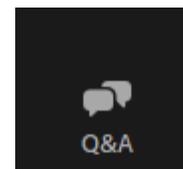


The webinar will begin in:





WELCOME



Questions/concerns

patentscope@wipo.int

A sign on a light-colored wall. The sign is shaped like a yellow arrow pointing to the right. The arrow has a purple vertical bar on its left side and a white vertical bar on its right side. The text "LOVE TO LEARN" is written in black, bold, sans-serif capital letters on the yellow background. The sign is mounted on a light-colored, textured wall. In the background, a person wearing a blue hoodie and sunglasses is walking on a sidewalk. There are some plants and a building in the distance.

LOVE TO
LEARN

Summer school

Session 1: simple search, result list, stemming, account

Session 2: field combination, advanced search, result list

Session 3: special tools, search interfaces & features

Session 4: more advanced exercises combining the usage of multiple interfaces and search features

Practical cases

- First review theory
- Exercise is shown with a defined time to complete
- Solution is shown

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- Available to all: <https://patentscope.wipo.int>



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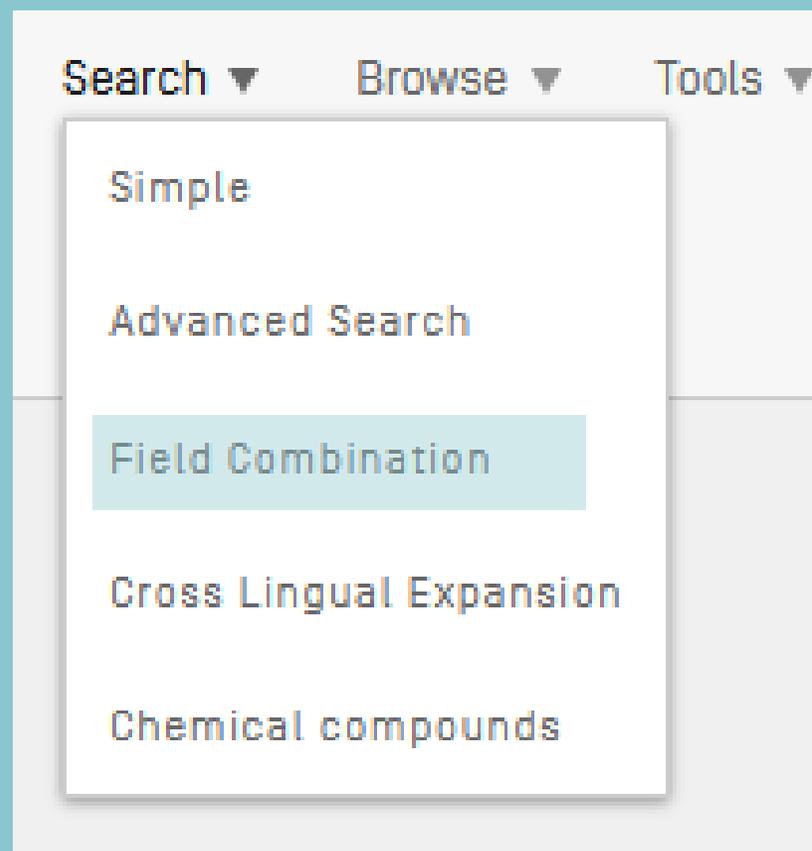
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PCT publication 22/2022 [02.06.2022] is now available [here](#). The next PCT publication 23/2022 is scheduled for 09.06.2022. [More](#)
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[Search Facility to Support COVID-19 Innovation Efforts](#)

Field	▼	Search terms...	🔍
Front Page			

Query Examples

Search



Search: Field Combination

FIELD COMBINATION ▾

		Field Front Page	▼	Value	?
Operator AND	▼	Field WIPO Publication Number	▼	Value	?
Operator AND	▼	Field Application Number	▼	Value	?
Operator AND	▼	Field Publication Date	▼	Value	?
Operator AND	▼	Field English Title	▼	Value	?
Operator AND	▼	Field All Classifications	▼	Is Empty: N/A	▼
Operator AND	▼	Field Licensing availability	▼	<input type="checkbox"/>	

 Add another search field  Reset search fields

- Front Page
- Any Field
- Full Text
- ID/Number
- Int. Classification(IPC)
- Names
- Publication Date

[Submit observation](#) [Permalink](#) [Machine translation](#)

Publication Number WO/2020/148917	Title [EN] A MEASURED POWDER DISPENSER [FR] DISTRIBUTEUR DE POUDRE MESURÉE
Publication Date 23.07.2020	
International Application No. PCT/AU2019/051076	
International Filing Date 13.12.2019	
IPC A47G 19/34 2006.01 G01F 11/24 2006.01 A47J 47/18 2006.01	
Applicants MORELLO, Silvio [AU][TAU]	
Inventors MORELLO, Silvio	
Agents PATENTEC PATENT ATTORNEYS L1, 65 York St Sydney, New South Wales 2000, AU	
Priority Data 201900109 17.01.2019 AU	
Publication Language English [EN]	
Filing Language English [EN]	
Designated States <i>View all</i>	
<i>Latest bibliographic data on file with the International Bureau</i>	

Figure 1

Abstract

[EN]
 A measured powder dispenser has a hopper feeding powder down into a measured dispensing mechanism. The measured dispensing mechanism has an inlet and an outlet and a measuring container operable therebetween. The measuring container is rotatably engaged about a rotation axis generally orthogonal to an inlet axis of the inlet such that an exterior surface thereof moves across the inlet when the measuring container rotates. The measuring container has an interior volume adjustable measurement chamber recessed within the exterior surface such that, in use, at a first rotational position, the measurement chamber aligns with the inlet to accept a measured amount of powder therein from the power container and, when rotated to a second rotational position, the exterior surface seals across the inlet and the measurement chamber aligns with the outlet to dispense the measured amount of powder therefrom.

[FR]
 La présente invention concerne un distributeur de poudre mesurée présentant une trémie introduisant de la poudre vers le bas dans un mécanisme de distribution mesurée. Le mécanisme de distribution mesurée présente une admission et une évacuation et un contenant de mesure pouvant être actionné entre eux. Le contenant de mesure est en prise rotative autour d'un axe de rotation généralement orthogonal à un axe d'admission de l'admission de sorte qu'une surface extérieure de ce dernier se déplace à travers l'admission lorsque le contenant de mesure tourne. Le contenant de mesure présente une chambre de mesure à volume intérieur réglable en retrait à l'intérieur de la surface extérieure de sorte que, lors de l'utilisation, au niveau d'une première position de rotation, la chambre de mesure s'aligne avec l'admission afin d'accepter une quantité de poudre mesurée en son sein à partir du contenant de poudre et, dans une seconde position de rotation, la surface extérieure sur l'admission et la chambre de mesure s'aligne avec l'évacuation afin de distribuer la quantité de poudre mesurée à partir de cette dernière.

说明书

发明名称：一种样本光学检测装置

技术领域

技术领域

[0001] 本发明涉及一种样本光学检测装置。

背景技术

背景技术

[0002] 血液细胞分析仪大多采用激光散射原理进行测量，原理为：将激光照射在细胞上，通过收集细胞被照射后产生的前向散射光、侧向散射光（90度散射光）和侧向荧光（90度荧光），来对细胞进行分类和计数等。

[0003] 图1为一种血液细胞分析仪的光学检测装置，细胞在鞘流的作用下逐个通过流动室，当激光光源发出的光被透镜准直后向通过流动室的细胞照射，照射到细胞上的光会向四面产生散射，通过一收集透镜收集前向散射光后，再经过一个光源来限定最终到达光电探测器的前向散射光的角度，例如将前向散射光限定为低角度（或者说小角度）的前向散射光——这种角度的前向散射光一般用于测量细胞体积；同时，在与照射到细胞的光线垂直的方向通过另一收集透镜收集侧向光，收集的侧向光再通过二向色镜发生反射和折射，其中侧向光中的侧向散射光在经过二向色镜时发生反射，然后到达相应的光电探测器——侧向散射光一般用于测量细胞的表面复杂程度，侧向光中的侧向荧光则经过折射或透镜透射后再经过一滤光片也到达相应的光电探测器——侧向荧光一般用于测量细胞内核含量。

[0004] 图1中的光学检测装置仅有三路测量通道——即低角度前向散射光通道、侧向散射光通道和侧向荧光通道，因此只能基于这三路测量通道获取的信号来对细胞进行分类和计数，这在一定程度上会限制对细胞的进一步分析和计数，即无法做到进行更多维度和更加细致的分类和计数，降低了异常细胞的分类能力；技术人员如果将图1中低角度前向散射光通道替换成增加高角度（或者说大角度）散射光通道，可以直接使用光电探测器靶面来接收大角度前向散射光，但这样接收得到的信号信噪比非常差，因此为了保证信号质量，技术人员通常会采用复杂的多个透镜组合来收集大角度前向散射光再出射给对应的光电探测器，这种做法则会大大增加装置的成本；另外，光学检测装置的尺寸一般偏大，这是由于其光路结构所造成的，例如前向散射光通道一般被设计为折射式的光路结构，因此会造成光学检测装置的尺寸偏大，尤其是当前向散射光通道用于收集多个角度范围（例如低角度和高角度等）的散射光时。

发明概述

技术问题

[0005] 本发明主要提供一种样本光学检测装置，下面说明。

技术方案

[0006] 一实施例的样本光学检测装置，包括：

[0007] 流动室，用于使得待样本中的细胞逐个通过；

[0008] 光源，用于照射通过所述流动室的细胞；

Search: Field Combination

FIELD COMBINATION ▾

	Field	Value	?
	Front Page		
Operator	Field	Value	?
AND	English Claims	cancer	
Operator	Field	Value	?
AND	English Claims	biomarker	
Operator	Field	Value	?
AND	Publication Date	2020	
Operator	Field	Value	?
AND	Abstract		
Operator	Field	Is Empty:	▾
AND	Abstract	N/A	
Operator	Field		
AND	Licensing availability	<input type="checkbox"/>	

+ Add another search field **-** Reset search fields

Offices
All ▾

Languages
All ▾

Stemming

Single Family Member

Include NPL

571 results

Search: Field Combination

FIELD COMBINATION ▾

Operator	Field	Value	?
AND	Front Page	Value	?
AND	English Claims	Value cancer	?
AND	English Claims	Value biomarker	?
AND	Publication Date	Value 2020	?
AND	Abstract	Value	?
AND	Abstract	Is Empty: N/A	?
AND	Licensing availability	<input type="checkbox"/>	?

[+](#) Add another search field [-](#) Reset search fields

Offices All	▾
Languages All	▾
<input checked="" type="checkbox"/> Stemming	
<input type="checkbox"/> Single Family Member	
<input type="checkbox"/> Include NPL	

571 results [Reset](#) [Search](#)

Search: Field Combination

FIELD COMBINATION ▾

	Field	Value	
	Front Page		?
Operator AND	English Claims	cancer	?
Operator AND	English Claims	biomarker	?
Operator AND	Publication Date	2020	?
Operator AND	Abstract		?
Operator AND	Abstract		
Operator AND	Licensing availability		

+ Add another search field - Reset search fields

Offices
All

Languages
All

Stemming

Single Family Member

Include NPL

Is Empty:
N/A

N/A

Yes

No

571 results Reset Search

Search: Field Combination

FIELD COMBINATION ▾

	Field	Value	?
	Front Page		
Operator	Field	Value	?
AND	English Claims	cancer	
Operator	Field	Value	?
AND	English Claims	biomarker	
Operator	Field	Value	?
AND	Publication Date	2020	
Operator	Field	Value	?
AND	Abstract		
Operator	Field	Is Empty:	▾
AND	Abstract	N/A	
Operator	Field		
AND	Licensing availability	<input type="checkbox"/>	

[+](#) Add another search field [-](#) Reset search fields

Offices	▾
All	
Languages	▾
All	
<input checked="" type="checkbox"/> Stemming	
<input type="checkbox"/> Single Family Member	
<input type="checkbox"/> Include NPL	

571 results [Reset](#) [Search](#)

Search: Field Combination

FIELD COMBINATION ▾

	Field Front Page	▼	Value	?
Operator AND	Field English Claims	▼	Value cancer	?
Operator AND	Field English Claims	▼	Value biomarker	?
Operator AND	Field Publication Date	▼	Value 2020	?
Operator AND	Field Abstract	▼	Value	?
Operator AND	Field Abstract	▼	Is Empty: N/A	▼
Operator AND	Field Licensing availability	▼	<input type="checkbox"/>	

+ Add another search field - Reset search fields

Offices
All

Languages
All

Stemming

Single Family Member

Include NPL

571 results

Search: Field Combination

FIELD COMBINATION ▾

	Field	Value	
	Front Page		?
Operator AND	English Claims	cancer	?
Operator AND	English Claims	biomarker	?
Operator AND	Publication Date	2020	?
Operator AND	Abstract		?
Operator AND	Abstract	Is Empty: N/A	▾
Operator AND	Licensing availability	<input type="checkbox"/>	

+ Add another search field - Reset search fields

Offices All	▾
Languages All	▾
<input checked="" type="checkbox"/> Stemming	
<input type="checkbox"/> Single Family Member	
<input type="checkbox"/> Include NPL	

571 results Reset Search

Exercises

1. Using the Field Combination interface, how many results do you find when combining the following fields and search terms with the operator AND:

a. Publication Date: 2018

b. Applicant nationality: China

c. English abstract: support

d. International Patent Classification: H04W

e. Applicant name: huawei

122

Operator	Field	Value
AND	Front Page	
AND	Publication Date	2018
AND	Applicant Nationality	CN
AND	English Abstract	support
AND	International Class	H04W
AND	Applicant Name	Huawei
AND	All Classifications	Is Empty: N/A
AND	Licensing availability	<input type="checkbox"/>

a. Publication Date: 2018

b. Applicant nationality: China

c. English abstract: support

d. International Patent Classification: H04W

e. Applicant name: huawei

+ Add another search field **-** Reset search fields

Offices
All

Languages
English

Stemming

Single Family Member

Include NPL

122 results

Reset

Search

2. How many PCT applications have licensing availability information for publication year 2019?

156

		Field Front Page	▼	Value	?
Operator AND	▼	Field Publication Date	▼	Value 2019	?
Operator AND	▼	Field Applicant Nationality	▼	Value	?
Operator AND	▼	Field English Abstract	▼	Value	?
Operator AND	▼	Field International Class	▼	Value	?
Operator AND	▼	Field Applicant Name	▼	Value	?
Operator AND	▼	Field All Classifications	▼	Is Empty: N/A	▼
Operator AND	▼	Field Licensing availability	▼	<input checked="" type="checkbox"/>	

Add another search field
 Reset search fields

Offices All	▼
Languages English	▼
<input checked="" type="checkbox"/> Stemming	
<input type="checkbox"/> Single Family Member	
<input type="checkbox"/> Include NPL	

3. Build a search to look for both patent and non-patent information about cancer in English using the title field.

3. Build a search to look for both patent and non-patent information about cancer in English using the title field.

	Field	Front Page	Value	?
Operator AND	Field	English Title	Value cancer	?
Operator AND	Field	Applicant Nationality	Value	?
Operator AND	Field	English Abstract	Value	?
Operator AND	Field	International Class	Value	?
Operator AND	Field	Applicant Name	Value	?
Operator AND	Field	All Classifications	Is Empty: N/A	?
Operator AND	Field	Licensing availability	<input type="checkbox"/>	

[+](#) Add another search field [-](#) Reset search fields

Offices All	▼
Languages English	▼
<input checked="" type="checkbox"/> Stemming	
<input type="checkbox"/> Single Family Member	
<input checked="" type="checkbox"/> Include NPL	

143,705 results [Reset](#) [Search](#)

4. How many documents of the collection of the USA do not have any CPC information?

1,824,597

	Field	Front Page	Value	?
Operator AND	Field	English Title	Value	?
Operator AND	Field	Applicant Nationality	Value	?
Operator AND	Field	English Abstract	Value	?
Operator AND	Field	International Class	Value	?
Operator AND	Field	Applicant Name	Value	?
Operator AND	Field	Cooperative Patent Classification	Is Empty: Yes	▼
Operator AND	Field	Licensing availability	<input type="checkbox"/>	

+ Add another search field - Reset search fields

Offices
United States of America

- All
- PCT
- Africa
 - African Regional Intellectual Property Organization [ARIPO]
- ARABPAT
 - Egypt
 - Saudi Arabia
- Americas
 - Canada
 - United States of America
- LATIPAT
 - Argentina
 - Colombia
- Kenya
- Jordan
- Tunisia
- South Africa
- Morocco
- Brazil
- Costa Rica
- Chile
- Cuba

		Field Front Page	▼	Value	?
Operator AND	▼	Field English Title	▼	Value	?
Operator AND	▼	Field Applicant Nationality	▼	Value	?
Operator AND	▼	Field English Abstract	▼	Value	?
Operator AND	▼	Field International Class	▼	Value	?
Operator AND	▼	Field Applicant Name	▼	Value	?
Operator AND	▼	Field Cooperative Patent Classification	▼	Is Empty: Yes	▼
Operator AND	▼	Field Licensing availability	▼	<input type="checkbox"/>	

[+ Add another search field](#) [- Reset search fields](#)

Offices United States of America	▼
Languages English	▼
<input checked="" type="checkbox"/> Stemming	
<input type="checkbox"/> Single Family Member	
<input checked="" type="checkbox"/> Include NPL	

1,824,597 results

Reset

Search

5. For the Applicant Mars what is the difference in the number of results when grouped by family and not grouped by family?

5,249

	Field	Value	
	Front Page		?
Operator AND	Applicant All Data	mars	?
Operator AND	Applicant Nationality		?
Operator AND	English Abstract		?
Operator AND	International Class		?
Operator AND	Applicant Name		?
Operator AND	Cooperative Patent Classification	Is Empty: N/A	▼
Operator AND	Licensing availability	<input type="checkbox"/>	

Add another search field
 Reset search fields

Offices All	▼
Languages English	▼
<input checked="" type="checkbox"/> Stemming	
<input type="checkbox"/> Single Family Member	
<input type="checkbox"/> Include NPL	

9,445 results

Reset

Search

Operator	Field	Value	
AND	Front Page		?
AND	Applicant All Data	mars	?
AND	Applicant Nationality		?
AND	English Abstract		?
AND	International Class		?
AND	Applicant Name		?
AND	Cooperative Patent Classification	Is Empty: N/A	
AND	Licensing availability	<input type="checkbox"/>	

+ Add another search field
 − Reset search fields

Offices All	▼
Languages English	▼
<input checked="" type="checkbox"/> Stemming	
<input checked="" type="checkbox"/> Single Family Member	
<input type="checkbox"/> Include NPL	

6. Add to the previous search, the keyword chocolate in the English description, what is the difference if those 2 fields are combined with the operator AND or with the Operator OR?

Number of results

		Field Front Page	▼	Value	?
Operator AND	▼	Field Applicant All Data	▼	Value mars	?
Operator AND	▼	Field English Description	▼	Value chocolate	?
Operator AND	▼	Field English Abstract	▼	Value	?
Operator AND	▼	Field International Class	▼	Value	?
Operator AND	▼	Field Applicant Name	▼	Value	?
Operator AND	▼	Field Cooperative Patent Classification	▼	Is Empty: N/A	▼
Operator AND	▼	Field Licensing availability	▼	<input type="checkbox"/>	

Add another search field
 Reset search fields

Offices All	▼
Languages English	▼
<input checked="" type="checkbox"/> Stemming	
<input type="checkbox"/> Single Family Member	
<input type="checkbox"/> Include NPL	

		Field Front Page	▼	Value	?
Operator AND	▼	Field Applicant All Data	▼	Value mars	?
Operator OR	▼	Field English Description	▼	Value chocolate	?
Operator AND	▼	Field English Abstract	▼	Value	?
Operator AND	▼	Field International Class	▼	Value	?
Operator AND	▼	Field Applicant Name	▼	Value	?
Operator AND	▼	Field Cooperative Patent Classification	▼	Is Empty: N/A	▼
Operator AND	▼	Field Licensing availability	▼	<input type="checkbox"/>	

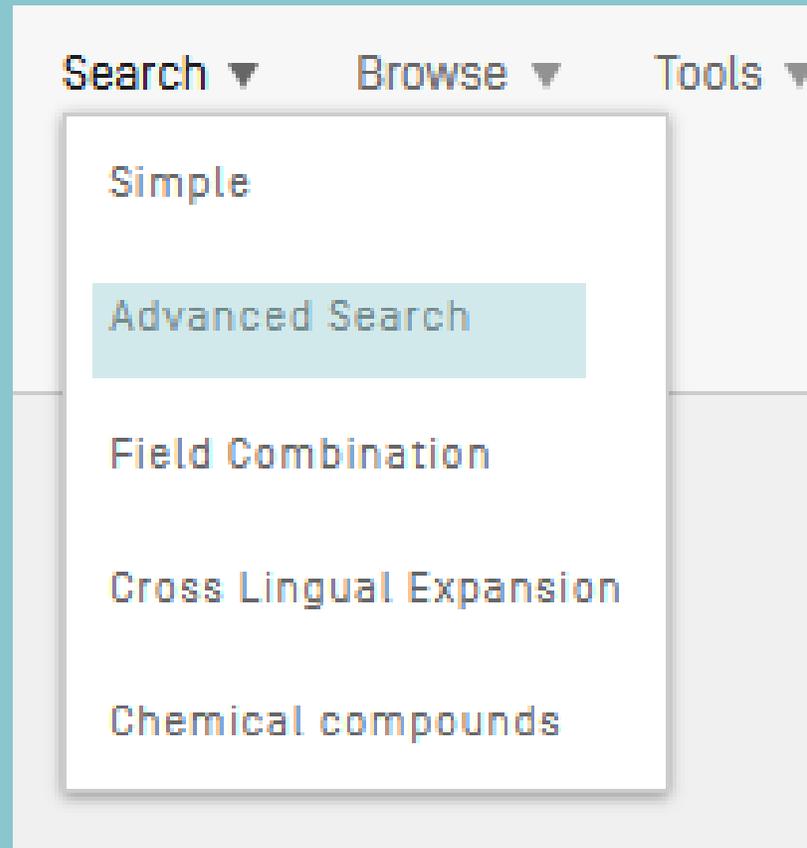
Add another search field
 Reset search fields

Offices All	▼
Languages English	▼
<input checked="" type="checkbox"/> Stemming	
<input type="checkbox"/> Single Family Member	
<input type="checkbox"/> Include NPL	

7. Can you build the following query using the Field Combination:
English abstract: car OR English title: car AND publication
date:2022

NO

Search menu



ADVANCED SEARCH ▾

Search terms...

Query Assistant [Query Examples](#)

Expand with related terms

Offices
All



Languages
English



Stemming

Single Family Member

Include NPL

Reset

Search

HELP

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- [New in PATENTSCOPE: Chemical Sub-Structure Search](#) [Sep 19, 2019]
- [The New PATENTSCOPE Interface](#) [Sep 18, 2019]
- [Webinar On Upcoming New PATENTSCOPE Interface](#) [Sep 9, 2019]

Advanced search

- ❑ Unlimited number of search terms
- ❑ Boolean operators: AND, OR, NOT, ANDNOT
- ❑ Proximity: NEAR, BEFORE
- ❑ Range operators: [...TO...], {...TO...}
- ❑ Wildcards: ?, *
- ❑ Weighting factor: ^
- ❑ Query assistant

Grouping/nesting (...)

- ❑ Solar OR (wind AND turbine)
- ❑ (solar OR wind) AND turbine

- ❑ EN_TI: electric car
electric will be searched in English title but car in all fields

- ❑ EN_TI: (electric car)
Both electric and car will be searched in the English title

ADVANCED SEARCH ▾

✔ Please enter a valid field... [or use UP/DOWN keys, and TAB or ENTER to select]

applic

Applicant Address

Applicant Address Country

Applicant All Data

Applicant Name

Applicant Nationality

Applicant Residence

Application Date

Application Number

Main Applicant Name

National Phase Application Number

Reset

Search

ADVANCED SEARCH ▾

Search terms...

Query Assistant [Query Examples](#)

ADVANCED SEARCH ▾



ic:cl

C: CHEMISTRY; METALLURGY

C01: INORGANIC CHEMISTRY

C02: TREATMENT OF WATER, WASTE WATER, SEWAGE, OR SLUDGE

C03: GLASS; MINERAL OR SLAG WOOL

C04: CEMENTS; CONCRETE; ARTIFICIAL STONE; CERAMICS; REFRACTORIES

C05: FERTILISERS; MANUFACTURE THEREOF

C06: EXPLOSIVES; MATCHES

C07: ORGANIC CHEMISTRY

C08: ORGANIC MACROMOLECULAR COMPOUNDS; THEIR PREPARATION OR CHEMICAL WORKING-UP; COMPOSITIONS BASED THEREON

C09: DYES; PAINTS; POLISHES; NATURAL RESINS; ADHESIVES; COMPOSITIONS NOT OTHERWISE PROVIDED FOR; APPLICATIONS OF MATERIALS NOT OTHERWISE PROVIDED FOR

C10: PETROLEUM, GAS OR COKE INDUSTRIES; TECHNICAL GASES CONTAINING CARBON MONOXIDE; FUELS; LUBRICANTS; PEAT

ADVANCED SEARCH ▾



EN_CL:(biomarker NEAR10 cancer) AND DP:[2018 TO 2021]

Query Assistant [Query Examples](#)

Expand with related terms

Offices

All



Languages

All



Stemming

Single Family Member

Include NPL

Reset

Search

EN_CL:(biomarker NEAR10 cancer) AND DP:[2018 TO 2021]



762 results Offices all Languages all Stemming true Single Family Member false Include NPL false



Sort: Pub Date Desc Per page: 100 View: All+Image

< 1/8 >

Download Machine translation

1. [WO/2021/126999](#) USE OF BIOMARKERS IN IDENTIFYING PATIENTS THAT WILL BE RESPONSIVE TO TREATMENT WITH A PRMT5 INHIBITOR

Int.Class [G01N 33/574](#) Appl.No PCT/US2020/065341 Applicant MERCK SHARP & DOHME CORP. Inventor NICHOLSON, Benjamin

The present invention includes methods of identifying a patient who will likely be responsive to treatment with a protein arginine N-methyltransferase 5 inhibitor, or a pharmaceutically acceptable salt thereof, and methods of treating the same.

WO - 24.06.2021



2. [WO/2021/119759](#) OVARIAN CANCER BIOMARKER DETECTION THROUGH OVARIAN BLOOD SAMPLING

Int.Class [G01N 33/574](#) Appl.No PCT/AU2020/051400 Applicant UNIVERSITY OF SOUTH AUSTRALIA Inventor HOFFMANN, Peter

The present invention is directed to a biological marker of ovarian cancer, including early stage ovarian cancer. Specifically, the present invention provides methods for detecting ovarian cancer in a subject which include detecting an expression level of the biological marker junction plakoglobin in blood of the subject. An expression level of junction plakoglobin that is higher than a reference expression level for junction plakoglobin indicates that the subject has ovarian cancer. Methods of identifying a subject having ovarian cancer and methods of determining if a subject is susceptible to developing ovarian cancer are also provided based on detecting the expression level of junction plakoglobin in blood of the subject. The present invention also extends to methods of treatment of ovarian cancer together with methods of screening a candidate therapeutic agent for use in treating ovarian cancer. Furthermore, compositions and kits for detecting ovarian cancer in a subject are provided, as well as a method of identifying a biomarker for a cancer, including ovarian cancer.

WO - 24.06.2021



3. [3839513](#) USE OF DNA-TRANSCRIPTION FACTOR COMPLEXES FOR CANCER DETECTION

Int.Class [G01N 33/574](#) Appl.No 20210821 Applicant BELGIAN VOLITION SPRL Inventor MICALLEF JACOB VINCENT

The invention relates to the use of tissue specific transcription factor-nucleosome adducts or transcription cofactor-nucleosome adducts as biomarkers in a biological fluid for the detection or diagnosis of a cancer in a subject. The invention further relates to using said tissue specific transcription factor or cofactor adducts to identify the site of development of a cancer in a subject.

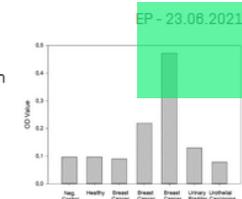


FIGURE 1

4. [20210181184](#) METHODS FOR TREATING MULTIPLE MYELOMA AND THE USE OF COMPANION BIOMARKERS FOR 4-[4-[[[2-[2,6-DIOXOPIPERIDIN-3-YL]-1-OXOISINDOLIN-4-YL]OXY]METHYL]BENZYL]PIPERAZIN-1-YL]-3-FLUOROBENZONITRILE

Int.Class [G01N 33/50](#) Appl.No 17173176 Applicant Celgene Corporation Inventor Maria Soraya Carrancio Anton

US - 17.06.2021



1. US20180188252 - METHODS FOR DIAGNOSIS AND PROGNOSIS OF EPITHELIAL CANCERS



National Biblio. Data Description **Claims** Drawings Patent Family Compounds Documents

PermaLink Machine translation ▼

Note: Text based on automatic Optical Character Recognition processes. Please use the PDF version for legal matters

[EN]

Claims

1. A method for facilitating the diagnosis of a patient for a cancer of epithelial origin comprising:

- a. obtaining a biological sample from the patient; and
- b. detecting the presence or absence of at least one epithelial **cancer biomarker** in the biological sample.

wherein the presence of at least one epithelial **cancer biomarker** is indicative of **cancer** of epithelial origin, and wherein the epithelial **cancer biomarker** is selected from the group consisting of Cystatin B, Chaperonin 10, and Profilin.

2. A method for diagnosing a cancer of epithelial origin in a patient comprising:

- a. measuring at least one epithelial **cancer biomarker** levels present in a biological sample obtained from the patient, a test sample;
 - b. comparing the level of at least one epithelial **cancer biomarker** in the test sample with the level of epithelial **cancer biomarker** present in a control sample;
- wherein a higher level of at least one epithelial **cancer biomarker** in the test sample as compared to the level of epithelial **cancer biomarker** in the control sample is indicative of **cancer** of epithelial origin, and wherein the epithelial **cancer biomarker** is selected from the group consisting of Cystatin B, Chaperonin 10, and Profilin.

3. The method of **claim 1**, wherein the cancer of epithelial origin is selected from the group consisting of breast cancer, basal cell carcinoma, adenocarcinoma, gastrointestinal cancer, lip cancer, mouth cancer, esophageal cancer, small bowel cancer, stomach cancer, colon cancer, liver cancer, bladder cancer, pancreas cancer, ovary cancer, cervical cancer, lung cancer, skin cancer, prostate cancer, and renal cell carcinoma.

4- 6. [canceled]

7. The method of **claim 1**, wherein the biological sample is urine.

8. The method of **claim 1**, wherein the presence or absence of at least one epithelial **cancer biomarker** or Cystatin B is detected using an antibody-based binding moiety which specifically binds to at least one epithelial **cancer biomarker** or to Cystatin B.

9. The method of **claim 2**, wherein the level of at least one epithelial **cancer biomarker** or Cystatin B is measured by measuring the protein level of at least one epithelial **cancer biomarker** protein or Cystatin B.

10. The method of **claim 9**, wherein the protein level of epithelial **cancer biomarker** or level of Cystatin B is measured by a method comprising the steps of:

- a. contacting the test sample, or preparation thereof, with an antibody-based binding moiety which specifically binds the epithelial **cancer biomarker** or to Cystatin B to form an antibody-epithelial **cancer biomarker** complex; and
- b. detecting the presence of the complex, thereby measuring the level of epithelial **cancer biomarker** present.

11. The method according to **claim 8**, wherein the antibody-based binding moiety is labeled with a detectable label.

12. The method according to **claim 11**, wherein the label is selected from the group consisting of a radioactive label, a hapten label, a fluorescent label, and an enzymatic label.

13. The method according to **claim 8**, wherein the antibody-based binding moiety is an antibody.

14. The method according to **claim 13**, wherein the antibody is a monoclonal antibody.

15- 19. [canceled]

20. The method of **claim 2**, wherein the cancer of epithelial origin is selected from the group consisting of breast cancer, basal cell carcinoma, adenocarcinoma, gastrointestinal cancer, lip cancer, mouth cancer, esophageal cancer, small bowel cancer, stomach cancer, colon cancer, liver cancer, bladder cancer, pancreas cancer, ovary cancer, cervical cancer, lung cancer, skin cancer, prostate cancer, and renal cell carcinoma.

21. The method according to **claim 10**, wherein the antibody-based binding moiety is labeled with a detectable label.

22. The method according to **claim 10**, wherein the antibody-based binding moiety is an antibody.

Exercises

- Q&A using Zoom poll
- Practical exercises

A.mouth NEAR4 protection
B.mouth AND protection



A. electric **NEAR9** bicycle

B. electric **BEFORE9** bicycle



A. tennis **AND** ball

B. tennis **OR** ball



EN_AB:(oven NEAR4 ((solar OR electric) ANDNOT microwave))



Exercises

1. Which field/s should you use to:
 - a. retrieve documents in Japanese
 - b. search information in all the parts of Chinese documents
 - c. look for a precise IPC code
 - d. look for an applicant
 - e. retrieve information in the Spanish claims
 - f. search for all the information related to national phase entry data?
 - g. search information in the text in French
 - h. retrieve kind codes

Exercises

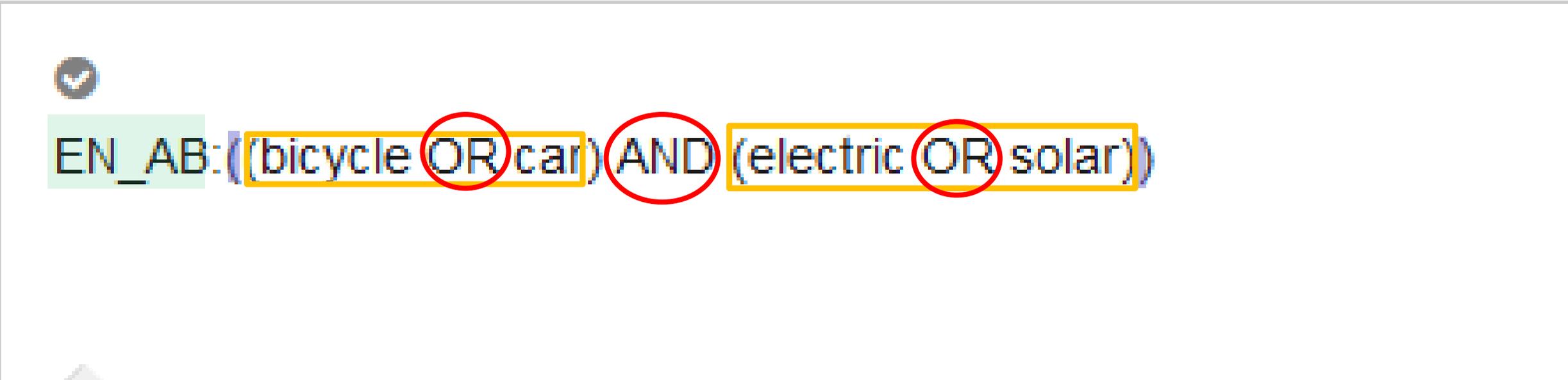
1. Which field/s should you use to:
 - a. retrieve documents in Japanese: **JA** (JA_AB; JA_TI...)
 - b. search information in all the parts of Chinese documents: **ZH_ALL**
 - c. look for a precise IPC code: **IC_EX**
 - d. look for an applicant: **PAA** (all data); **PA** (name)
 - e. retrieve information in the Spanish claims: **ES_CL**
 - f. search for all the information related to national phase entry data: **NPA**
 - g. search information in the text in French: **FR_ALLTXT**
 - h. retrieve latest kind codes: **DTY**

2. Using the Advanced search interface, build using the English abstract field, the following queries to retrieve documents:

- a. About bicycle or car that are electric or solar
- b. About apparatus to measure blood pressure
- c. About electric vehicle or electric car with an application date between 2019 and 2021.

2. Using the Advanced search interface, build using the English abstract field, the following queries to retrieve documents:

a. About bicycle or car that are electric or solar

A screenshot of a search interface. At the top left, there is a small circular icon with a checkmark. Below it, the text "EN_AB:" is highlighted in a light green box. To the right of "EN_AB:", the query "(bicycle OR car) AND (electric OR solar)" is displayed. The words "bicycle", "car", "electric", and "solar" are each enclosed in a yellow rectangular box. The words "OR" and "AND" are each enclosed in a red circular box. The entire query is enclosed in large parentheses.

EN_AB: ((bicycle OR car) AND (electric OR solar))

1. **208036507** BICYCLE BASKET AND ELECTRIC MOTOR CAR

CN - 02.11.2018

Int.Class **B62J 9/00**  Appl.No 201820511919.0 Applicant ZHANG JUN Inventor ZHANG JUN

The utility model provides a **bicycle** basket and **electric** motor **car** relates to **electric** motor **car** technical field, include: **bicycle** basket main part, **solar** cell panel, charge controllers and connecting portion, **solar** cell panel sets up on the surface of **bicycle** basket main part, the **bicycle** basket main part is passed through connecting portion and is connected with the **electric** motor **car** handlebar. Through setting up **solar** cell panel on the surface in the **bicycle** basket main part, **solar** cell panel charges for the **electric** motor **car** battery through charge controllers, use green energy to charge the **electric** motor **car** battery, use connecting portion to fix the **bicycle** basket main part on the **electric** motor **car** handlebar simultaneously, the connecting portion size is adjustable, make the **bicycle** basket main part be connected with the **electric** motor **car** handlebar of different thicknesses, the **solar** cell panel of having alleviated on the **solar** **car** basket that exists among the prior art changes inconveniently, fixed buckle on the **bicycle** basket can not be adjusted according to the thickness of handlebar and stand at will, use and experience not good technical problem, the energy saving has been realized, improve the technological effect of the suitability of **bicycle** basket.

2. **206679134** SOLAR CELL PANEL'S BICYCLE BICYCLE BASKET IS EQUIPPED WITH

CN - 28.11.2017

Int.Class **B62J 9/00**  Appl.No 201720240182.1 Applicant WUXI U-SUN ENERGY DEVELOPMENT TECHNOLOGY CO., LTD. Inventor FU JIAN

The utility model relates to a **solar** cell panel's **bicycle** **bicycle** basket is equipped with installs in the front end of **bicycle**, including **car** rim and **bicycle** basket lid, the **bicycle** basket lid through hinged joint on **car** rim, the **bicycle** basket is covered the surface and is equipped with **solar** cell panel, is equipped with upper baffle in the **car** rim, the battery is equipped with to upper baffle bottom, **solar** cell panel **electricity** connection battery, the battery is through the **electric** wire connect to mobile interface that charges, the cell -phone charges the interface and installs on the upper baffle in **car** rim. The utility model discloses small convenient to use does not increase the holistic weight of **bicycle**, can charge to the cell -phone, can also provide the power for the plantago lamp.

3. **208430825** SOLAR ENERGY CHARGING PARKING SHED

CN - 25.01.2019

Int.Class **E04H 6/00**  Appl.No 201820443629.7 Applicant TIANJIN SINO-GERMAN UNIVERSITY OF APPLIED SCIENCES Inventor CAO BAOWEN

The utility model relates to the field of **solar** energy technology, especially, relate to a **solar** energy charging parking shed, including parking shed frame, **solar** cell panel, **electric** automobile charge mouthful, **electric** **bicycle** charges mouth, switch board, DC voltage -stabilizing module, battery, DC DC voltage regulating module, **solar** cell panel installs at the top of parking shed frame, is equipped with **car** parking stall and **electric** **bicycle** parking stall in the parking shed frame, and **car** parking stall and the correspondence of **electric** **bicycle** parking stall install that **electric** automobile charges mouthful, **electric** **bicycle** charges the mouth, does **solar** cell panel pass through DC voltage -stabilizing module and DC DC voltage regulating module is for **electric** automobile charges mouthful, **electric** **bicycle** charges the confession **electricity**, and the battery connects in parallel and carries out the floating charge at DC voltage -stabilizing module's output. **Electric** automobile and **electric** **bicycle** can also charge parking the in -process, carry out whole control and expense totally, convenient and fast through control system. Also can increase income through charging service in the parking area.

2. Using the Advanced search interface, build using the English abstract field, the following queries to retrieve documents:

b. About apparatus to measure blood pressure

EN_AB: ((blood BEFORE pressure) AND (measure NEAR (apparatus OR device)))

1. [20180110427](#) BLOOD PRESSURE MEASUREMENT APPARATUS, PORTABLE PRESSURE MEASUREMENT APPARATUS, AND CALIBRATION METHOD FOR BLOOD PRESSURE MEASUREMENT APPARATUS

US - 26.04.2018

Int.Class [A61B 5/021](#)  Appl.No 15493314 Applicant SAMSUNG ELECTRONICS CO., LTD. Inventor Jae Min Kang

A blood pressure measurement apparatus, a portable pressure measurement apparatus, and a calibration method for the blood pressure measurement apparatus are provided. The blood pressure measurement apparatus includes a pulse wave measurer configured to measure pulse wave data of a subject while a user pressurizes and depressurizes the blood pressure measurement apparatus, using a portable pressure measurement apparatus, and a communicator configured to receive pressure data that is applied to the blood pressure measurement apparatus during the pressurizing and the depressurizing of the blood pressure measurement apparatus, from the portable pressure measurement apparatus, the pressure data being measured by the portable pressure measurement apparatus. The blood pressure measurement apparatus further includes a processor configured to update a blood pressure estimation formula, based on the received pressure data and the measured pulse wave data.

2. [20200245878](#) BLOOD PRESSURE MEASUREMENT APPARATUS, PORTABLE PRESSURE MEASUREMENT APPARATUS, AND CALIBRATION METHOD FOR BLOOD PRESSURE MEASUREMENT APPARATUS

US - 06.08.2020

Int.Class [A61B 5/022](#)  Appl.No 16857698 Applicant SAMSUNG ELECTRONICS CO., LTD. Inventor Jae Min KANG

A blood pressure measurement apparatus, a portable pressure measurement apparatus, and a calibration method for the blood pressure measurement apparatus are provided. The blood pressure measurement apparatus includes a pulse wave measurer configured to measure pulse wave data of a subject while a user pressurizes and depressurizes the blood pressure measurement apparatus, using a portable pressure measurement apparatus, and a communicator configured to receive pressure data that is applied to the blood pressure measurement apparatus during the pressurizing and the depressurizing of the blood pressure measurement apparatus, from the portable pressure measurement apparatus, the pressure data being measured by the portable pressure measurement apparatus. The blood pressure measurement apparatus further includes a processor configured to update a blood pressure estimation formula, based on the received pressure data and the measured pulse wave data.

3. [20160150984](#) SPHYGMOMANOMETER SYSTEM

US - 02.06.2016

Int.Class [A61B 5/022](#)  Appl.No 14902918 Applicant HITACHI, LTD. Inventor Akihiko Kandori

The present invention provides a sphygmomanometer system, including a measurement device pressed against a predetermined part to be measured so that the part to be measured is held down, and a blood pressure measurement device to measure blood pressure based on information from the measurement device. The measurement device includes an average blood pressure detection unit to obtain information on pressure applied to the measurement device, and a blood pressure change amount detection unit to detect a minute change of the part to be measured when the blood pressure change amount detection unit contacts with the part to be measured. The processor of the blood pressure measurement device calculates the average blood pressure, the highest blood pressure, and the lowest blood pressure based on information on pressure obtained from the blood pressure change amount detection unit and the average blood pressure detection unit.

4. [WO/2018/072212](#) CALIBRATION METHOD FOR BLOOD PRESSURE MEASURING DEVICE, AND BLOOD PRESSURE MEASURING DEVICE

WO - 26.04.2018

Int.Class [A61B 5/00](#)  Appl.No PCT/CN2016/102947 Applicant HUAWAI TECHNOLOGIES CO., LTD. Inventor XU, Peida

A calibration method for a blood pressure measuring device, and a blood pressure measuring device. The method comprises: acquiring first blood pressure measurement information from the blood pressure measuring device [S401] and a current level of confidence corresponding to the first blood pressure measurement information [S402], the first blood pressure measurement information comprising a first systolic pressure value and/or a first diastolic pressure value; determining whether the blood pressure measuring device comprises a historical calibration parameter list [S403], the historical calibration parameter list comprising historical blood pressure calibration information and a historical level of confidence corresponding to the historical blood pressure calibration information; if the blood pressure measuring device comprises the historical calibration parameter list, and the current level of confidence is greater than or equal to a preset level of confidence, or is greater than or equal to the historical level of confidence, then confirming the first blood pressure measurement information to be the blood pressure calibration information of the blood pressure measuring device, and updating, on the basis of the first blood pressure measurement information and the current level of confidence, the historical calibration parameter list [S405]. The calibration method for the blood pressure measuring device and the blood pressure measuring device are used to ensure the accuracy of blood pressure measurement information and to avoid the use of an additional device for achieving calibration of the blood pressure measurement information.

2. Using the Advanced search interface, build using the English abstract field, the following queries to retrieve documents:

c. About electric vehicle or electric car with an application date between 2019 and 2021.

```
EN_AB:(electric AND (vehicle OR car)) AND AD: [2019 TO 2021]
```

1. [113734337](#) VEHICLE-MOUNTED MULTIFUNCTIONAL VEHICLE

CN - 03.12.2021

Int.Class [B62K 11/00](#)  Appl.No 202111065710.9 Applicant LIN JIALI Inventor LIN JIALI

The invention discloses a vehicle-mounted multifunctional vehicle. The vehicle-mounted multifunctional vehicle comprises an electric bicycle assembly, a flat car assembly and a battery, wherein the battery is detachably installed on the electric bicycle assembly, and a containing groove used for containing the electric bicycle assembly and the flat car assembly is formed in a trunk of an external vehicle; an auxiliary battery groove for containing a battery is further formed in a trunk or a front spare box of an external vehicle, the auxiliary battery groove is connected with an internal circuit of the vehicle, so when the battery is placed in the auxiliary battery groove, the battery serves as an auxiliary battery to supply power to the vehicle, and the electric bicycle assembly and the flat car assembly are detachably connected; and an electric bicycle or an electric flat car is formed by detaching the electric bicycle and the electric flat car. According to the vehicle-mounted multifunctional vehicle, through the arrangement of the electric bicycle assembly and the flat car assembly, a purpose that an electric bicycle is formed to move rapidly or an electric flat car is formed to carry goods can be effectively achieved.

2. [210763770](#) ELEVATOR CAR ARRESTING SYSTEM ALARM DEVICE

CN - 16.06.2020

Int.Class [B66B 5/00](#)  Appl.No 201921870436.0 Applicant ZHILIAN XINTONG TECHNOLOGY CO., LTD. Inventor TIAN CHANGLI

The utility model discloses an alarm device of an elevator car arresting system. The system comprises a vehicle sensing device arranged on the ground of a car door of an elevator and used for detecting an electric vehicle, and an alarm controller, wherein the alarm controller is connected with a lift car controller of the elevator, the vehicle sensing device is electrically connected with the alarm controller, and the alarm controller is used for sending a control signal to the lift car controller after the vehicle sensing device senses rolling information of the electric vehicle, so that a lift car door of the elevator is controlled to be normally opened. Beneficial effects are that: the method is suitable for large-scale production; the electric vehicle entering the elevator car is detected through the vehicle sensing device, when the electric vehicle is detected, an alarm is given through the alarm controller, meanwhile, the car door of the elevator is adjusted to be normally opened through the car controller, the electric vehicle is prevented from going upstairs along with the elevator, and fire hazards caused by charging of the electric vehicle in a corridor are eliminated fundamentally. Installation is convenient and fast, independent power supply is not needed, and normal elevator operation is not affected.

3. [112636477](#) POWER SUPPLY MODE AND POWER RECEIVING DEVICE OF ELECTRIC VEHICLE [CAR]

CN - 09.04.2021

Int.Class [H02J 50/00](#)  Appl.No 202010828706.2 Applicant LI XIONGYE Inventor LI XIONGYE

The invention discloses a power supply mode and a power receiving device of an electric vehicle [car]. The device comprises the electric vehicle [car], a battery pack and a power supply circuit, coils and iron cores are buried in a lane or other ground where the car runs and connected with the power supply circuit through an electronic switch to generate an alternating magnetic field, and the iron cores and the coils are mounted on the electric car or the electric vehicle. Rotatable iron core wheels are installed at the two ends of each iron core and can be put down to make contact with the two ends of the ground iron cores and form a transformer with the ground iron cores and the coils in a high-speed rotating, stopping or moving mode, the alternating magnetic field enables the two ends of the coils on the vehicle to generate electric energy, and electric power is provided for the running electric vehicle [car]. When the electric vehicle [car] runs on a lane with the device, the electric vehicle [car] is electrified, and the electric vehicle [car] does not need to be charged after being parked; and meanwhile, the iron cores, coils and iron core wheels can be installed on a goods van, a robot and mobile electrical equipment, the transformer is movably formed by the iron cores, the coils, the ground iron cores and the coils, and wireless power supply is achieved as well.

3. Using the Advanced search interface, build a query to retrieve PCT applications having licensing availability information and third party observation

3. Using the Advanced search interface, build a query to retrieve PCT applications having licensing availability information and third party observation

LI:1 AND TPO:1

✔ Please enter a valid field... [or use UP/DOWN keys, and TAB or ENTER to select]

thir

Third Party Observation

✔ Enter a value...

TPO:|

Yes

No

*

4. Using the Advanced search interface, build a query to retrieve documents having:

a. the key word solar or the combination of wind/turbine in the English description

a. cancer biomarker in the English description

EN_DE: (solar OR (wind AND turbine))

560,683 results Offices all Languages en Stemming true Single Family Member false Include NPL false



Sort: Relevance ▼ Per page: 10 ▼ View: All ▼

< 1 / 56,069 >

Machine translation ▼

1. [20140176337](#) SOLAR PANEL WIND TURBINE COMMUNICATION SERVER NETWORK APPARATUS METHOD AND MECHANISM

US - 26.06.2014

Int.Class [G08C 19/00](#) ⓘ Appl.No 13721118 Applicant Valin David Inventor Valin David

The method included herein is an alternative energy wireless solar panel wind turbine communication server appliance node mechanism with built in communications server array, wireless energy and communications mechanism with protection, sharing, storage, accessing, authentication, battery management, certification, processing attachment and tracking mechanisms. The method and mechanism is utilized via networked servers, solar panels, and wireless electronic devices (online and offline) as well as mobile (wireless) communications devices built into one waterproof, temperature, controlled self-sensing hardware package. The method and mechanism also works as part of a kilowatt hour banking system, and thermal passive solar control mechanism for living spaces.

2. [11035341](#) SYSTEM AND METHOD FOR RESTARTING A WIND TURBINE

US - 15.06.2021

Int.Class [F03D 7/02](#) ⓘ Appl.No 16864532 Applicant Dawn Emily Ottman Inventor Dawn Emily Ottman

A solar and wind energy collection system, wherein solar power is gathered to perform the task of restarting the wind turbine. The system includes a wind turbine assembly with the wind turbine assembly including a plurality of wind turbine blades, a control system, a wind turbine blade positioning motor, a support structure, a solar energy collecting system including a thin film solar amorphous silicon photovoltaic material secured to the wind turbine support structure, and a wind turbine blade positioning control system that is operatively connected to the solar energy collecting system and the wind turbine blade positioning motor.

3. [07932621](#) METHOD AND APPARATUS FOR AN INTEGRATED WIND-SOLAR ENERGY SYSTEM UTILIZING AN EXISTING WIND TURBINE INFRASTRUCTURE

US - 26.04.2011

Int.Class [H02J 3/02](#) ⓘ Appl.No 12661713 Applicant Spellman James Patrick Inventor Spellman James Patrick

The present invention provides a process and apparatus for an integrated wind-solar energy system utilizing an existing wind turbine infrastructure. This invention utilizes unused vertical space of an existing wind turbine steel support tower, and does not use the restricted ground around the wind turbine farm. Additionally, this invention uses the same electrical infrastructure as used for the wind turbine system. This invention provides a significant cost savings over other approaches. The present invention relates to a wind turbine support tower mounted solar system to increase the net electrical output using the existing wind turbine electrical circuits and transmission grid connection. The wind turbine energy support tower mounted solar array, pointed due South, provides about 25 KW of electrical energy per tower either as a Direct Current (DC) feed, or through an Alternate Current (AC) feed matching the wind turbine generator output needs, or directly to the wind turbine tower step-up transformer.

4. [2975109](#) SOLAR AND WIND ENERGY COLLECTION SYSTEM AND METHOD

CA - 05.11.2015

Int.Class [F03D 7/02](#) ⓘ Appl.No 2975109 Applicant LAVIGNE-OTTOMAN, DAWN Inventor LAVIGNE-OTTOMAN, DAWN

A solar and wind energy collection system, wherein solar power is gathered to perform the task of restarting the wind turbine. The system includes a wind turbine assembly with the wind turbine assembly including a plurality of wind turbine blades, a control system, a wind turbine blade positioning motor, a support structure, a solar energy collecting system including a thin film solar amorphous silicon photovoltaic material secured to the wind turbine support structure, and a wind turbine blade positioning control system that is operatively connected to the solar energy collecting system and the wind turbine blade positioning motor.

5. [WO/2015/168008](#) SYSTEM AND METHOD FOR RESTARTING A WIND TURBINE USING CLEAN ENERGY

WO - 05.11.2015

Int Class [F03D 7/02](#) ⓘ Appl No [PCT/US2015/027772](#) Applicant LAVIGNE OTTMAN Dawn Inventor LAVIGNE OTTMAN Dawn

EN_DE:("cancer biomarker")



8,983 results Offices all Languages en Stemming true Single Family Member false Include NPL false



Sort: Relevance ▼ Per page: 10 ▼ View: All ▼

< 1 / 899 >

Machine translation ▼

1. [20210348237](#) METHODS AND COMPOSITIONS FOR AIDING IN THE DETECTION OF LUNG CANCER

US - 11.11.2021

Int.Class [C12Q 1/8886](#) ⓘ Appl.No 17182142 Applicant 20/20 GeneSystems Inventor William James

A lung cancer biomarker panel comprising an microRNA (miRNA) lung cancer biomarker and at least one additional lung cancer biomarker selected from a tumor protein (TP) lung cancer biomarker and/or a autoantibody (AAB) lung cancer biomarker is provided herein and methods for screening patients for lung cancer. The present lung cancer biomarker panel provides an improvement in sensitivity and diagnostic accuracy for lung cancer as compared to a lung cancer biomarker panel without the miRNA biomarkers.

2. [WO/2018/143896](#) OVARIAN CANCER BIOMARKER

WO - 09.08.2018

Int.Class [G01N 33/574](#) ⓘ Appl.No PCT/SG2018/050049 Applicant AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH Inventor LIM, Sai Kiang

Described herein is a method of detecting ovarian cancer and monitoring, prognosing, choosing a therapy and determining the likelihood of success of a particular therapy in an individual suffering from ovarian cancer. The methods comprise detecting the level of expression, activity or amount of MMP9 polypeptide [GenBank Accession Number: NP_004985-2] in an Annexin V binding microparticle in a sample of or from an individual suspected to be suffering or is suffering from ovarian cancer, wherein the microparticle comprises microvesicles, exosomes, ectosomes or apoptotic bodies.

3. [20160369349](#) NOVEL LUNG CANCER BIOMARKER (LIPH)

US - 22.12.2016

Int.Class [C12Q 1/88](#) ⓘ Appl.No 14901578 Applicant EIKEN KAGAKU KABUSHIKI KAISHA Inventor Yasuhiro SEKI

[Problem to be Solved] To provide a new lung-cancer biomarker, which has a high detection efficiency and determines the type [histological type] of lung cancer.

[Solution] LIPH (lipase, member H), which is enhanced in a plurality of lung cancer-derived cell lines compared to that in normal lung-derived epithelial cells and is almost surely expressed highly in lung cancer.

4. [20080064047](#) METHODS FOR DIAGNOSIS AND PROGNOSIS OF EPITHELIAL CANCERS

US - 13.03.2008

Int.Class [G01N 33/53](#) ⓘ Appl.No 11829323 Applicant ZETTER BRUCE R Inventor Zetter Bruce R.

The present invention is based on the discovery that three proteins, Cystatin B, Chaperonin 10, and Profilin are present in the urine of patients with bladder cancer, a cancer of epithelial origin. Accordingly, the present invention is directed to methods for prognostic evaluation of cancers of epithelial origin and to methods for facilitating diagnosis of cancers of epithelial origin by monitoring the presence of these markers in biological samples. The invention is also directed to markers for therapeutic efficacy.

performed in the context of the standard blood work-up of the patient at a yearly physician visit with the standard blood work-up. Such a test needs to be able at least a moderate level of sensitivity and be amenable to serial testing with a high level of patient compliance. The best format for such a test that meets all of these requirements is a simple blood test.

At present, there is still a need for clinically relevant markers for non-invasive detection of lung disease including cancer, monitoring response to therapy, or detecting lung cancer recurrence. It is also clear that such assays must be highly specific with reasonable sensitivity, and be readily available at a reasonable cost. Circulating biomarkers offer an alternative to imaging with the following advantages: 1) they are found in a minimally-invasive, easy to collect specimen type (blood or blood-derived fluids), 2) they can be monitored frequently over time in a subject to establish an accurate baseline, making it easy to detect changes over time, 3) they can be provided at a reasonably low cost, 4) they may limit the number of patients undergoing repeated expensive and potentially harmful CT scans, and/or 5) unlike CT scans, biomarkers may potentially distinguish indolent from more aggressive lung lesions [see, e.g., Greenberg and Lee, *Opin Pulm Med*, 13:249-55 (2007)].

Existing biomarker assays include several serum protein markers such as CEA [Okada et al., *Ann Thorac Surg*, 78:216-21 (2004)], CYFRA 21-1 [Schneider, *Adv Clin Chem*, 42:1-41 (2006)], CRP [Siemes et al., *J Clin Oncol*, 24:5216-22 (2006)], CA-125 [Schneider, 2006], and neuron-specific enolase and squamous cell carcinoma antigen [Siemes et al., 2006]. Low sensitivity and specificity, with a significant number of false positive results due to benign pulmonary diseases have limited the application of these assays.

Circulating nucleic acids such as DNA and mRNA have also been evaluated as possible diagnostic markers for lung cancer. These studies are based on the observations that circulating nucleic acids show differential expression that is suggestive of cancer. [See, e.g., Bremnes et al., *Lung Cancer*, 49:1-12 (2005); Johnson et al., *Cell*, 120:635-47 (2005); Yanaiharu et al., *Cancer Cell*, 9:189-98 (2006); Chen et al., *Cell Res*, 18:997-1006 (2008); Fabbri et al., *Cancer J*, 14:1-8 (2008); Garofalo et al., *Oncogene*, 27:3845-55 (2008); Mitchell et al., *Proc Natl Acad Sci*, 105:10513-8 (2008); Schickel et al., *Oncogene*, 27:5959-74 (2008); Weiss et al., *Ann Oncol*, 19:1053-9 (2008); and Yu et al., *Cancer Cell*, 13:48-57 (2008).] The origin of free DNA in circulation is not completely understood, but they are thought to represent the stable remaining fraction from damaged [apoptotic, necrotic] tumor cells [Jahr et al., *Cancer Res*, 61:1859-65 (2001); Bianchi, *Placenta*, 25 Suppl A:S93-S101 (2004)].

Micro-RNAs (miRNAs) are part of a large class of short, non-coding RNAs that regulate expression of genes. They interact with messenger RNA (mRNA) by specific binding in an anti-sense mode, thus either inducing mRNA degradation, or inhibiting mRNA translation into protein. Biological feed-back loops occur, in which there is reciprocal inhibition of miRNA and the target mRNAs. miRNA expression profiles are associated with many malignancies including lung cancer, and in cancer cells specific oncogenes are regulated by certain miRNAs. This is a biological mechanism for control of gene expression at the mRNA level, in contrast to the functions of expressed cell signaling proteins, which can control both gene transcription and cell-cell interactions.

Several studies of mRNAs downregulated by miR-21 consistently identified target mRNAs encoding cell cycle checkpoints regulators, suggesting an important role for miR-21 in oncogenic RAS-induced cell proliferation [Markou, A., Y. Liang, and E. Lianidou, Prognostic, therapeutic and diagnostic potential of microRNAs in non-small cell lung cancer. *Clinical Chemistry & Laboratory Medicine*, 2011, 49(10): p. 1591-1603]. In 2008 a number of labs published findings that miRNAs circulate in a highly stable, cell-free form in the blood, and can be detected in plasma, serum and sputum [Chen, X., et al., Characterization of microRNAs in serum: a novel class of biomarkers for diagnosis of cancer and other diseases. *Cell Res*, 2008, 18(10): p. 997-1006; Mitchell, P. S., et al., Circulating microRNAs as stable blood-based markers for cancer detection. *Proceedings of the National Academy of Sciences*, 2008, 105(30): p. 10513-10518].

We herein describe lung **cancer biomarker** panels comprising at least one miRNA lung **cancer biomarker** and, at least one additional tumor protein (TP) lung **cancer biomarker** and/or autoantibody (AAB) lung **cancer biomarker** to be used for lung cancer screening, wherein the lung cancer panel provides improved sensitivity, specificity and diagnostic accuracy for lung cancer.

These and other advantages of the present invention may be better understood by referring to the following description, accompanying drawings and claims. This description of an embodiment, set out below to enable one to practice an implementation of the invention, is not intended to limit the preferred embodiment, but to serve as a particular example thereof. Those skilled in the art should appreciate that they may readily use the conception and specific embodiments disclosed as a basis for modifying or designing other methods and systems for carrying out the same purposes of the present invention. Those skilled in the art should also realize that such equivalent assemblies do not depart from the spirit and scope of the invention in its broadest form.

SUMMARY

The present disclosure provides processes for assessing the likelihood that a patient has lung cancer by measuring levels of lung **cancer biomarkers** in a sample from a patient. The measured lung **cancer biomarkers** comprise at least one microRNA (miRNA) lung **cancer biomarker** and at least one additional lung **cancer biomarker** selected from a tumor protein (TP) lung **cancer biomarker** and/or an autoantibody (AAB) lung **cancer biomarker**. A probability of cancer is then calculated from the measured lung **cancer biomarkers**, in aggregate, to determine the likelihood the patient has lung cancer. Inclusion of an miRNA lung **cancer biomarker** in the panel of measured biomarkers markedly increases the sensitivity, with a high specificity, for lung cancer.

In certain aspects the measured lung **cancer biomarkers** include miRNA and TP lung **cancer biomarkers**; miRNA and AAB lung **cancer biomarkers**; or miRNA, TP and AAB lung **cancer biomarkers**. The miRNA lung **cancer biomarkers** may be selected from Mir21, Mir126, Mir210 or Mir486. The TP and AAB lung **cancer biomarkers** may be selected from CEA, CA125, Cyfra 21-1, Pro-GRP, anti-NY-ESO-1, anti-p53, anti-Cyclin E2 and anti-MAPKAPK3.

BRIEF DESCRIPTION OF THE FIGURES

The numerous advantages of the present invention may be better understood by those skilled in the art by reference to the accompanying figures in which:

FIG. 1 shows sensitivity [at 80% specificity] and area under the curve [AUC] values for each biomarker measured as determined by a receiver operator characteristic [ROC] curve analysis for lung cancer in table format of each of the 10 lung **cancer biomarkers** measured.

FIG. 2 shows sensitivity [at 80% specificity] for lung cancer in bar graph format of each of the 10 lung **cancer biomarkers** measured.

FIG. 3 shows the area under the curve [AUC] values for each biomarker measured as determined by a receiver operator characteristic [ROC] curve analysis for all lung cancer vs. all non-cancer samples.

FIG. 4 shows a table for the seven groups of lung **cancer biomarkers** that were measured of their respective sensitivity [at 80% specificity] and area under the curve [AUC] values as determined by a receiver operator characteristic [ROC] curve analysis for lung

EN_DE:(cancer NEAR5 biomarker)



32,202 results Offices all Languages en Stemming true Single Family Member false Include NPL false



Sort: Relevance ▾ Per page: 10 ▾ View: All ▾

< 1 / 3,221 ▾ >

Machine translation ▾

1. [20210348237](#) METHODS AND COMPOSITIONS FOR AIDING IN THE DETECTION OF LUNG CANCER

US - 11.11.2021

Int.Class [C12Q 1/6886](#) Appl.No 17182142 Applicant 20/20 GeneSystems Inventor William James

A lung cancer biomarker panel comprising an microRNA [miRNA] lung cancer biomarker and at least one additional lung cancer biomarker selected from a tumor protein [TP] lung cancer biomarker and/or a autoantibody [AAB] lung cancer biomarker is provided herein and methods for screening patients for lung cancer. The present lung cancer biomarker panel provides an improvement in sensitivity and diagnostic accuracy for lung cancer as compared to a lung cancer biomarker panel without the miRNA biomarkers.

2. [WO/2018/143896](#) OVARIAN CANCER BIOMARKER

WO - 09.08.2018

Int.Class [G01N 33/574](#) Appl.No PCT/SG2018/050049 Applicant AGENCY FOR SCIENCE, TECHNOLOGY AND RESEARCH Inventor LIM, Sai Kiang

Described herein is a method of detecting ovarian cancer and monitoring, prognosing, choosing a therapy and determining the likelihood of success of a particular therapy in an individual suffering from ovarian cancer. The methods comprise detecting the level of expression, activity or amount of MMP9 polypeptide [GenBank Accession Number: NP_004985-2] in an Annexin V binding microparticle in a sample of or from an individual suspected to be suffering or is suffering from ovarian cancer, wherein the microparticle comprises microvesicles, exosomes, ectosomes or apoptotic bodies.

3. [20160369349](#) NOVEL LUNG CANCER BIOMARKER [LIPH]

US - 22.12.2018

Int.Class [C12Q 1/68](#) Appl.No 14901578 Applicant EIKEN KAGAKU KABUSHIKI KAISHA Inventor Yasuhiro SEKI

[Problem to be Solved] To provide a new lung-cancer biomarker, which has a high detection efficiency and determines the type [histological type] of lung cancer.

[Solution] LIPH [lipase, member H], which is enhanced in a plurality of lung cancer-derived cell lines compared to that in normal lung-derived epithelial cells and is almost surely expressed highly in lung cancer.

4. [20080064047](#) METHODS FOR DIAGNOSIS AND PROGNOSIS OF EPITHELIAL CANCERS

US - 13.03.2008

Int.Class [G01N 33/53](#) Appl.No 11829323 Applicant ZETTER BRUCE R Inventor Zetter Bruce R.

The present invention is based on the discovery that three proteins, Cystatin B, Chaperonin 10, and Profilin are present in the urine of patients with bladder cancer, a cancer of epithelial origin. Accordingly, the present invention is directed to methods for prognostic evaluation of cancers of epithelial origin and to methods for facilitating diagnosis of cancers of epithelial origin by monitoring the presence of these markers in biological samples. The invention is also directed to markers for therapeutic efficacy.

5. [WO/2016/176446](#) COLORECTAL CANCER SCREENING METHOD AND DEVICE

WO - 03.11.2016

Int.Class [C12Q 1/68](#) Appl.No PCT/US2016/029777 Applicant GENEOSCOPY, LLC Inventor BARNELL, Erica

Note: Text based on automatic Optical Character Recognition processes. Please use the PDF version for legal matters

[EN]

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation-in-part of International (PCT) Patent Application No. PCT/US2006/003049 filed on Jan. 30, 2006, which claims the benefit under 35 U.S.C. § 19(e) of U.S. Provisional Patent Application No. 60/648,110 filed Jan. 28, 2005; the contents of each application are incorporated herein by reference in their entirety.

GOVERNMENT SUPPORT

This work was supported by National Institute of Health grant number 2R37 CA37393. The government has certain rights to the invention.

BACKGROUND OF THE INVENTION

One of the most important factors in the survival of cancer is detection at an early stage. Clinical assays that detect the early events of cancer offer an opportunity to intervene and prevent cancer progression. With the development of gene profiling and proteomics there has been significant progress in the identification of molecular markers or "biomarkers" that can be used to diagnose and prognose specific cancers. For example, in the case of prostate cancer, the antigen PSA (for prostate specific antigen) can be detected in the blood and is indicative of the presence of prostate cancer. Thus, the blood of men at risk for prostate cancer can be quickly, easily, and safely screened for elevated PSA levels.

Even though there has been significant progress in the field of cancer detection, there still remains a need in the art for the identification of new biomarkers for a variety of cancers that can be easily used in clinical applications. For example, to date there are relatively few options available for the diagnosis of breast cancer using easily detectable biomarkers. Overexpression of EGFR, particularly coupled with down-regulation of the estrogen receptor, is a marker of poor prognosis in breast cancer patients. Other known markers of breast cancer include high levels of M2 pyruvate kinase (M2 PK) in blood (U.S. Pat. No. 6,358,633), high ZNF217 protein levels in blood (WO 98/02539), and differential expression of a newly identified protein in breast cancer, PDEBC, which is useful for diagnosis (U.S. patent application No. 20030124543). Cell surface markers such as CEA, CA-125 and HCG are frequently elevated in the serum of patients with locally advanced and metastatic bladder cancer (Izes et al., J Urol. Jun;165[6 Pt 1]: 1908-13, 2001), and studies involving circulating levels of tumor-related proteins such as matrix metalloproteinase-2 (Gohji et al., Cancer Research 56:3196, 1996), hepatocyte growth factor (Gohji et al., J. Clin. Oncol. 18:2963, 2000), and tissue polypeptide antigen (Maulard-Durdux et al., J. Clin. Oncol. 15:3446, 1997) have shown promise. These biomarkers offer alternative methods of diagnosis; however, they are not widely used. Furthermore, despite the use of a number of histochemical, genetic, and immunological markers, clinicians still have a difficult time predicting which tumors will metastasize to other organs.

The identification of cancer biomarkers is particularly relevant to improving diagnosis, prognosis, and treatment of the disease. As such, there is need in the art to identify alternative biomarkers that can be quickly, easily, and safely detected. Such biomarkers may be used to diagnose, to stage, or to monitor the progression or treatment of a subject with bladder cancer, in particular, an invasive, potentially metastatic stage of the disease.

SUMMARY OF THE INVENTION

The present invention is based on the surprising discovery that three proteins, Cystatin B, Chaperonin 10, and Profilin (also referred to as "epithelial cancer markers"), are present in the urine of patients with bladder cancer, a cancer of epithelial origin. Accordingly, the present invention is directed to methods for prognostic evaluation of cancers of epithelial origin and to methods for facilitating diagnosis of cancers of epithelial origin by monitoring the presence of these markers in biological samples. The invention is also directed to markers for therapeutic efficacy. In particular, the amount of Cystatin B detected in urine correlates with disease status such that Cystatin B levels can be used to predict the presence of invasive bladder cancer. Thus, measuring the level of Cystatin B, Chaperonin 10,

5. Using the Advanced search interface, build the following queries to retrieve documents:

- a. From the national collection of US, having electric bicycle in the English Claims and published between 2018 and now.
- b. Add IPC for *electricity*;
generation, conversion;
dynamoelectric machines

EN_CL:(electric NEAR4 bicycle) AND DP:[2018 TO 2022]

411 results Offices US Languages en Stemming true Single Family Member false Include NPL false



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Machine translation ▼

1. [20200346706](#) ELECTRIC BICYCLE HAVING A COMMUNICATION SYSTEM

US - 05.11.2020

Int.Class [B62J 45/20](#) Appl.No 18842923 Applicant MYSTRÖMER AG Inventor Dominic Isenschmid

An electric bicycle that has a communication system, including at least one electronic processing module for processing information for the rider of the electric bicycle, and at least one signal device for providing the processed information to the rider. To reduce safety risks due to the rider being distracted by his/her surroundings while riding the electric bicycle and to increase riding comfort, the at least one signal device is designed to output the information as a tactile, optical, and/or acoustic signal emitted by the electric bicycle in order to spontaneously influence the rider.

2. [20200216141](#) UPHILL SLOPE HOLD AND START ASSISTANCE FOR ELECTRIC VEHICLES

US - 09.07.2020

Int.Class [B60L 15/20](#) Appl.No 18244042 Applicant NEUTRON HOLDINGS, INC. Inventor Nihal Murthy

This disclosure generally relates to an electric vehicle. More specifically, this disclosure describes a motor control system for an electric vehicle that activates and deactivates a hill hold assist mode and a hill start assist mode for the electric vehicle. The hill hold assist mode is used to help ensure the electric vehicle remains stationary while stopped on an uphill incline. Likewise, the hill start assist mode is used to help a rider of the electric vehicle start the electric vehicle moving again once it is stopped on the uphill slope.

3. [20190176930](#) E-CLUTCH FOR PEDELEC BICYCLE

US - 13.06.2019

Int.Class [B62M 8/50](#) Appl.No 18185079 Applicant Flex Ltd. Inventor Christopher D. Wiegel

A pedal-electric bicycle utilizes an e-clutch to prevent a motor of the pedal-electric bicycle that is fixedly engaged to a drivetrain of the pedal-electric bicycle from resisting movement of the drivetrain when the motor is not transferring power to the drivetrain. The e-clutch causes the motor to operate at a minimum torque level to overcome the internal resistance thereof. The use of an e-clutch beneficially permits the elimination of a mechanical motor clutch, thus reducing complexity, cost, and weight of the pedal-electric bicycle.

4. [20200207442](#) ELECTRIC BICYCLES

US - 02.07.2020

Int.Class [B62M 8/90](#) Appl.No 18544520 Applicant Avant Enterprises, Inc. Inventor Ying Ye

Among others, the present invention provides electric bicycles each including a body frame; a front wheel and a rear wheel; an electric motor configured to provide a mechanical power to at least one of the front and rear wheels; and a battery box configured to removably receive and hold one or more lithium battery packs. The one or more lithium battery packs are configured to power the electric bicycle, and at least one lithium battery pack is capable of being used as a power supply of a separate lithium electric tool.

EN_CL:(electric NEAR4 bicycle) AND DP:[2018 TO 2022] AND IC:H02K



28 results Offices all Languages en Stemming true Single Family Member false Include NPL false



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< 1/3 >

Machine translation ▼

1. [20200079470](#) ELECTRIC BICYCLE MOTOR SYSTEM

US - 12.03.2020

Int.Class [B62M 6/70](#) Appl.No 16541130 Applicant Neal Saiki Inventor Neal Saiki

An electric motor bicycle system with an electric motor driven gear adapted to drive a wheel gear coupled to a bicycle hub. The motor driven gear is coupled to the wheel gear with a chain. The chain may be tensioned with one or more tensioners, which allow for a tighter system geometry. The motor may be supported with a bracket adapted to mount to industry standard disc brake mounting interfaces. In some aspects, the motor driven gear is coupled to the disc mounting interface of a wheel hub. In some aspects, the electric motor bicycle system may also have a disc brake system integrated therein.

2. [20210031873](#) GEARLESS POWER CONVERSION SYSTEM EMPLOYING TWO ELECTRIC MACHINES

US - 04.02.2021

Int.Class [B62M 6/55](#) Appl.No 16628521 Applicant Planet Rider, LLC Inventor David Calley

A human power conversion system incorporates two or more electric machines to aid in the powering of a vehicle through energy conversion. A first electric machine is coupled with the human powered input and acts as a generator when a human power input is not sufficient to produce electrical power that is provided to a second electric machine that propels the vehicle. The vehicle may be a bicycle and the first electric machine may be coupled to the crank. A bi-coupled electric machine including the first and second electric machines with a common rotor or stator may be employed and coupled to the crank and/or the driven wheel. Power produced by the first electric machine may be provided directly to the second machine or may be stored in a battery and used to propel the vehicle or power other electronic components.

3. [3790171](#) ELECTRIC BICYCLE MOTOR UNIT AND ELECTRIC BICYCLE

EP - 10.03.2021

Int.Class [H02K 5/00](#) Appl.No 19768472 Applicant PANASONIC IP MAN CO LTD Inventor NISHIMORI MASATO

Provided are a motor unit with improved heat dissipation capability for electric bicycles and an electric bicycle including such a motor unit. A motor unit [3] for use in electric bicycles includes a motor [5] and a unit case [4] to which the motor [5] is fitted. The motor [5] includes: a stator [53]; a rotor [52] arranged to be surrounded with the stator [53]; a rotary shaft [51] fixed to the rotor [52]; and a metallic cup [57] to house the stator [53] and the rotor [52] at least partially. An inner peripheral surface [570] of the metallic cup [57] is in pressure contact with the stator [53].

4. [20180342931](#) BICYCLE ELECTRIC POWER GENERATING DEVICE

US - 29.11.2018

Int.Class [H02K 1/27](#) Appl.No 15937682 Applicant SHIMANO (SINGAPORE) PTE. LTD. Inventor Chun Sing Tan

A bicycle electric power generating device includes a shaft member, a rotation body coaxially rotatable relative to the shaft member, an armature provided on one of the shaft member and the rotation body and a magnet having circumferentially arranged poles provided on the other one to rotate relative to the armature. The armature includes a first yoke with at least one first yoke pieces, a second yoke with at least one second yoke pieces, and a coil. The first and second yoke pieces are arranged parallel to an axis of the shaft member so as not to overlap with each other in a circumferential direction of the shaft member. The magnet includes a first magnet facing the first yoke pieces in a radial direction of the shaft member and a second magnet facing the second yoke pieces in the radial direction.

5. [3725658](#) ELECTRIC BICYCLE WITH ELECTRIC ENERGY STORAGE

EP - 21.10.2020

Int.Class [B62M 6/00](#) Appl.No 30180000 Applicant U.F.P.S.P.L. Inventor COCCETTI SILVANO

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EN_CL:(electric NEAR4 bicycle) AND DP:[2018 TO 2022] AND IC

Exact IPC code

International Class

International Class Inventive

International Class N-Inventive

Main International Class

All Classifications

Applicant Address

Applicant Address Country

Applicant All Data

Applicant Name

Applicant Nationality

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EN_CL:(electric NEAR4 bicycle) AND DP:[2018 TO 2022] AND IC:

A: HUMAN NECESSITIES

B: PERFORMING OPERATIONS; TRANSPORTIN

C: CHEMISTRY; METALLURGY

D: TEXTILES; PAPER

E: FIXED CONSTRUCTIONS

F: MECHANICAL ENGINEERING; LIGHTING; HE

G: PHYSICS

H: ELECTRICITY

*

✔

EN_CL:(electric NEAR4 bicycle) AND DP:[2018 TO 2022] AND IC:H

H: ELECTRICITY

H01: BASIC ELECTRIC ELEMENTS

H02: GENERATION, CONVERSION, OR DISTRIBUTION OF ELECTRIC POWER

H03: BASIC ELECTRONIC CIRCUITRY

H04: ELECTRIC COMMUNICATION TECHNIQUE

H05: ELECTRI

H99: SUBJECT

*

✔

EN_CL:(electric NEAR4 bicycle) AND DP:[2018 TO 2022] AND IC:H02

H02: GENERATION, CONVERSION, OR DISTRIBUTION OF ELECTRIC POWER

H02B: BOARDS, SUBSTATIONS, OR SWITCHING ARRANGEMENTS FOR THE SUPPLY OR DISTRIBUTION OF ELECTRIC POWER

H02G: INSTALLATION OF ELECTRIC CABLES OR LINES, OR OF COMBINED OPTICAL AND ELECTRIC CABLES OR LINES

H02H: EMERGENCY PROTECTIVE CIRCUIT ARRANGEMENTS

H02J: CIRCUIT ARRANGEMENTS OR SYSTEMS FOR SUPPLYING OR DISTRIBUTING ELECTRIC POWER; SYSTEMS FOR STORING ELECTRIC ENERGY

H02K: DYNAMO-ELECTRIC MACHINES

H02M: APPARATUS FOR CONVERSION BETWEEN AC AND AC, BETWEEN AC AND DC, OR BETWEEN DC AND DC, AND FOR USE WITH MAINS OR SIMILAR CONTROL OR REGULATION THEREOF

H02N: ELECTRIC MACHINES NOT OTHERWISE PROVIDED FOR

H02P: CONTROL OR REGULATION OF ELECTRIC MOTORS, ELECTRIC GENERATORS OR DYNAMO-ELECTRIC CONVERTERS; CONTROLLING TRANSFORMERS

H02S: GENERATION OF ELECTRIC POWER BY CONVERSION OF INFRA-RED RADIATION, VISIBLE LIGHT OR ULTRAVIOLET LIGHT, e.g. USING PHOTOVOLTAIC

6. Correct the queries below:

ZH_AB:(机器人 OR 机械手 OR 机器人车 OR OR 水下机器 OR 先人)

EN_DE:(electric* OR elect* OR suppor* OR supp* OR stan* OR stand* OR found* OR carr* OR carri*)

FP:(water OR fluid) AND (support AND electric) OR hydrosupport)

6. Correct the queries below:

ZH_AB:(机器人 OR 机械手 OR 机器人车 OR OR 水下机器 OR 先人)

EN_DE:(electric* OR elect* OR suppor* OR supp* OR stan* OR stand* OR found* OR carr* OR carri*)

FP:(water OR fluid) AND (support AND electric) OR hydrosupport)

Result list

4,418 results Offices all Languages all Stemming true Single Family Member false Include NPL false

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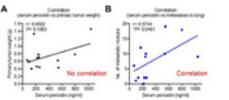
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1. [1020170097956](#) METHOD FOR SCREENING CANCER BIOMARKERS BY USING CAPILLARY WESTERN BLOT ASSAY KR - 29.08.2017

Int.Class [G01N 33/574](#) Appl.No 1020160019700 Applicant EWHA UNIVERSITY - INDUSTRY COLLABORATION FOUNDATION Inventor SHEEN, YHUN YHONG

The present invention relates to a method for screening [cancer biomarkers](#) or [cancer metastasis biomarkers](#) using capillary western blot assay. According to the present invention, [cancer biomarkers](#) or [cancer metastasis biomarkers](#) can be rapidly and precisely screened. Accordingly, the method can be used for developing [biomarkers](#) useful for initial diagnosis and clinical stage judgment of [cancer](#). COPYRIGHT KIPO 2017



2. [20150072890](#) METHODS AND COMPOSITIONS FOR AIDING IN THE DETECTION OF LUNG CANCER US - 12.03.2015

Int.Class [C12Q 1/68](#) Appl.No 14483503 Applicant William James Inventor William James

A lung [cancer biomarker](#) panel comprising an microRNA (miRNA) lung [cancer biomarker](#) and at least one additional lung [cancer biomarker](#) selected from a tumor protein (TP) lung [cancer biomarker](#) and/or a autoantibody (AAB) lung [cancer biomarker](#) is provided herein and methods for screening patients for lung [cancer](#). The present lung [cancer biomarker](#) panel provides an improvement in sensitivity and diagnostic accuracy for lung [cancer](#) as compared to a lung [cancer biomarker](#) panel without the miRNA biomarkers.



3. [WO/2020/160108](#) LIPID BIOMARKERS FOR CANCER SCREENING AND MONITORING WO - 06.08.2020

Int.Class [G01N 33/92](#) Appl.No PCT/US2020/015617 Applicant ARIZONA BOARD OF REGENTS ON BEHALF OF THE UNIVERSITY OF ARIZONA Inventor CHILTON, Floyd H.

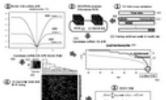
Provided herein are [biomarkers](#) for [cancer](#) screening and monitoring. In particular, provided herein are lipid [biomarkers](#) for [cancer](#) diagnosis, prognosis, risk, and response to treatment.



4. [WO/2017/099414](#) METHOD FOR DISCOVERY OF MICRORNA BIOMARKER FOR CANCER DIAGNOSIS, AND USE THEREOF WO - 15.06.2017

Int.Class [G06F 19/18](#) Appl.No PCT/KR2016/013975 Applicant LG ELECTRONICS INC. Inventor LEE, Jaehoon

The present invention relates to a method for discovery of a novel miRNA [biomarker](#) for [cancer](#) diagnosis, a [biomarker](#) for diagnosis of bile duct [cancer](#) or pancreatic cancer which has been discovered through the method for discovery of a [biomarker](#), a method for diagnosing [cancer](#), comprising a step in which cancer is diagnosed when $f(x) > 0$ by substitution of the expression level of the miRNA biomarker, which is detected by the method for discovery of an miRNA [biomarker](#) for cancer diagnosis, in a sample into a novel SVM classifier function, a kit for diagnosing bile duct [cancer](#) or pancreatic cancer comprising the [biomarker](#) for diagnosing bile duct [cancer](#) or pancreatic cancer, and a computing device for performing a process of diagnosing cancer when $f(x) > 0$ as a result of a calculation by substitution of the expression level of an miRNA biomarker, which is detected by the method for discovery of an miRNA biomarker for cancer diagnosis, into the novel SVM



EN_AB:(biomarker NEAR10 cancer)



4,418 results Offices all Languages all Stemming true Single Family Member false Include NPL false



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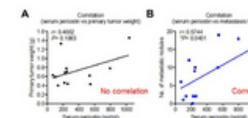
Download ▼ Machine translation ▼

1. [1020170097956](#) METHOD FOR SCREENING CANCER BIOMARKERS BY USING CAPILLARY WESTERN BLOT ASSAY

KR - 29.08.2017

Int.Class [G01N 33/574](#) ? Appl.No 1020160019700 Applicant EWHA UNIVERSITY - INDUSTRY COLLABORATION FOUNDATION Inventor SHEEN, YHUN YHONG

The present invention relates to a method for screening **cancer biomarkers** or **cancer metastasis biomarkers** using capillary western blot assay. According to the present invention, **cancer biomarkers** or **cancer metastasis biomarkers** can be rapidly and precisely screened. Accordingly, the method can be used for developing **biomarkers** useful for initial diagnosis and clinical stage judgment of **cancer**. COPYRIGHT KIPO 2017



2. [20150072890](#) METHODS AND COMPOSITIONS FOR AIDING IN THE DETECTION OF LUNG CANCER

US - 12.03.2015

Int.Class [C12Q 1/68](#) ? Appl.No 14483503 Applicant William James Inventor William James

A lung **cancer biomarker** panel comprising an microRNA (miRNA) lung **cancer biomarker** and at least one additional lung **cancer biomarker** selected from a tumor protein [TP] lung **cancer biomarker** and/or a autoantibody [AAB] lung **cancer biomarker** is provided herein and methods for screening patients for lung **cancer**. The present lung **cancer biomarker** panel provides an improvement in sensitivity and diagnostic accuracy for lung **cancer** as compared to a lung **cancer biomarker** panel without the miRNA biomarkers.



3. [WO/2020/160108](#) LIPID BIOMARKERS FOR CANCER SCREENING AND MONITORING

WO - 06.08.2020

Int.Class [G01N 33/92](#) ? Appl.No PCT/US2020/015617 Applicant ARIZONA BOARD OF REGENTS ON BEHALF OF THE UNIVERSITY OF ARIZONA Inventor CHILTON, Floyd H.

Provided herein are **biomarkers** for **cancer** screening and monitoring. In particular, provided herein are lipid **biomarkers** for **cancer** diagnosis, prognosis, risk, and response to treatment.

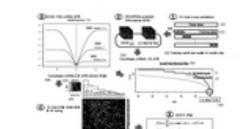


4. [WO/2017/099414](#) METHOD FOR DISCOVERY OF MICRORNA BIOMARKER FOR CANCER DIAGNOSIS, AND USE THEREOF

WO - 15.06.2017

Int.Class [G06F 19/18](#) ? Appl.No PCT/KR2016/013975 Applicant LG ELECTRONICS INC. Inventor LEE, Jaehoon

The present invention relates to a method for discovery of a novel miRNA **biomarker** for **cancer** diagnosis, a **biomarker** for diagnosis of bile duct **cancer** or pancreatic cancer which has been discovered through the method for discovery of a **biomarker**, a method for diagnosing **cancer**, comprising a step in which cancer is diagnosed when $f(x) > 0$ by substitution of the expression level of the miRNA biomarker, which is detected by the method for discovery of an miRNA **biomarker** for **cancer** diagnosis, in a sample into a novel SVM classifier function, a kit for diagnosing bile duct **cancer** or pancreatic **cancer** comprising the **biomarker** for diagnosing bile duct **cancer** or pancreatic cancer, and a computing device for performing a process of diagnosing cancer when $f(x) > 0$ as a result of a calculation by substitution of the expression level of an miRNA biomarker, which is detected by the method for discovery of an miRNA **biomarker** for **cancer** diagnosis, into the novel SVM



Feedback Goto Search Browse Tools **Settings**

SETTINGS

Query Office **Result** Interface Others

Result List Language: Query Language Result List View: All+Image

Analysis tab open

Analysis type: Table

Analysis graph: [dropdown]

No of Items/Group: 50

Download Fields

- Application Fields
- Application Number
- Application Date
- Publication Number
- Publication Date
- Country Code
- Title
- Abstract
- IPC
- Applicants
- Inventors
- Priority Data
- National Phase Entries
- Image

Group by *

- Countries
- Offices
- Applicants
- Inventors
- IPC code
- CPC code
- Publication Dates
- Filing Dates
- Kind code

Offices	Applicants	Inventors	IPC code	CPC code	Publication Dates	Kind code
PCT	922	NOVARTIS AG 73	ZHANG ZHEN 20	C12Q 2,733	c12q 2600/158 1,019	2008 147 A1 1,361
China	730	THE JOHNS HOPKINS UNIVERSITY 70	NAKAMURA YUSUKE 18	A61K 982	g01n 621	2009 179 B2 421
European Patent Office	607	DANA FARBER CANCER INSTITUTE INC 69	DAIGO YATARO 18	C12N 664	a61p 35/00 609	2010 186 B1 402
Canada	427	SOMALOGIC INC 60	GOLD, LARRY 18	C07K 574	c12q 520	2011 249 NPL 361
Republic of Korea	396	JEDDELOH JEFFREY A. 18	A61P 423	c12q 2600/118 472	2012 268	B 162

Exercises

1. Perform the following search to find documents containing in the English claims the keyword *bridge* and the keywords *vertical* or *horizontal*
 - a. Sort the results by publication date descending
 - b. Group the results by families
 - c. Include non-patent literature

ADVANCED SEARCH ▼

EN_CL:(bridge AND (vertical OR horizontal))

a. Sort the results by publication date descending

EN_CL:(bridge AND (vertical OR horizontal))

46,650 results Offices all Languages en Stemming true Single Family Member false Include NPL false

Sort: Relevance Per page: 10 View: All 1/4,665 Machine translation

- 1. [WO/2020/227290](#) CURTAIN WALL FRAME GASKETS** WO - 12.11.2020
Int.Class [E04B 2/98](#) Appl.No PCT/US2020/031471 Applicant ARCONIC TECHNOLOGIES LLC Inventor DOLBY, Jeffrey S.
A curtain wall system includes a vertical member and a horizontal member coupled to the vertical member at a joint. A vertical bridge gasket is coupled to the vertical member and includes a vertically-extending interior gasket, a vertically-extending thermal break gasket, and a vertical bridge member extending between the vertically-extending interior and thermal break gaskets. A horizontal bridge gasket is coupled to the horizontal member and joined to the vertical bridge gasket at a corner joint, the horizontal bridge gasket includes a horizontally-extending interior gasket, a horizontally-extending thermal break gasket, and a horizontal bridge member extending between the horizontally-extending interior and thermal break gaskets. The vertical and horizontal bridge gaskets cover the joint between the vertical and horizontal members.
- 2. [20220195727](#) CURTAIN WALL FRAME GASKETS** US - 23.06.2022
Int.Class [E04B 2/98](#) Appl.No 17601256 Applicant Arconic Technologies LLC Inventor Jeffrey S. DOLBY
A curtain wall system includes a vertical member and a horizontal member coupled to the vertical member at a joint. A vertical bridge gasket is coupled to the vertical member and includes a vertically-extending interior gasket, a vertically-extending thermal break gasket, and a vertical bridge member extending between the vertically-extending interior and thermal break gaskets. A horizontal bridge gasket is coupled to the horizontal member and joined to the vertical bridge gasket at a corner joint, the horizontal bridge gasket includes a horizontally-extending interior gasket, a horizontally-extending thermal break gasket, and a horizontal bridge member extending between the horizontally-extending interior and thermal break gaskets. The vertical and horizontal bridge gaskets cover the joint between the vertical and horizontal members.
- 3. [5535521](#) CHAIN SAW GUARD** US - 16.07.1996
Int.Class [B27B 17/02](#) Appl.No 08443092 Applicant ALCORN; DAVID M. Inventor Alcorn David M.
A guard for a portable chain saw is provided that will prevent injury from saw "kick-back" and will assist in preventing injuries from a moving saw blade. The chain saw guard can be easily adapted to conventional chain saws by the use of ordinary hand tools and includes a motor housing bracket and blade bridge, which is slidably directed along the saw blade by a pair of attached rods that are slidably mounted to the housing bracket. A slotted blade guide bar receives a bridge guide to stabilize a vertical bridge component, and a resilient spring returns the bridge to its original, extended posture along the blade.
- 4. [20100175205](#) SCAFFOLD ARRANGEMENT AND METHOD FOR REPAIRING THE EDGE STRUCTURE OF A CONCRETE BRIDGE** US - 15.07.2010
Int.Class [E01D 22/00](#) Appl.No 12597622 Applicant Moldtech Oy Inventor Jorkama-Lopez Tomas Alberto
A scaffold arrangement for repairing the edge structure of a concrete bridge. A steel-structured bent comprises a vertical beam that can be anchored by support members to the upper surface of the bridge. The vertical beam extends to a distance above the upper surface of the bridge. An upper horizontal beam is rigidly secured to the upper end of the vertical beam and the horizontal beam extends substantially transversely relative to the longitudinal direction of the bridge and over the edge of the bridge. A vertical column is secured to the end of the upper horizontal beam. The lower end of the vertical column extends down from the edge of the bridge. A lower horizontal beam is secured to the vertical column and extends in alignment with the upper horizontal beam. The lower horizontal beam comprises a first beam portion extending from the vertical column to a distance below the bridge so that mold walls can be fitted onto the first beam portion, and a second beam portion extending from the vertical column to an opposite direction relative to the first beam portion and supporting an access bridge. A longitudinally adjustable support bar is pivotally connected at one end to the first beam portion and at the other end is supportable against the lower surface of the bridge.

1. [WO/2022/147612](#) HALF-ROUND CARGO CONTAINER AND TRAILERInt.Class [B62D 33/04](#) ⓘ Appl.No PCT/CA2021/051900 Applicant TITAN TRAILERS INC. Inventor KLOEPFER, Christopher Howard

A half-round cargo container comprises a plurality of curved panels and has a longitudinal axis. Each curved panel has a cross-sectional profile in a plane perpendicular to the longitudinal axis, wherein the respective cross-sectional profiles of the curved panels have curved shapes with a common curvature. Adjacent pairs of the curved panels are joined at respective abutting longitudinal edges parallel to the longitudinal axis to form a semi-cylindrical shell. The half-round cargo container has a top opening.

WO - 14.07.2022

2. [20220219038](#) MODULAR FLOOR EXERCISE ASSEMBLYInt.Class [A63B 21/00](#) ⓘ Appl.No 17149212 Applicant Danny Wilson Inventor Danny Wilson

A modular floor exercise assembly for performing floor exercises includes a plurality of floor supports that is each removably attachable together to form a bridge-like structure that can be positioned on a support surface. A pair of cross members is each removably attachable between a respective pair of the floor supports. A handle unit is removably attachable to the cross members when the cross members are attached to the floor supports. Thus, the handle unit can be gripped by a user thereby facilitating the user to perform floor exercises such as a pushup. The handle unit is slidable along each of the cross members to facilitate the user to perform the floor exercises at a variety of different angles with respect to the support surface.

US - 14.07.2022

3. [WO/2022/150351](#) SYSTEM AND METHOD OF EVALUATING CELL CULTUREInt.Class [G01N 33/483](#) ⓘ Appl.No PCT/US2022/011267 Applicant EMMAUS MEDICAL, INC. Inventor OLIVA VILANA, Joan

Described herein is an apparatus for evaluating biological cell cultures. The apparatus comprises a housing and a controller coupled to the housing over a data bus. The housing comprises a light source to generate light, a collimator to collimate the light generated by the light source, a linear stage to actuate a cell culture dish including a biological cell culture in orthogonal directions, and a photodetector to receive the collimated light through the cell culture dish and the biological cell culture. The controller is configured to provide instructions to operate the light source, the linear stage, and the photodetector over the data bus.

WO - 14.07.2022

4. [20220219779](#) FORCE MEASUREMENT SENSOR FOR A CRANKSETInt.Class [B62M 6/50](#) ⓘ Appl.No 17604003 Applicant MAVIC SAS Inventor Jean-Pierre MERCAT

A crankset assembly to be mounted on a bicycle includes at least one right-hand bearing for mounting a crankset shaft and a force sensor positioned around the outer ring of the bearing. The force sensor includes a peripheral portion, a central portion, and a top frame connecting a top section of the peripheral portion to a top portion of the central portion. The frame is positioned at a diameter oriented along an axis [Y']. The axis [Y'] makes an angle [φ] of between 10° and 30° with the vertical axis [Y] and the top frame is positioned behind the vertical axis [Y].

US - 14.07.2022

5. [WO/2022/148899](#) HEAT SINK AS WELL AS ASSOCIATED DEVICES AND METHODSInt.Class [F21V 29/71](#) ⓘ Appl.No PCT/FI2021/050829 Applicant THERMAL CHANNEL TECHNOLOGIES OY Inventor PENTIKÄINEN, Vesa

According to an example aspect of the present invention, there is provided a heat sink [100] with an elongated inner core [110] and an elongated outer profile [120]. The profile [120] forms a cross-sectional periphery and is provided around and at a distance from the core [110] such

WO - 14.07.2022

- b. Group the results by families
- c. Include non-patent literature

EN_CL:(bridge AND (vertical OR horizontal))

46,650 results Offices all Languages en Stemming true **Single Family Member false** **Include NPL false**

Sort: Pub Date Desc ▾ Per page: 10 ▾ View: All ▾ 1 / 4.665 >

Machine translation ▾

- 1. [WO/2022/147612](#) HALF-ROUND CARGO CONTAINER AND TRAILER** WO - 14.07.2022
Int.Class [B62D 33/04](#) ? Appl.No PCT/CA2021/051900 Applicant TITAN TRAILERS INC. Inventor KLOEPFER, Christopher Howard
A half-round cargo container comprises a plurality of curved panels and has a longitudinal axis. Each curved panel has a cross-sectional profile in a plane perpendicular to the longitudinal axis, wherein the respective cross-sectional profiles of the curved panels have curved shapes with a common curvature. Adjacent pairs of the curved panels are joined at respective abutting longitudinal edges parallel to the longitudinal axis to form a semi-cylindrical shell. The half-round cargo container has a top opening.
- 2. [20220219038](#) MODULAR FLOOR EXERCISE ASSEMBLY** US - 14.07.2022
Int.Class [A63B 21/00](#) ? Appl.No 17149212 Applicant Danny Wilson Inventor Danny Wilson
A modular floor exercise assembly for performing floor exercises includes a plurality of floor supports that is each removably attachable together to form a bridge-like structure that can be positioned on a support surface. A pair of cross members is each removably attachable between a respective pair of the floor supports. A handle unit is removably attachable to the cross members when the cross members are attached to the floor supports. Thus, the handle unit can be gripped by a user thereby facilitating the user to perform floor exercises such as a pushup. The handle unit is slidable along each of the cross members to facilitate the user to perform the floor exercises at a variety of different angles with respect to the support surface.
- 3. [WO/2022/150351](#) SYSTEM AND METHOD OF EVALUATING CELL CULTURE** WO - 14.07.2022
Int.Class [G01N 33/483](#) ? Appl.No PCT/US2022/011267 Applicant EMMAUS MEDICAL, INC. Inventor OLIVA VILANA, Joan
Described herein is an apparatus for evaluating biological cell cultures. The apparatus comprises a housing and a controller coupled to the housing over a data bus. The housing comprises a light source to generate light, a collimator to collimate the light generated by the light source, a linear stage to actuate a cell culture dish including a biological cell culture in orthogonal directions, and a photodetector to receive the collimated light through the cell culture dish and the biological cell culture. The controller is configured to provide instructions to operate the light source, the linear stage, and the photodetector over the data bus.
- 4. [20220219779](#) FORCE MEASUREMENT SENSOR FOR A CRANKSET** US - 14.07.2022
Int.Class [B62M 8/50](#) ? Appl.No 17604003 Applicant MAVIC SAS Inventor Jean-Pierre MERCAT
A crankset assembly to be mounted on a bicycle includes at least one right-hand bearing for mounting a crankset shaft and a force sensor positioned around the outer ring of the bearing. The force sensor includes a peripheral portion, a central portion, and a top frame connecting a top section of the peripheral portion to a top portion of the central portion. The frame is positioned at a diameter oriented along an axis [Y]. The axis [Y] makes an angle [φ] of between 10° and 30° with the vertical axis [Y] and the top frame is positioned behind the vertical axis [Y].

- b. Group the results by families
- c. Include non-patent literature

EN_CL:(bridge AND (vertical OR horizontal))

46,650 results Offices all Languages en Stemming true Single Family Member false Include NPL false

REFINE OPTIONS

Offices: All

Languages: English

Stemming

Single Family Member

Include NPL

Close Search

Machine translation

WO - 14.07.2022

ved panels have curved shapes

US - 14.07.2022

s is each removably attachable perform floor exercises such as a

WO - 14.07.2022

3. [WO/2022/150351](#) SYSTEM AND METHOD OF EVALUATING CELL CULTURE

Int.Class [G01N 33/483](#) Appl.No PCT/US2022/011267 Applicant EMMAUS MEDICAL, INC. Inventor OLIVA VILANA, Joan

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WO - 14.07.2022

4. [20220219779](#) FORCE MEASUREMENT SENSOR FOR A CRANKSET

Int.Class [B62M 8/50](#) Appl.No 17604003 Applicant MAVIC SAS Inventor Jean-Pierre MERCAT

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US - 14.07.2022

EN_CL:(bridge AND (vertical OR horizontal))

38,259 results

Offices all

Languages en

Stemming true

Single Family Member true

Include NPL true



Sort: Pub Date Desc ▾ Per page: 10 ▾ View: All ▾

< 1 / 3,826 ▾ >

Machine translation ▾

1. [WO/2022/147612](#) HALF-ROUND CARGO CONTAINER AND TRAILER

WO - 14.07.2022

Int.Class [B62D 33/04](#) ⓘ Appl.No PCT/CA2021/051900 Applicant TITAN TRAILERS INC. Inventor KLOEPFER, Christopher Howard

A half-round cargo container comprises a plurality of curved panels and has a longitudinal axis. Each curved panel has a cross-sectional profile in a plane perpendicular to the longitudinal axis, wherein the respective cross-sectional profiles of the curved panels have curved shapes with a common curvature. Adjacent pairs of the curved panels are joined at respective abutting longitudinal edges parallel to the longitudinal axis to form a semi-cylindrical shell. The half-round cargo container has a top opening.

2. [20220219038](#) MODULAR FLOOR EXERCISE ASSEMBLY

US - 14.07.2022

Int.Class [A63B 21/00](#) ⓘ Appl.No 17149212 Applicant Danny Wilson Inventor Danny Wilson

A modular floor exercise assembly for performing floor exercises includes a plurality of floor supports that is each removably attachable together to form a bridge-like structure that can be positioned on a support surface. A pair of cross members is each removably attachable between a respective pair of the floor supports. A handle unit is removably attachable to the cross members when the cross members are attached to the floor supports. Thus, the handle unit can be gripped by a user thereby facilitating the user to perform floor exercises such as a pushup. The handle unit is slidable along each of the cross members to facilitate the user to perform the floor exercises at a variety of different angles with respect to the support surface.

3. [WO/2022/150351](#) SYSTEM AND METHOD OF EVALUATING CELL CULTURE

WO - 14.07.2022

Int.Class [G01N 33/483](#) ⓘ Appl.No PCT/US2022/011267 Applicant EMMAUS MEDICAL, INC. Inventor OLIVA VILANA, Joan

Described herein is an apparatus for evaluating biological cell cultures. The apparatus comprises a housing and a controller coupled to the housing over a data bus. The housing comprises a light source to generate light, a collimator to collimate the light generated by the light source, a linear stage to actuate a cell culture dish including a biological cell culture in orthogonal directions, and a photodetector to receive the collimated light through the cell culture dish and the biological cell culture. The controller is configured to provide instructions to operate the light source, the linear stage, and the photodetector over the data bus.

4. [20220219779](#) FORCE MEASUREMENT SENSOR FOR A CRANKSET

US - 14.07.2022

Int.Class [B62M 6/50](#) ⓘ Appl.No 17804003 Applicant MAVIC SAS Inventor Jean-Pierre MERCAT

A crankset assembly to be mounted on a bicycle includes at least one right-hand bearing for mounting a crankset shaft and a force sensor positioned around the outer ring of the bearing. The force sensor includes a peripheral portion, a central portion, and a top frame connecting a top section of the peripheral portion to a top portion of the central portion. The frame is positioned at a diameter oriented along an axis [Y']. The axis [Y'] makes an angle [φ] of between 10° and 30° with the vertical axis [Y] and the top frame is positioned behind the vertical axis [Y].

5. [WO/2022/148899](#) HEAT SINK AS WELL AS ASSOCIATED DEVICES AND METHODS

WO - 14.07.2022

Int.Class [F31M 00/71](#) ⓘ Appl.No PCT/EP2021/050900 Applicant THERMAL CHANNEL TECHNOLOGIES OY Inventor BENTIKÄINEN Vesa

Exercises

1. Perform the following search to find documents containing in the English claims the keyword *bridge* and the keywords *vertical* or *horizontal*
 - a. Narrow down by publication date: 2012
 - b. Narrow down by published examined patent application (2nd level)
 - c. To which collection/s do the results belong to?
 - d. Go back to the initial result list (keeping family info and NPL)
 - e. Add the column «offices», what is the difference between this new column and «countries»

a. Narrow down by publication date: 2012

EN_CL:(bridge AND (vertical OR horizontal))



3,259 results Offices all Languages en Stemming true Single Family Member true Include NPL true



ANALYSIS

Close

Filters Charts

Countries		Applicants		Inventors		IPC code		Publication Dates	
United States of America	17,382	INTERNATIONAL BUSINESS MACHINES CO	112	ALTEN KURT	42	H01L	1,486	2013	777
United Kingdom	11,312	HONDA MOTOR CO LTD	103	THEURER JOSEF	34	A61K	1,377	2014	801
PCT	3,810	SAMSUNG ELECTRONICS CO LTD	92	MESCHAN DAVID F.	23	B65D	1,354	2015	791
European Patent Office	3,019	GENERAL ELECTRIC COMPANY	86	DRENT EIT	18	B65G	1,327	2016	833
Canada	1,331	INFINEON TECH AG	84	SHERLOCK JOHN EDWARD	18	E04B	1,239	2017	817
India	448	INTEL CO	80	PHILIPP STOESEL	17	C07D	1,187	2018	885
Australia	336	SIEMENS AG	80	AMIR HOSSAIN PARHAM	15	E01D	1,088	2019	810
South Africa	185	MICRON TECH INC	79	LUCH DANIEL	15	G01N	759	2020	818
Israel	163	GEN ELECTRIC CO LTD	77	ANJA JATSCH	14	C08F	653	2021	902
Republic of Korea	135	EXXONMOBIL CHEMICAL PATENTS INC	74	OTREMBA RALF	14	H01H	639	2022	482

SETTINGS

Reset

Close

Query Office **Result** Download Interface

Result List Language
Default

Analysis tab open

Analysis type
Table

Analysis graph
bar

No of Items/Group
10

Group by *

- Countries
- Offices
- Applicants
- Inventors
- IPC code
- CPC code
- Publication Dates
- Filing Dates
- Kind code

a. Narrow down by publication date: 2012

EN_CL:(bridge AND (vertical OR horizontal))



38,259 results Offices all Languages en Stemming true Single Family Member true Include NPL true



ANALYSIS

Close

Filters Charts

Countries		Applicants		Inventors		IPC code		Publication Dates	
United States of America	17,382	INTERNATIONAL BUSINESS MACHINES CO	112	ALTEN KURT	42	H01L	1,486	2010	738
United Kingdom	11,312	HONDA MOTOR CO LTD	103	THEURER JOSEF	34	A61K	1,377	2011	780
PCT	3,810	SAMSUNG ELECTRONICS CO LTD	92	MESCHAN DAVID F.	23	B65D	1,354	2012	707
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Australia	338	SIEMENS AG	80	QING YANG	17	E01D	1,088	2016	833
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New Zealand	67	MERCK PATENT GMBH	71	OTREMBIA RALF	14	B63B	630	2020	818
Singapore	66	HON HAI PRECISION IND CO LTD	66	RAZAVI ABBAS	14	B62D	589	2021	902
Sweden	4	BAYER AG	62	DYLAN J. BODAY	13	G02C	582	2022	482

b. Narrow down by published examined patent application (2nd level)

EN_CL:(bridge AND (vertical OR horizontal))



38,259 results Offices all Languages en Stemming true Single Family Member true Include NPL true



ANALYSIS

Close

Filters Charts

Countries		Applicants		Inventors		IPC code		Publication Dates	
United States of America	17,382	INTERNATIONAL BUSINESS MACHINES CO	112	ALTEN KURT	42	H01L	1,486	2010	738
United Kingdom	11,312	HONDA MOTOR CO LTD	103	THEURER JOSEF	34	A61K	1,377	2011	780
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European Patent Office	3,019	GENERAL ELECTRIC COMPANY	88	DRENT EIT	18	B65G	1,327	2013	777
Canada	1,331	INFINEON TECH AG	84	SHERLOCK JOHN EDWARD	18	E04B	1,239	2014	801
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Republic of Korea	135	EXXONMOBIL CHEMICAL PATENTS INC	74	ANJA JATSCH	14	H01H	639	2019	810
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Singapore	66	HON HAI PRECISION IND CO LTD	66	RAZAVI ABBAS	14	B62D	589	2021	902
Sweden	4	BAYER AG	62	DYLAN J. BODAY	13	G02C	582	2022	482

SETTINGS

Reset

Close

Query Office **Result** Download Interface

Result List Language
Default

Analysis tab open

Analysis type
Table

Analysis graph
bar

No of Items/Group
10

Group by *

- Countries
- Offices
- Applicants
- Inventors
- IPC code
- CPC code
- Publication Dates
- Filing Dates
- Kind code

b. Narrow down by published examined patent application (2nd level)

EN_CL:(bridge AND (vertical OR horizontal))

38,259 results Offices all Languages en Stemming true Single Family Member true Include NPL true

ANALYSIS

Close

Filters Charts

Countries		Applicants		Inventors		IPC code		Publication Dates		Kind code	
United States of America	17,382	INTERNATIONAL BUSINESS MACHINES CO	112	ALTEN KURT	42	H01L	1,488	2010	738	B2	8,551
United Kingdom	11,312	HONDA MOTOR CO LTD	103	THEURER JOSEF	34	A61K	1,377	2011	780	A1	4,098
PCT	3,810	SAMSUNG ELECTRONICS CO LTD	92	MESCHAN DAVID F.	23	B65D	1,354	2012	707	B1	3,425
European Patent Office	3,019	GENERAL ELECTRIC COMPANY	88	DRENT EIT	18	B65G	1,327	2013	777	B	1,345
Canada	1,331	INFINEON TECH AG	84	SHERLOCK JOHN EDWARD	18	E04B	1,239	2014	801	C	417
India	448	INTEL CO	80	PHILIPP STOESEL	17	C07D	1,187	2015	791	A3	280
Australia	336	SIEMENS AG	80	QING YANG	17	E01D	1,088	2016	833	A4	109
South Africa	185	MICRON TECH INC	79	AMIR HOSSAIN PARHAM	15	G01N	759	2017	817	A2	81
Israel	163	GEN ELECTRIC CO LTD	77	LUCH DANIEL	15	C08F	653	2018	885	E	52
Republic of Korea	135	EXXONMOBIL CHEMICAL PATENTS INC	74	ANJA JATSCH	14	H01H	639	2019	810	B4	11
New Zealand	67	MERCK PATENT GMBH	71	OTREMBA RALF	14	B63B	630	2020	818	B8	11
Singapore	66	HON HAI PRECISION IND CO LTD	66	RAZAVI ABBAS	14	B62D	589	2021	902	E1	9
Sweden	4	BAYER AG	62	DYLAN J. BODAY	13	G02C	582	2022	482		

c. To which collection/s do the results belong to?

ANALYSIS

Close

Filters Charts

Countries		Applicants		Inventors		IPC code		Publication Dates		Kind code	
United States of America	339	BASF SE	6	ANDERBERG NILS-ERIK	2	A61K	32	2012-01	22	B2	360
Australia	21	MERCK PATENT GMBH	6	BURROUS THOMAS P.	2	H01L	28	2012-02	30		
		AU OPTRONICS CO	3	CHARLES T. WALLACE	2	C07D	27	2012-03	27		
		GENERAL ELECTRIC COMPANY	3	CHRIS K. LESER	2	B65D	18	2012-04	24		
		HUNTSMAN INTERNATIONAL LLC	3	CONDROSKI KEVIN RONALD	2	C08F	15	2012-05	35		
		INTERNATIONAL BUSINESS MACHINES CO	3	DANIEL O. DAVIS	2	C07F	12	2012-06	31		
		SAMSUNG DISPLAY CO LTD	3	JASON J. PALADINO	2	C09K	11	2012-07	33		
		THE BOEING COMPANY	3	JEFFREY A. MANN	2	E04B	11	2012-08	28		
		ANDERBERG NILS ERIK	2	KAMARAJ MALMURUGAN	2	C07C	10	2012-09	25		
		ARRAY BIOPHARMA INC	2	KIM CHANGHO	2	B01J	9	2012-10	31		
		BAYER INTELLECTUAL PROPERTY GMBH	2	KIM TAEGI	2	C08G	9	2012-11	39		
		BERRY PLASTICS CO	2	LEE JAE-YONG	2	C08L	9	2012-12	35		
		BOEHRINGER INGELHEIM INTERNATIONAL GMBH	2	LEE JEONG-YEOL	2	G01N	9				

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d. Go back to the initial result list (keeping family info and NPL)

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Countries		Applicants		Inventors		IPC code		Publication Dates		Kind code	
United States of America	339	BASF SE	6	ANDERBERG NILS-ERIK	2	A61K	32	2012-01	22	B2	360
Australia	21	MERCK PATENT GMBH	6	BURROUS THOMAS P.	2	H01L	28	2012-02	30		
		AU OPTRONICS CO	3	CHARLES T. WALLACE	2	C07D	27	2012-03	27		
		GENERAL ELECTRIC COMPANY	3	CHRIS K. LESER	2	B65D	18	2012-04	24		
		HUNTSMAN INTERNATIONAL LLC	3	CONDROSKI KEVIN RONALD	2	C08F	15	2012-05	35		
		INTERNATIONAL BUSINESS MACHINES CO	3	DANIEL O. DAVIS	2	C07F	12	2012-06	31		
		SAMSUNG DISPLAY CO LTD	3	JASON J. PALADINO	2	C09K	11	2012-07	33		
		THE BOEING COMPANY	3	JEFFREY A. MANN	2	E04B	11	2012-08	28		
		ANDERBERG NILS ERIK	2	KAMARAJ MALMURUGAN	2	C07C	10	2012-09	25		
		ARRAY BIOPHARMA INC	2	KIM CHANGHO	2	B01J	9	2012-10	31		
		BAYER INTELLECTUAL PROPERTY GMBH	2	KIM TAEGI	2	C08G	9	2012-11	39		
		BERRY PLASTICS CO	2	LEE JAE-YONG	2	C08L	9	2012-12	35		
		BOEHRINGER INGELHEIM INTERNATIONAL GMBH	2	LEE JEONG-YEOL	2	G01N	9				

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e. Add the column «offices»,

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Filters Charts

Countries		Applicants		Inventors		IPC code		Publication Dates		Kind code	
United States of America	339	BASF SE	6	ANDERBERG NILS-ERIK	2	A61K	32	2012-01	22	B2	360
Australia	21	MERCK PATENT GMBH	6	BURROUS THOMAS P.	2	H01L	28	2012-02	30		
		AU OPTRONICS CO	3	CHARLES T. WALLACE	2	C07D	27	2012-03	27		
		GENERAL ELECTRIC COMPANY	3	CHRIS K. LESER	2	B65D	18	2012-04	24		
		HUNTSMAN INTERNATIONAL LLC	3	CONDROSKI KEVIN RONALD	2	C08F	15	2012-05	35		
		INTERNATIONAL BUSINESS MACHINES CO	3	DANIEL O. DAVIS	2	C07F	12	2012-06	31		
		SAMSUNG DISPLAY CO LTD	3	JASON J. PALADINO	2	C09K	11	2012-07	33		
		THE BOEING COMPANY	3	JEFFREY A. MANN	2	E04B	11	2012-08	28		
		ANDERBERG NILS ERIK	2	KAMARAJ MALMURUGAN	2	C07C	10	2012-09	25		
		ARRAY BIOPHARMA INC	2	KIM CHANGHO	2	B01J	9	2012-10	31		
		BAYER INTELLECTUAL PROPERTY GMBH	2	KIM TAEGI	2	C08G	9	2012-11	39		
		BERRY PLASTICS CO	2	LEE JAE-YONG	2	C08L	9	2012-12	35		
		BOEHRINGER INGELHEIM INTERNATIONAL GMBH	2	LEE JEONG-YEOL	2	G01N	9				

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- CPC code
- Publication Dates
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- Kind code

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Countries		Offices		Applicants		Inventors		IPC code		Publication Dates		Kind code	
United States of America	17,382	United States of America	18,520	INTERNATIONAL BUSINESS MACHINES CO	112	ALTEN KURT	42	H01L	1,486	2010	738	A	21,856
United Kingdom	11,312	United Kingdom	11,404	HONDA MOTOR CO LTD	103	THEURER JOSEF	34	A61K	1,377	2011	760	B2	6,551
PCT	3,810	PCT	3,810	SAMSUNG ELECTRONICS CO LTD	92	MESCHAN DAVID F.	23	B65D	1,354	2012	707	A1	4,098
European Patent Office	3,019	European Patent Office	3,404	GENERAL ELECTRIC COMPANY	86	DRENT EIT	18	B65G	1,327	2013	777	B1	3,425
Canada	1,331	Canada	1,855	INFINEON TECH AG	84	SHERLOCK JOHN EDWARD	18	E04B	1,239	2014	801	B	1,345
India	448	China	804	INTEL CO	80	PHILIPP STOESSEL	17	C07D	1,187	2015	791	C	417
Australia	336	India	656	SIEMENS AG	80	QING YANG	17	E01D	1,088	2016	833	A3	280
South Africa	185	Republic of Korea	531	MICRON TECH INC	79	AMIR HOSSAIN PARHAM	15	G01N	759	2017	817	A4	109
Israel	163	Australia	352	GEN ELECTRIC CO LTD	77	LUCH DANIEL	15	C08F	653	2018	885	A2	81
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New Zealand	67	Germany	227	MERCK PATENT GMBH	71	OTREMBA RALF	14	B63B	630	2020	818	B4	11
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16.05.2022	RSS feed
10.05.2022	Operators ANDNOT NOT
03.05.2022	what s new may2022
26.04.2022	Download result list
19.04.2022	Crosslingual tool
12.04.2022	Contact
05.04.2022	NPL
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22.03.2022	covid19 Index

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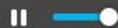
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