



New connection on: : 10-08-2017 : 16:49:09 - Last disconnection on: : 09-08-2017 : 02:35:12

V 4.0.0.43847(LP,U,linux) (Rev:41675 2016-01-15 13:33:59 +0100#(D201706)) (RPM D201706)

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 Database: EPODOC

[EPODOC: SS 1] solar and power and bank

Results in EPODOC 371

[SS 2] /ic h02j7

Results in EPODOC 231.072

[SS 3] 1 and 2

Results in EPODOC 88

[SS 4] 3 and portable

Results in EPODOC 16

[SS 5] ..li nbdoc 10



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PN - [CN106469918](#) A 20170301

PR - CN20151517110 20150821

AP - CN20151517110 20150821

DT - I

PA - ZAOYANG NO 3 EXPERIMENTAL ELEMENTARY SCHOOL

TI - Hexagonal **solar portable power bank**

AB - The invention provides a hexagonal **solar portable power bank**. The **portable power bank** internally provided with a storage battery comprises a hexagonal **portable power bank** body. **Solar** cell panels are arranged on the hexagonal faces all around. An external charging jack is arranged in one end of the **portable power bank** body. In use,

the built-in cell can be charged through the hexagonal faces all around, so the **portable power bank** is enabled to provide electric **power** for electrical appliances including mobile phones, and the like.

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PN - [CN205304688U](#) U 20160608
PR - CN2016200177U 20160101
AP - CN2016200177U 20160101
DT - I
PA - GUANGZHOU ALLPOWERS ENERGY TECH CO LTD
TI - **Portable solar power bank**
AB - The utility model discloses a **portable solar power bank** belongs to **portable power** source technical field. The utility model aims to provide a can firmly fix, be convenient for that the travel is used and have the **portable solar power bank** of **solar** charging function, including shell, lithium cell, control panel, **solar** panel, lithium cell and control panel setting are in the shell, and **solar** panel sets up on the shell surface, **portable solar power bank** still includes the hand -tight screw more than two, be equipped with the screw hole that the size is corresponding with hand -tight screw and quantity is the same with hand -tight screw on one among the upper surface of shell and two fixed plates that the lower surface outwards extends mutual correspondence, two fixed plates. The utility model discloses a treasured that charges especially is suitable for to be taken the vehicle travel and the time uses.

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PN - [CN205212525U](#) U 20160504
PR - CN201521060105U 20151219
AP - CN201521060105U 20151219
DT - I
PA - ZHANG JIAQIANG
TI - **Portable solar power bank**
AB - The utility model belongs to the technical field of **solar** energy and a **portable solar power bank** is disclosed, including the flashlight body, the flashlight body includes casing, **solar** cell panel, **power** output interface, flashlight and electron temperature display screen, casing one end is equipped with the flashlight, the flashlight both sides are equipped with the **power** output interface, casing one side is equipped with **solar** cell panel, **solar** cell panel inlays inside the casing, **solar** cell panel one side is equipped with the electron temperature display screen, electron temperature display screen one side is equipped with the flashlight switch, flashlight switch one side is equipped with the LED display lamp, casing one side is equipped with audio player. The utility model discloses a **solar** cell panel is the electric energy with **solar** energy transformation, the energy saving, and the environmental protection is adopted to set up flashlight and **power** output interface in casing one end, is convenient for charge on the one hand, and on the other hand can be through flashlight illumination, simple structure, convenient to use.

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- PN - [US2016108893](#) A1 20160421
- PR - US201414516397 20141016
- AP - US201414516397 20141016
- DT - *; Rep
- CCI - [F03D9/007](#) ; [H02J3/386](#) ; [F03D13/20](#)
- CUI - [H02S10/12](#)
- CCA - [Y02E10/563](#) ; [Y02E10/728](#) ; [Y02E10/763](#) ; [Y02E10/766](#) ; [H02J3/383](#) ; [H02J7/355](#) ; [F05B2240/91521](#) ; [F03D9/25](#)
- PA - AGTUCA PETE [US]
- TI - **Portable** Multiple Source Electrical **Power** Unit
- AB - A **portable**, non-fossil fuel, multiple source, electrical **power** unit that includes a lightweight wind generator assembly and an optional **solar** panel assembly partially disassembled and stored in a rigid, protecting container. The **power** unit includes a pivoting tower assembly made of a plurality of tower members that are removed and assembled in an end to end manner to form an elongated tower assembly. A nacelle and wind generator are attached to the distal end of the tower assembly. The wind generator is attached to a lightweight hub assembly that uses lightweight sail/airfoil shaped blades. In one embodiment, the container includes four pivoting outrigger legs. In a second embodiment, the container's four side panels fold downward. Concrete blocks may be used to hold the container upright. Mounted on the container is a **solar** panel assembly with at least one **solar** panel and a **bank** of rechargeable batteries. An electronic control assembly is also provided that enables the operator to control the electrical output from the wind and **solar** panel assemblies.

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- PN - [CN104953632](#) A 20150930
- PR - CN20141118623 20140327
- AP - CN20141118623 20140327
- DT - I
- CNOI - [H02J5/005](#) ; [H02J7/025](#) ; [H02J7/355](#)
- PA - WU MINGYUAN
- TI - **Solar power bank** structure
- AB - A **solar power bank** structure is disclosed. A **power bank** housing comprises a plurality of charging battery receiving slots in different specifications and at least one external connecting interface. After the external of the housing is provided with a **solar** reception plate for receiving **solar** energy, the **solar** energy is converted into working **power** and transmitted to the external connecting interface so as to be used by other devices. The work **power** can charge charging batteries of various types through the charging battery receiving slots without consuming any resources. If no light source is available, the **power bank** provides electric **power** to other devices through the charging batteries in the charging battery receiving slots, and can receive external electric **power** from the external connecting interface during charging. The external electric **power** after being converted by a working unit is transmitted to the charging battery receiving slots to charge the charging batteries of various types. The charging batteries can be taken out

from the housing to serve as common household batteries. The structure is convenient and **portable**, and the use convenience of the **power bank** is improved.

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PN - [CN204668991U](#) U 20150923
PR - CN20152289241U 20150507
AP - CN20152289241U 20150507
DT - I
PA - HENAN MECHANICAL & ELECTRICAL ENG COLLEGE
TI - Multifunctional **portable power bank**
AB - The utility model discloses a multifunctional **portable power bank**, which comprises an outer shell, the top of shell is equipped with rectangle lamp shade groove, the inner chamber in rectangle lamp shade groove rotates and is equipped with support no. 2, and wherein **solar** cell panel is connected to rechargeable battery difference electricity. This multifunctional **portable power bank** is equipped with support no. 2 in the inner chamber rotation in rectangle lamp shade groove to the articulated branch no. 1 in top of support no. 2, at the articulated lamp shade in the top of branch no. 1, when using, shining of different angles of lamp shade and height is realized to mutual articulated branch of accessible no. 1 and two extension or the declines that realize the lamp shade on the support, has solved the tradition and charged preciously from taking light single structure, and the limited problem of illumination area amount of money angle is inlayed inside the precious shell that charges to the light. Have rotatory apron in that the bottom of shell is articulated, and the surface mounting of rotatory apron has **solar** cell panel, rechargeable battery is connected to the **solar** cell panel electricity, has solved the tradition and has charged the treasured and when keeping away from charging source, exhaust the problem with regard to unserviceable when the electric energy.

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PN - [CN204230978U](#) U 20150325
PR - CN20142749237U 20141203
AP - CN20142749237U 20141203
DT - I
PA - CHEN LEI
TI - Multifunctional **power bank** using **solar** energy
AB - The utility model discloses a multifunctional **power bank** using **solar** energy. The multifunctional **power bank** using **solar** energy comprises a housing and a **portable power** source body disposed in the housing. A control module is disposed in the housing, a mobile storage module, a currency detection module, an illumination module, an alarm clock module and a display module which are connected to the control module are disposed in the housing, too, and the currency detection module and the illumination module are connected with the **portable power** source body. The **portable power** source comprises a main circuit board, a charging module and a **power** supplying module, the charging module comprises a charging plug, a USB plug and a **solar** charging unit. A mobile **power** source, a card reader, a storage device, a current detection lamp, a lamp and an alarm clock are integrated in the

multifunctional **power bank** using **solar** energy, the practicality of the **power bank** product can be greatly improved, a combined charging mode using AC and **solar** energy is adopted, the multifunctional **power bank** can be used for charging utilizing the AC indoor, and the multifunctional **power bank** can be used for charging utilizing the **solar** energy outdoor, so a user can conveniently use the multifunctional **power bank** using **solar** energy at any time and any place.

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PN - [CN204243789U](#) U 20150401
PR - CN20142271800U 20140527
AP - CN20142271800U 20140527
DT - I
PA - SHENZHEN DBK ELECTRONICS CO LTD
TI - **Portable** emergency mobile **power bank**
AB - The utility model discloses a **portable** emergency mobile **power bank** which comprises a housing, a **power** supply interface, a charging interface, an electric core and a circuit board; wherein the **power** supply interface and the charging interface are arranged on the housing, and the electric core and the circuit board are arranged in the housing. A **solar** panel which charges the electric core is inlaid in the external surface of the housing. The **portable** emergency mobile **power bank** provided by the utility model performs common **power** supply and charging respectively through the **power** supply interface and the charging interface. When no external **power** supply exists in outdoor space, the **solar** energy can be converted to electric energy through the **solar** panel, thereby charging the electric core for emergency use.



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PN	- CN204167939U U 20150218	
PR	- CN20142560913U 20140926	
AP	- CN20142560913U 20140926	
DT	- I	
PA	- UNIV ANHUI SCI & TECHNOLOGY	
TI	- Portable solar power bank	
AB	- The utility model discloses a portable solar power bank. The portable solar power bank comprises a power bank body, clips, clip grooves and solar cell panels; the solar cell panels are disposed on the back surface and two adjacent side surfaces of a housing of the power bank body, the solar cell panels at the three positions can simultaneously absorb solar energy, and the solar energy is converted into electric energy to be stored in the power bank, so that the power bank cannot be powered off where there is sunshine; and the clips are disposed at edges of the front side of the housing of the power bank body, when a cellphone is charged, the cellphone can be clamped on the front side of the power bank body, and the cellphone of any common type can be clamped on the power bank body, so that the problem that the cellphone and the power bank are inconvenient to carry when the cellphone is charged can be solved. The clip grooves are disposed in the front side of the housing of the power bank body, and the clips can be just disposed in the clip grooves when the cellphone is not charged.	

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PN	- US2013285452 A1 20131031	
PNFP	- US9716405 B2 20170725	

PR - US201313870135
20130425; US201261640134P
20120430

AP - US201313870135 20130425

DT - *; Rep

CT - || R141 (A1)
[US2007019453](#) A1 20070125 [
] (PIERCE GERALD [US]);
[US2010101624](#) A1 20100429 [
] (FIORETTI EMANUELA [IT], et al);
[US2007222410](#) A1 20070927 [
] (LEE MAN G [KR]);
[US2012047386](#) A1 20120223 [
] (MATSUI RYOJI [JP])

- || STSE (B2)
[US2007019453](#) A1 20070125 [
] (PIERCE GERALD [US]);
[US2007222410](#) A1 20070927 [
] (LEE MAN G [KR]);
[US2010101624](#) A1 20100429 [
] (FIORETTI EMANUELA [IT], et al);
[US2012047386](#) A1 20120223 [
] (MATSUI RYOJI [JP])

CCI - [H02J3/02](#) ; [H02J3/32](#) ;
[H02J7/0068](#) ; [H02J7/34](#) ;
[H02J7/355](#)

CQI - [H02J7/35](#)

CCA - [Y10T307/527](#)

PA - (A1 B2)
PEPPERMINT ENERGY INC [US]

TI - (A1)
PORTABLE POWER SYSTEM

- (B2)
Portable power system

AB - (A1)
An electronic circuit that accepts
a variable DC voltage **power**
source and converts it to a
constant DC **power** source, the
energy of which is either stored
in a battery **bank** or sent out to
DC loads or AC loads via a DC/AC
conversion subsystem.

- (B2)
An electronic circuit that accepts
a variable DC voltage **power**
source and converts it to a

constant DC **power** source, the energy of which is either stored in a battery **bank** or sent out to DC loads or AC loads via a DC/AC conversion subsystem. The device capable of using **solar**, wind, geothermal, or hydroelectric energy sources.

Do you wish to continue ? (Y/N) n

[SS 5] ..v

[EPODOC: SS 5]