

**การสืบค้นข้อมูลจากสำนักงาน
สิทธิบัตรยุโรป
(EP.ESPACENET.COM)**

ข้อควรรู้เบื้องต้น

**advance search* แต่ละ *filed* ที่ตรวจค้น สามารถระบุ *And, or,not*

**Smart and advanced search* สามารถใช้ *truncation* ดังนี้

** = ไม่จำกัดตัวอักษร*

? = 0 หรือ 1 อักขระ

= 1 อักขระ

การสืบค้นด้วยวันที่

Advance search

2000:2004

2000,2004

“2005 2007”

Smart search

2000:2004

pd=“2000:2004”

pd=“2000,2004”

pd=“2000 2004”

pd>=2000 AND pd <=:2004”

การสืบค้นข้อมูล

ผ่านวิธี

SMART SEARCH

Smart search

motor

- Smart search
- Advanced search
- Classification search

Espacenet database of over 80 million patents

Smart search Siemens EP 2007

- Maintenance news
- Maintenance/outages
- News flashes
- Latest updates
- Related links

Espacenet Assistant updated

In order to offer you the best possible learning experience we have launched an updated version of the [Espacenet assistant](#) online tutorial to include recent changes.

New CPC-Browser in Espacenet

Since the launch of the CPC in January last year, the schema itself has undergone a number of revisions. The CPC browser too has adapted to meet both users' needs and requirements from the evolution of the CPC. The latest version of the browser contains a number of new user friendly features.

In the toolbar there's a date picker which allows you to choose a particular month, or a date range, and see whether there has been a CPC revision during that time. The date picker also links to the [notice of changes on the CPC site](#)

There are 3 new buttons that allow you to show or hide the 2000 series codes and you can choose to show them interleaved (their proper place in the CPC hierarchy) or at the end of the screen. The interleaved position is the official position and this will be the default in future.

Dedicated icons link you to the official printable CPC schema itself in .pdf, CPC definitions, CPC notes and CPC warnings

Don't forget to enable the "classification pop-ups" in the [Espacenet settings menu](#). This will activate the new interactive CPC pop-up window when you click on a classification symbol in an Espacenet screen.

Just a reminder, in the bibliographic view, Espacenet will display CPC classifications where a national office has classified its own documents (CPCNO) when you click the "more" link in the CPC field. Espacenet will also show combisets or C-sets where relevant.

Espacenet: [Intro](#)

การสืบค้นข้อมูล

ผ่านวิธี

ADVANCE SEARCH

สืบค้นด้วย คีย์เวิร์ด

The image shows a screenshot of the WIPO Advanced Search interface. The page title is "Advanced search". On the left side, there is a navigation menu with "Advanced search" highlighted. Below it is a "Quick help" section with several links. The main search area is titled "Advanced search" and contains several input fields. A dropdown menu is open, showing options for "Worldwide - collection of published applications from 90+ countries", "EP - complete collection including full text of European published applications", and "WIPO - complete collection including full text of PCT published applications". The "Worldwide" option is selected. Below the dropdown, there are input fields for "Title:", "Title or abstract:", "Publication number:", "Application number:", "Priority number:", "Publication date:", "Applicant(s):", "Inventor(s):", "CPC", and "IPC". The "Title or abstract" field contains the text "electric* vehicle hybrid solar". The "Publication number" field contains "WO2008014520". The "Application number" field contains "DE19971031896". The "Priority number" field contains "WO1995US15925". The "Publication date" field contains "yyyymmdd". The "Applicant(s)" field contains "Institut Pasteur". The "Inventor(s)" field contains "Smith". The "CPC" field is empty. The "IPC" field contains "H03M1/12".

Annotations in red speech bubbles:

- Advance search (pointing to the "Advanced search" menu item)
- กรณีเลือก world wide database (pointing to the "Worldwide" option in the dropdown menu)
- ระบุคีย์เวิร์ด ในเมนู title or abstract (pointing to the "Title or abstract" input field)

Parent search Change country

← About E Search

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Advanced search

Classification search

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- [How do I enter words from the title or abstract?](#)
- [How do I enter words from the description or claims?](#)
- [Can I use truncation/wildcards?](#)
- [How do I enter publication, application, priority and NPL reference numbers?](#)
- [How do I enter the names of persons and organisations?](#)
- [What is the difference between the IPC and the CPC?](#)
- [What formats can I use for the publication date?](#)
- [How do I enter a date range for a publication date search?](#)
- [Can I save my query?](#)

Related links

Advanced search

Select the collection you want to search in i

EP - complete collection including full text of European published applications

Enter your search terms - CTRL-ENTER expands the field you are in

Enter keywords in English

Title: i e.g. m

Title or abstract: i e.g.

Keyword(s) in full text: i e.g. ha

electric* vehicle hybrid solar

Enter numbers with or without country code

Publication number: i e.g. EP1883031

Application number: i e.g. EP20070010825

Priority number: i e.g. DE20021036409

Enter one or more dates or date ranges

Publication date: i e.g. 20070919

Enter name of one or more persons/organisations

Applicant(s): i e.g. IBM

Inventor(s): i e.g. Siemens

Enter one or more classification symbols

IPC i e.g. H02M7/537 H03K17/687

Clear Search

Advance search

กรณีเลือก EP database

สืบค้นจาก full text



Smart search

Advanced search

Classification search

Quick help

- Can I subscribe to an RSS feed of the result list?
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- Why is it that certain documents are sometimes not displayed in the result list?
- Can I sort the result list?
- What happens if I click on the star icon?
- What are XP documents?
- Can I save my query?

Related links

Result list

Select all (0/25) Compact

Approximately 139 results found in the Worldwide database for:
electric* vehicle hybrid solar in the title or abstract

Sort by Sort order

1.	Vehicle-mounted hybrid-energy management system						
★	<table border="0"> <tr> <td>Inventor: ZHOU YIFAN HUA YIMENG (+3)</td> <td>Applicant: ARMADILLO SPECIALTY VEHICLES LTD</td> <td>CPC:</td> <td>IPC:</td> <td>Publication Info: CN204046195 (U) 2014-12-24</td> <td>Priority date: 2014-01-06</td> </tr> </table>	Inventor: ZHOU YIFAN HUA YIMENG (+3)	Applicant: ARMADILLO SPECIALTY VEHICLES LTD	CPC:	IPC:	Publication Info: CN204046195 (U) 2014-12-24	Priority date: 2014-01-06
Inventor: ZHOU YIFAN HUA YIMENG (+3)	Applicant: ARMADILLO SPECIALTY VEHICLES LTD	CPC:	IPC:	Publication Info: CN204046195 (U) 2014-12-24	Priority date: 2014-01-06		
2.	Open Energy System						
★	<table border="0"> <tr> <td>Inventor: CASTER CASSANDRA ARINA [US] HAWKINS JUSTIN ROBERT [US]</td> <td>Applicant: CASTER CASSANDRA ARINA [US] HAWKINS JUSTIN ROBERT [US]</td> <td>CPC: H02S10/00 H02S10/40 H02S20/30 (+2)</td> <td>IPC: H01L31/04</td> <td>Publication Info: US2014338720 (A1) 2014-11-20</td> <td>Priority date: 2013-05-17</td> </tr> </table>	Inventor: CASTER CASSANDRA ARINA [US] HAWKINS JUSTIN ROBERT [US]	Applicant: CASTER CASSANDRA ARINA [US] HAWKINS JUSTIN ROBERT [US]	CPC: H02S10/00 H02S10/40 H02S20/30 (+2)	IPC: H01L31/04	Publication Info: US2014338720 (A1) 2014-11-20	Priority date: 2013-05-17
Inventor: CASTER CASSANDRA ARINA [US] HAWKINS JUSTIN ROBERT [US]	Applicant: CASTER CASSANDRA ARINA [US] HAWKINS JUSTIN ROBERT [US]	CPC: H02S10/00 H02S10/40 H02S20/30 (+2)	IPC: H01L31/04	Publication Info: US2014338720 (A1) 2014-11-20	Priority date: 2013-05-17		
3.	SOLAR ENERGY CHARGING HYBRID TRANSPORTATION VEHICLE AND OPERATION METHOD THEREOF						
★	<table border="0"> <tr> <td>Inventor: LEE JOON YUL [KR]</td> <td>Applicant: LEE JOON YUL [KR]</td> <td>CPC: Y02T10/7083</td> <td>IPC: B60L8/00 B60W10/113 B60W20/00 (+1)</td> <td>Publication Info: KR20140115027 (A) 2014-09-30</td> <td>Priority date: 2013-03-20</td> </tr> </table>	Inventor: LEE JOON YUL [KR]	Applicant: LEE JOON YUL [KR]	CPC: Y02T10/7083	IPC: B60L8/00 B60W10/113 B60W20/00 (+1)	Publication Info: KR20140115027 (A) 2014-09-30	Priority date: 2013-03-20
Inventor: LEE JOON YUL [KR]	Applicant: LEE JOON YUL [KR]	CPC: Y02T10/7083	IPC: B60L8/00 B60W10/113 B60W20/00 (+1)	Publication Info: KR20140115027 (A) 2014-09-30	Priority date: 2013-03-20		
4.	Electric power and gas hybrid vehicle						
★	<table border="0"> <tr> <td>Inventor: ZHU HONG LUO DI</td> <td>Applicant: FUZHOU HUAYING HEAVY IND MACHINERY CO LTD</td> <td>CPC:</td> <td>IPC: B60K6/00</td> <td>Publication Info: CN104085287 (A) 2014-10-08</td> <td>Priority date: 2014-07-21</td> </tr> </table>	Inventor: ZHU HONG LUO DI	Applicant: FUZHOU HUAYING HEAVY IND MACHINERY CO LTD	CPC:	IPC: B60K6/00	Publication Info: CN104085287 (A) 2014-10-08	Priority date: 2014-07-21
Inventor: ZHU HONG LUO DI	Applicant: FUZHOU HUAYING HEAVY IND MACHINERY CO LTD	CPC:	IPC: B60K6/00	Publication Info: CN104085287 (A) 2014-10-08	Priority date: 2014-07-21		
5.	Moving supermarket commercial tool vehicle						
★	<table border="0"> <tr> <td>Inventor: QU JINSHENG</td> <td>Applicant: QU JINSHENG</td> <td>CPC:</td> <td>IPC: B60P3/025</td> <td>Publication Info: CN103950405 (A) 2014-07-30</td> <td>Priority date: 2013-10-08</td> </tr> </table>	Inventor: QU JINSHENG	Applicant: QU JINSHENG	CPC:	IPC: B60P3/025	Publication Info: CN103950405 (A) 2014-07-30	Priority date: 2013-10-08
Inventor: QU JINSHENG	Applicant: QU JINSHENG	CPC:	IPC: B60P3/025	Publication Info: CN103950405 (A) 2014-07-30	Priority date: 2013-10-08		
6.	Self-charging wind-solar hybrid power generation assembly assisted by rising wings for electric vehicle						
★	<table border="0"> <tr> <td>Inventor: SHEN YUANMING ZHU WENLI</td> <td>Applicant: SHEN YUANMING</td> <td>CPC: Y02T10/7083</td> <td>IPC: B60L8/00</td> <td>Publication Info: CN203766541 (U) 2014-08-13</td> <td>Priority date: 2014-03-24</td> </tr> </table>	Inventor: SHEN YUANMING ZHU WENLI	Applicant: SHEN YUANMING	CPC: Y02T10/7083	IPC: B60L8/00	Publication Info: CN203766541 (U) 2014-08-13	Priority date: 2014-03-24
Inventor: SHEN YUANMING ZHU WENLI	Applicant: SHEN YUANMING	CPC: Y02T10/7083	IPC: B60L8/00	Publication Info: CN203766541 (U) 2014-08-13	Priority date: 2014-03-24		
7.	Electrical network i.e. onboard network, for supplying e.g. seat heating element of hybrid vehicle, has control device designed such that output voltage is adjusted to target output voltage that is higher than storage device nominal voltage						
★	<table border="0"> <tr> <td>Inventor: MÜLLER TOBIAS CARSTEN [DE] GUBALKE ANDREAS [DE] (+2)</td> <td>Applicant: VOLKSWAGEN AG [DE]</td> <td>CPC: B60H1/00428 B60K16/00 B60N2/5685 (+2)</td> <td>IPC: B60R16/03 H02J1/00 H02J7/35</td> <td>Publication Info: DE102013000948 (A1) 2014-07-24</td> <td>Priority date: 2013-01-21</td> </tr> </table>	Inventor: MÜLLER TOBIAS CARSTEN [DE] GUBALKE ANDREAS [DE] (+2)	Applicant: VOLKSWAGEN AG [DE]	CPC: B60H1/00428 B60K16/00 B60N2/5685 (+2)	IPC: B60R16/03 H02J1/00 H02J7/35	Publication Info: DE102013000948 (A1) 2014-07-24	Priority date: 2013-01-21
Inventor: MÜLLER TOBIAS CARSTEN [DE] GUBALKE ANDREAS [DE] (+2)	Applicant: VOLKSWAGEN AG [DE]	CPC: B60H1/00428 B60K16/00 B60N2/5685 (+2)	IPC: B60R16/03 H02J1/00 H02J7/35	Publication Info: DE102013000948 (A1) 2014-07-24	Priority date: 2013-01-21		
8.	Hybrid power electric vehicle						

ผลการสืบค้น 139 document

วันประกาศโฆษณาคำขอ

การสืบค้นหาสัญลักษณ์จำแนกการประดิษฐ์

Espacenet

Deutsch English Français
Contact
Change country

หาสัญลักษณ์จำแนกการประดิษฐ์

ระบุ คีย์เวิร์ด หรือ สัญลักษณ์จำแนกการประดิษฐ์ (IPC) ได้

Smart search
Advanced search
Classification search

Cooperative Patent Classification

Search for Search

View section | Index | A | B | C | D | E | F | G | H | Y

« Previous Next »

Symbol	Classification and description
☆☆☆☆☆ <input type="checkbox"/> Y02T 10/00	Road transport of goods or passengers
☆☆☆☆☆ <input type="checkbox"/> B60L 8/00	Electric propulsion with power supply from force of nature, e.g. sun, wind
☆☆☆☆☆ <input type="checkbox"/> B60L 11/00	Electric propulsion with power supplied within the vehicle (<u>B60L 8/00</u> , <u>B60L 13/00</u> take precedence; arrangements or mounting of plural diverse prime-movers for mutual or common propulsion <u>B60K 6/20</u> ; control systems specially adapted for hybrid vehicles <u>B60W 20/00</u>)
☆☆☆☆☆ <input type="checkbox"/> Y02E 10/00	Energy generation through renewable energy sources
☆☆☆☆☆ <input type="checkbox"/> Y02T 90/00	Enabling technologies or technologies with a potential or indirect contribution to GHG emissions mitigation
☆☆☆☆☆ <input type="checkbox"/> B60K 16/00	Arrangements in connection with power supply from force of nature, e.g. sun, wind (electric propulsion with power supply from force of nature, e.g. sun, wind, <u>B60L 8/00</u> ; effecting propulsion by wind motors driving water-engaging propulsive elements <u>B63H 13/00</u>)
☆☆☆☆☆ <input type="checkbox"/> B60K 6/00	Arrangement or mounting of plural diverse prime-movers for mutual or common propulsion, e.g. hybrid propulsion systems comprising electric motors and internal combustion engines { ; Control systems therefor, i.e. systems controlling two or more prime movers, or controlling one of these prime movers and any of the transmission, drive or drive units (arrangement or mounting in vehicles of electrical gearing, in which an electrical machine serves only as reduction gearing and not as the prime mover and in which no electrical storing means are used <u>B60K 17/12</u> ; control and regulation of purely electrical prime movers <u>B60L</u> ; prime-movers comprising electrical and internal combustion motors in a common engine block or housing per se <u>F02B 65/00</u> ; electric motors or motor-generators used for starting the combustion engine <u>F02N 11/04</u> ; electric motors for synchronising gearing <u>F16H 3/12</u>)} <u>B60L 2210/00</u>
☆☆☆☆☆ <input type="checkbox"/> H02J 7/00	Circuit arrangements for charging or depolarising batteries or for supplying loads from batteries
☆☆☆☆☆ <input type="checkbox"/> B60L 2210/00	Converter types

Selected classifications
nothing selected
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สัญลักษณ์ * บ่งบอกว่าโอกาสจะอยู่ใน IPC อะไร

สืบค้นด้วยการรวม คีย์เวิร์ด และ สัญลักษณ์จำแนกการประดิษฐ์

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Related links



Title:

Title or abstract:

ระบุ คีย์เวิร์ด

Enter numbers with or without country code

Publication number:

Application number:

Priority number:

Enter one or more dates or date ranges

Publication date:

Enter name of one or more persons/organisations

Applicant(s):

Inventor(s):

Enter one or more classifications

CPC

IPC

ระบุ สัญลักษณ์จำแนก
การประดิษฐ์ (IPC)



ผลการสืบค้น 66
คำขอ

Refine search → Results page 1

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Advanced search

Classification search

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Result list

Select all (0/25)

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Export (CSV | XLS)

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Print

Approximately 66 results found in the Worldwide database for:
electric* vehicle hybrid solar in the title or abstract AND **B60L** as the IPC classification

Sort by Sort order

1. **SOLAR ENERGY CHARGING HYBRID TRANSPORTATION VEHICLE AND OPERATION METHOD THEREOF**

★ Inventor: LEE JOON YUL [KR]	Applicant: LEE JOON YUL [KR]	CPC: Y02T10/7083	IPC: B60L8/00 B60W10/113 B60W20/00 (+1)	Publication Info: KR20140115027 (A) 2014-09-30	Priority date: 2013-03-20
----------------------------------	---------------------------------	-------------------------------------	---	--	------------------------------

2. **Self-charging wind-solar hybrid power generation assembly assisted by rising wings for electric vehicle**

★ Inventor: SHEN YUANMING ZHU WENLI	Applicant: SHEN YUANMING	CPC: Y02T10/7083	IPC: B60L8/00	Publication Info: CN203766541 (U) 2014-08-13	Priority date: 2014-03-24
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3. **Hybrid power electric vehicle**

★ Inventor: LIU JIE WU HAO (+3)	Applicant: POTEVMO NEW ENERGY VEHICLE TECHNOLOGY CO LTD POTEVMO NEW ENERGY CO LTD	CPC: Y02T10/7083	IPC: B60K7/00 B60L8/00 H02J7/00	Publication Info: CN203637590 (U) 2014-06-11	Priority date: 2013-12-31
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4. **Numerical-control hybrid-power-source movable cleaning machine**

★ Inventor: GOU YU	Applicant: BEIJING BROWNLION TECHNOLOGY CO LTD	CPC: Y02T10/7083	IPC: B08B3/02 B60L8/00 B62K5/027	Publication Info: CN203599118 (U) 2014-05-21	Priority date: 2013-09-16
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5. **Hybrid power electric vehicle**

★ Inventor: LIU JIE WU HAO (+3)	Applicant: POTEVMO NEW ENERGY VEHICLE TECHNOLOGY CO LTD POTEVMO NEW ENERGY CO LTD	CPC: Y02T10/7083	IPC: B60K7/00 B60L8/00 H02J7/00	Publication Info: CN103707775 (A) 2014-04-09	Priority date: 2013-12-31
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6. **Storage battery power supply system based on solar energy, vehicle hybrid power system and vehicle**

★ Inventor: YANG SIPENG ZHENG WEI (+5)	Applicant: ZHENGZHOU YUTONG BUS CO LTD	CPC: Y02T10/7083	IPC: B60L8/00 B60R16/03	Publication Info: CN203511533 (U) 2014-04-02	Priority date: 2013-10-10
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7. **Hybrid electric vehicle with electric energy as main energy and solar energy and wind energy as auxiliary energy**

★ Inventor: WU HAO	Applicant: KUNSHAN ZHENHONG ELECTRONIC MACHINERY CO LTD	CPC: Y02T10/7083 Y02T10/90	IPC: B60K16/00 B60L8/00	Publication Info: CN203511328 (U) 2014-04-02	Priority date: 2013-07-11
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8. **Solar oil and electric hybrid power system**

★ Inventor: ZHAO YEMIAO GUO CHENHAI	Applicant: UNIV JIANGSU	CPC: Y02T10/7083 Y02T10/7241	IPC: B60K6/28 B60L8/00	Publication Info: CN203427600 (U) 2014-02-12	Priority date: 2013-07-30
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ข้อมูลการดำเนินการ
ตรวจสอบคำขอ

เอกสารอ้างอิง
ของคำขอ

รายการคำขอที่
นำคำขอนี้เป็น
เอกสารอ้างอิง

เลขที่คำขอ
ยื่นครั้งแรก

ทำให้ทราบคร่าวๆว่า
คำขอนี้ยื่นที่ไหนบ้าง

Search Results (A) Query

Refine search →

GB2470478 (A) Geographic data: GB2470478 (A) — 2010-11-24

my patents list Previous 51 / 65 Next GB Register Report data error Print

Electromechanical hybrid propulsion system for road vehicles

Page bookmark: GB2470478 (A) - Electromechanical hybrid propulsion system for road vehicles

Inventor(s): SHRIER BARRY [GB]; HOBDAY IAN [GB] ±

Applicant(s): LIBERTY ELECTRIC CARS LTD [GB] ±

Classification:
- International: B60K1/00; B60L8/00; B60W10/06; B60W10/18; B60W10/24; B60W10/26; B60W30/18
- cooperative: B60K1/00; B60K6/105; B60K6/28; B60L11/005; B60L11/123; B60L11/16; B60L7/10; B60L8/00; B60W10/06; B60W10/08; B60W10/184; B60W10/24; B60W10/26; B60W30/18127; F03D9/002; B60K2015/003; B60K2015/005; B60L2240/62; B60W20/00; B60W2550/402; B60Y2400/114; F05B2240/941; Y02E10/725; Y02T10/6204; Y02T10/6217; Y02T10/6278; Y02T10/6291; Y02T10/7005; Y02T10/7022; Y02T10/7027; Y02T10/7033; Y02T10/7077; Y02T10/7291; Y02T90/16; Y02T90/162 → more

Application number: GB20100008264 20100518

Priority number(s): GB20090008482 20090518

Also published as: WO2010133330 (A1)

Abstract of GB2470478 (A)

Translate this text into: Albanian patenttranslate powered by

A non-combustion component propulsion system for road vehicles comprises an electrical supply means such as a battery system 1, electrical energy storage and supply means such as a super capacitor 2, a kinetic energy supply means 3 such as a flywheel operated by a motor 4. The controller 4 senses the energy needs of the vehicle and the energy requirements of the systems to deliver the required energy and also to employ regenerative braking to replenish the energy sources 1,2,3 as required. Additional energy generation systems such as solar panels and wind vanes may be included. The invention solves or overcomes problems with efficiency of energy storage and avoids the need for a combustion engine.

FIGURE 1

Sitemap Access 05.04.2015 Worldwide Database 5.8.23; 92p

ประมวลผลการเลือกเมนู GB register



Intellectual Property Office

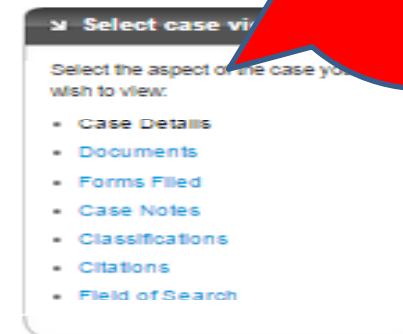
Ipsium - Online Patent Information and Document Inspection Service

[New Search](#) [View on Espacenet](#)

GB2470478 - Multi component propulsion systems for road vehicles

Case Details

Application Number	GB1008264.2
Application Source	Form 1
Publication Number	GB2470478
Status	Terminated before grant
Filing Date	18 May 2010
Publication Date	24 November 2010
Not In Force Date	05 November 2014
Priority Claimed	18 May 2009 In United Kingdom - Document: 0908482
Application Title	Multi component propulsion systems for road vehicles
Address for Service	BAWDEN & ASSOCIATES 4 The Gatehouse 2 High Street HARPENDEN Hertfordshire AL5 2TH United Kingdom [ADP Number 07703572002]
Applicant / Proprietor	LIBERTY ELECTRIC CARS LTD Incorporated in the United Kingdom The Oxford Science Park OXFORD OX4 4GA United Kingdom [ADP Number 10016566002]
Inventors	BARRY SHRIER Magdalen Centre, Robert Robinson Avenue The Oxford Science Park OXFORD OX4 4GA United Kingdom [ADP Number 10310480001] IAN HOBDAV Magdalen Centre, Robert Robinson Avenue The Oxford Science Park OXFORD OX4 4GA United Kingdom [ADP Number 10310498001]



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EP2851229 (A1)

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Bibliographic data: EP2851229 (A1) — 2015-03

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Control device for **hybrid vehicle** and control method for **hybrid vehicle**

Page bookmark EP2851229 (A1) - Control device for hybrid vehicle and control method for hybrid vehicle

Inventor(s): YAMANE FUTOSHI [JP]; ISHIKAWA MASAMI [JP]; MURAYAMA YOSHINARI [JP]; MURAOKA MITSUTOSHI [JP]; YOSHIDA TARO [JP]; FURUSAWA KENJI [JP] ±

Applicant(s): SAMSUNG SDI CO LTD [KR] ±

Classification: - International: **B60K 6/48**; **B60K 6/485**; B60W20/00
- cooperative: **B60K6/48**; **B60K6/485**; **B60L11/1803**; **B60W20/00**

Application number: **EP**20140183722 20140905

Priority number(s): **JP**20130184645 20130906 ; **KR**20140016244 20140212

Also published as: [US2015069935 \(A1\)](#)

Abstract of EP2851229 (A1)

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A control device (100) for a **hybrid vehicle** includes: a current command value calculator (101) for calculating torque and a weak field current command values input to an inverter (3); and a current command value correction calculator (102) for calculating torque and weak field current correction values added to the torque and weak field current command values, wherein when an accumulation of **electricity** of an **electricity** storage device (4) is equal to or larger than a reference value, the current command value calculator (101) calculates the torque and weak field current command values to make a load applied to an engine (1) by a motor generator (20) zero, and the current command value correction calculator calculates the torque and weak field current correction values to make a load applied to the engine (1) by a motor driving system (2) other than the motor generator (20) zero.



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Status Request for examination was made
 Database last updated on 21.04.2015

Most recent event ⓘ 24.03.2015 Publication in section I.1 EP Bulletin published on 25.03.2015 [\[2015/13\]](#)

Applicant(s) For all designated states
 Samsung SDI Co., Ltd.
 150-20, Gongse-ro, Giheung-gu
 Yongin-si, Gyeonggi-do 449-577 / KR

[2015/13]
 01 / Yamane, Futoshi
 Samsung R&D Institute Japan Co. Ltd.
 Sugawara-cho 2-7
 Tsurumi-ku, Kanagawa-ken
 Yokohama-shi / JP

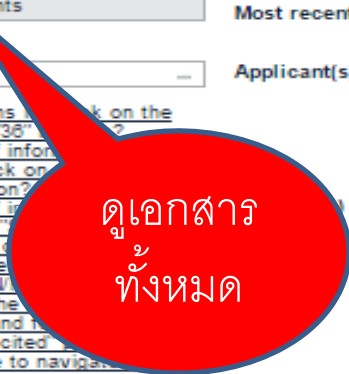
02 / Ishikawa, Masami
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 Yokohama-shi / JP

03 / Murayama, Yoshinari
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 Yokohama-shi / JP

04 / Muraoka, Mitsutoshi
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 Yokohama-shi / JP

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 Tsurumi-ku, Kanagawa-ken
 Yokohama-shi / JP

06 / Furusawa, Kenji
 Samsung R&D Institute Japan Co. Ltd.
 Sugawara-cho 2-7
 Tsurumi-ku, Kanagawa-ken
 Yokohama-shi / JP



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30.03.2015 Reminder period for payment of examination fee/designation fee and correction of deficiencies in Written Opinion/amendment	Search / examination	
25.02.2015 Notification of forthcoming publication	Search / examination	
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06.02.2015 Search started	Search / examination	
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(11) **EP 0 932 338 B1**

(12) **EUROPEAN PATENT SPECIFICATION**

(45) Date of publication and mention of the grant of the patent:
10.09.2003 Bulletin 2003/37

(51) Int Cl.⁷: **A01N 25/02, A01N 27/00, A01N 31/04, A01N 49/00**

(21) Application number: **97936315.7**

(86) International application number:
PCT/US97/13457

(22) Date of filing: **29.07.1997**

(87) International publication number:
WO 98/004128 (05.02.1998 Gazette 1998)

(54) **PESTICIDAL COMPOSITION AND METHOD OF USE**

PESTIZIDE ZUSAMMENSETZUNG UND VERFAHREN ZUR ANWENDUNG

COMPOSITION PESTICIDE ET PROCEDE D'UTILISATION ASSOCIE

(84) Designated Contracting States:
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

(56) References cited:
DE-A- 3 901 341 FR-A- 2 759 546
US-A- 4 518 593 US-A- 4 906 488
US-A- 5 411 992 US-A- 5 518 736

(30) Priority: **29.07.1996 US 22377 P**
28.07.1997 US 901216

(43) Date of publication of application:
04.08.1999 Bulletin 1999/31

(73) Proprietor: **Effcon, Inc.**
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(72) Inventors:
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Gainesville, GA 30504 (US)

(74) Representative:
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51429 Bergisch Gladbach (DE)

• **DATABASE CHEMABS [Online] CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; E.HAUBRUGE ET AL.: "The toxicity of five essential oils extracted from Citrus species with regard to Sitophilus zeamais Motsch (Col., Curculionidae), Prostephanus truncatus (Horn) (Col., Bostrychidae) and Tribolium castaneum Herbst (Col., Tenebrionidae)" retrieved from STN-INTERNATIONAL, accession no. 112:137816 CA XP002146081 & MEDED. FAC. LANDBOUWWET., RIJKSUNIV. GENT, vol. 54, no. 3b, 1989, pages 1083-1093,**

• **DATABASE WPI Section Ch, Week 199312 Derwent Publications Ltd., London, GB; Class C03, AN 1993-096724 XP002146082 & JP 05 039203 A (EARTH SEIYAKU KK), 19 February 1993 (1993-02-19)**

• **DATABASE WPI Section Ch, Week 199028 Derwent Publications Ltd., London, GB; Class C03, AN 1990-213153 XP002146083 & JP 02 142703 A (KURITA WATER IND LTD) 31 Mar**

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Status	Request for examination was made Database last updated on 21.04.2015		
Most recent event ⓘ	24.03.2015	Publication in section I.1 EP Bulletin	published on 25.03.2015 ➤ [2015/13]
Applicant(s)	For all designated states Samsung SDI Co., Ltd. 150-20, Gongse-ro, Giheung-gu Yongin-si, Gyeonggi-do 449-577 / KR		
Inventor(s)	<p>[2015/13]</p> <p>01 / Yamane, Futoshi Samsung R&D Institute Japan Co. Ltd. Sugasawa-cho 2-7 Tsurumi-ku, Kanagawa-ken Yokohama-shi / JP</p> <p>02 / Ishikawa, Masami Samsung R&D Institute Japan Co. Ltd. Sugasawa-cho 2-7 Tsurumi-ku, Kanagawa-ken Yokohama-shi / JP</p> <p>03 / Murayama, Yoshinari Samsung R&D Institute Japan Co. Ltd. Sugasawa-cho 2-7 Tsurumi-ku, Kanagawa-ken Yokohama-shi / JP</p> <p>04 / Muraoka, Mitsutoshi Samsung R&D Institute Japan Co. Ltd. Sugasawa-cho 2-7 Tsurumi-ku, Kanagawa-ken Yokohama-shi / JP</p> <p>05 / Yoshida, Taro Samsung R&D Institute Japan Co. Ltd. Sugasawa-cho 2-7 Tsurumi-ku, Kanagawa-ken Yokohama-shi / JP</p> <p>06 / Furusawa, Kenji Samsung R&D Institute Japan Co. Ltd. Sugasawa-cho 2-7 Tsurumi-ku, Kanagawa-ken Yokohama-shi / JP</p>		



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AND	English Description	=		?
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AND	English Description	=	motor	?
AND	English Description	=	plunger	?
AND	English All	=	solar	?
AND	International Class	=	B60L	?
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AND	International Class	=		?
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Analysis

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Int.Class	Appl.No	Title	Applicant	Ctr	PubDate
1. 1295784		Vehicle with solar cell		EP	26.03.2003
B62J 9/00	02019916		HONDA MOTOR CO LTD		CHO TOSHIYUKI
To store a solar cell panel, which is mounted on a motor-assisted vehicle in a roughly horizontal posture, in a luggage basket so that the solar cell panel is not scratched or stained at non-use time. A solar cell panel 8 is supported on a front basket 7 in a horizontal posture, to receive light. In the cases of night or raining when sunlight is not received, the panel 8 is stored in the basket 7. Particularly, the panel 8 is supported by a pivot shaft 26 near a rear wall of the basket 7 so that it can be swiveled relative to the basket 7. Side surfaces of the basket 7 are provided with guide holes 7 for guiding the panel 8 through the pivot shaft 26 at the time of storing. The pivot shaft 26 is guided by the guide holes 27, and the panel 8 is stored in the basket 7 with the pivot shaft 26 on the lower side.					
2. 20110240380		SUNSHINE ANGLE ADJUSTABLE SOLAR ENERGY ELECTRIC WHEEL CHAIR		US	06.10.2011
B60K 16/00	12934342		Zhao Tianyun		Zhao Tianyun
A sunshine angle adjustable solar energy electric wheel chair, a solar energy cell is mounted on the electric wheel chair so as to charge up a storage battery, left and right horizontal pipes for mounting the cell are supported by four lifted stand pipes, the height of the lifted stand pipes is adjusted, i.e. the sunshine angle may be adjusted at six azimuth, so that the charging current is maximized.					
3. 4516647		Solar powered vehicle		US	14.05.1985

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vehicle

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synonym

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Expansion Mode: Supervised

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- [AERO] Aeronautics & Aerospace Engineering
- [AGRI] Agriculture, Fisheries & Forestry
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Term 1: vehicle

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Refine Search FP:((EN_DE:(("vehicle" OR "tractor" OR "vehicular" OR Search



Analysis

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Int. Class	Appl. No	Title	Applicant	Ctr	PubDate
1.	0232222	PERFECCIONAMIENTOS INTRODUCIDOS EN SUSPENSIONES PARA VEHÍCULOS U OTROS		es	16.05.1957
B61	P0232222		BUTTAZZONI, NOEMI		
Perfeccionamientos introducidos en suspensiones para vehículos u otros, caracterizados por consistir esencialmente según queda expuesto, en un cilindro en el cual se desplaza un émbolo diafragma libre. Dicho cilindro está cerrado en su extremidad inferior, y el espacio así limitado está relleno de aire o gas inerte bajo presión.					
2.	0249789	CHASIS PARA VEHÍCULOS INDUSTRIALES Y COMERCIALES		es	16.12.1959
B61	P0249789		LAGUNA VARGAS, PRUDENCIO		
3.	0298040	DISPOSITIVO APTO PARA REALIZAR LA CONJUNCIÓN Y LA INTERCOMUNICACIÓN ENTRE DOS SEGMENTOS DE UN VEHÍCULO ARTICULADO		es	01.09.1964
B61	P0298040		OFFICINE VIBERTI, SOCIETÀ PER AZIONI		
4.	0295562	PERFECCIONAMIENTOS EN INSTALACIONES TRANSPORTADORAS		es	01.05.1964
B61	P0295562		FISHER & LUDLOW, LIMITED		
5.	0296238	MEDIO DE TRANSPORTE		es	16.03.1964
B61	P0296238		SAFEGE-TRANSPORT		
6.	1997/02108	BULK MATERIAL HANDLING VEHICLE		za	26.11.1997
B61D	1997/02108		UNITED OSTERMEYER ENG PTY LTD	BERND OSTERMEYER	

A vehicle comprising a chassis supported on a plurality of wheels to render it mobile, a load carrying body supported on the chassis for movement in a vertical direction and a lateral direction relative to the chassis. The body having a selectively openable discharge passage arranged to discharge material from the bottom of the body laterally to one side of the chassis. A floor structure forms the major portion of the bottom of the body, and is mounted for pivotal movement relative to the remainder of the body from a position closing the bottom of the body to a position downwardly inclined from one side of the body toward the opposite side. The floor thereby forming a chute to direct material to gravity flow from the body down the chute to



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51. (WD2015055427) MOTOR VEHICLE HAVING AN AIR-CONDITIONING SYSTEM .

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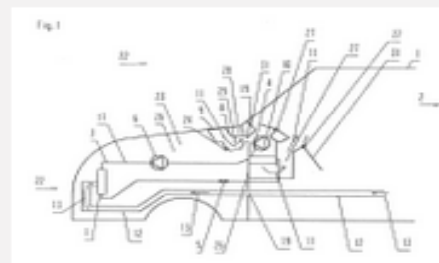
Pub. No.: WO/2015/055427 International Application No.: PCT/EP2014/070948
Publication Date: 23.04.2015 International Filing Date: 30.09.2014
IPC: B60H 1/00 (2006.01), B60H 1/32 (2006.01), B60H 3/02 (2006.01)

Applicants: WEIDMANN PLASTICS TECHNOLOGY AG [CH/CH]; Neue Jonastrasse 60 CH-8640 Rapperswil (CH)
Inventors: DAL VECCHIO, Piero; (CH). HARKE, Stefan; (CH). MÜLLER, Armin; (CH). BÖLSTERLI, Christian; (CH)

Agent: RUTZ, Andrea; (CH)
Priority Data: 01760/13 14.10.2013 CH

Title (DE) KRAFTFAHRZEUG MIT EINER KLIMAANLAGE (EN) MOTOR VEHICLE HAVING AN AIR-CONDITIONING SYSTEM (FR) VÉHICULE AUTOMOBILE AVEC CLIMATISATION

Abstract: (DE)Es wird ein Kraftfahrzeug (1) vorgeschlagen mit einem Fahrgastinnenraum (2) sowie einem Motorraum (26), wobei der Fahrgastinnenraum (2) vom Motorraum (26) durch eine Stirnwand (25) getrennt ist, mit einer Klimaanlage (3) zum Heizen und/oder Kühlen des Fahrgastinnenraumes (2), die einen Verdichter (6), ein Expansionsventil (5), einen ersten Wärmeübertrager (4) und mindestens einen zweiten Wärmeübertrager (7) umfasst, welche mittels eines Wärmeübertragungsmediums fluidisch miteinander verbunden sind, weiter umfassend eine erste Leitstruktur (8) zur Leitung eines ersten Luftstromes (11) von einem äusseren Karosseriedurchbruch (9) in den ersten Wärmeübertrager (4), der geeignet ist, einen Energieaustausch zwischen dem Wärmeübertragungsmedium und dem ersten Luftstrom (11) darzustellen, wobei der erste Wärmeübertrager (4) mit dem Fahrgastinnenraum (2) verbunden ist zum Zuführen des ersten Luftstromes (11) in den Fahrgastinnenraum (2). Erfindungs gemäss ist eine zweite Leitstruktur (12) zur Leitung eines zweiten Luftstromes (13) vorgesehen, die geeignet ist, Luft aus dem Fahrgastinnenraum (2) in den



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51. (WO2015055427) MOTOR VEHICLE HAVIN

PCT Biblio. Data Description Claims National Phase Notices Drawings

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Kraftfahrzeug mit einer Klimaanlage

Gegenstand

Die Erfindung betrifft ein Kraftfahrzeug mit einem Fahrgastinnenraum sowie einem Motorraum, wobei der Fahrgastinnenraum vom Motorraum durch eine Stirnwand getrennt ist, mit einer Klimaanlage zum Heizen und / oder Kühlen des Fahrgastinnenraumes, die einen Verdichter, ein Expansionsventil, einen ersten Wärmeübertrager und mindestens einen zweiten Wärmeübertrager umfasst, welche mittels eines Wärmeübertragungsmediums fluidisch miteinander verbunden sind, weiter umfassend eine erste Leitstruktur zur Leitung eines Luftstromes von einem äusseren Karosseriedurchbruch in den ersten Wärmeübertrager, der geeignet ist, einen Energieaustausch zwischen dem Wärmeübertragungsmedium und dem Luftstrom darzustellen, wobei der erste Wärmeübertrager mit dem Fahrgastinnraum verbunden ist zum Zuführen des ersten Luftstroms in den Fahrgastinnenraum.

Stand der Technik

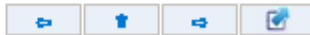
Kraftfahrzeuge mit Klimaanlage, die zum Kühlen eines Fahrgastinnenraumes geeignet sind, sind dem Fachmann seit langem bekannt. Sie sind so aufgebaut wie im obigen Abschnitt "Gegenstand" beschrieben, wobei der erste Wärmeübertrager als sogenannter Verdampfer zur Übertragung von Kälteenergie auf den Luftstrom, welcher dem Fahrgastinnenraum zugeführt wird, ausgebildet ist. Es ist bekannt, dass derartige Klimaanlage nur mit einem hohen Energieaufwand betrieben werden können.

Ein Kraftfahrzeug mit einer Klimaanlage, die zum Heizen und / oder Kühlen des Fahrgastinnenraumes geeignet ist, ist in der DE 198 066 54 AI angegeben. Diese Klimaanlage umfasst ein Wärmeübertragungsmedium, welches phasenweise im

gasförmigen, flüssigen und überkritischen Zustand vorliegt. Ein Verdichter fördert das Wärmeübertragungsmedium unter hohem Druck über ein Expansionsventil und einen ersten Wärmeübertrager, der geeignet ist, einen Energieaustausch zwischen dem Wärmeübertragungsmedium und einem Luftstrom darzustellen, der in den Fahrgastinnenraum geleitet wird, hin zu einem zweiten Wärmeübertrager. Typische Drücke des Wärmeübertragungsmediums sind ca. 3 bis 70 bar für teilfluorierte Wärmeübertragungsmedien und bis 150 bar für Kohlendioxid. Die Klimaanlage kann durch geeignete Wahl und Verschaltung der gewählten Komponenten der Klimaanlage sowohl im Heizmodus als sogenannte Wärmepumpe betrieben werden, die geeignet ist, unabhängig von der Art und dem Betriebszustand eines Vortriebsaggregates des Kraftfahrzeuges, Heizenergie für den Fahrgastinnenraum zur Verfügung zu stellen, als auch im Kühlmodus als Kälteanlage betrieben werden, die geeignet ist, Kälteenergie dem Fahrgastinnenraum zur Verfügung zu stellen. Als bevorzugtes

Wärmeübertragungsmedium wird verdichtetes Kohlendioxid vorgeschlagen. Solche Klimaanlage weisen jedoch unabhängig von der Wahl des Wärmeübertragungsmediums zu dessen Betrieb einen hohen Energiebedarf auf.

Zur Verbesserung der Wirksamkeit der Klimaanlage, d.h. der Betriebfähigkeit unter ungünstigen Umgebungsbedingungen, muss zudem häufig bei



หมายเหตุ: ข้อความบนพื้นฐานของตัวละครดิโนมิติกระบวนการการันตี กรุณาใช้รุ่น PDF สำหรับเรื่องทางกฎหมาย

ยานยนต์เครื่องปรับอากาศ

บทความ

สิ่งประดิษฐ์ที่เกี่ยวข้องกับยานยนต์ที่มีห้องโดยสารและห้องเครื่องประเดิมโดยสารจะถูกแยกออกจากห้องเครื่องด้วยกำแพงหุ้มด้วยระบบปรับอากาศเพื่อให้ความร้อนและ / หรือ การระบายความร้อนของห้องโดยสาร, คอมเพรสเซอร์, วาล์วขยายตัวแลกเปลี่ยนความร้อนเป็นครั้งแรกและอย่างน้อยหนึ่งเครื่องแลกเปลี่ยนความร้อนที่สอง รวมถึงที่มีการเชื่อมต่อ fluidically กับแต่ละอื่น ๆ โดยสื่อการถ่ายเทความร้อนต่อการประกอบโครงสร้างคู่มือครั้งแรกสำหรับแนวทางการไหลของอากาศจากภายนอกร่างกายยากจนผ่านเครื่องแลกเปลี่ยนความร้อนแรกซึ่งเป็นการสามารถในการประกอบการแลกเปลี่ยนพลังงานระหว่างกลางการถ่ายเทความร้อนและกระแสนอกอากาศประเดิมแลกเปลี่ยนความร้อนครั้งแรกกับ Fahrgastinnenraum มีการเชื่อมต่อสำหรับการจัดการไหลของอากาศครั้งแรกในห้องโดยสาร

รัฐของศิลปะ

ยานพาหนะที่มีระบบปรับอากาศที่มีความเหมาะสมสำหรับการระบายความร้อนพื้นที่ Inne ผู้โดยสารได้รู้จักกันมานานที่มีความเชี่ยวชาญ พวกเขาจะสร้างเพื่อที่อธิบายไว้ในส่วนดังกล่าวข้างต้น "วัตถุ" ประเด็นแรกการถ่ายเทความร้อนให้เป็นผลเมืองต่างประเทศโดย "ไม่ต้องระเหย EHIC ใช้สำหรับการส่งพลังงานเย็นเพื่อกระแสนอกอากาศซึ่งเป็นอาหารที่ห้องโดยสารจะเกิดขึ้น เป็นที่รู้จักกันว่าระบบเครื่องปรับอากาศดังกล่าวสามารถดำเนินการกับการใช้พลังงานสูง

ยานยนต์ที่มีเครื่องปรับอากาศที่เหมาะสมสำหรับการทำความร้อนและ / หรือการระบายความร้อนของห้องโดยสารอธิบายไว้ใน DE 198 086 54 AI ระบบปรับอากาศซึ่งรวมถึงสื่อการถ่ายเทความร้อนซึ่งจะค่อย ๆ ใน

ก๊าซของเหลวและสภาพ supercritical เป็นปัจจุบัน คอมเพรสเซอร์ส่งเสริมสื่อการถ่ายเทความร้อนภายใต้ความดันสูงผ่านวาล์วขยายตัวและการแลกเปลี่ยนความร้อนแรกซึ่งเป็นการสามารถในการประกอบการแลกเปลี่ยนพลังงานระหว่างกลางการถ่ายเทความร้อนและการไหลของอากาศซึ่งเป็นผู้กำกับที่เข้ามาในห้องโดยสารที่มีต่อการถ่ายเทความร้อนที่สอง แรงกดดันโดยทั่วไปของการถ่ายเทความร้อนปานกลางประมาณ 3-70 บาร์สำหรับสื่อการถ่ายโอนความร้อนและ hydrofluorocarbons ถึง 150 บาร์สำหรับก๊าซคาร์บอนไดออกไซด์ เครื่องปรับอากาศสามารถดำเนินการโดยการเลือกที่เหมาะสมและเชื่อมต่อโครงข่ายของชิ้นส่วนที่เลือกของเครื่องปรับอากาศทั้งในโหมดความร้อนเป็นโหมดความร้อนที่เรียกว่า "โหมด" เครื่องปรับอากาศที่สามารถในการให้บริการที่เป็นอิสระจากชนิดและสถานการณ์ดำเนินการดำเนินงานของหน่วยขับเคลื่อนของยานยนต์, เครื่องทำความร้อนสำหรับห้องโดยสารที่มีอยู่เช่นเดียวกับใน โหมดการระบายความร้อนให้ทำงานเป็นระบบทำความเย็นที่มีความสามารถในการให้พลังงานระบายความร้อนไปยังห้องโดยสาร ในฐานะที่เป็นที่ต้องการ

สื่อการถ่ายโอนความร้อน vorgeschlagen ก๊าซคาร์บอนไดออกไซด์หนาแน่น อย่างไรก็ตามระบบเครื่องปรับอากาศดังกล่าวมีความเป็นอิสระจากการเลือกสื่อการถ่ายเทความร้อนสำหรับการดำเนินการดำเนินงานที่มีต่อความต้องการพลังงานสูง

เพื่อปรับปรุงประสิทธิภาพของเครื่องปรับอากาศเช่นการทำงานภายใต้สภาพแวดล้อมที่ไม่พึงประสงค์ก็มักจะแลกเปลี่ยนความร้อนภายใน จะต้องมีการระบุไว้ในเครื่องปรับอากาศนี้ซึ่งจะช่วยให้การถ่ายโอนพลังงานภายใน จากสื่อการถ่ายเทความร้อนตามจุดต่าง ๆ ของเครื่องปรับอากาศ นี้แลกเปลี่ยนความร้อนภายในโดยเฉพาะอย่างยิ่งเกี่ยวกับการถ่ายโอนความร้อนของเหลวเช่นก๊าซคาร์บอนไดออกไซด์ซึ่งจะต้องมีการดำเนินการบางส่วน transcritically อย่างน้อย การดำเนินการทางอุณหพลศาสตร์ของการถ่ายเทความร้อนภายในดังกล่าวจะแสดงในรูปที่ 4 WO2008 / 003 841 ไอที่ระบุไว้ในบันทึกของ P / ชมแผนภาพซึ่งแสดงให้เห็นว่าการใช้เครื่องแลกเปลี่ยนความร้อนภายในการดำเนินการ transcritical แม้จะมีสภาพแวดล้อมที่ไม่เอื้ออำนวยโดยเฉพาะอย่างยิ่งที่อุณหภูมิสูงมาก เป็นไปได้ แต่ความต้องการพลังงานที่สูงขึ้นต้อง ในหลักการข้อเสนอนี้ไปใช้กับกรณีที่โดยสารคือการให้ความร้อนเช่นเดียวกับกรณีที่การระบายความร้อนที่ต้องการของห้องโดยสาร

เพื่อเพิ่มประสิทธิภาพการใช้พลังงานของยานยนต์ที่อยู่ใน EP1316 450 ไอ

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Kraftfahrzeug mit einer Klimaanlage

Gegenstand

Die Erfindung betrifft ein Kraftfahrzeug mit einem Fahrgastinnenraum sowie einem Motorraum, wobei der Fahrgastinnenraum v eine Stirnwand getrennt ist, mit einer Klimaanlage zum Heizen und / oder Kühlen des Fahrgastinnenraumes, die einen Verdicht Expansionsventil, einen ersten Wärmeübertrager und mindestens einen zweiten Wärmeübertrager umfasst, welche mittels eines Wärmeübertragungsmediums fluidisch miteinander verbunden sind, weiter umfassend eine erste Leitstruktur zur Leitung eines L äusseren Karosseriedurchbruch in den ersten Wärmeübertrager, der geeignet ist, einen Energieaustausch zwischen dem Wärme und dem Luftstrom darzustellen, wobei der erste Wärmeübertrager mit dem Fahrgastinnraum verbunden ist zum Zuführen des den Fahrgastinnenraum.

Stand der Technik

Kraftfahrzeuge mit Klimaanlagen, die zum Kühlen eines Fahrgastinneraumes geeignet sind, sind dem Fachmann seit langem b aufgebaut wie im obigen Abschnitt "Gegenstand" beschrieben, wobei der erste Wärmeübertrager als sogenannter Verdampfer zur Übertragung von Kälteenergie auf den Luftstrom, welcher dem Fahrgastinnenraum zugeführt wird, ausgebildet ist. Es ist bekannt, dass derartige Klimaanlagen nur mit einem hohen Energieaufwand betrieben werden können.

Ein Kraftfahrzeug mit einer Klimaanlage, die zum Heizen und / oder Kühlen des Fahrgastinnenraumes geeignet ist, ist in der DE 198 066 54 A1 angegeben. Diese Klimaanlage umfasst ein Wärmeübertragungsmedium, welches phasenweise im

gasförmigen, flüssigen und überkritischen Zustand vorliegt. Ein Verdichter fördert das Wärmeübertragungsmedium unter hohem Druck über ein Expansionsventil und einen ersten Wärmeübertrager, der geeignet ist, einen Energieaustausch zwischen dem Wärmeübertragungsmedium und einem Luftstrom darzustellen, der in den Fahrgastinnenraum geleitet wird, hin zu einem zweiten Wärmeübertrager. Typische Drücke des Wärmeübertragungsmediums sind ca. 3 bis 70 bar für teilfluorierte Wärmeübertragungsmedien und bis 150 bar für Kohlendioxid. Die Klimaanlage kann durch geeignete Wahl und Verschaltung der gewählten Komponenten der Klimaanlage sowohl im Heizmodus als sogenannte Wärmepumpe betrieben werden, die geeignet ist, unabhängig von der Art und dem Betriebszustand eines Vortriebsaggregates des Kraftfahrzeuges, Heizenergie für den Fahrgastinnenraum zur Verfügung zu stellen, als auch im Kühlmodus als Kälteanlage betrieben werden, die geeignet ist, Kälteenergie dem Fahrgastinnenraum zur Verfügung zu stellen. Als bevorzugtes

Wärmeübertragungsmedium wird verdichtetes Kohlendioxid vorgeschlagen. Solche Klimaanlagen weisen jedoch unabhängig von der Wahl des Wärmeübertragungsmediums zu dessen Betrieb einen hohen Energiebedarf auf.

Zur Verbesserung der Wirksamkeit der Klimaanlage, d.h. der Betriebsfähigkeit unter ungünstigen Umgebungsbedingungen, muss zudem häufig bei

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Name/Code/Address	<table border="0"> <tr> <td>Applicant(AP)</td> <td>ex) Korea, 219990043221, Seoul*university</td> <td><input type="button" value="and"/></td> <td>Inventor(IN)</td> <td>ex) KIMChulSoo, 419990384727, Seoul*university</td> <td><input type="button" value="and"/></td> </tr> <tr> <td>Agent(AG)</td> <td>ex) KIMChulSoo, 919980000341, Seoul</td> <td><input type="button" value="and"/></td> <td>Patentee(RG) Name</td> <td>ex) 김철수 (Type the name in the Korean alphabet)</td> <td><input type="button" value="and"/></td> </tr> </table>	Applicant(AP)	ex) Korea, 219990043221, Seoul*university	<input type="button" value="and"/>	Inventor(IN)	ex) KIMChulSoo, 419990384727, Seoul*university	<input type="button" value="and"/>	Agent(AG)	ex) KIMChulSoo, 919980000341, Seoul	<input type="button" value="and"/>	Patentee(RG) Name	ex) 김철수 (Type the name in the Korean alphabet)	<input type="button" value="and"/>																												
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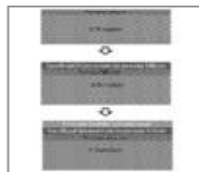
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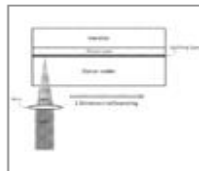
Unexamined [1] STRUCTURES AND METHODS FOR HIGH EFFICIENCY COMPOUND SEMICONDUCTOR SOLAR CELLS(고효율 화합물 반도체 태양 전지를 위한 구조 및 방법)



IPC: H01L 31/0735 H01L 31/18 Applicant : Solexel, Inc.
 Application No. : 1020147027472 Application Date : 2014.09.29
 Registration No. : Registration Date :
 Unex. Pub. No. : 1020140138817 Unex. Pub. Date : 2014.12.04
 Agent : MUHANN PATENT & LAW FIRM Inventor : KAPUR, Pawan | MOSLEHI, Mehrdad, M.

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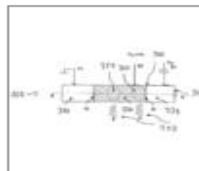
Unexamined [2] SYSTEMS AND METHODS FOR LASER SPLITTING AND DEVICE LAYER TRANSFER(레이저 분할 및 디바이스 층 전사를 위한 시스템 및 방법)



IPC: H01L 21/301 H01L 21/268 Applicant : Solexel, Inc.
 Application No. : 1020147027309 Application Date : 2014.09.26
 Registration No. : Registration Date :
 Unex. Pub. No. : 1020140140053 Unex. Pub. Date : 2014.12.08
 Agent : MUHANN PATENT & LAW FIRM Inventor : YONEHARA, Takao | RANA, Virendra, V. | SEUTTER, S...

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Registered [3] WAVELENGTH SPECIFIC SILICON BASED LIGHT EMITTING DEVICE(파장 특정 실리콘계 발광 소자)



IPC: H01L 33/00 Applicant : Tshwane University of Technology
 Application No. : 1020127000895 Application Date : 2012.01.12
 Registration No. : 1013607690000 Registration Date : 2014.02.04
 Unex. Pub. No. : 1020120030139 Unex. Pub. Date : 2012.03.27
 Agent : Sohn, Chang Kyu Inventor : SNYMAN, Lukas, Willem

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Registered [4] LAYERED DIELECTRIC ON SILICON CARBIDE SEMICONDUCTOR STRUCTURES(실리콘 카바이드 반도체 구조 상의 층상 유전체)

IPC: H01L 29/78 Applicant : CRFF INC

- Detail Information
- Last Issued Pub. Doc.

All Search List

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Application No.

● 10-2014-7027472

- 10-2014-7027309
- 10-2012-7000895
- 10-2001-7002565
- 10-2013-7020199
- 10-2010-7023218
- 10-2011-0111831
- 10-2007-0001695
- 10-2014-7029075
- 10-2014-7001286
- 10-2013-7006498
- 10-2004-7017791
- 10-2005-7022858
- 10-2010-0031401
- 10-2014-7031584
- 10-2009-7007923
- 10-2015-7020111
- 10-2011-7021745
- 10-2011-7029040
- 10-2012-7000884
- 10-2013-0075904
- 10-2001-7010655
- 10-2011-0111825
- 10-2013-0116151
- 10-2014-7018270
- 10-2013-7023098
- 10-2005-7022449
- 10-2005-7022860
- 10-2000-0060223
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STRUCTURES AND METHODS FOR HIGH EFFICIENCY COMPOUND SEMICONDUCTOR SOLAR CELLS

고효율 화합물 반도체 태양 전지를 위한 구조 및 방법

Details Unexam. Full Text Administrative

Details Biographic Information Legal Status Claim Designated States Prior Art Document(s)

(51) Int. 31/042(2014.01) H01L 31/0735(2012.01)
31/18(2006.01)

(*) CPC

(21) Application No.(Date) 1020147027472 (2014.09.29)

(71) Applicant Solexel, Inc.

Translation submission Date (2014.09.29)

(11) Registration No.(Date)

(65) Unex. Pub. No.(Date) 1020140138817 (2014.12.04) [Full-doc Down](#)

(11) Publication No.(Date)

(86) Int'l Application No.(Date) PCT/US2013/028468(2013.02.28)

(87) Int'l Unex. Pub. No.(Date) WO 2013/130914(2013.09.06)

(30) Priority info. 미국(US) | 61/605,186 | 2012.02.29
(Country / No. / Date)

Legal Status Unexamined

Final Status of Examination Proceeding

Trial Info

Kind/Right of Org. Application international Application /

Right of Org. Application No. (Date)

Related Application No.

Request for an examination (Date) N

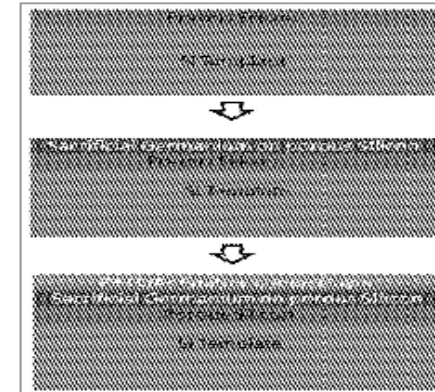
Number of examination claims 13

Abstract (Machine Translation)

The invention provides the method for the growth of the crystallization compound semiconductor material of the relatively thin layer and separation and the structure thereof including the III-V device layer which is not restricted to the GaAs on the crystalline silicon template wafer. Disclosed is the structure of the solar cell based on the crystallization compound semiconductor material and a manufacturing method thereof. And

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- 10-2012-7000895
- 10-2001-7002565
- 10-2013-7020199
- 10-2010-7023218
- 10-2011-0111831
- 10-2007-0001695
- 10-2014-7029075
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- 10-2012-7000884
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- 10-2011-0111825
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- 10-2014-7018270
- 10-2013-7023098
- 10-2005-7022449
- 10-2005-7022860
- 10-2000-0060223
- 10-2000-7002049

STRUCTURES AND METHODS FOR HIGH EFFICIENCY COMPOUND SEMICONDUCTOR CELLS

고효율 화합물 반도체 태양 전지를 위한 구조 및 방법



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공개특허 10-2014-0188817

(10) 대한민국특허청(KR) (12) 공개특허공보(A)	(11) 공개번호 10-2014-0188817 (43) 공개일자 2014년10월04일
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(61) 국제특허분류(Int. Cl.) H01L 31/049 (2014.01) H01L 31/0728 (2012.01) H01L 31/18 (2006.01)	(71) 출원인 솔텍셀, 인코. 미국 95035-7405 캘리포니아 밀피타스 1530 영씨 카르시 비엘브리드
(21) 출원번호 10-2014-7027472 (22) 출원일자(국제) 2013년02월28일 심사청구일자 없음	(72) 발명자 카프도, 파랑 미국 캘리포니아 84038 팔로 알토 말라게로 에비뉴 588
(85) 번역문제출일자 2014년09월29일 (86) 국제출원번호 PCT/US2013/028488 (87) 국제공개번호 WO 2013/130914 국제공개일자 2013년09월06일	(74) 대리인 특허법인 두한
(80) 우선권주장 61/806,188 2012년02월29일 미국(US)	

전체 청구항 수 : 총 13 항

(64) 발명의 명칭 **고효율 화합물 반도체 태양 전지를 위한 구조 및 방법**

(67) 요약

본 발명은 결정성 규소 템플릿 웨이퍼 위에 얇은 비소(GaAs)에 한정되지 않는 III-V 디바이스 층을 포함하는 상대적으로 얇은 층의 결정성 화합물 반도체 재료의 성장과 분리를 위한 방법 및 구조를 제공한다. 상기 결정성 화합물 반도체 재료에 기초한 태양 전지의 구조 및 제조 방법이 기술된다(Methods and structures are provided for the growth and separation of a relatively thin layer crystalline compound semiconductor material containing III-V device layers, including but not limited to Gallium Arsenide (GaAs), on top of a crystalline silicon template wafer. Solar cell structures and manufacturing methods based on the crystalline compound semiconductor material are described.).

대표도 - 도4

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NOT

eg. ("solar cells" IN TI) **NOT** (solar IN AP)

* - wildcard replace 0 or more characters

eg. photo*

()

eg. (("solar cell" IN TI) **AND** (lapsed IN ST))

OR

eg. (photoelectric IN TI) **OR** ("Solar Cell" IN TI)

TO

eg. (2005-01-04 **TO** 2005-01-12) IN FD

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eg. cell?

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1	2014233699	High-speed on demand microfluidic droplet generation and manipulation	The Regents of the University of California	Kung, Yu-Chun; Chiou, Pei-Yu E.; Wu, Ting-Hsiang S.; Chen, Yue; Teitell, Michael A.	2014-03-13	FILED	<input type="checkbox"/>
	AU-A1:	polymer, a plastic, a glass, quartz, a dielectric material, a semiconductor, silicon , germanium, ceramic, and a metal or metal alloy. [0062] Embodiment					
2	2013251282	Photovoltaic cells with processed surfaces and related applications	MH Solar Co., Ltd.	Sater, Bernard L.	2013-11-01	GRANTED	<input type="checkbox"/>
	AU-B2:	has relied heavily on the availability of low cost scrap-grade semiconductor silicon to manufacture conventional solar cells. It should be noted that					
3	2013251281	Photovoltaic cells with processed surfaces and related applications	MH Solar Co., Ltd.	Sater, Bernard L.	2013-11-01	LAPSED	<input type="checkbox"/>
	AU-A1:	has relied heavily on the availability of low cost scrap-grade semiconductor silicon to manufacture conventional solar cells. It should be noted that					
4	2013216804	High-speed on demand droplet generation and single cell encapsulation driven by induced cavitation	The Regents of the University of California	Chiou, Pei-Yu; Wu, Ting-Hsiang S.; Park, Sung-Yong; Teitell, Michael A.	2013-02-08	FILED	<input type="checkbox"/>
	AU-A1:	polymer, a plastic, a glass, quartz, a dielectric material, a semiconductor, silicon , germanium, ceramic, and a metal or metal alloy. In certain					
5	2013209293	THINNED AND FLEXIBLE SEMICONDUCTOR ELEMENTS ON THREE DIMENSIONAL SURFACES	JOHNSON & JOHNSON VISION CARE INC	Pugh, Randall B.; Riall, James Daniel; Otts, Daniel B.; Toner,	2013-07-23	FILED	<input type="checkbox"/>

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(19) AUSTRALIAN PATENT OFFICE

(11) Application No. **AU 2013251282 B2**

- (54) Title
Photovoltaic cells with processed surfaces and related applications
- (51) International Patent Classification(s)
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