjustable support, which supports a base end connected to the retractable member is regulated; bracket portion and the side frames, the frame holder portion and the adjusting support member attached to the top; and photovoltaic solar collector mirror, the photovoltaic solar energy collector is fixedly connected with the frame bracket portion of the top mirror base. The present utility model of a photovoltaic solar panel bezel assembly for a mirror surface, through the setting of the department of storage, it is possible to better protect the photovoltaic solar collector mirror is not deep hard, soil damage.

- **Photovoltaic solar panel cleaning apparatus.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209406902U	China	Tianjin Kehang Electronic Technology	2019-01-09

**Resumen:**

The present utility model provides a photovoltaic solar panel cleaning apparatus, comprises a panel mount, the shielding plate, a solar panel, the fixing rod, a support rod, may be observed spraying the cleaning box structure, a slidable cleaning brush structure is fixed, may be filtered collection tank structure, the sliding rod, bolt, support plates, diagonal struts, collections, storage case and the box cap, the protective sheet bonded to the bottom end of the mount panel inside. The present utility model the slide tube, moving rod, the sleeve pipe, and the brushing of the hair conditioning holder is provided, the solar panel to facilitate brushing operation, enhancing the cleaning efficiency; surge tank and the flushing tube is provided,



facilitates the use of fresh water rinsing the surface of the solar panels, solar panels do not facilitate cleaning of the stains present on the surface is prevented; collection box, the connecting plate and fixed plate are provided, the sewage collected solar panel to facilitate cleaning of the surface, preventing thereby wasting the resources.

- **Photovoltaic solar panel assembly.**

<b>Publicación</b>	<b>País de origen</b>	<b>Solicitante</b>	<b>Fecha de prioridad</b>
CN209267512U	China	Henan Yaoye Power Engineering	2019-02-01

**Resumen:**

A photovoltaic solar panel assembly, a solar photovoltaic installation is solved in the prior art is often complicated installation of the assembly, and an angle adjusting difficulties, while cleaning it is not convenient, the problem of detrimental to be used, including a base plate, support post, a water-collecting bucket, pelton set, 1st servo motor, a rotating shaft and photovoltaic solar rack, both ends of the front of the base are welded to a support post, a middle portion of a water-collecting bucket frame on one side the support pole is welded, soldered with the top of a watercollecting bucket pelton set, one side of the support post near the top end is attached to the servomotor 1st, the tip of the support column is attached to the shaft through photovoltaic solar rack, the rack having an arcuate base portion is welded to the photovoltaic solar rack, provided with an arc-shaped stand in the middle of the slot, the present utility model has novel structure, ingenious, angular adjustment to the photovoltaic solar panels may be, for photovoltaic solar panels may be simultaneously cleaned, and can save water, ease of use.

- **Weather-proof photovoltaic lighting device.**



Publicación	País de origen	Solicitante	Fecha de prioridad
CN110131646	China	University of Xiamen	2019-04-03

**Resumen:**

The present invention discloses a weatherproof photovoltaic lighting device, which comprises a base, a mounting plate, a lamp body, a flashing, is movably attached to the front and rear mounting plate and the base is assembled with like wall; lamp body mounted on the base and is provided with a rechargeable Li battery therein, which are disposed outside the light source and photovoltaic solar panel, rechargeable lithium battery and photovoltaic solar panel as power supply sources; as to be vertically movably attached to the lamp body flashing, which is downwardly extending across a lateral cross-section is a flashing arc. Since the lamp installation outdoors, above the lamp body is attached with a flashing action, which is capable of flashing block to the rain, the outer lamp body can be prevented for a long time due to the damage of the illumination lamp caused by rain water rinsing step, it is possible to enhance the lifetime thereof. Also, makes it possible to adjust the height of the waterproof sheet, so that a better flashing fendering to the lamp body. At the same time, the mounting plate can be moved back and forth relative to the base, the lamp can be mounted in a suitable position so that a better lighting effect of the lamp body.

- **Photovoltaic solar panel adjustment device.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209299197U	China	Liu Jingjiang	2019-03-08

**Resumen:**





The present utility model discloses a photovoltaic solar panel adjustment device, which comprises a base, two support columns fixedly connected with the top of the base, two supporting columns of the webs between the front and back sides of the fixed connection with respectively, through the hinge shaft and two support posts tops of both of the mounting frame is hinged at the bottom, a mounting bracket by a screw is fastened to the top of the solar panel body, a mounting bracket is secured to the sector gear plate at the bottom of the middle, the worm gear meshes with the gear plate the bottom of the fan, the worm gear shaft to rotate the support block is connected with two side surfaces. Through the spring and the retaining nut which cooperate with slider supported and fixed in the lower, so that the mounting angle of a stable fixed, thereby completing the angle adjustment of the solar panel body, at the same time as the seasons change, the angle of the mounting bracket can be continued, so that maximum irradiation of light absorption of solar panels, thereby improving power generation efficiency of the solar panel, the device adjusts the angle is large, the operation is simple and convenient, stable support.

- **Producing a photovoltaic solar panel fixing device.**

<b>Publicación</b>	<b>País de origen</b>	<b>Solicitante</b>	<b>Fecha de prioridad</b>
CN209283141U	China	Guo Zhangning	2019-03-07

**Resumen:**

The present utility model discloses a method for producing a photovoltaic solar panel fixture, comprising a supporting board, the legs are welded to a blanket is below the support plate, a support plate surface formed with a mounting slot, the mounting trough is provided with solar panels, solar panels are provided at both ends of the platen, the platen through bolted to the 1st support plate, on both sides of the support plates are welded to one end of the bump 1st, and the other end of the support plates



are welded to the both sides are 2nd bumps, the bumps are mounted on the motor forward and in reverse 1st, an output shaft of the motor counter-rotating drive shaft coupling is connected through the screw, the screw at the other end pivotally connected with a 1st stopper. The present utility model is placed on a support plate through the mounting grooves of the solar panels, solar panels are pressed against the platen is then used at both ends, and is fixed on the support plate through the pressure plate bolts 1st, so that the solar panels are stationary.

- **Photovoltaic energy source integrated with the system.**

<b>Publicación</b>	<b>País de origen</b>	<b>Solicitante</b>	<b>Fecha de prioridad</b>
CN109959171	China	Zhengtai Integrated Energy	2019-04-28

**Resumen:**

The present invention provides a system for comprehensively utilizing the photovoltaic energy, including photovoltaic solar panel, a controller, capable of hydrogen storage system, the battery cell and the photovoltaic heat storage system, coupled to the controller board photovoltaic solar energy, with the hydrogen storage system controller can, the battery unit and the photovoltaic heat storage system are connected. For converting light energy into a photovoltaic solar panel power, under the action of the controller, electric power is preferentially supplied heat storage system for a photovoltaic, the excess power is supplied to the hydrogen storage system under the action of the controller and a battery unit capable. The photovoltaic solar panels, photovoltaic-storage system, hydrogen storage energy system, for operative attachment of the battery cells, such that the excess solar energy is fully utilized, thereby achieving an energy storage synthetic application of, avoiding the waste of resources.



- **Photovoltaic solar panel array based on the Internet of Things.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209389995U	China	Xuzhou College Of Industrial Technology	2019-01-24

**Resumen:**

The present utility model discloses a photovoltaic solar panel array on the basis of Internet of Things, including the obliquely arranged photovoltaic frame; also includes a photovoltaic support plate parallel to each other with a photovoltaic frame supporting shaft, a supporting plate supporting the shaft through a plurality of support bars and photovoltaic photovoltaic bracket fixedly attached; the present utility model has a simple structure, and a right-left windlass winch through respectively led out of the right and left towlines controlled by controlling the length of the photovoltaic panels towlines supporting plate supporting the shaft to rotate the photovoltaic support angle, and thus achieving the effect of the support plate to control "orients the" photovoltaically, allowing direct sunlight photovoltaic support plate is always maintained, thereby increasing the power generation efficiency.

- **Photovoltaic solar panel fixed clamping device.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209266430U	China	Henan Yaoye Power Engineering	2019-02-01

**Resumen:**

The present utility model discloses a photovoltaic solar panels are stationary clamping device, includes a stationary platform, the clamping assembly, and a lift assembly emissions processing unit, a fixed platform is disposed on a 1st fixing



groove, and the 1st pass to the other side of the fixing grooves vertically fixed platform, fixed platform top is provided with a 2nd fixing groove, and the 2nd to the fixed platform by vertically fixing groove bottom, the fixing grooves bilaterally symmetrical 2nd through each set of clamping assemblies are provided, the fixed platform is provided with the emissions processing assembly, the intermediate layer is provided with lifting assembly fixed to the bottom plate; the present utility model, transfer times is reduced, and improving the work efficiency; be clamped to the photovoltaic solar panels to facilitate, for ease of manufacture, while contributing to a photovoltaic solar panel damage; facilitating the removal of waste and debris collection is performed, the processing quality is improved.

- **Dry-type transformer fountain.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209087489U	China	Hubei Jinteli Electric	2019-01-10

**Resumen:**

The present utility model discloses a method for dry-type transformer of the LED lamp, comprises a transformer housing, a front end face of the housing is provided with a door on the transformer, is attached to one side of a door hinge, and a hinge is provided with two, bouncing lock box door is mounted on the other side, a front end surface of the door are provided with a pointer instrument, pointer instrument is provided below a lamp, a door is provided with a heat-dissipation holes, transformer housings is provided under the base, a base provided below a universal wheels, pulleys is provided inside the casters, one side is provided with a brake button of the pulley, the pulley is set above the caster bracket, screw shaft provided with an upper surface of the bracket and the universal wheels, and the screw shaft and the caster wheel holder as an integral



structure. The present utility model is provided a photovoltaic solar panel through, it is possible to convert solar energy into electrical energy by using a transformer, to save energy, and environment-friendly.

- **Solar cell having a modified structure.**

<b>Publicación</b>	<b>País de origen</b>	<b>Solicitante</b>	<b>Fecha de prioridad</b>
KR102024885	Corea	Dong Bingji	2019-05-23

**Resumen:**

The present invention relates to a modified structure having a solar photovoltaic power generation in the present invention. Specifically, the passage of a conventional prior art on the road surface can be in the form of a closed side and upper surfaces of the bearing structure is constituted, on one side of the bearing structure so as to permit the photovoltaic solar panel provided on the bearing structure of all the power for operating the secured on the other hand, depending on the orientation of the constructed structure, falling rain, snow, the upper surface of the road surface foreign substances reported so as not to fall while, on the other side of the upper bearing structure as the drain region, an upper side of the bearing structure to fall so that the orientation of the material can be discharged from the structure, the structure having a solar photovoltaic power generation being adapted. Furthermore, electric power through a solar panel can be ensured by, passing through the orientation structure of the moving means is operated when the power, the power supply to the mobile unit can also be achieved.



- **Mining winch mounted localizer.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN110260854	China	Longkou Mining	2019-06-10

**Resumen:**

The present invention discloses a mining technology in the field of a mining winch mounted positioning apparatus, comprising a base, mounting plate, U-shaped mounting plate, and a horizontal positioning means intelligent display device, the mounting plate and a U-shaped mounting plate is welded to the top of the base, the present invention are, 1st 2nd set of the shaft and the adjusting shaft, which will facilitate adjustment of an angular laser light, excimer lamp body fixed conveniently, the adjustment bolt, adjustment slots and adjustment plate arrangement, the inclination of the storm hood body facilitate ease of adjustment, setting of the storm hood body, of the device is useful to enhance the effect flashing, further improving the shield effect, and a photovoltaic solar panel of the controller is provided, which convert light energy into electrical energy can be facilitated, and energy-saving effect is enhanced, the laser light of the lamp body is provided, the device serves to facilitate ease of aligning effect, further enhancing the positioning effect of the time of installation, increased utility functions.

- **Object-based networked intelligent photovoltaic cooling robot.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209390015U	China	Xuzhou College Of Industrial Technology	2019-01-24

**Resumen:**



The present utility model discloses an intelligent Internet of things based photovoltaic cooling the robot, including zigzag arrangement of , including left and right groove edge sink rail groove edge, the left side of the slot and the right first meandering slot is formed between a brim; further includes cooling the robot, the robot can travel along a tortuous extending direction of the cooling gas to the spray cooling path of travel of the moisture, and the cooling water within the water inlet end of the robot can be sucked up trough; the present utility model has a simple structure, in a photovoltaic solar module in extreme weather exposure of an inflammatory active cooling mechanism which is activated, for effective cooling of the photovoltaic array immediately, to avoid damage to the photovoltaic panel under exposure; completely intact strip after cooling the robot walks on the overall photovoltaic solar panel array sink rail to achieve uniform infiltration of water spray cooling, the cooling effect of the force.

- **Electromagnetic photovoltaic tracking code disk.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209375563U	China	Jiangsu Jianzhu Institute	2019-03-25

**Resumen:**

The present utility model discloses an electromagnetic type photovoltaic tracking a disc, comprising a particle placement pool, a pool of nanoparticles are placed is fixed onto the side of the mounting block, disposed outside of the pool having the transparent protective cover movably mounted to the particles, the upper end of the mounting block mounting bolt movably mounted, a mounting bolt and a transparent



shield positioned between the particles through an active connection pool, a support rod having an upper end of the rocker is movably mounted, a support rod fixedly attached to the back of a disc, a support rod fixedly attached to the upper end of the shielding plate, the rocker plate is fixedly attached to the sides of the position, the upper end face of the support is fixedly mounted with a solar panel, a bottom plate provided with an intermediate position which is fixed. The electromagnetic tracking photovoltaic-coded disc, an ingenious combination with a solenoid using a photovoltaic solar panel, a photovoltaic power generation mode has finished photovoltaic tracking function, the function of the sun as a source for directly, without manual operations, enhanced overall applicability.

- **Heat-transfer heat of the solar heat device consisting of neopentyl glycol.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209292256U	China	Jiangsu Jianzhu Institute	2019-01-02

**Resumen:**

This utility model is designed to transmit a new solar heat device for heat pentanedlol superconducting heat pipes, including solar panels, photovoltaic controller, a temperature switch, a hot plate, a heat-, purification kettle, power storage device, a temperature sensor, crystal kettle, wire, a manual switch; characterized in: the photovoltaic solar panel is connected to the controller through wire; photovoltaic controller with a temperature control switch is connected through wire; with the power accumulating device is connected through wire photovoltaic controller; power accumulating device is connected through wire and a temperature control switch; wire is connected to a manual switch secured; are joined through the glow wire





temperature switch; hot plate is fixedly connected with the superconducting heat pipes; purification kettle placed vertically in a heat-within; purification kettle temperature sensor is fixedly connected with the inner wall; temperature sensor with the temperature switch is connected through wire; purification kettle through conduit is connected to the

crystal kettle neopentyl glycol; superconducting heat pipe is fixedly attached to a catheter placed in a helical manner consisting of neopentyl glycol, includes an environmentfriendly, rapid heat, controllable heat temperature, the advantage of cost savings.

- **Horticultural landscape lighting device.**

<b>Publicación</b>	<b>País de origen</b>	<b>Solicitante</b>	<b>Fecha de prioridad</b>
CN110056818	China	Anhui Haoce Information Technology	2019-04-24

**Resumen:**

The present invention discloses a garden landscape lighting device, including a mount, the mount support posts are provided on top, a light-transmitting shell is provided around the outside the pillars, the pillars and the transparent shell is uniform among LED light tube is provided, the support posts are provided on top support plate, a supporting plate is provided with a top mounting plate, the mounting plate is provided with a solar panel on top, the bottom mounting plate is uniformly provided with an illuminating lamp, a lighting lamp is arranged to support both side plates, the support posts are provided within the data transmission device. The present invention is provided with a photovoltaic solar panel and battery through the converter, the solar panel absorbs solar energy and convert solar energy into electrical energy through the photovoltaic battery converter is then stored in a



storage battery, a battery powered LED light tube and the lamp for, energy saving and environment.

- **Confirmation of water pipe location and real-time management system.**

Publicación	País de origen	Solicitante	Fecha de prioridad
KR102001969	Corea	Bu Kyong Engineering	2019-04-30

**Resumen:**

The present invention relates to water and sewage pipe embedded in the embedded weekdays locating water and sewage pipeline in real time and for positioning and laying in a real time management system of the present invention. In accordance with an embodiment of the present invention water and sewage pipe buried positioning and real time management system is buried under the water and sewage pipe is buried water and sewage pipe installed in pipeline laying unit that provides information, wherein the pipeline laying unit provided in the external communication device on the ground so that the information is provided on the ground unit, and the embedding unit and electrically coupled to a ground unit and a connection cable, water and sewage pipeline laying unit is adapted to the specifications of a specification that is stored in a memory, wherein the water and sewage pipe lines and measuring the position of a satellite communications GPS module, and the specifications stored in a memory provided in a specification information and position information GPS module in wireless communication with an external communication device comprises a wireless communication module, wherein said ground unit is configured to receive satellite signals GPS module that provides an antenna module GPS GPS, wherein the wireless communication module receives a communication signal transmitting antenna and a communication module, the wireless communication module GPS module and a power supply for operating the



secondary battery 2, the secondary battery 2 to charge the electric power by a photovoltaic solar panel, the connecting cable is connected to the connection terminals of the connector, water and sewage pipe lines and changing the position of the change in position of a ground unit or the connecting cable in any external force acting on said connection terminals in the connector is separated to prevent disconnection of the connecting cable comprises a disconnection prevention portion. Thus, water and sewage pipeline accurately detecting the position of the can.

- **Commercial solar auto-complementary charging circuit.**

<b>Publicación</b>	<b>País de origen</b>	<b>Solicitante</b>	<b>Fecha de prioridad</b>
CN110011401	China	Xuchang University	2019-04-17

**Resumen:**

The present invention discloses a self-complementary charging circuit for commercial solar energy, including solar modules, output modules for automatically switching modules and the commercial power; 12 V of DC power for the output module includes a photovoltaic solar panel, a control circuit and a temperature detecting function of protecting a solar charging circuit having a lithium battery; mains module includes a power converting circuit is switched to the mains and a DC-DC power supply 12V/2A charging module; a solar panel coupled to an input of the circuit output terminal and the solar charging; power converting circuit is connected to inputs of the output of the DC charging module; trigger control circuit controls the DC voltage of the DC charging module to an operating state of a solar charging circuit; anode of the lithium battery to be charged with a solar energy charging circuit respectively, the output of the DC charging module, connected to inputs of the output module automatically switches; automatically switches the output of the power supply can be used for a DC load output module.



- **Photovoltaic solar panel.**

<b>Publicación</b>	<b>País de origen</b>	<b>Solicitante</b>	<b>Fecha de prioridad</b>
KR102026975	China	Park, Se-Chang	2019-05-23

**Resumen:**

The present invention concerns a photovoltaic device for solar panel relates to a method, a transparent substrate, wherein the transparent substrate stacked on the bottom of the buffer member is formed on both surfaces of a solar cell module (solar cell), the solar cell module stacked on the bottom of the conduction layer and a heat transfer layer is made of heat dissipating plates are laminated, the state of the four layers is formed of graphite and alkali metal niobate features.

- **Photovoltaic solar panel.**

<b>Publicación</b>	<b>País de origen</b>	<b>Solicitante</b>	<b>Fecha de prioridad</b>
KR102026975	China	Park, Se-Chang	2019-05-23

**Resumen:**

The present invention concerns a photovoltaic device for solar panel relates to a method, a transparent substrate, wherein the transparent substrate stacked on the bottom of the buffer member is formed on both surfaces of a solar cell module (solar



cell), the solar cell module stacked on the bottom of the conduction layer and a heat transfer layer is made of heat dissipating plates are laminated, the state of the four layers is formed of graphite and alkali metal niobate features.

- **Photovoltaic power-generating solar panel mounting bracket.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209218000U	China	Tianjin Kehang Electronic Technology	2019-01-08

**Resumen:**

The present utility model provides a photovoltaic powergenerating solar panel mounting frame, comprises a base plate, support plate, the connecting plate, can protect the frame structure, a protective cage structure can be buffered, adjustable shielding bar structure, the fixed block, the support bars, the shield plate, shielding bars, the covers, cover strip, wipe, lock plate and the bayonet tubes, the support plate is bolted to the backplane of the upper surface of the intermediate position; connecting plate is bolted to the upper portion of the support plate; protective frame structure may be mounted on both sides of each of the bottom plate; provided on the left side of the shielding plate can be buffered guard cage structure of the lower; adjustable shielding bar structure are respectively mounted on left and right sides of the webs. The present utility model advantageously be mounted to the mounting frame is secured, for supporting a solar panel is beneficial to the shield.

- **Separate type portable power generation system.**

Publicación	País de origen	Solicitante	Fecha de prioridad
	China		



CN209298970U		Ningbo Green Light Energy	2019-01-04
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**Resumen:**

The present utility model discloses a method for segregating a portable power generating system, the field of solar energy systems involving off-net, comprising a control box, a storage battery and photovoltaic solar panels splitter, the splitter is provided with a plurality of storage batteries of the battery interface, a battery interface is provided with a prevention module, a control box is provided with a control circuit, the control circuit includes a voltage-current sampling module, the microprocessor module, regulated power supply modules, input-output control module and the load output module, a current sampling module and the input voltage prevention module is electrically connected the output control module, the regulated power supply module and the microprocessor module is electrically connected to input-output control module, the output control module is electrically connected to the input load output modules, input-output module is electrically connected to the photovoltaic solar panels, regulated power supply module is electrically connected to the voltage-current sampling module, the microprocessing modules, input-output control module and the load output module, the present utility model is adapted in remote or poor areas extended and used.

- **Without junction box configuration of the solar panel frame.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209462329U	China	East China Institute of Technology Jinjiang Nachuangxin Environmental Technology	2019-05-07



**Resumen:**

The present utility model relates to a solar panel junction box configurations without the need of the frame, the frame bar includes a main body, the frame strip body is provided with a U-shaped receiving groove for receiving edge of the solar panel; groove bottom of the accommodating slot is provided with two photovoltaic a dedicated connection, a dedicated connection to the input end of two of the photovoltaic solar panels corresponding to the positive power output, a negative electrode are electrically connected; then the end of the bottom receiving groove groove extends through a dedicated connection of the photovoltaic to the outside. Through the frame and the accommodating slot is bending a dedicated connection of the photovoltaic direct access clamping arrangement, such that when the external pulling a dedicated connection of the photovoltaic, translocations Mentspermaceae access end thereof, thereby ensuring the stability of the connection line is connected to the positive and negative electric machine, thereby eliminating the need to configure the terminal block, so that the solar panel of the bezel has simple structure, low production cost; and the solar panel frame is small in thickness, small occupied area, high transport efficiency, a transportation cost is low.

- **Method and apparatus using the method of the habitat monitoring technology environment.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN110296735	China	Nanjing Sijing Water Resources Technology	2019-05-14

**Resumen:**



The present invention discloses a method and apparatus environment and habitat monitoring technology is used, ecological environment monitoring module parameters include, power supply module, a microprocessor, memory, query module and an alarm module, power supply module and the ecological environment parameter monitoring module, a microprocessor, memory and the checking module is electrically connected to, ecological environmental parameter monitoring module is electrically connected to the memory and a microprocessor, the microprocessor is electrically connected to the alarm module, query module is electrically connected to the memory; comprising the step of using: a first step: the device is completed within a predetermined environment and habitat monitoring those skilled in the region of the installation work, such as the power collecting unit mounted on the bracket through proper lighting conditions of the area, power harvesting power storage unit is completed, and the ecological environment monitoring module mounted on various sensor parameters monitored conditions are relatively good area, thereby ensuring a more accurate sensor capable of performing various ecological parameter measurement.

- **Photovoltaic sun louver system and its control method.**

<b>Publicación</b>	<b>País de origen</b>	<b>Solicitante</b>	<b>Fecha de prioridad</b>
CN110259358	China	China Architecture Design & Research Guozhu Habitat Engineering Consultants	2019-06-14

**Resumen:**





The present invention relates to a photovoltaic blind louver system and its control method, which belongs to the technical field of photovoltaic control. The system includes a portable blind, photovoltaic solar cell panel assembly, a temperature monitor, light intensity monitor and an automatic controller; movable louvers, the louvers are in an expanded state for blocking or outdoors through the vent; a temperature monitor, for monitoring the temperature of the outdoor air temperature obtained by time when the average of the daily; light intensity monitor, for monitoring the local real-time solar altitude contend solar radiation intensity value and the real-time monitoring value; automatic controller, by time when the outdoor air temperature of the in accordance with, the local real-time solar altitude contend solar radiation intensity value and the upper half and lower half monitored values in real-time control of the louvers are folded state and unfolded portion of the louver angle. The present invention effectively improve the thermal performance of the outer window house, residential heating and raising the indoor heat environmental comfort and air conditioning energy consumption is reduced.

- **High steep bank slope micro seismic technology with the evaluation method of stability monitoring system.**

<b>Publicación</b>	<b>País de origen</b>	<b>Solicitante</b>	<b>Fecha de prioridad</b>
CN110220979	China	Chongqing Institute of Geology & Mineral Resources	2019-06-26

**Resumen:**

The present invention relates to geologic hazard monitoring and controlling the field of technology, micro seismic technology relates to a steep bank slope monitoring



system and method of the high stability evaluation, comprising a detector, data acquisition instrument and collection end data transmission device, a detector for detecting a seismic wave signal, the detector is placed in a manner that the through bore 20-50 meter deep hole, through a cable to the outside of the hole detector data acquisition instrument is connected; steep bank slope technical solution of the present invention is used with the monitoring method monitoring system high stability, the iteration of the neural network model are introduced into the long and short term memory regularization exit mechanism, to reduce the complexity of the hidden layer unit calculates different, it is possible to complete high real-time controlling of the steep slope and the steady state trend, landslide early warning and risk management level of the rock mass increase, it is possible to ensure strict synchronization of data acquisition, as well as real-time monitoring of the state of the rock mass reliable, has a higher value for engineering application.

- **In a crosswalk traffic accident prevention system.**

<b>Publicación</b>	<b>País de origen</b>	<b>Solicitante</b>	<b>Fecha de prioridad</b>
JP3222894U	Japón	Baba Keiji	2019-06-03

**Resumen:**

**PROBLEM TO BE SOLVED:** Installed traffic signal pedestrian crossing red lamp to flash or not an alarm sound crosswalk traffic accident prevention system to be installed near by, and prompts the vehicle stop to prevent traffic accidents to provide a traffic accident prevention system.

**SOLUTION:** Has not been installed traffic signal pedestrian crossing pedestrian thirtysix erectingly in front of the pushbutton switch is activated by a manual push button type switch device 2 and, by activating an alarm sound and a flashing red-



wheeled motor vehicle and prompt alarming device comprises a stop against 3 and, pedestrian and the vehicle accident hit-and-run monitoring camera apparatus having a function to record 6 and, and the storage battery electricity Voxsup 5 solar panel supplies 4 and, a solar panel 4 the electricity supplied from a storage battery charging 5 having.

- **Method for improving light conversion efficiency of solar photovoltaic glass.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209328923U	China	Yang Quanlu	2019-01-31

**Resumen:**

The present utility model discloses new energy technology which has an improved light conversion efficiency of solar cells in the field of glass, glass ply and the lower photovoltaic layer includes an upper photovoltaic, the upper and lower glass ply sheet fixedly mounted between the photovoltaic layer having a silicon solar cell photovoltaic, photoconductive layer which is bonded to one side of the glass ply , photo-chromic layer and the silicon solar cell panel is provided through the air insulation layer between the seal edge is fixed, silicon solar cell panel and a lower photovoltaic sheet by bonding a reinforcing layer between layers, on the outer surface of the glass ply photovoltaic is provided, is provided on the outer wall of the glass ply patterns at the four corners of the photovoltaic, the reflected light is reduced, dramatically increases the angle of the solar glass permeability, reduced materials costs, so that the long-term irradiation with sunlight for solar photovoltaic glazing, ensuring excellent light



transmittance and , thereby allowing the assembly to have a higher energy conversion efficiency, increased thermal and compressive strength, effective protection of the photovoltaic panel.

- **Photovoltaic sun tracking system.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209313785U	China	Zhejiang Astronergy New Energy Development	2019-01-09

**Resumen:**

The present utility model provides a photovoltaic solar tracking system, comprising a plurality of photovoltaic solar tracking device, at least one connecting member and the driving parts: a photovoltaic solar tracking device includes a bottom panel of the spindle and fixedly provided with a fixing member, the actuator member and at least one of the legs is provided with a bearing, the shaft is disposed on the inner bearing, it is possible to take power through the transmission member and the inner bearing rotational movement; a plurality of photovoltaic solar tracking device of a transmission member via a connecting member interconnecting and power transmittable; either photovoltaic solar tracking device with a drive member of the drive member is connected and which can output power. The photovoltaic solar tracking system for photovoltaic solar tracking device having a plurality, need only be in one of the driving member is disposed, through connection members remaining power transferred to a photovoltaic solar tracking device, thereby achieving an angle of incidence of sunlight



tracking photovoltaic system as a whole, and has increased flexibility in a simplified drive structure field, reduces the production and maintenance costs.

- **Solar power supply automatic dust-removing power cabinets.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209298691U	China	Guangdong Xinde Electric Power Construction	2019-01-22

**Resumen:**

The present utility model discloses a solar power supply automatically dedusting power cabinets, includes a cabinet, a side wall of the cabinet to form a 1st folded side, surrounding sides bent to form a 1st inlet, the air inlet openings are provided in sequence from outside to inside faces down obliquely and dedusting blind of the screen, bent folded side edges of the screen forming a 2<sup>nd</sup> dedusted, dedusting aberdeen code are welded onto a screen, a vibrating motor is secured by code card; an air outlet provided in a bottom of the tub, heat-dissipating fan disposed in the air inlet; disposed on the top of the cabinet and the top face, a solar panel, a charging circuit unit, a battery and a control unit. Is provided at the intake louvers and dedusting screen, preventing external dust from entering into the electrical cabinet dedusting screen, at the same time, the dust accumulated on the filter screen is provided with a vibrating motor on a falling dust jitter dedusting screen, the present utility model employs a solar power supply to operate and the vibration motor, and energy-saving, simple structure, to effectively prevent dust from entering the power cabinets damage to internal power devices.

- **Heat-solar lamp structure.**



Publicación	País de origen	Solicitante	Fecha de prioridad
CN209279054U	China	Chen Fusheng	2019-01-15

**Resumen:**

The present utility model discloses a solar lamp structure items, and particularly relates to a solar lamp field, includes a housing, a housing which is provided with solar panels, solar panel roof is provided with a lamp housing, the housing is disposed on a bottom cover, a bottom cover interior is provided with a photovoltaic charging controller, a photovoltaic-charged secondary battery is provided with the base controller, LED bulbs are provided with a photovoltaic charging control top, a bottom cover to one side of the radiating fins are disposed away from the housing. The present utility model is provided with a heat-dissipating fins and the conductive plate through, a photovoltaic charging controller, a battery and the LED lamp quickly the heat generated during operation is absorbed by the heatconducting plate, thereby avoiding excessive temperature inside the housing, through the heat conductive plate to the heat dissipating fins, heat is exchanged with external cold air heat-dissipating fins, thereby transferring heat dissipated rapidly, good heat dissipation effect.

- **Back-up power generation system is provided for large-scale agricultural use.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN110120776	China	Jiang Hongjun	2019-05-23



**Resumen:**

The present invention discloses a standby power system to be used for large scale farming, photovoltaic power generation system comprises generator set, the wind generator set, then supplies a controller, storage modules, switch, inverter, a data recorder, thermometer are, anemometers, sundial, computer, direct-current load, and the AC load; convert solar energy into electrical energy utilizing solar panel photovoltaic generator set, the wind energy into electrical energy using the nature of the wind generator set, then supplies PWM control mode battery charging controller has reversed, reverse connection protection function for the photovoltaic battery, two load overcurrent, shorted alarm protection functions. A backup power system that is used for large scale farming, wind energy and light energy is generated by the two modules, the power generation system and is more flexible to use, and can completely monitored environment for wind power generation system, temperature and solar radiation amount, replacing the power supply module for a user.

- **Method for the electronic tag scan device sourcing saplings.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209231943U	China	Bai Lu	2019-01-30

**Resumen:**

The present utility model relates to the technical field of traceability by mass, and particularly relates to an electronic tag for saplings tracing scan device, comprising a housing, a handle is fixedly attached to the side wall of the housing, the tail portion of the housing is provided with a charging port, a pair of slot side walls of the housing is provided with, a pair of slot and the solar panels are mounted



respectively in the embedded display screen, and by gluing, a data transmission module provided at one side of the housing, the other side of the housing and an annular RFID antenna mount, the outer wall of the housing is also provided with a signal lamp and a control button, mounted with PLC controllers bore of the housing, a battery, GPS receiving module, a storage module, a photovoltaic module and a read-write RFID controller, which is used for an electronic sourcing saplings receiving module to receive GPS electronic tag through the tag scan device for transmitting GPS signals, is then performed on the electronic tag readwrite module for the electronic tag through RFID location is scanned, the function of stemming saplings is achieved.

- **Power supply system for an electrical solar complementary.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209170043U	China	Anhui Green Shore Construction Engineering	2019-01-14

**Resumen:**

The present utility model discloses a solar electricity power mains, in particular to a power supply technology field, includes a solar panel, a solar panel hotovoltaic inverter is connected between the output terminal of the input, an output of a PV inverter is electrically connected to an input of a solar controller, the controller has an output connected to the input terminal of the solar battery, a battery connected to the load through the output terminal of an input of a wire, the other input terminal of the load wire is connected to a mains switch through, a mains switch is connected with the grid-tie switch cabinet. The present utility model can be implemented in a simple load and the commercial power supply for complementary solar energy, and is





convenient for a plurality of grid-tie switch cabinet is periodically alerting device maintenance personnel, the lifetime of the switch cabinet interconnect extended, reduces grid-tie switch cabinet failure due to long-term operation is not serviced, and thus reduces losses, improves the safety of operation.

- **Portable multifunction apparatus for monitoring a marine farm.**

<b>Publicación</b>	<b>País de origen</b>	<b>Solicitante</b>	<b>Fecha de prioridad</b>
CN209167883U	China	Tianjin Zhaohao Technology Development	2019-01-04

**Resumen:**

The present utility model is to provide a mobile multifunction apparatus for monitoring ocean farm, which comprises a base, a buoy, power supply means, monitoring means, an underwater camera, sonar fish introduced, the temperature sensor and a drive mechanism, the present utility model in the feed mechanism and the drive mechanism is configured to, for feeding food has been required, the inverter control lead fish sonar power running, the fish will be directed into the vicinity of the monitoring device, the battery control solenoid valve is energized to open, liquid foodstuff from the spout out, feeding of the fish school object is reached, the function of the monitoring device feeding implement, to facilitate marketing of Pure and Applied, two drive units are in operation, the monitoring device along the straight-ahead driving, the time required to deflect, a drive apparatus is in operation, the monitoring device can be driven in a single drive means is deflected, to achieve the purpose of steering, the steering apparatus advantageous for monitoring during the traversing, ensure that the monitoring device to the position of each of the pasture, expanded monitoring device's monitoring range.



- **Fast charging multi-function mobile power supply.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN110048489	China	Shanghai Tanyuan Huigu New Material Technology	2019-05-17

**Resumen:**

The present invention belongs to the field of mobile power technology, especially relates to a multi-function portable power supply for fast charging, comprising means for controlling the lighting of an LED lighting switch, the output power of the USB interface is configured to, with the power input for USBType-C interface, adapted to mount the body of the housing and connected to the top and bottom covers for the front and rear sides, LED lighting switch, the output power of the USB interface is configured to, for power input to the USBType-C interface is disposed on the same side of the upper lid; one face of the solar panel of the present mobile power supply, may implement a solar charging, LED lighting lamp other face with face, the light source of LED light bar emits a linearly diffusing a high haze enclosure formed by a surface light source, achieving flat lamp lighting effect, the solar panel charging power to the 3 W-5 W, Li battery electric energy graphene 20 Wh-25 Wh, LED lighting power to 8 W-12 W, in an outdoor environment, the fullycharged using solar energy during daytime, nighttime conditions, supportable 2-3 hours powerful emergency lighting, achieves a high power lighting.

- **Distribution net equipment grounding condition monitoring system on the stage.**



Publicación	País de origen	Solicitante	Fecha de prioridad
CN110275088	China	Henan Si Internet Of Things Technology Henan Sida Detection Technology Henan Sida Electric Power Technology Research Institute	2019-07-30

**Resumen:**

The present invention discloses an equipment grounding condition monitoring system on the stage distribution net, comprising a lightning arrester, transformer, JP cabinet, the cabinet, a graphite ground strap, electrical terminals, monitoring system, lightning arrester, transformer, JP cabinet, the cabinet, a graphite ground strap, are connected with the monitoring system of electrical terminals; the present invention provides for the lightning arrester current, graphite having an impedance to ground, the outer cabinet JP current, which has a current real-time monitoring ground graphite, efficiently and accurately, in response to rapid, real-time monitoring degree high, the client PC to the monitoring results are evaluated and the taking of a contingency operation, ensures high safety of a device setting on the distribution net, more automated, intelligent.

- **Convenient to measure the width of the civil engineering trenching apparatus.**

Publicación	País de origen	Solicitante	Fecha de prioridad
	China		



CN110258698		Hunan Gaofuxing Intelligent Technology	2019-07-22
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**Resumen:**

The present invention discloses an easy-to-furrow civil engineering width measuring device, comprising a body, a support mechanism, trenching mechanism and measuring mechanism, support mechanism is fixed on the base end side is provided with a body, trenching mechanism fixedly provided with a bottom end of the body, the measuring mechanism is fixed to the main body distal end adjacent to one side of the support mechanism, the upper surface of the body through a mounting seat fixedly provided with an internal combustion engine, the body-side fixture is provided with a handle, fixed on the outside of the handle is provided with a rubber pad. The present invention is simple to operate, through body fixed at one side is provided with a measuring mechanism, it is possible to measure the size of the opening of the groove, and is set on the fixed rod through an in-furrow wheel is provided with, at the time of re-use can be more and the required size of the groove of the opened furrow wheel for installation and removal, to achieve a modular design, is more convenient to use.

- **Wetland environment factor acquisition device.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN110243412	China	Southwest Forestry University	2019-06-24

**Resumen:**

The present invention discloses a wet environment factor acquisition device, comprising an audio collection and acoustic-located module, an image acquisition



module, environmental factors acquisition module, soil data acquisition module, a water - collecting module, a solar power generation module, control module and a mounting module, an audio acquisition and acoustic-located module, an image acquisition module, environmental factors acquisition module, hydrological data acquisition module and the soil collection module employ a bus communication mode with the control module is connected, the control module is connected to the solar battery modules, the control module and the remote host computer wireless communication connection. The present invention can be used in wetland, wooded areas, farms or the like real-time monitoring of an outdoor environment, the categories may be monitored to 30 or more factors, including weather factors, soil data, hydrological data, an audio-video, photographs, the device may be autonomous storage, analysis data, it is also possible instantaneous feedback, lower cost, can be in the field of unattended long-running conditions.

- **GPRS network on the basis of an aquaculture robotic.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN110209168	China	Yang Min	2019-06-04

**Resumen:**

The present invention discloses a robot of the network based on GPRS aquaculture, comprising a hull, the power control modules, material compartment, a driving module, the solar charging module, the power control pod is arranged at the module, chip control module, a data transfer module, a data storage module, battery voltage acquisition module, the water quality detection module, a positioning module, a video monitor module, the hall button module, is



provided with a feed material tank module, the spray module, by weight acquisition module. The present invention on the basis of the GPRS network of a robot can automatically receive the cruise route planning aquaculture, and charge material planning and dispense medication schedule, without user intervention, manual intervention and requiring, for controlling a robot path of travel may be remote from the charged amount, spray planning, or the key module is controlled through a Hall, by uploading data detected by the sensors, an on-line it was found that cultivation pond problem, timely changing the batch, spray policy, survival and quality assurance of the other ingredients nerimi, may be an on-line through the periphery of the pond aquaculture video observation as well as other ingredients nerimi case.

- **Method for hydropower engineering warning apparatus.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209328162U	China	Zheng Lizhen	2019-03-14

**Resumen:**

The present utility model discloses a warning apparatus for hydropower engineering, including an upstanding post, one side of the posts includes graduation markings, and the studs fixedly connected with the upper end of the housing, the upper end of the housing is provided with a mounting groove, and the upper surface of the housing is provided with upward support bar is fixed, the upper end of the rod is fixedly connected with the solar panels, solar panels and the other end of the upper surface side of the housing is fixedly connected, and a battery is mounted in the mounting slot photovoltaic controller, controller and battery are located on the interior of the photovoltaic mounting slots at both ends,



the lower surface of the housing at both ends are embedded with an infrared-sensitive switches, infrared-sensitive switches are provided inside the alarm, the present utility model can realize autonomous power supply purposes, save power resources, facilitate timely remind here belongs to the area at risk person, real-time monitoring of a dangerous region may be the case.

- **Photovoltaic panel cleaning robot and its operating method.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN110166000	China	Nanjing Lingque Intelligent Manufacturing	2019-06-28

**Resumen:**

The present invention discloses a method of cleaning robot and a work-voltaic cells, which belongs to the field of the intelligent robot technology, a photovoltaic panel of the cleaning robot, and the traveling unit, a cleaning device and a bullet assembly component. In the 1st through six degrees of freedom of the rotation plate is disposed above the driving arm, arriving at an arbitrary position of the cleaning device can be a photovoltaic panel, a driving arm in six degrees of difficulty control is reduced, while also increasing the flexibility of the actuator arm, while the cleaning unit installed inside the bullet mechanism, which is mounted on the two brush shan soil above the intermediate mechanism position, it is possible to collect more dust, moreover, the maximum wind herein, can be better under the influence of dust in the air flow into the suction tube. Finally through the suction tube axis direction of the suction force of the induced draft, achieving thorough cleaning, cleaning efficiency is improved.



- **Summer sun shading and solar heat collecting the integrated sheet.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN110145218	China	Jiangsu Artman Architectural Design	2019-05-06

**Resumen:**

The present invention relates to a summer sun and the solar heat collecting integrated plate, which belongs to the field of building construction technology, comprises a wall, the wall is provided with a window, the window block to the wall is provided with a sunshade, characterized in: for a window on a wall of the upper and lower portions are each provided with a fixing bar, arranged horizontally on the wall around a fixed, stationary strip along the longitudinal direction of the holding bar is provided with a chute, the sun visor is provided with a slide connected to the upper and lower sides of the slider chute, larger than twice the width of the sun visor of the length of the chute, the chute is provided with a driving member for driving the slider to move in a chute of the 1st, 1st set of the drive member can drive the slider to move within the chute, so that the slider rotates the window block to the sun visor, sunshade without manual pulling, labor saving and easy operation, improves the use effect of the sun visor.

- **Abnormality report device and method for a shared solo.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN110119821	China	Xi An Peihua University	2019-06-06

**Resumen:**





The present invention belongs to the technical field of sharing a single vehicle, and particularly relates to a device and a method to share a single-exception reporting, error reporting device includes a single-sharing shared cycling, the mobile terminal and a solo operation back-office terminal, sharing a single-fault indicator lamp is provided, including a microprocessor operated by a single-office terminal module, a parameter storage module, a communication module, a positioning module, keyboard module, display module, a printing module, a cloud server and a power module; microprocessor module includes a fault classification unit; method includes observing whether an anomaly is notified to share a single-man-made fault, scan, it is determined whether or not a solo may be used, and it is determined whether there is a single-lock fault, exception reporting and control the failure indicator lamp is lit and the like; the present invention users can share the solo in the abnormal state of the fault reporting, faults is notified of the recall of a single-sharing, repairs can be conveniently handled, and that a user can share a single through a fault indication lamp on the determination whether to share a single-usable, is simple and convenient.

- **Road lamp assembly intelligence signal.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209248778U	China	Hangzhou Jiaoyuan Technology	2019-02-21

**Resumen:**

The present utility model provides an intelligent traffic light assembly of the road, the road lamp assembly includes intelligence signal: a stud mounted on the floor, side post is connected to the upper ends, one end of the upright side post away from the traffic signal is provided; also includes barrier means; provided at the surface of the



barrier means includes counter-rotating motor, an output shaft of the motor with forward and backward direction of the pedestrian barrier for blocking the door, and for controlling the forward and backward rotation time of the motor controller; further comprises heating means. The present utility model has the advantages that: is provided through the traffic signal, it is possible to achieve the purpose of directing traffic; through setting of the columns and the spacers, it is possible to achieve the purpose of the traffic signal is provided; by providing barrier means, when the red light at a red light may be blocked in the direction of a pedestrian, a pedestrian so as to prevent the occurrence of running a red light; disposed through a heating device, it is possible to achieve the purpose of heating the pedestrian at low temperatures.

- **Water-proof effect of the courier cabinet.**

<b>Publicación</b>	<b>País de origen</b>	<b>Solicitante</b>	<b>Fecha de prioridad</b>
CN209232059U	China	Lechang Moge Intelligent Express Cabinet	2019-01-30

**Resumen:**

The present utility model discloses a good waterproof effect of the courier cabinet, which comprises a base, are screwed through four corners of the bottom outer wall mount the supporting leg, and the top of the base is fixed with a screw through the outer wall cabinet, the cabinet is provided with a 1st one side of the wall mounting slots, and the 1st through the display screen is fixed to the inner wall of the mounting groove of the screw, located on the display screen is provided with an outer



wall of the cabinet below the 2<sup>nd</sup> mounting slots, and the 2<sup>nd</sup> through screw is fixed to the inner wall of the mounting slots key letter, located on both sides of the cabinet is provided with a small storage groove outer wall display screen, and the inner wall of the cabinet door hingedly connected through a small small storage groove, located in the cabinet below the outer wall is provided with a large storage groove a pocket, and the inner wall of the cabinet door through a large hinged large storage groove. The present utility model can have excellent waterproof effect, to prevent corrosion by rain courier cabinet, significantly increases the useful life courier cabinet, ensures that the mass storage of parcel delivery.

- **Weather-proof lighting device.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN110067981	China	University of Xiamen	2019-04-03

**Resumen:**

The present invention provides a weather-proof lighting device, comprising a lamp body and a front end of the base of the lamp body is provided on; for lighting the lamp cap. The rear end of the lamp body is fixedly connected with the solar panel mounting seat, a solar panel mounting bracket for fixedly mounting a solar panel; lamp body is provided therein with a chargeable battery, a rechargeable battery is charged to a solar plate is used, a chargeable battery for power supply to the lamp head; the upper end of the lamp body is provided with a flashing, a flashing lamp body facing away from one side of the guide grooves are provided, along the longitudinal direction of the left and right sides of a guide groove provided in the direction a flashing; lamp mounting seat is provided with a lower end;



outdoor lighting device can be realized using the technical scheme of the extended service life.

- **To facilitate riding of the flashlight with a fixed.**

Publicación	País de origen	Solicitante	Fecha de prioridad
CN209180708U	China	Beijing Rusdaq Product Development	2019-01-03

**Resumen:**

The present utility model discloses a method for facilitating the riding of the flashlight with a fixed, includes a main body, and a compass arcuate jaws, which are movably mounted on one side of the fuselage hand piece, and the LED lamp head is provided with an internal-uniform, the body is provided therein with a battery, a side of the tip body is provided with grooves, and the heat dissipation holes are uniformly arranged at the bottom of the groove, the shutter is movably arranged inside of the grooves, the grooves are provided with a baffle plate is fixedly connected to one side of a switch, a buffer chamber is provided with a bottom end of the body, and the buffer chamber are arranged on both sides of the damping springs inside 1st, a buffer chamber provided with a bottom end of the sliding bar inside, 2<sup>nd</sup> damping spring sleeved on the outer wall of the slide rod, and the 2<sup>nd</sup> damping spring has one side with the buffer chamber is provided with a movable arm movably connected to the tip of the inner portion, the first buffer chamber having arcuate jaws hingedly mounted on both sides of a bottom end. The present utility model facilitates securing mount, the environmental energy-saving, high stability, easy to spread the use.

- **Power information bulletin board.**



<b>Publicación</b>	<b>País de origen</b>	<b>Solicitante</b>	<b>Fecha de prioridad</b>
CN209133098U	China	Liu Weite	2019-01-23

**Resumen:**

The present utility model discloses an electric bulletin board information, power information relating to the technical field of a publication, during operation in order to solve poor heat dissipation, the power-consuming problems and environmentally unfriendly. The flashing above the housing, is mounted above the flashing curved solar panels, solar panels are mounted on both sides of the curved leak-proof damper, is provided on a water-proof through-hole, both ends of the baffle plate is provided with anti-spill through hole leak-proof, water storage tank is mounted inside the housing, a water storage tank is provided under the cooling water bag, a cooling water bag and the water tank through a return tube sealed connection between, on one side of the cooling water bag is provided with a main circuit board, a cooling water bag is provided below a water pump, with the inlet side of the pump through the pump inlet pipe sealed connection between the cooling water bag, the pump and the water tank through the outlet end of a spiral tube sealed connection between, on one side of the water storage tank provided with an injection pipe.

ALERTA TECNOLÓGICA  
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