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Summer school

Session 1: easy exercises

Session 2: intermediate exercises
  • combination of search criterias
  • search of chemical compound
  • search in different languages

Session 3: advanced exercises

Session 4: mix of exercises
Search interfaces for today’s session
Exercise

1. Search in the English abstract, patent documents related to:

- Teleportation
- Applicant: google
- CPC: g06f 3/04815
- Group results by families
Solution

**PATENTSCOPE Field Combination**

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**Add another search field**  **Reset search fields**

**Offices**
- All

**Languages**
- English
2. **202131054345** SIMULATOR FOR QUANTUM COMPUTING SYSTEMS

**Int.Class [G06V]**  
**App.No 202131054345**  
**Applicant GULABZ INC.**  
**Inventor PATEL, Noon**

SIMULATOR FOR QUANTUM COMPUTING SYSTEMS Techniques for providing a simulator for quantum computing systems are described. In operation, a gate teleportation circuit for a predetermined number of qubits is obtained, where the gate teleportation circuit is compliant with Measurement Based Quantum Computing model of quantum computing. Thereafter, segmentation of the gate teleportation circuit into multiple sub-circuits is simulated. A gate teleportation operation is then simulated on each of the multiple sub-circuits, where the gate teleportation operation on each of the multiple sub-circuits is simulated based on the at least one qubit of a given sub-circuit and an output of a gate teleportation operation performed on a sub-circuit which is pre-existant to the given sub-circuit. An output of the gate teleportation operation simulated on the last sub-circuit from the multiple sub-circuits is then measured.

3. **20110055727** SYSTEM AND METHOD FOR USING PARTIAL TELEPORTATION OR RELOCATION IN VIRTUAL WORLDS

**Int.Class [G06F 2001]**  
**App.No 12649712**  
**Applicant International Business Machines Corporation**  
**Inventor**

The processing burden of rendering incident to a full teleportation operation in a virtual universe is avoided while contact with particular teleportation destinations is promoted by provision of a partial teleportation facility such as a virtual kiosk as an object within a virtual universe (which may be sponsored or owned by users wishing to promote particular teleportation destinations) at which an avatar can view previously rendered images of portions of one or more teleportation destinations. Limited interaction and simulated travel within the teleportation destination can be achieved through image manipulation and updates rather
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Refine Options

- Single Family Member
- Include NPL
EN_AB (teleportation)

2 results
Offices all  Languages en  Stemming true  Include NPL false

Single Family Member true

CPC=G06F 3/04 (2016)  APPLICANT_NAME=G00GL LLC

Sort: Relevance  Per page: 100  View: All/Image

1. **2017016815** TELEPORTATION IN AN AUGMENTED AND/OR VIRTUAL REALITY ENVIRONMENT

   Int.Class G06F 3/01  Appl.No 153898191  Applicant GOOGLE INC.  Inventor Adam Glazier

   In a system for teleporting and scaling in a virtual reality environment, a user may teleport from a first virtual location, being experienced at a first scale, to a second virtual location, to be experienced at a second scale. The user may select the new, second virtual location and the new, second scale with a single external input via a handheld electronic device so that, upon release of a triggering action of the electronic device, the user may teleport to the newly selected second virtual location at the newly selected scale.

2. **2017033888** TECHNIQUES TO CHANGE LOCATION OF OBJECTS IN A VIRTUAL/AUGMENTED REALITY SYSTEM

   Int.Class G06F 3/01  Appl.No 15935895  Applicant GOOGLE INC.  Inventor Robbie Tilton

   A system and method of operating an audio visual system generating an immersive virtual experience may include generating, by a head-mounted audio visual device, a virtual world immersive experience within a virtual space while physically moving within a physical space, displaying, by the head-mounted audio visual device within the virtual space, a visual target marker indicating a target location in the physical space, receiving, by the head-mounted audio visual device, a teleport control signal, and moving a virtual location of the head-mounted audio visual device within the virtual space from a first virtual location to a second virtual location in response to receiving the teleport control signal.
Exercise

2. Search for documents having:

- Applicant: Huawei
- Inventors of German nationality
PATENTSCOPE Advanced Search

IADC:DE AND PA: Huawei

Query Assistant

Expand with related terms

Offices
All

Languages
English

Stemming

Single Family Member
Include NPL

Search
### PATENTSCOPE Advanced Search

- **Please enter a valid field** *(or use UP/DOWN keys, and TAB or ENTER to select)*

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### Office
- **All**

### Languages
- **English**

- Stemming
- Single Family Member
- Include NPL
1. WO/2021/078389 POLAR CODING FOR PARALLEL CHANNELS WITH DIFFERENT CHANNEL PARAMETERS SUCH AS DIFFERENT SNR

The present disclosure relates to an apparatus for encoding an input sequence of N bits $u = [u_0, ..., u_{N-1}]$ into a codeword $c$ of length $N$, wherein the codeword $c$ is transmitted over a communication channel comprising $K$ parallel channels, wherein each parallel channel is characterized by a channel parameter $p_i$, $i = 1, ..., K$, wherein the apparatus comprises a processor configured to divide the input sequence $u$ into $K$ sub-sequences $u_i$, $i = 1, ..., K$, on the basis of the channel parameters $p_i$, $i = 1, ..., K$, apply a polar coding to each of the $K$ sub-sequences $u_i$ in order to obtain $K$ polarized sub-sequences $c_i$, and apply a polarizing transform $F$ to the polarized sub-sequences $c_i$ in order to obtain the codeword $c$.

2. WO/2020/253830 CHROMA SAMPLE WEIGHT DERIVATION FOR GEOMETRIC PARTITION MODE

A method of coding implemented by a decoding device, comprising obtaining a value of a parameter for a current block, the value of the parameter indicating a partition mode for the current block; obtaining a first prediction value for the current block; generating a second prediction value for a chroma sample in the current block according to the first prediction mode; obtaining a combined value of prediction samples by combining the first prediction value and the second prediction value.

3. WO/2020/253822 ADAPTIVE FILTER STRENGTH SIGNALING FOR GEOMETRIC PARTITION MODE

A method of coding implemented by a decoding device, for adaptively performing a blending operation around a separation line dividing a current block into at least two sub-blocks, comprising: obtaining a first prediction mode for a first sub-block, obtaining a first prediction value for a sample in the current block according to the first prediction mode; and applying the first prediction value to the sample in the current block.
Exercise

3. About IPC searches, what is the difference when searching 
G01N 33/543

• in the Simple search
• in the Advanced search using the field IC_EX
PATENTSCOPE Simple Search

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PCT publication 34/2023 (24.08.2023) is now available here. The next PCT publication 35/2023 is scheduled for 31.08.2023. More

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Field
Int. Classification(IPC)

Search terms...
G01N33/543

Offices
All

Query Examples
1. **20230264200** AN AUTOMATED QUANTITATIVE ASSAY DEVICE AND A METHOD OF PERFORMING THE QUANTITATIVE ASSAYS

   Int.Class. BD11 3/00   Appl.No. 18001813   Applicant LANARKSHIRE GLOBAL LLC   Inventor DINO ROTONDO

   The present invention relates to the field of assay devices and methods for performing assays, such as immunostains. The system comprises a means to receive the target sample collected from a subject; a means to measure the target analyte possibly present in said target sample; and a process of measuring the target analytes in real time manner. The target analyte includes but is not limited to any biological analyte, microbial entity like those of viral or bacterial sources such as SARS-CoV-2. The invention thus primarily relates to measuring analytes of interest to detect and treat related indications, such as COVID-19.

2. **2023026307** BIOINFORMATICS

   Int.Class. BD11 3/02   Appl.No. 17923526   Applicant University of Helsinki   Inventor Vincenzo Cerullo

   The invention concerns a device for tumour antigen identification and a method for tumour antigen identification; a tumour antigen identified following use of said device and/or method; a pharmaceutical composition comprising said tumour antigen; a method of treating cancer using said device and/or said method; a method of stratifying patients for cancer treatment using said device and/or said method; a treatment regimen involving stratifying patients for cancer treatment using said device and/or method and then administering a cancer therapeutic; and a tumour antigen identified using said device and/or said method for use as a cancer vaccine or immunogenic agent or cancer therapy.

3. **2023026312** DIAGNOSTIC IMMUNOASSAY STRIPS, DEVICES AND METHODS TO DETECT AND VALIDATE BIOLOGICAL SAMPLE

   Int.Class. BD11 3/02   Appl.No. 18012814   Applicant Varun AKUR VENKATESAN   Inventor Varun AKUR VENKATESAN

   An immunostain device that authenticates a biological sample while performing an assay for an analyte or analytes of interest is provided. The device includes a sample receiving zone to receive the biological sample; a validation zone placed before or after the sample receiving zone to validate the biological sample; a conjugate zone having labels conjugated with primary antibodies or reagents specific to a plurality of characteristic markers of the biological sample and the analytes of interest; and a reaction zone having secondary antibodies or antigens or reagents specific to the primary antibodies or reagents that bind with the plurality of characteristic markers of the biological sample and analytes of interest.
PATENTSCOPE Advanced Search

IC_EX (G01N33/543)

Expand with related terms

Offices
All

Languages
English

Stemming
Single Family Member
Include NPL

WIPO FOR OFFICIAL USE ONLY
1. 2018510128 広いダイナミックレンジを有するアッセイ

Int.Class G01N33/543 ②  Appl.No 2018500132  Applicant ポポ・ラボラトリーズ  Inventor ダウエル、パリー・エル

明細書において「プロトン現象」または「フック効果」を回避するために有用であり、厳密に測定可能な被検物濃度の範囲を拡大するアッセイおよびキットを提供する。

2. 2012829844 シグナル増幅マイクロフェア、半ステップ及びマルチステップ分析増幅手段におけるそれらの使用並びにそれらの製造方法

Int.Class G01N33/543 ②  Appl.No 2012814831  Applicant スーパーノヴァ・ダイアグノスティクス、インコーポレイテッド  Inventor マク、ウィング・チェニング

本発明は、タンパク質シグナル増幅体分子、またはシグナル増幅体分子と結合した拡散タンパク質を有するマイクロフェアに関し、初期シグナル増幅体分子は検出可能なシグナルを生成するために活性化性である一方、複合タンパク質との結合を維持する。さらにマイクロフェアの製造方法は、タンパク質分子を溶液中のマトリックス形成体と混合するステップと、混合物を遠心分離して塩化スナフタフを除去するステップと、塩化スナフタフを除去するステップと、タンパク質分子のマイクロフェアを残してマトリックス形成体を除去するステップとを含む。さらに増幅サイクルを繰り返すマイクロフェアを用いた生物検定法を示唆する。

【選択図】図1

3. WD2017138497 被検物質の検出方法および被検物質の検出用試薬キット

Int.Class G01N33/543 ②  Appl.No 2017554615  Applicant シスメックス株式会社  Inventor 源也、敬弘

被検物質、標識体、標識体、第1陽極を接触させ、免疫複合体を第1陽極上に形成する工程と、標識体と第1陽極との結合を解離することにより免疫複合体を解離させ、標識体と結合した第2陽極と免疫複合体を触離させ、免疫複合体を第2陽極上に形成する工程と、第2陽極上の馬蹄体に含まれる標識を測定し、被検物質を検出する工程を含む被検物質の検出方法を提供する。この方法で検出される被検物質の検出結果は、特にアミロイドβまたはセプタタンパク質である。
Exercise

4. Search in the **English abstract** for documents:
   
   • related to **foldable solar panels**
   • application date: from **2020 to 2023**
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1. **214477508**  
**ULTRATHIN FOLDABLE SOLAR PANEL**

The utility model provides an ultrathin *foldable solar panel*. The ultrathin *foldable solar panel* comprises a positioning hole, a mark point, an FPC backboard, a solar patch area and a via hole. The ultrathin *foldable solar panel* designed by the utility model has the characteristics of high internal wiring density, light weight, thin thickness, bendability and convenience in carrying and installation.

2. **10202200686741**  
**PORTABLE FOLDABLE SOLAR PANEL SYSTEM**

Disclosed is a portable *foldable solar panel* system. The present invention relates to a portable *foldable solar panel* system. More specifically, the present invention operates 2 to 8 solar panels in a foldable manner by a hinge and is provided with each charging controller corresponding to a plurality of solar panels. The *foldable solar panel* connected to one charging device can be held and moved with a portable handle, so it is easy to be installed in a veranda of an apartment or house and installed outside. COPYRIGHT KIPO 2023
a clamped mode. According to the solar power bank, by arranging the **foldable solar panel**, the **foldable solar panel** can be unfolded during charging and is installed at the top of the power bank body through the supporting column, the connecting end and the transmission column, the surface area of the solar panel can be increased, the power generation efficiency is improved, and meanwhile after charging, the solar panel can be folded. The **foldable solar panel**, the supporting column and the transmission clamping block can be stored in the storage box, the overall size of the power bank can be reduced, and the power bank is convenient to carry.

---

11. **213602599** FOLDABLE SOLAR PHOTOVOLTAIC PANEL FOR AUTOMOBILE

Int.Class: H02S 20/00  Applicant: DONG YANLI  Inventor: DONG YANLI

The utility model discloses a **foldable solar photovoltaic panel** for an automobile, which belongs to the field of photovoltaic technology and comprises a storage bin, an electric push rod is fixedly mounted at the bottom end of the storage bin, a sliding rail is fixedly mounted on the inner wall of one side of the storage bin, a sliding block is embedded on the sliding rail, a supporting plate is fixed on the other side of the sliding block, and an electric turntable is fixedly mounted above the supporting plate. A supporting rod is fixedly installed above the electric turntable, and a spring telescopic rod is rotationally arranged on one side of the supporting rod through a rotating shaft. According to the **foldable solar photovoltaic panel**, storage bin, the sliding blocks slide in the sliding rail to achieve a guiding effect, so that the supporting plates cannot deviate during movement, the supporting plates can move under the action of the springs to achieve a damping effect, and the supporting plates are prevented from being damaged when a **foldable solar photovoltaic panel** is used; the **foldable solar photovoltaic panel** is prevented from deviating, and the supporting plates are prevented from being damaged.

---

12. **212269900** SOLAR FLOWER BOX CONVENIENT FOR STORING SOLAR PANEL

Int.Class: A01G 8/02  Applicant: JIA XING JINGXIN GARDEN CONSTRUCTION CO., LTD.  Inventor: JIN HUAMIN

The solar flower box comprises a flower box body, the flower box body comprises a planting part and a storage part, the planting part is located at the upper end of the storage part, a horizontal partition plate is arranged between the planting part and the storage part, and the storage part is located in the middle of the planting part. The storage part comprises a bottom plate located under the horizontal partition plate, a left supporting plate, a right supporting plate and waterproof curtains arranged on the front side and the rear side between the bottom plate and the horizontal partition plate, and the left supporting plate and the right supporting plate are vertically arranged on the left side and the right side between the bottom plate and the horizontal partition plate respectively; the upper end and the lower end of the waterproof curtain are connected to the bottom plate and the horizontal partition plate in a sliding mode. **Foldable solar panel** sets are connected to the front end of the inner wall of the left supporting plate and the rear end of the inner wall of the right supporting plate in a rotating mode, and sliding assemblies facilitating folding and unfolding of the **foldable solar panel** sets are arranged at the lower ends of the **foldable solar panel** sets.
Exercise

5. Search in the **English abstract** for documents:

- related to **foldable solar panels** or **foldable photovoltaic panels**
- excluding patents related to **wind energy** and **wind turbine**
- application date: from **2020 to 2023**
EN_AB ((("solar panels"^-3 OR "photovoltaic panels"^-3) NEAR foldable) AND NOT (("wind energy"^-3 OR "wind turbines"^-3)) AND AD [2020 TO 2023]

1. **114070911** FOLDABLE SOLAR PHOTOVOLTAIC PANEL WITH PROTECTION FUNCTION

   Int.Class H02S 30/20   Applicant LEI DONGDI   Inventor LEI DONGDI

   The invention relates to a solar photovoltaic panel, in particular to a foldable solar photovoltaic panel with a protection function. The foldable solar photovoltaic panel, which has the protection function and is adjustable in angle and capable of fully receiving sunlight is provided. The foldable solar photovoltaic panel with the protection function comprises two sliding rail blocks, a foldable photovoltaic panel and connecting wheels; the two sliding rail blocks are symmetrically arranged front and back, four connecting wheels are movably arranged in each sliding rail block, a connecting shaft is rotatably arranged on each connecting wheel, the foldable photovoltaic panel is connected among the eight connecting shafts, and the folding photovoltaic panel is formed by hinging and combining four photovoltaic panels. People start a motor to work: the motor drives a third connecting block and the sliding rail blocks to rotate, then the folding photovoltaic panel is driven to rotate, the folding photovoltaic panel can be rotated to a proper angle, and sunlight received by the folding photovoltaic panel is more sufficient.

2. **112867083** FOLDABLE SOLAR PHOTOVOLTAIC PANEL WITH PROTECTION MECHANISM

   Int.Class H02S 40/00   Applicant WENZHOU QIFANG NEW ENERGY CO., LTD.   Inventor XIAO YUANJUAN

   The invention relates to a foldable solar photovoltaic panel with a protection mechanism. The foldable solar photovoltaic panel comprises support frame plates, a first transverse connecting plate, a fourth transverse connecting plate and a solar photovoltaic panel assembly; the first transverse connecting plate and the fourth transverse connecting plate are arranged at the two ends of the support plate, and the solar photovoltaic panel assembly is movably arranged between the support frame plates. According to the foldable solar photovoltaic panel with the protection mechanism of the invention, the solar photovoltaic panel assembly is driven by a driving mechanism to achieve a contraction function, the contact area of the solar photovoltaic panel assembly and the environment is reduced through the folding contraction of the solar photovoltaic panel assembly, and therefore damage to the solar photovoltaic panel assembly due to impact is reduced. Meanwhile, dust will not be deposited on the solar photovoltaic panel assembly. The solar photovoltaic panel assembly can be used for a longer time, and the solar photovoltaic panel assembly can be ensured to have good condensation performance, to achieve a better condensation effect.
Search in the English abstract for documents:

- related to foldable solar panels or foldable photovoltaic panels
- excluding patents related to wind energy and wind turbine
- application date: from 2020 to 2023

AD:
AD: [2020 TO 2023]

EN_AB:

foldable solar panels or foldable photovoltaic panels wind energy and wind turbine

(foldable solar panels or foldable photovoltaic panels) (wind energy and wind turbine)

(foldable solar panels OR foldable photovoltaic panels) (wind energy OR wind turbine)

(foldable solar panels OR foldable photovoltaic panels) ANDNOT (wind energy OR wind turbine)

((foldable solar panels OR foldable photovoltaic panels) ANDNOT (wind energy OR wind turbine)))
((foldable solar panels OR foldable photovoltaic panels) ANDNOT (wind energy OR wind turbine))

**AD:** [2020 TO 2023]

((foldable solar panels OR foldable photovoltaic panels) ANDNOT (wind energy OR wind turbine)) **AND**

**AD:** [2020 TO 2023]

**EN_AB:**((foldable solar panels OR foldable photovoltaic panels) ANDNOT (wind energy OR wind turbine)) **AND** **AD:** [2020 TO 2023]

**EN_AB:**(("solar panels"~3 OR "photovoltaic panels"~3) **NEAR** foldable) ANDNOT ("wind energy"~3 OR "wind turbines"~3)) **AND** **AD:**[2020 TO 2023]
6. What is the title of WO/2012/055353?
Using PATENTSCOPE you can search 112 million patent documents including 4.7 million published international patent applications (PCT). Detailed coverage information

PCT publication 34/2023 (24.08.2023) is now available here. The next PCT publication 35/2023 is scheduled for 31.08.2023. More

Check out the latest PATENTSCOPE news and features

PATENTSCOPE Live Chat

<table>
<thead>
<tr>
<th>Field</th>
<th>Search terms...</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID/Number</td>
<td>wo/2012/055353</td>
</tr>
</tbody>
</table>

Offices

All
A toothpaste having a squeeze-assist device, comprising a toothpaste housing [1], characterized in that the outer surface of the toothpaste housing [1] is sleeved with a squeezing bar [2] movable along the length of the toothpaste housing to squeeze the toothpaste. The squeezing bar [2] is a frame structure having a top-to-bottom through slot [3] arranged at the lateral center thereof, and a squeeze-positioning device is arranged between the squeezing bar [2] and the surface of the toothpaste housing [1] to fix the squeezing bar [2] into the arrived position.

The toothpaste having a squeeze-assist device of the present invention allows easy and complete dispensing of toothpaste in the toothpaste housing, thus effectively reducing toothpaste waste and pollution to the environment caused thereby. It is also easy to use.
Exercise

7. Search for documents related to

- Electric car
- Chinese, English, French, German, Japanese
Solution
Search terms: "electric car"

Expansion Mode:
- Automatic
- Supervised

The language of your query

Use the Supervised mode to select the technical domains, the relevant variants, the languages to translate your query to and the fields to search by.

Precision level
- High

Influences the precision of the suggested variants.
- Highest level considers only the most relevant ones (less suggested variants)
- Lowest level considers the less relevant as well (more suggested variants)
1. WO/2014/006760 ELECTRIC VEHICLE CHARGING DEVICE AND ELECTRIC VEHICLE CHARGING SYSTEM

Int.Class H02J 7/00  Applicant FULLTIME SYSTEM Co., Ltd.  Inventor HARA Shuhei

Provided are an electric vehicle charging device and an electric vehicle charging system for equitably and efficiently charging multiple electric vehicles even at a station with a limited power supply capability. This electric vehicle charging system comprises: an electric vehicle charging device (10) for charging electric vehicles (EV), that is, vehicles such as electric cars that operate by electric energy; a management server (20) for managing records of charging performed by the electric vehicle charging device (10); a user terminal (30) that is operated by users of the electric vehicles (EV); a provider terminal (40) that is operated by a managing provider that manages the entire electric vehicle charging system; and a network (50) such as the Internet or a dedicated line for connecting the respective devices (10 through 40) with one another.

2. WO/2012/038575 BUS STOP SHELTER COMPRISING MEANS FOR RECHARGING ELECTRIC VEHICLES, INTERNET SERVICES AND DYNAMIC ADVERTISING

Int.Class E04H 15/18  Applicant ROJO HUERTA, Gerardo  Inventor ROJO HUERTA, Gerardo

The invention relates to a bus stop shelter as a waiting place and protection for passengers, at the same time comprising means for recharging electric vehicles, internet services and dynamic advertising, all in a single piece of street furniture with multiservice functionality, as a place for waiting for buses and a site for recharging electric car batteries, with bi-directional electrical energy transfer between the electrical network and the batteries of the electric vehicles, also called a "smart grid".
Full Query

EN_AB ("electric car" OR "electric vehicle" OR "electric motor" OR "electric auto") OR FR_AB ("véhicule électrique" OR "voiture électrique" OR "auto électrique") OR DE_AB ("Elektrofahrzeug" OR "Elektroauto" OR "Elektromobil") OR ES_AB ("vehículo eléctrico" OR "coche eléctrico" OR "vagon eléctrico") OR PT_AB ("veículo elétrico" OR "automóvel elétrico") OR IT_AB ("elettrico" OR "elettrico veicolo") OR NL_AB ("elektrisch" OR "elektrische") OR NO_AB ("elektrisk" OR "elektrisk" OR "elektriske") OR PL_AB ("elektryczny" OR "samochod" OR "elektryczny") OR RU_AB ("электромобиль" OR "электротранспорт") OR "Electro mobility" OR "Elektrische" OR "Elektrische" OR "Elektrisch" OR "Elektrische" OR "Elektroauto" OR "Elektromobil"

Sort: Relevance ▼ Per page: 100 ▼ View: All+Image ▼ 1/7,543 ▼ Download ▼ Machine translation ▼

1. WO/2014/008769 ELECTRIC VEHICLE CHARGING DEVICE AND ELECTRIC VEHICLE CHARGING SYSTEM WO - 09 01 2014
1. WO/2014/006760 ELECTRIC VEHICLE CHARGING DEVICE AND ELECTRIC VEHICLE CHARGING SYSTEM

Provided are an electric vehicle charging device and an electric vehicle charging system for equitably and efficiently charging multiple electric vehicles even at a station with a limited power supply capability. This electric vehicle charging system comprises: an electric vehicle charging device [10] for charging electric vehicles [EV], that is, vehicles such as electric cars that operate by electric energy, a management server [20] for managing records of charging performed by the electric vehicle charging device [10], user terminal [30] that is operated by users of the electric vehicles [EV], a provider terminal [40] that is operated by a managing provider that manages the entire electric vehicle charging system, and a network [60] such as the Internet or a dedicated line for connecting the respective devices [10 through 40] with one another.

2. WO/2018/193081 METHOD FOR OPERATING A CHARGING STATION

The invention relates to a method for operating a charging station for charging multiple electric vehicles, in particular electric cars, wherein the charging station is connected to an electrical supply system at a system access point in order to be supplied with electric power from the electrical supply system by that means, comprising the steps of drawing electric power from the electrical supply system and charging one or more electric vehicles using the electric power drawn from the electrical supply system, the charging station being controlled such that the electrical supply system is provided with electrical backup.
1. WO/2014/006780 ELECTRIC VEHICLE CHARGING DEVICE AND ELECTRIC VEHICLE CHARGING SYSTEM

Provided are an electric vehicle charging device and an electric vehicle charging system for equitably and efficiently charging multiple electric vehicles even at a station with a limited power supply capability. This electric vehicle charging system comprises: an electric vehicle charging device [10] for charging electric vehicles [EV], that is, vehicles such as electric cars that operate by electric energy; a management server [20] for managing records of charging performed by the electric vehicle charging device [10]; user terminal [30] that is operated by users of the electric vehicles [EV]; a provider terminal [40] that is operated by a managing provider that manages the entire electric vehicle charging system, and a network [60] such as the Internet or a dedicated line for connecting the respective devices [10 through 40] with one another.

2. WO/2018/193081 METHOD FOR OPERATING A CHARGING STATION

The invention relates to a method for operating a charging station for charging multiple electric vehicles, in particular electric cars, wherein the charging station is connected to an electrical supply system at a system access point in order to be supplied with electric power from the electrical supply system by that means, comprising the steps of drawing electric power from the electrical supply system and charging one or more electric vehicles using the electric power drawn from the electrical supply system, the charging station being controlled such that the electrical supply system is provided with electrical backup.
Exercises

8. Why is the query below incorrect?

ZH_AB: (机器人 OR 机械手 OR 机器人车 OR OR 水下机器 OR 先人)
1. **212331019** VEHICLE SET WITH AUTOMATICALLY REPLACEABLE BATTERY  

Int.Class: B62J 6/00  
Appl.No: 202020022231.X  
Applicant: TIANJIN KENING ZHOXIANG OPTOELECTRONICS TECHNOLOGY CO., LTD.  
Inventor: LIANG JING  

The utility model provides a battery automatically-replaceable vehicle group, which belongs to the technical field of intelligent robots and comprises a working robot and an auxiliary robot, and the working robot comprises a working robot vehicle body, a working robot manipulator and a battery box mechanism. The auxiliary robot comprises an auxiliary robot body, an auxiliary robot manipulator, a battery transportation box, a battery clamping frame and a visual sensor, the working robot manipulator and the battery box mechanism are fixed to the upper surface of the working robot body, and the auxiliary robot manipulator and the battery transportation box are fixed to the upper surface of the auxiliary robot. A replaceable battery is placed in the battery transportation box, the battery clamping frame is installed at the end, away from the auxiliary robot body, of the auxiliary robot manipulator, and the visual sensor is fixed to an arm of the auxiliary robot manipulator. According to the utility model, the effective working time of the working robot is prolonged, and the working efficiency is improved, so that the working robot can be suitable for working in a large-range field.

![Image of a working robot and an auxiliary robot with replaceable battery](image)

2. **111923010** AUTOMATIC BATTERY REPLACING VEHICLE SET  

Int.Class: B25J 5/00  
Appl.No: 202010981460.8  
Applicant: TIANJIN KERNEL ZHIWANG OPTOELECTRONICS TECHNOLOGY CO., LTD.  
Inventor: LIANG JING  

The invention provides an automatic battery replacing vehicle set, and belongs to the technical field of intelligent robots. The automatic battery replacing vehicle set comprises a working robot and an auxiliary robot, wherein the working robot comprises a working robot vehicle body, a working robot manipulator, a battery transportation box, a battery clamping frame and a visual sensor, the working robot manipulator and the battery box mechanism are fixed to the upper surface of the working robot body, the auxiliary robot manipulator and the battery transportation box are fixed to the upper surface of the auxiliary robot, a replaceable battery is placed in the battery transportation box, the battery clamping frame is installed at the end, away from the auxiliary robot vehicle body, of the auxiliary robot manipulator, and the visual sensor is fixed to an arm of the auxiliary robot manipulator. According to the automatic battery replacing vehicle set, the effective working time of the working robot is prolonged, the working efficiency is improved, and the automatic battery replacing vehicle set can be suitable for working in a large-range field.

![Image of a working robot with automatic battery replacing](image)

3. **205498066** BE USED FOR SIEVING ROBOT OF FRUIT SIZE  

Int.Class: B07B 13/04  
Appl.No: 201820327939.9  
Applicant: WUHAN UNIVERSITY OF SCIENCE AND TECHNOLOGY  
Inventor: Liu Ze  

The utility model discloses a be used for sieving robot of fruit size, including a car wheeled robot body, the middle part is equipped with a hollow pillar on the car wheeled robot body, is equipped with first arm on the hollow pillar right side on the car wheeled robot body, and the head of first arm is equipped with first manipulator, be equipped with the second arm on the car wheeled robot body on the left of hollow pillar, the head end of second arm is equipped with the second manipulator, an inside control system, the 2nd control system and the 3rd control system of still being equipped with of car wheeled robot body, first arm and hollow pillar between be equipped with first accumulator on car wheeled robot body, be equipped with the second accumulator between second arm and the hollow pillar on car wheeled robot body. The utility model solves the problem of the fruit size, the robot size and the working efficiency of fruit sieving. The working robot is suitable for large-scale fruit sieving, and can be used for picking and depositing果实.
Exercises

9. Search for documents having in the title:

- Automatic fork
- Publication date: 2021, 2022, 2023
- Chinese and Korean national collections
<table>
<thead>
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<th>Field</th>
<th>Value</th>
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<tr>
<td>English Title</td>
<td>automatic fork</td>
</tr>
<tr>
<td>Publication Date</td>
<td>[2021 TO 2023]</td>
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<td>Publication Date</td>
<td></td>
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<td>English Title</td>
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<td>Is Empty: N/A</td>
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<tr>
<td>Licensing availability</td>
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Offices: China, Republic of Korea
1. **213922888 AUTOMATIC FORKING CONVEYOR**

   Int.Classe B65G 15/42  Applicant JIANGSU JICUI HATCHING TECHNOLOGY INDUSTRY DEVELOPMENT CO., LTD.  Inventor LI NING

   The utility model belongs to the technical field of carrying equipment, and particularly relates to an automatic material forking conveyor, which comprises a lifting mechanism, a conveying mechanism and a stirring mechanism. The lifting mechanism comprises two synchronous belts which are symmetrically mounted, material forks are mounted on the synchronous belts, and the lifting mechanism is used for lifting materials forked by the material forks to the highest position; the material fork is mounted on the surface of the synchronous belt and is used for forking materials, the material shifting mechanism is mounted above the lifting mechanism and is used for shifting the materials lifted by the lifting mechanism to the discharge hole; the driving mechanism drives the lifting mechanism and the material stirring mechanism to rotate, and the problems that in the prior art, when vinasse is dug and lifted manually, the efficiency is low, the labor intensity is large, and the working space is crowded are solved.

2. **218190831 SEMI-AUTOMATIC FORK TRUCK**

   Int.Classe B66F 8/07  Applicant HUBEI YIHAI MECHANICAL TECHNOLOGY CO., LTD.  Inventor HUANG ZHIHAO

   The utility model discloses a semi-automatic forklift truck in the related technical field of fork lift trucks, which comprises a fork lift truck main case and a lifting rack, the lifting rack is fixedly mounted in front of the fork lift truck main case, and a safety protection net is fixedly mounted on one side, close to the fork lift truck main case, of the lifting rack. A lifting seat is slidably connected to the inner side of the lifting rack, basic forking frames are fixedly mounted on the two sides of the lower portion of the lifting frame, and the basic forking frames are sleeved with telescopic forking frames. The stacker is provided with the basic forking frame and the telescopic forking frame, the telescopic forking frame can stretch out and draw back along the basic forking frame, cargoes can be directly placed in the carriage, manual carrying is not needed, labor intensity is effectively reduced, the safety protection net is fixedly arranged on the back face of the lifting frame, and even if the cargo is scattered in the cargo lifting process, the cargoes can be conveniently lifted. And no harm is caused to workers, so that the safety is greatly improved.

3. **214288078 AUTOMATIC FORKING FEEDING DEVICE**

   Int.Classe B66G 47/72  Applicant WUXI SATISFIED PACKING MACHINERY CO., LTD.  Inventor ZHANG XIAOJIN
10. How to make sure that the search is in the field we are interested in?
<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
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<tr>
<td>Publication Date</td>
<td>[2021 TO 2023]</td>
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<tr>
<td>International Class</td>
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<td>English Title</td>
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<td>All Classifications</td>
<td>N/A</td>
</tr>
<tr>
<td>Licensing availability</td>
<td></td>
</tr>
</tbody>
</table>
1. **217066000 AUTOMATIC TELESCOPIC CLOTHES AIRING FORK**

   **Int.Class:** A47F 25/08
   **Appl.No:** 20220074551.8
   **Applicant:** WUXI INSTITUTE OF TECHNOLOGY
   **Inventor:** WANG DEYAN

   The utility model discloses an automatic telescopic clothes airing fork, and particularly relates to the technical field of home furnishing. The automatic telescopic clothes airing fork comprises an outer cylinder, a guide rod is movably inserted in the middle of the top end of the outer cylinder, a fork head is arranged at the top end of the guide rod, a telescopic assembly is arranged in the outer cylinder, a connecting assembly is arranged between the guide rod and the fork head, and a sealing cover is clamped at the bottom end of the outer cylinder in a threaded mode; the telescopic assembly comprises a tooth cylinder and a driving column, the tooth cylinder is clamped in the outer cylinder in a sliding mode, the top end of the tooth cylinder and the bottom end of the guide rod are fixedly installed, the driving column is clamped in the outer cylinder in a rotating mode, the tooth cylinder is movably connected to the outer side of the driving column in a sleeved mode, and a V-shaped groove is formed in the outer wall of the driving column. The telescopic assembly is arranged to be matched with the motor for use, the guide rod is driven to automatically ascend and descend in the middle of the top end of the outer barrel, then the fork head is driven to automatically ascend and descend to adjust the height, clothes airing at different heights can be conveniently conducted through the clothes airing fork, and the use effect of the whole clothes airing fork is improved.

2. **213820896 RECHARGEABLE ELECTRIC TELESCOPIC CLOTHES AIRING FORK**

   **Int.Class:** A47F 25/02
   **Appl.No:** 202022084774.7
   **Applicant:** NANJING VOCATIONAL INSTITUTE OF MECHATRONIC TECHNOLOGY
   **Inventor:** MAO JUNFENG

   The utility model relates to the field of daily necessities, in particular to a rechargeable electric telescopic clothes airing fork. Mainly comprises a rod body, a fork head is arranged at a port of the rod body, the fork head is a clamping assembly, a telescopic piece is arranged in the rod body, the telescopic piece is connected to a battery, the battery is arranged at the bottom of the rod body and connected with a USB charging port, the USB charging port is formed in the side edge of the rod body, and a base is arranged at the bottom of the rod body. According to the clothes airing fork, the universality of the clothes airing fork can be met by adopting the electric telescopic device, meanwhile, the fork head adopts an automatic clamping and 360-degree rotating mode, clothes can be fixed and clamped under various transverse conditions, the situation that the clothes fall off in the collecting process is prevented, and various requirements of consumers are met.
<table>
<thead>
<tr>
<th>Scheme</th>
<th>RCL</th>
<th>Compilation</th>
<th>Catchwords</th>
<th>Search</th>
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<tbody>
<tr>
<td>A4T 19/15</td>
<td></td>
<td></td>
<td>• Tea infusers, e.g. infusing bags, egg-shaped infusers (for using only once, e.g. made of paper, B65D, e.g. disposable containers or packages B65D 85/60) [2006.01]</td>
<td></td>
</tr>
<tr>
<td>A4T 19/18</td>
<td></td>
<td></td>
<td>• Containers for delivering jam, mustard, or the like (soap dispensers A47K 5/06) [2006.01]</td>
<td></td>
</tr>
<tr>
<td>A4T 19/20</td>
<td></td>
<td></td>
<td>• Tea or coffee pot cosytes [2006.01]</td>
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</tr>
<tr>
<td>A4T 19/22</td>
<td></td>
<td></td>
<td>• Drinking vessels or saucers used for table service (glass or drinking-vessel underlays A47G 23/03) [2006.01]</td>
<td></td>
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<tr>
<td>A4T 19/23</td>
<td></td>
<td></td>
<td>• of stackable type [2006.01]</td>
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<tr>
<td>A4T 19/24</td>
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<td></td>
<td>• Shakers for salt, pepper, sugar, or the like [2006.01]</td>
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<tr>
<td>A4T 19/26</td>
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<td></td>
<td>• Butter or cheese dishes or covers, with or without cooling or heating devices; Protective covers for food containers [2008.01]</td>
<td></td>
</tr>
<tr>
<td>A4T 19/28</td>
<td></td>
<td></td>
<td>• Egg-cups. Openers for boiled eggs (egg-openers as domestic appliances A47J 43/14) [2006.01]</td>
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<tr>
<td>A4T 19/30</td>
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<td></td>
<td>• Other containers or devices used as table equipment [2006.01]</td>
<td></td>
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<tr>
<td>A4T 19/32</td>
<td></td>
<td></td>
<td>• Food containers with dispensing devices for bread, rolls, sugar, or the like; Food containers with movable covers (used as shop fittings A47F) [2006.01]</td>
<td></td>
</tr>
<tr>
<td>A4T 19/34</td>
<td></td>
<td></td>
<td>• dispensing a certain quantity of granulated foodsuffs, e.g. sugar [2006.01]</td>
<td></td>
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</table>

**A4T 21/00**

**Table-ware (crumb trays A47L 13/52, table knives B26B)** [2006.01]

<table>
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<tr>
<td>A4T 21/02</td>
<td></td>
<td></td>
<td>• Forks; Forks with ejectors; Combined forks and spoons; Salad servers [2006.01]</td>
<td></td>
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<tr>
<td>A4T 21/04</td>
<td></td>
<td></td>
<td>• Spoons; Pastry servers [2006.01]</td>
<td></td>
</tr>
<tr>
<td>A4T 21/06</td>
<td></td>
<td></td>
<td>• Combined or separate sets of table-service utensils; Oyster knives with openers; Fish servers with means for removing bones (kitchen equipment A47I) [2006.01]</td>
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</tr>
<tr>
<td>A4T 21/08</td>
<td></td>
<td></td>
<td>• Serving devices for one-handed persons [2006.01]</td>
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<tr>
<td>A4T 21/10</td>
<td></td>
<td></td>
<td>• Sugar tongs; Asparagus tongs. Other food tongs [2006.01]</td>
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<tr>
<td>A4T 21/12</td>
<td></td>
<td></td>
<td>• Toothpick holders [2006.01]</td>
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<tr>
<td>A4T 21/14</td>
<td></td>
<td></td>
<td>• Knife racks or stands. Holders for table utensils attachable to plates [2006.01]</td>
<td></td>
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<tr>
<td>A4T 21/16</td>
<td></td>
<td></td>
<td>• Table-cloth or napkin holders [2006.01]</td>
<td></td>
</tr>
<tr>
<td>A4T 21/18</td>
<td></td>
<td></td>
<td>• Drinking straws or the like (for therapeutic purposes A61J 15/00) [2006.01]</td>
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**A4T 23/00**

**Other table equipment [2006.01]**

<table>
<thead>
<tr>
<th>Scheme</th>
<th>RCL</th>
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<tbody>
<tr>
<td>A4T 23/02</td>
<td></td>
<td></td>
<td>• Glass or bottle holders [2006.01]</td>
<td></td>
</tr>
<tr>
<td>A4T 23/03</td>
<td></td>
<td></td>
<td>• Underlays for glasses or drinking-vessels [2006.01]</td>
<td></td>
</tr>
<tr>
<td>A4T 23/03</td>
<td></td>
<td></td>
<td>• made of paper, board, or the like, e.g. beemats [2006.01]</td>
<td></td>
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<tr>
<td>A4T 23/04</td>
<td></td>
<td></td>
<td>• Containers with means for keeping food cool or hot (for butter or cheese A47L 19/26) [2006.01]</td>
<td></td>
</tr>
<tr>
<td>A4T 23/06</td>
<td></td>
<td></td>
<td>• Serving trays (service tables A47B 31/00) [2006.01]</td>
<td></td>
</tr>
<tr>
<td>A4T 23/08</td>
<td></td>
<td></td>
<td>• Food-conveying devices for tables; Movable or rotary food-serving devices [2006.01]</td>
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<tr>
<td>A4T 23/10</td>
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<td></td>
<td>• Devices for counting or marking the number of consumptions (dispenser apparatus B65D, B67D; counting in general G06M) [2006.01]</td>
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Exercises

11. How many documents in PATENTSCOPE do not have CPC information?
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<tr>
<td>AND</td>
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<td>AND</td>
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<td>AND</td>
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<tr>
<td>AND</td>
<td>Licensing availability</td>
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</table>

50,276,765 results
Exercises

12. What documents will be retrieved with this query:

EN_TI:(electric NEAR support) OR EN_AB: (electric NEAR support)
EN_TI (electric NEAR support) OR EN_AB: (electric NEAR support)

1. **1103199112** ELECTRIC SUPPORT

   **Int.Class:** F16M 11/04  
   **Appl.No:** 201910691119.3  
   **Applicant:** SHENZHEN RANVIO TECHNOLOGY CO., LTD.  
   **Inventor:** LIN DELI

   The invention discloses an electric support. The electric support is used for clamping electronic equipment. The electric support comprises a shell, a left-right clamping arm, a circuit board, a motor and a transmission assembly. The motor can drive the left-right clamping arm to clamp the electric support or open through the transmission assembly. The contact sensor is arranged on the shell, and the contact switch is further arranged in a containing cavity; and the transmission assembly comprises a first transmission part and a contact part is arranged on the first transmission part. When the electric support is used, the electric equipment is placed on the electric support, and the contact sensor detects that the electronic equipment is in contact with the electric support, so that the motor is controlled to rotate towards the clamping direction so as to drive the left-right clamping arm to clamp the equipment, when the left-right clamping arm clamps the equipment to a preset clamping position, the contact part triggers the first contact switch, so that the motor is controlled to be turned off. In the using process of the electric support, the contact part and the first contact switch which are arranged in the containing cavity are safe and cannot be damaged through extrusion, and thus the safety coefficient of the electric support is higher.

2. **206628939** ELECTRIC SUPPORT

   **Int.Class:** F16M 11/04  
   **Appl.No:** 201720818170.4  
   **Applicant:** SHENZHEN LINGYOUTING TECHNOLOGY DEVELOPMENT CO., LTD.  
   **Inventor:** ZHANG SHUAI

   The utility model discloses an electric support, including casing and a pair of arm lock, the electric support still includes: the link gear, the link gear is connected with at least one arm lock linkage in a pair of arm lock, electric drive device, electric drive device is connected with the link gear linkage, the control unit, the control unit is electrically connected to electric drive devices, and at least one trigger element, the trigger element is coupled in the control unit. The utility model discloses an electric support only needs touch gently the trigger element, electric support's arm lock can automatically open promptly or press from both sides tightly, easy and simple to handle and easy one-hand operation, intelligent, degree of automation is high.

3. **210831070** ELECTRIC SUPPORT

   **Int.Class:** F16M 11/04  
   **Appl.No:** 201921031302.X  
   **Applicant:** SHENZHEN RANVIO TECHNOLOGY CO., LTD.  
   **Inventor:** LIN DELI

   The utility model discloses an electric support which is used for clamping electronic equipment and comprises a shell, a left clamping arm, a right clamping arm, a circuit board, a motor and a transmission assembly. The motor can drive the left and right clamping arms to clamp or open through the transmission assembly; a contact sensor is arranged on the shell, a first contact switch is further arranged in the containing cavity, the transmission assembly comprises a first transmission piece, and a contact piece is arranged on the first transmission piece. When the electric support is used, electronic equipment is placed on the electric support, the contact sensor detects that the electronic equipment makes contact with the electric support, so that the motor is controlled to rotate in the clamping direction to drive the left clamping arm and the right clamping arm to conduct clamping, and when the left clamping arm and the right clamping arm conduct clamping, the contact piece triggers the first contact switch to control the motor to be turned off. In the using process of the electric support, the contact piece and the first contact switch which are arranged in the containing cavity are safe and cannot be damaged due to extrusion, and the safety coefficient of the electric support is higher.
Documents having in

The **English title** or the **English abstract** the following keywords that are **not separated by more than 5 keywords**

Electric  Support  Electrical  supporting  Electrically  electricity
Wildcard vs Stemming

This page shows the different results a wildcard matches as opposed to using the stemming option.

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Exercises

13. Perform a search as complete as possible for the chemical compound ammonia
PATENTSCOPE Chemical compounds search

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- Search for scaffold
- Include enumerated Markush structures

Offices
- All
1. **WO/2015/040781** EXHAUST GAS PURIFICATION APPARATUS FOR INTERNAL COMBUSTION ENGINE

   Int. Class: F01N 3/20
   Appi. No.: PCT/JP2014/004087
   Applicant: TOYOTA JIDOSHA KABUSHIKI KAISHA
   Inventor: KATO, Akira

   The production efficiency of ammonia is increased while avoiding the necessity for a user to supply water for himself/herself in order to produce the ammonia. An exhaust gas purification apparatus comprises a catalyst [3] which purifies an exhaust gas of an internal combustion engine [1] by using ammonia; and an ammonia supply device [4] which supplies the ammonia to the catalyst [3], wherein the ammonia supply device [4] includes an ammonia producing device [43] which produces the ammonia from nitrogen and water; a nitrogen supply device [44] which separates the nitrogen from air and which supplies the nitrogen to the ammonia producing device [43]; and a water supply device [45] which separates the water from the exhaust gas of the internal combustion engine [1] and which supplies the water to the ammonia producing device [43].

2. **2015059513** EXHAUST EMISSION CONTROL DEVICE FOR INTERNAL COMBUSTION ENGINE

   Int. Class: F01N 3/08
   Appi. No.: 2013183926
   Applicant: TOYOTA MOTOR CORP
   Inventor: KATO, TORU

   PROBLEM TO BE SOLVED: To further enhance generation efficiency of ammonia while eliminating the necessity of supplying water by a user himself/herself to generate ammonia.

   SOLUTION: An exhaust emission control device for an internal combustion engine includes a catalyst 3 for purifying exhaust gas of the internal combustion engine 1 by using ammonia; and an ammonia supply device 4 for supplying ammonia to the catalyst 3. The ammonia supply device 4 includes an ammonia generation device 43 for generating ammonia from nitrogen and water; a nitrogen supply device 44 for separating nitrogen from air and supplying the nitrogen to the ammonia generation device 43; and a water supply device 45 for separating water from exhaust gas of the internal combustion engine 1 and supplying the water to the ammonia generation device 43.

3. **WO/2020/085324** AMMONIA SYNTHESIS SYSTEM AND AMMONIA PRODUCTION METHOD

   Int. Class: C01B 3/04
   Appi. No.: PCT/JP2018/041230
   Applicant: TSUBAMUJI CO., LTD.
   Inventor: KASAI, Toshikazu

   ...
1. **20210980426 ammonia synthesis system and ammonia production method**

   **Int.Class:** C01C 1/04  |  **App.No:** 17287025  |  **Applicant:** Tsubame BHS Co., Ltd.  |  **Inventor:** Taichi Yagi

   The ammonia synthesis system of the present invention includes an ammonia synthesis reaction unit (10) that synthesizes ammonia from nitrogen and hydrogen; an ammonia cooler (20) that cools an ammonia-containing gas discharged from the ammonia synthesis reaction unit (10); a gas-liquid separator (30) that separates ammonia liquefied by the ammonia cooler (20) from a circulated gas; and an ammonia synthesizing gas supplying unit (40) that supplies nitrogen gas and hydrogen gas, the circulated gas being supplied to the ammonia synthesis reaction unit, the circulated gas supplied to the ammonia synthesis unit having an ammonia gas concentration of 3% by volume or more. The method for producing ammonia of the present invention includes reacting nitrogen and hydrogen using a circulated gas having an ammonia gas concentration of 3% by volume or more and using an ammonia synthesis catalyst under a condition of a reaction pressure of 10 MPa or less to produce ammonia. The present invention can provide an ammonia synthesis system and an ammonia production method in which an energy required for producing ammonia is reduced.

2. **3872036 ammonia synthesis system and ammonia production method**

   **Int.Class:** C01C 1/04  |  **App.No:** 19876838  |  **Applicant:** TSUBAME BHS CO LTD  |  **Inventor:** Yagi Taichi

   The ammonia synthesis system of the present invention includes an ammonia synthesis reaction unit (10) that synthesizes ammonia from nitrogen and hydrogen; an ammonia cooler (20) that cools an ammonia-containing gas discharged from the ammonia synthesis reaction unit (10); a gas-liquid separator (30) that separates ammonia liquefied by the ammonia cooler (20) from a circulated gas; and an ammonia synthesizing gas supplying unit (40) that supplies nitrogen gas and hydrogen gas, the circulated gas being supplied to the ammonia synthesis reaction unit, the circulated gas supplied to the ammonia synthesis unit having an ammonia gas concentration of 3% by volume or more. The method for producing ammonia of the present invention includes reacting nitrogen and hydrogen using a circulated gas having an ammonia gas concentration of 3% by volume or more and using an ammonia synthesis catalyst under a condition of a reaction pressure of 10 MPa or less to produce ammonia. The present invention can provide an ammonia synthesis system and an ammonia production method in which an energy required for producing ammonia is reduced.

3. **WO/2022/289229 a system and method for recovering ammonia from an ammonia-containing liquid**

   **Int.Class:** C01C 1/02  |  **App.No:** PCT/GB2022/051386  |  **Applicant:** PROCESS LIMITED  |  **Inventor:** EDEN Robert

   A system for recovering ammonia from an ammonia-containing liquid, which system comprises a waste tank (10) for receiving ammonia-containing liquid entering the system; a filtration unit (14) comprising an
Exercises

14. Search for document WO2018013259

How many members are in this family? What are their relationships?
9. WO2018013259 - METHOD AND SYSTEM FOR PARTITIONED BLOCKCHAINS AND ENHANCED PRIVACY FOR PERMISSIONED BLOCKCHAINS
Exercises

15. Search for PCT applications about inflatable toys with origin China from 2022 (publication date)
1. WO/2022/171097  INFLATABLE ENTERTAINMENT APPARATUS

An inflatable entertainment apparatus, comprising an inflatable toy provided for entertainment and an expansion connector [6], wherein the inflatable toy is provided with at least one inflatable toy opening [4]; the expansion connector [5] is connected to the inflatable toy opening [4]; the expansion connector [5] is provided with an expansion connecting port [6]; the expansion connecting port [6] enables an airflow to pass therethrough; and the expansion connector [5] on the inflatable toy can be connected to the expansion connector [5] on another inflatable toy so as to expand the inflatable entertainment apparatus. The inflatable entertainment apparatus further comprises inflation/exhaust pipelines [3], which are used for communicating with an air source so as to inflate or exhaust the inflatable toys, such that the inflatable toys of the inflatable entertainment apparatus can respectively perform independent and time-shared staggered actions and present the effect of movement during the switching process; and the number of inflatable toys can be increased or decreased by means of the expansion connectors, such that a participant can continuously play, stimulate their imagination, and exercise their body.

2. WO/2023/005776  MOUNT FOR INFLATABLE TOY, FUNCTIONAL UNIT, INFLATABLE TOY AND SYSTEM

A mount for an inflatable toy, a functional unit [3], an inflatable toy, and a system. The mount is used for mounting the additional functional unit [3] to a chamber [30] of the inflatable toy, and comprises a mounting base [1] on which functional units [3] of different types can be mounted directly or indirectly in a replaceable manner. A chamber coupler [23] is provided on the mounting seat [1] to be connected to the chamber [30] of the inflatable toy. The mounting seat [1] is further provided with a first locking mechanism [10]. After the functional unit [3] is mounted on the mounting base [1], the functional unit [3] can be directly or indirectly locked and fixed on the mounting base [1] by means of the first locking mechanism [10]. The mount enables the functional unit [3] to be conveniently assembled and disassembled with the inflatable toy, and has high compatibility, universality and varied playing methods.
HELP

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- Query Syntax
- Fields Definition
- IPC/CPC classification fields
- Wildcard vs Stemming
- Tutorials
- Tips And Tricks
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- National Collection of Austria Now Available in PATENTSCOPE  [May 2, 2022]
- Wildcards and fields in PATENTSCOPE  [Mar 31, 2022]
- Milestone celebration: over 100 million patent documents in PATENTSCOPE  [Jan 12, 2022]
- Search in PATENTSCOPE and access other services using the WIPO IP Portal widgets  [Dec 8, 2021]

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- User’s Guide
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支持的冠状病毒创新工作的检索功能

字段
首页

检索内容：
taiyang\neng\nkao\nxiang

1 太阳能烤箱 2 太阳能 3 太阳 4 太阳 5 太阳 6 太 7 太

专利局
全部
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**Offices for which PCT national phase information is available**

**Updated: July 25, 2023**

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**PCT: 4,643,730**

**Offices: 107,260,764**

**Overall: 111,904,494**
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Online registration

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