

PATENTSCOPE summer course

Session 4: chemical searches and combination of all the studied features

Session 4

- chemical searches and combination of all the studied features during summer course
- Session 3 & 4 repeated in August/September

Format

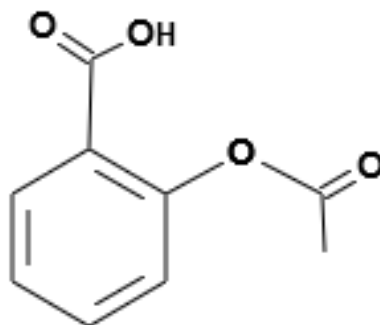
- Review theory
- Practical exercises in PATENTSCOPE <https://patentscope.wipo.int> :
 - a search query or question will be asked
 - a few minutes will be given to participants
 - answer will be provided
 - use the chat to ask question
- Q & A



Structure search - the concept

- Recognize names and structures of chemical compounds in patent texts and embedded drawings
- Standardize all the different representations of chemical structures into InChIkeys
- InChIkeys can be used by non chemists

Example: InChI – InChIKey for aspirin



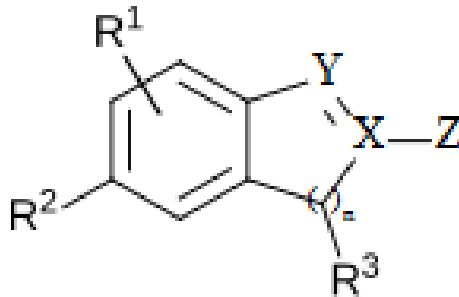
InChI:	InChI=1S/C9H8O4/c1-6(10)13-8-5-3-2-4-7(8)9(11)12/h2-5H,1H3,(H,11,12)
InChIKey:	BSYNRYMUTXBXSQ-UHFFFAOYSA-N

InChIKey = a fixed-length (27-character) condensed digital representation of an **InChI**

InChI = is a textual identifier developed to make it easy to perform web searches for chemical structures

Scope

- Works on **developed exact formulas** ≠ Markush structures (-R) that are chemical symbols used to indicate a collection of chemicals with similar structures.



Collections

- China [1996 -2021]
- European Patent Office [1978 -2021]
- Eurasian Patent Office [1998 -2021]
- Japan [1993 -2021]
- Republic of Korea [1980 -2021]
- PCT [1979 -2021]
- Russia [1995 -2021]
- United States [1979 -2021]

IPC codes

- A01N
- A01P
- A23J
- A61K
- A61L
- A61P
- A61Q
- B01J
- B01S
- C01B
- C01C
- C01D
- C01F
- C01G
- C06B
- C07B
- C07C
- C07D
- C07F
- C07H
- C07J
- C07K
- C08F
- C08G
- C08J
- C08K
- C08L
- C09B
- C09C
- C09D
- C09J
- C09K
- C10H
- C10L
- C10M
- C10N
- C11D
- C12C
- C12H
- C12M
- C12N
- C12P
- C12Q
- C13B
- C13K
- C14C
- C23C
- C25B
- C40B
- H05B
- G01N
- G03C

Fields

- Title
- Abstract
- Description
- Claim

Limitations

- Long automated procedures, no supervision
- Will not recognize 100%! Same drawbacks as the OCR
- Depends on OCR quality for PCT applications
- Does not work with simple formulas such H₂O
- Not all collections and related languages

Why is it useful?

- Terms such as “aspirin”, “paracetamol” not always used in patent documents
- Many ways of representing formulas
- Expansion of searches

How does it work?

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SIMPLE SEARCH

Using PATENTSCOPE you can search 77 million patent documents including 3.6 million published international patent applications (PCT). [Detailed coverage](#)
PCT Publication 43/2019 [24.10.2019] is now available. The next publication date is scheduled as follows: Gazette number 44/2019 [31.10.2019]. [More](#)
Help us improve PATENTSCOPE and prioritize the next steps by answering [this quick survey](#)

Field Front Page Search terms...

Query Examples

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Advanced Search
Field Combination
Cross Linguual Expansion
Chemical compounds

WIPO
WORLD
INTELLECTUAL PROPERTY
ORGANIZATION

4 options

CHEMICAL COMPOUNDS SEARCH ▾

Convert structure Structure editor SubStructure Upload structure

Search type
Compound name

Type an accepted name, commercial name, CAS name, IUPAC name

Search for scaffold

Offices
All

Reset

Show in editor

Exact Structure Search

Scaffold

- Basic skeleton of a molecule to which further groups and moieties are attached
- Secondary information is ignored
- ≠Markush
 - Markush = searches for a formula implicitly cited in a patent using a Markush formula
 - Scaffold = searches for formulas explicitly cited in patents

Upload a structure

Convert structure

Structure editor

SubStructure

Upload structure

Search type
Compound name



Type an accepted name, commercial name, CAS name, IUPAC name

Search for scaffold

Offices
All




Reset

Show in editor

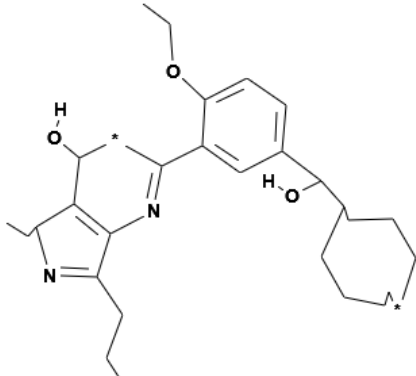
Exact Structure Search

Example

Convert structure Structure editor SubStructure Upload structure



chiral



InChI: InChI=1S/C28H40N2O3/c1-6-11-14-20[12-7-2]28[32]21-15-16-26[33-10-5]22[17-21]18-29-27-23[19-31]24[9-4]30-25[27]13-8-3/h15-17,19-20,24,28,31-32H,1-2,6-14H2,3-5H3
InChiKey: IJXUACSRGSIIDII-UHFFFAOYSA-N
Molecular Formula: C28H40N2O3
Molecular Weight: 0.0 g/mol

Search for scaffold

Offices
All

Reset Substructure Search Exact Structure Search Evaluate

JAL PROPERTY
ON

Structure editor

Convert structure | **Structure editor** | Sub Structure | Upload structure

chiral

Edit Bond
Delete Bond
Color

Edit Atom
Delete Atom
Expand Superatom
Contract Superatom

InChI: InChI=1S/C28H40N2O3/c1-6-11-14-20[12]-29-27-23[19-31]24[9-4]30-25[27]13-8-3/h15-17,19-20,24,28,31-32H,1-2,6-14H2,3-5H3
InChIKey: IJXUACSRGSIIDII-UHFFFAOYSA-N
Molecular Formula: C28H40N2O3
Molecular Weight: 0.0 g/mol

Search for scaffold

Offices
All

Reset | Substructure Search | Exact Structure Search | Evaluate

JAL PROPERTY
ON

Convert a structure

Convert structure | Structure editor | SubStructure | Upload structure

Search type
Compound name

Compound name

INN

InChI

SMILES

CAS name, IUPAC name

Reset | Show in editor | Exact Structure Search

Convert structure: aspirin

Convert structure Structure editor SubStructure Upload structure

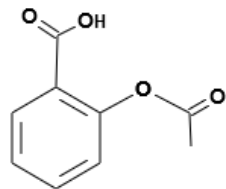
Search type
Compound name

Type an accepted name, commercial name, CAS name, IUPAC name
aspirin

Search for scaffold

Offices
All

Reset Show in editor Exact Structure Search



InChi: InChi=1S/C9H8O4/c1-6[10]13-8-5-3-2-4-7[8]9[11]12/h2-5H,1H3,[H,11,12]

InChiKey: BSYNRYMUTXBXSQ-UHFFFAOYSA-N

Molecular Formula: C9H8O4

Molecular Weight: 180.1598 G/mol

Search for scaffold

Offices

All

Reset

Substructure Search

Exact Structure Search

Evaluate

Results

CHEM:(BSYNRYMUTXBXSQ-UHFFFAOYSA-N)

177,411 results Offices All Languages All Stemming True

Analysis Sort: **Relevance** ▼ Per page: 10 ▼

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1. 104471403 CANCER DETECTION METHOD

CN - 25.03.2015

Int.Class G01N 33/574 ⓘ Appl.No 201380038351.5 Applicant 东丽株式会社 Inventor 井户隆喜

The present invention provides: a cancer detection method that includes measuring, in a biological sample and using an antigen-antibody reaction, of the expression of a polypeptide that has binding reactivity with an antibody against CAPRIN-1 having an amino acid sequence represented by any of the even sequence numbers from SEQ ID NO:2-30 in the sequence listing; a cancer detection method for determining the presence of CAPRIN-1 and the amount thereof in a cancer patient sample, in order to determine the administration, to the cancer patient, of therapeutic treatment that targets CAPRIN-1; and a cancer diagnostic agent or a kit containing an anti-CAPRIN-1 antibody.

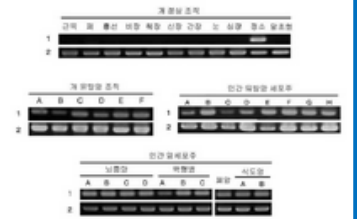


2. 1020150034688 암의 검출 방법

KR - 03.04.2015

Int.Class G01N 33/574 ⓘ Appl.No 1020147034434 Applicant 도레이 카부시키가이샤 Inventor 이도 타카요시

본 발명은 생체 시료에 있어서, 서열목록의 서열번호 2~30 중 짝수의 서열번호로 나타내어지는 어느 하나의 아미노산 서열을 갖는 CAPRIN-1에 대한 항체와 항원 항체 반응에 의해 결합하는 반응성을 갖는 폴리펩티드의 발현을 측정하는 것을 포함하는 암의 검출 방법, CAPRIN-1을 표적으로 하는 치료약의 암환자에의 투여를 결정하기 위해서 암환자 시료 중의 CAPRIN-1의 존재 및 그 양을 결정하는 암의 검출 방법, 및 항CAPRIN-1 항체를 포함하는 암 진단약, 키트를 제공한다.



3. 107530363 METHOD OF TREATING OR PREVENTION OF ATHEROTHROMBOTIC EVENTS IN PATIENTS WITH HISTORY OF MYOCARDIAL INFARCTION

CN - 02.01.2018

National Biblio. Data

Description

Claims

Drawings

Compounds

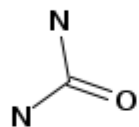
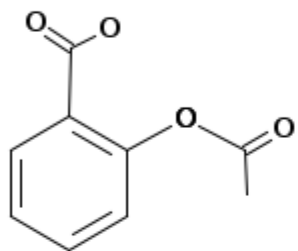
Documents

Title

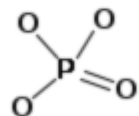
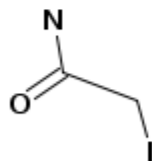
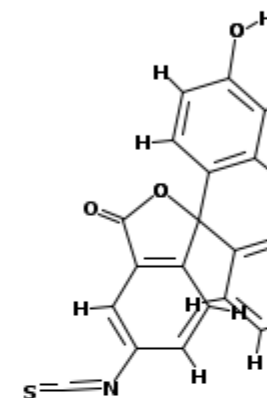
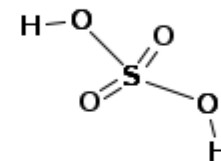
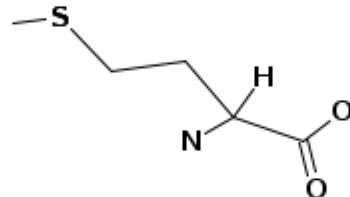
Abstract

Description

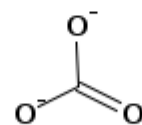
Claims



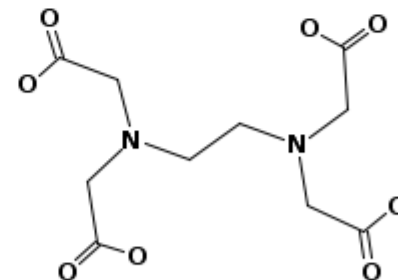
Methionine



Ca²⁺



Edetic acid



Na⁺ Cl⁻

본 발명은 CAPRIN-1을 종양 마커로 하는 암의 검출 방법에 관한 것이다.

배경기술

암은 전체 사망 원인의 제 1위를 차지하는 질환이고, 현재 행해지고 있는 치료는 수술 요법을 주체로 방사선 요법과 화학 요법을 조합시킨 것이다. 지금까지의 의료 기술의 진보에 의해, 암종에 따라서는 조기 발견할 수 있으면 고칠 수 있는 가능성이 높은 질환이 되고 있다. 그 때문에, 암환자의 체력적, 경제적 부담이 없고, 간편하게 검사할 수 있는 암의 검출 방법이 요구되고 있다.

최근에는, 종양 마커 등의 종양 생산물을 측정하는 방법이 보급되어 왔다. 종양 생산물이란, 종양에 관련되는 항원, 효소, 특정 단백질, 대사산물, 종양 유전자, 종양 유전자 생산물 및 종양 억제 유전자 등을 가리키고, 암 태아성 항원 CEA, 당 단백질 CA19-9, 전립선 특이 항원 PSA, 갑상선에서 생산되는 펩티드 호르몬인 칼시토닌 등이 일부의 암에서 종양 마커로서 암진단에 활용되고 있다. 그러나, 다른 많은 암종에 있어서는 암진단에 유용한 종양 마커는 존재하지 않는다. 또한, 현재 알려져 있는 종양 마커의 대부분은 체액 중에 극히 미량[pg/mL 오더 정도]밖에 존재하지 않기 때문에, 그들을 검출하기 위해서는 고감도한 측정법이나 특수한 기술을 필요로 한다. 이러한 현재 상황 중에서, 각종 암을 간편한 조작으로 고감도로 검출할 수 있는 신규한 암 검사 수단을 제공할 수 있으면, 각종 암에 대한 진단 용도가 열린다고 기대된다.

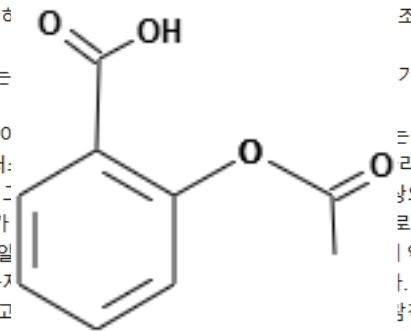
한편, 최근 새로운 수술법의 개발이나 새로운 항암제의 발견에도 불구하고, 일부 암을 제외하고 대부분의 암에서는 효과적인 암 진단 기술이 확립되어 있지 않다. 그러므로, 암을 조기에 발견할 수 없고, 암의 치료 성적은 그다지 향상되지 않은 것이 현재 상황이다.

최근, 분자생물학이나 암면역학의 진보에 의해, 암에 특이적으로 반응하는 항체나, 암화나 암의 악화에 관련되는 암 항원에 대한 분자 표적약 등, 암 항원류를 타깃으로 한 특이적 암 치료법에의 기대가 높아지고 있다. 그 중에서도, 암세포 상의 항원 단백질을 표적으로 한 암을 치료하기 위한 항체 의약이 복수 상시되어 암 치료에 사용되고 있다. 항체 의약은 암 특이적 치료약으로서 일정 약효를 얻을 수 있으므로 주목받고 있지만, 표적이 되는 항원 단백질의 대부분은 정상세포에도 발현되는 것이고, 항체 투여의 결과, 암세포뿐만 아니라 항원이 발현되는 정상세포도 장애되어버려, 그 결과 생기는 부작용이 문제가 되고 있다. 또한, 암환자에 의해 병인은 다양하기 때문에 암 치료의 효과는 개인차가 매우 크다. 예를 들면, 수술, 화학 요법 또는 방사선 요법에 있어서, 암의 진행 단계에 의해 그 치료 및 예후는 크게 좌우된다. 개체의 다양성에 의해, 동일한 암 치료약에 대해서도 개개인으로 다른 감수성을 가진다는 것이 알려져 있고, 어떤 환자에 유효한 약이 다른 환자에게도 유효하다고는 할 수 없다.

그래서, 미리 환자의 질환 관련 유전자나 단백질의 발현을 측정하고, 어떤 특정 약품이 특정 유전자 또는 단백질을 발현하고 있는 암환자에 대하여 유효할 것인지 아닌지를 평가한 후에, 그 암환자에의 치료약의 투여 결정이 이루어지고 있다. 구체적으로는, 어느 종류의 암에 대한 질환 관련 유전자나 단백질을 측정하는 검출법을 사용하여, 임상 현장에서 암환자 유래의 시료, 예를 들면 혈청이나 조직 중에 암 항원이 존재하는지 아닌지를 검사한 후에 암 항원 특이적인 치료약의 투여 결정이 이 조직을 면역 조직 화학 염색 EGFR 검출법 [EGFRpharm(DAKO Corporation)] 에 의해 평가하고, 대장암에 있어서의 열 조직화학 염색 Her2검출법 [허셉 테스트] 에 의해 평가하고, 유방암에 있어서의 허셉틴의 유효성을 예측한 후에,

그런데, 반려동물은 가족의 일원으로서 사육되고, 기르는 것이 알려져 있다.

대표적인 반려동물인 개는 인간과 비교하여 7배 빨리 나으
종 등의 혼합백신이 일반적으로 보급되고, 개 파보바이러스:
렙토스피라병이라는 치사율이 높은 감염증이 감소했다. 그
일로를 걷고 있다. 미국에서는 1년에 약 400만마리의 개가
기 때문에 발견이 늦어, 종양이 커지고 처음으로 주인이 일
때문에, 수의사가 악성이라고 판단했을 경우에는 수술하지
실시할 필요가 있다. 수술 후 즉시 항암제 치료를 시작하고
유전자나 단백질을 측정하는 검출법이 존재하면, 지금까지



가 많다. 그 때문에, 반려동물의 암 감염에 의해, 기르는 주인이 장래 암을 발병할 위험성이 높은 것을 예측할 수 있

는. 일본에서는 약 670만마리, 또한 미국에서는 약 1764만마리라고 알려져 있다. 광견병 예방접종 이외에 5종, 7종, 8
라인플루엔자(컨넬코프), 개 아데노바이러스 2형 감염증(컨넬코프), 개 전염성 간염, 개 코로나바이러스 감염증, 및
의 고령개는 전체 사육수의 35.5%를 차지하고 있다. 사망 원인도 인간과 같이 암이나 고혈압, 심장병 등이 증가하
로 약 160만마리에 어떤 종양이 있다고 알려져 있다. 그러나, 반려동물은 인간과 같이 건강진단이 보급되어 있지 않
| 악성인 경우, 수술 등의 외과적 요법이나 항암제 등의 투약을 행한다 해도, 이미 너무 늦은 경우가 대부분이다. 그
|. 수술을 행할 경우에도, 마진 확보의 크기나 수술 중의 혈액, 세포 비산 대책이라고 한 수술 중의 대책도 엄중하게
강적이다. 따라서, 암에 걸린 반려동물에 있어서도 암 치료약의 투약은 필수적이고, 어떤 종류의 암에 대한 질환관련
| 계도 수의사에 있어서도 메리트가 크다.

Cytoplasmic-and proliferation-associated protein 1[CAPRIN-1]은 휴지기의 정상세포가 활성화나 세포분열을 일으킬 때에 발현되고, 또한 세포내에서 RNA와 세포내 스트레스 과립을 형성하여 mRNA의 수송, 번역의 제
어에 관여하는 것 등이 알려져 있는 세포내 단백질이다. 한편으로, 본 발명자들은 유방암세포의 막 표면에 CAPRIN-1이 고발현하고 있는지, CAPRIN-1에 대한 항체가 유방암세포에 대하여 강한 항종양 효과를 발휘하
지를 밝혀냈다(특허문헌 1). 또한, 세포 표면에 발현하고 있는 CAPRIN-1에 결합하는 항체를 사용하여, 환자에 유래하는 시료 중의 CAPRIN-1의 발현을 측정함으로써, 암의 검출 및 암의 악성도를 평가할 수 있는 것이 보고
되고 있다 즉, 세포막 단백질의 하나인 CAPRIN-1은 암 치료 등의 타깃이 될 수 있는 것이 기재되어 있다. 한편 상술한 바와 같이, 암환자의 다양성으로부터 CAPRIN-1을 표적으로 한 치료약, 예를 들면 항체의 투여를 결정
하기 위해서는 미리 암환자 유래 시료 중의 CAPRIN-1의 발현을 검출할 필요가 있다. 그러나, 이와 같이 특이적인 치료약을 적용하기 위한 CAPRIN-1의 검출 방법에 관한 보고는 없고, 또한 암환자 시료를 사용한 암을 검
출하는 시약은 존재하지 않는다.

선행기술문헌

특허문헌

[특허문헌 0001] W02010/016526

[특허문헌 0002] W02010/016527

Example formula searching

- 4-(3-chloro-2-fluoroanilino)-7-methoxy-6-((1-(N-methylcarbamoylmethyl)piperidin-4-yl)oxy)quinazoline

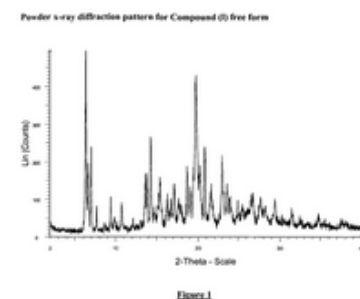
Search type Compound name	Type an accepted name, commercial name, CAS name, IUPAC name 4-[3-chloro-2-fluoroanilino]-7-methoxy-6-[[1-[N-methylcarbamoylmethyl]piperidin-4-yl]oxy]quinazoline
------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------

1. **2303276** FUMARATE SALT OF 4-[3-CHLORO-2-FLUOROANILINO]-7-METHOXY-6-[[1-[N-METHYLCARBAMOYLMETHYL]PIPERIDIN-4-YL]OXY]QUINAZOLINE

Int.Class A61K 31/517 ? Appl.No 09746098 Applicant ASTRAZENECA AB Inventor BOARDMAN KAY ALISON

4-[3-chloro-2-fluoroanilino]-7-methoxy-6-[[1-[N-methylcarbamoylmethyl]piperidin-4-yl]oxy]quinazoline difumarate, pharmaceutical compositions containing the difumarate, the use of the difumarate in the treatment of hyperproliferative disorders such as cancer and processes for the manufacture of the difumarate are described.

EP - 06.04.2011



2. **20120108814** PROCESS FOR THE PREPARATION OF 4-[3-CHLORO-2-FLUOROANILINO]-7-METHOXY-6-[[1-[N-METHYLCARBAMOYLMETHYL]PIPERIDIN-4-YL]OXY]QUINAZOLINE

Int.Class C07D 239/72 ? Appl.No 13264217 Applicant Boardman Kay Alison Inventor Boardman Kay Alison

Processes for the preparation of 4-[3-chloro-2-fluoroanilino]-7-methoxy-6-[[1-[N-methylcarbamoylmethyl]piperidin-4-yl]oxy]quinazoline, salts thereof, and the intermediates used in the process are described.

US - 03.05.2012

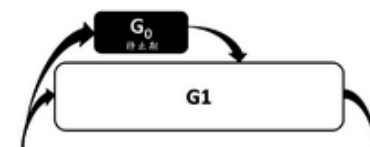


3. **109562176** COMBINATIONS FOR THE TREATMENT OF NEOPLASMS USING QUIESCENT CELL TARGETING AND EGFR INHIBITORS

Int.Class A61K 45/06 ? Appl.No 201780037696.7 Applicant FELICITEX THERAPEUTICS INC Inventor VILENCHIK MARIA

The present invention provides compositions and methods for the treatment of neoplasms, in particular, by targeting of quiescent cancer cells with therapeutic agents in combination with other treatments effective against certain neoplastic conditions, in particular, anti-cancer treatment with EGFR inhibitor agents.

CN - 02.04.2019



Sub-structure search – the concept

- Identification of elements in larger structures

Substructure search

Convert structure

Structure editor

SubStructure

Upload structure

Search type

Compound name

Type an accepted name, commercial name, CAS name, IUPAC name

copanlisib

Search for scaffold

Offices

All

Reset

Show in editor

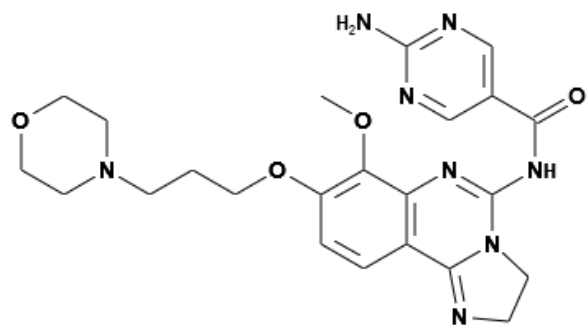
Exact Structure Search

Convert structure

Structure editor

SubStructure

Upload structure



InChI: InChI=1S/C23H28N8O4/c1-33-19-17(35-10-2-6-30-8-11-34-12-9-30)4-3-16-18(19)28-23(31-7-5-25-20(16)31)29-21(32)15-13-26-22(24)27-14-15/h3-4,13-14H,2,5-12H2,1H3,[H2,24,26,27](H,28,29,32)

InChIKey: PZBCKZWLPJMAO-UHFFFAOYSA-N

Molecular Formula: C23H28N8O4

Molecular Weight: 480.5278 G/mol

Search for scaffold

Offices

All

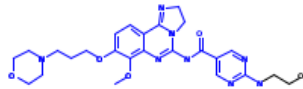
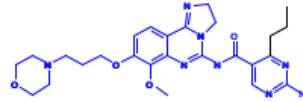
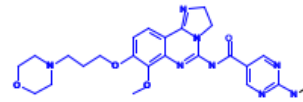
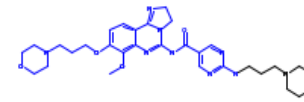
Reset

Substructure Search

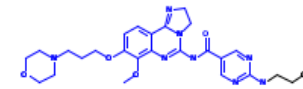
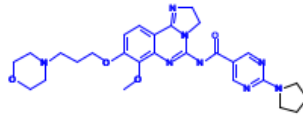
Exact Structure Search

Evaluate

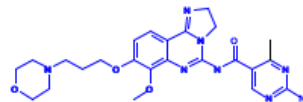
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BEMUPKPURPXIOV-
UHFFFAOYSA-NBYQRULUQVLMQBK-
UHFFFAOYSA-NGEPRBHREQZSKPV-
UHFFFAOYSA-N

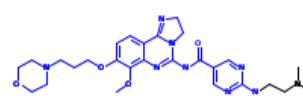
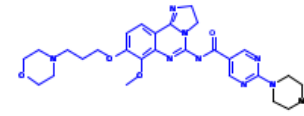
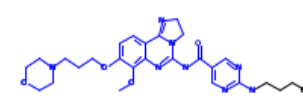
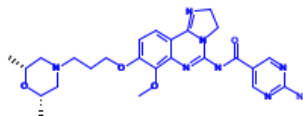
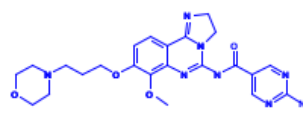
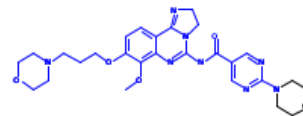
HPLTXEACLZILLB-UHFFFAOYSA-N

JLKWVDHZVRQTKD-
UHFFFAOYSA-N

JVNVQISIPQMGQT-UHFFFAOYSA-N



LIEXRQYJPIVUTI-UHFFFAOYSA-N

NAEZHLXJNJXOAL-
UHFFFAOYSA-NNCJVKJJBGMJLRZ-
UHFFFAOYSA-NNZOFGIMATUBYTC-
IYBDPMFKA-NPZBCKZWLPGJMAO-
UHFFFAOYSA-NZIDFUBHWWUXLRT-
UHFFFAOYSA-N[Show more...](#)



Exercise

- Question: what are the 2 earliest filing dates available in PATENTSCOPE for Ritonavir?

Ritonavir is an antiretroviral drug from the protease inhibitor class used to treat HIV infection and AIDS. Ritonavir is included in the WHO Model List of Essential Medicines (EML)1.

The originator company is Abbott Laboratories, which markets Ritonavir under the brand name Norvir, or in combination with the protease inhibitor Lopinavir, as Kaletra or Aluvia. The U.S. Food and Drug Administration (FDA) approved the drug in **March 1996** for oral solution and in June 1999 for capsules.

http://www.wipo.int/edocs/pubdocs/en/patents/946/wipo_pub_946.pdf

EN_ALL:(ritonavir)



31,925 results Offices all Languages all Stemming true Single Family Member false Include NPL false



ANALYSIS

Close

Filters Charts Timeseries

Countries		Offices		Applicants		Inventors		IPC code		CPC code		Filing Dates		Kind code	
United States of America	12,346	United States of America	14,693	HUMAN GENOME SCIENCES INC	851	RUBEN STEVEN M.	345	A61K	25,026	a61p	5,285	1994	1	A1	9,813
PCT	7,742	PCT	7,742	GILEAD SCIENCES INC	822	ROSEN CRAIG A.	329	A61P	11,354	a61k	5,166	1995	1	A	9,552
Australia	3,370	Canada	4,523	ROSEN, CRAIG, A.	245	ROSEN, CRAIG, A.	245	C07D	10,316	a61k 45/06	4,512	1996	66	B2	7,183
European Patent Office	2,895	European Patent Office	3,482	BRISTOL MYERS SQUIBB COMPANY	633	RUBEN, STEVEN, M.	245	C07K	5,192	a61p 43/00	4,186	1997	213	B1	2,439
Canada	2,694	Australia	3,380	ABBVIE INC	623	NI JIAN	163	C12N	3,303	a61p 31/18	3,867	1998	323	B	1,161
India	1,136	India	2,378	ASTRAZENECA AB	519	NI, JIAN	109	G01N	1,993	a61p 35/00	3,240	1999	413	C	1,052
New Zealand	394	China	2,186	MERCK SHARP AND DOHME CO	504	EBNER REINHARD	93	C12Q	1,930	a61p 31/12	2,853	2000	823	A3	152
Israel	317	Republic of Korea	1,666	NOVARTIS AG	482	SHI YANGGU	91	C07H	1,592	c07d	2,609	2001	999	A4	136
China	279	Israel	1,100	MERCK AND CO INC	449	BARASH STEVEN C.	83	C07C	1,469	a61p 29/00	2,026	2002	1,148	C1	109
South Africa	200	New Zealand	1,069	RUBEN STEVEN M	328	MOORE PAUL A.	81	A01N	1,128	a61p 31/00	1,782	2003	1,197	B8	68
Japan	132	Mexico	1,027	TIBOTEC PHARMACEUTICALS LTD	322	WANG TAO	75	C12P	966	a61p 31/14	1,660	2004	1,359	B9	49
Singapore	129	Russian Federation	723	EBNER, REINHARD	74	EBNER, REINHARD	74	C07F	822	c07k	1,563	2005	1,635	A2	44
Republic of Korea	112	Eurasian Patent Organization	639	KOMATSOU LIS, GEORGE	73	KOMATSOU LIS, GEORGE	73	A61L	581	c07d 471/04	1,553	2006	1,962	A9	39
United Kingdom	32	Japan	588	ROSEN CRAIG A	311	ZHANG ZHONGXING	73	A61M	566	a61p 25/00	1,521	2007	1,861	A8	21
				EMORY UNIVERSITY	309	OR YAT SUN	70	A61F	559	a61p 37/06	1,258	2008	1,845	T3	21

Convert structure

Structure editor

SubStructure

Upload structure

Search type
Compound name



Type an accepted name, commercial name, CAS name, IUPAC name
ritonavir|

Search for scaffold

Offices
All

Reset

Show in editor

Exact Structure

ANALYSIS

Close

Filters Charts

Countries		Offices		Applicants		Inventors		IPC code		Publication Dates		Filing Dates	
United States of America	10,331	United States of America	12,606	Human Genome Sciences, Inc.	366	Ruben Steven M.	328	A61K	22,637	1994	1	1993	5
PCT	6,805	Japan	7,231	HUMAN GENOME SCIENCES, INC.	336	Rosen Craig A.	309	A61P	11,272	1995	6	1994	7
Japan	4,047	PCT	6,805	BRISTOL-MYERS SQUIBB COMPANY	290	RUBEN, Steven, M.	249	C07D	9,524	1996	29	1995	44
China	2,759	China	4,132	ROSEN, Craig, A.	248	ROSEN, Craig, A.	248	C07K	4,565	1997	51	1996	66
European Patent Office	1,893	European Patent Office	2,381	Ni Jian	157	Ni Jian	157	C12N	3,188	1998	111	1997	184
Republic of Korea	768	Republic of Korea	2,053	RUBEN, Steven, M.	249	Shi Yanggu	92	C12Q	1,833	1999	145	1998	281
Eurasian Patent Organization	509	Canada	1,375	ROSEN, Craig, A.	248	Ebner Reinhard	88	G01N	1,765	2000	392	1999	368
Russian Federation	268	India	1,068	ASTRAZENECA AB	239	Moore Paul A.	82	C07C	1,459	2001	540	2000	876
		Eurasian Patent Organization	1,056	Gilead Sciences, Inc.	219	BARASH, Steven, C.	70	C07H	1,426	2002	902	2001	890
		Russian Federation	874	NOVARTIS AG	195	NI, Jian	69	C12P	1,057	2003	1,113	2002	1,095
		Mexico	804	MERCK SHARP & DOHME CORP.	191	Meanwell Nicholas A.	68	A01N	974	2004	1,014	2003	1,130
				AbbVie Inc.	189	Barash Steven C.	67	C07F	786	2005	1,212	2004	1,284
								A61L	522	2006	1,222	2005	1,609

Can I search?

- CAS name
- Enantiomer
- Monomer
- Stereoisomer
- Transition metal complex like cisplatin
- Antibody sequence
- Compound within genus
- Inorganic cluster
- Intermediate and impurity search
- Metal-organic framework
- Peptide
- Polymer
- Polymorphs
- Poly(vinyl alcohol)
- Protein sequences
- Reaction search
- Table that contains structures



Exercise

- How do you search this CAS number in PATENTSCOPE: CAS83-88-5?

Exercise: search CAS number

■ CAS83-88-5

ADVANCED SEARCH ▾



CHEM:(CAS83x88x5)

Query Assistant [Query Examples](#)

本发明还提供了所述洗手液在日化用品中的应用。

优选的，所述日化用品为洗手巾，所述洗手液吸附于所述洗手巾上。

优选的，所述洗手液通过喷涂或浸泡的方法吸附至所述洗手巾上。

进一步的，所述洗手巾为棉浆纸、木浆纸或无纺布中的一种制成。

本发明中各组分的性质如下：

维生素B1，化学式 $C_{12}H_{16}N_4OS \cdot HCl$ ，为白色晶体，在有氧化剂存在时容易被氧化产生脱氢硫胺素，后者在有紫外光照射时呈现蓝色荧光。

维生素B2，化学式： $C_{17}H_{20}N_4O_6$ ，又叫核黄素，微溶于水，CAS号：83-88-5；为体内黄酶类辅基的组成部分，当缺乏时，就影响机体的生物氧化，使代谢发生障碍。

维生素C，化学式 $C_6H_8O_6$ ，又称L-抗坏血酸，为酸性己糖衍生物，是稀醇式己糖酸内酯，是高等灵长类动物与其他少数生物的必需营养素。

十二烷基硫酸钠，白色或淡黄色粉状，溶于水，对碱和硬水不敏感，CAS号：83-88-5，在日化行业用作乳化剂、灭火剂、发泡剂及纺织助剂，主要用作牙膏和膏状、粉状、洗发香波的发泡剂。

丙三醇，俗称甘油，是无色味甜澄明黏稠液体，无臭、有暖甜味，CAS号：56-81-5，在日化行业可用作软化剂、润滑剂或塑化剂。可与水以任何比例互溶，低浓度丙三醇溶液可做润滑油对皮肤进行滋润。

羧甲基纤维素钠，又名羧甲基纤维素钠盐，为白色纤维状或颗粒状粉末。无臭、无味、无味、有吸湿性，不溶于有机溶剂。CAS号：9004-32-4，在日用化学工业中用作黏结剂、抗再沉凝剂。

羊毛脂，是附着在羊毛上的一种分泌油脂，为淡黄色或棕黄色的软膏状物；有黏性而滑腻；臭微弱而特异。CAS号：8006-54-0，羊毛脂在氯仿或乙醚中易溶，在热乙醇中溶解，在乙醇中极微溶解。日用化学工业制造防裂膏、冷霜、高级香皂，对保护皮肤防止裂口具有特殊的效能。

硬脂酸钠，又名十八酸钠，为白色细微粉末或块状固体，CAS号：822-16-2，有滑腻感，有脂肪味，在空气中有吸水性。微溶于冷水，溶于热水或醇溶液，水溶液因水解而呈碱性。在日用化学工业中用作洗涤剂，用于控制漂洗过程中的泡沫。

本发明的有益效果为：



Exercise

1. Search aspirin in the chemical field
2. Combine it with keywords antipyretic and analogue using wildcards in the English text

CHEMICAL COMPOUNDS SEARCH ▼

[Convert structure](#)

[Upload structure](#)

[Structure editor](#)

[Found compounds](#)

[Found Markush Formulas](#)

Search type

Compound name



Type an accepted name, commercial name, CAS name, IUPAC name

aspirin

Search for scaffold

Include enumerated Markush structures

Offices

All



Reset

Show in editor

Exact Structure Search

CHEM:(BSYNYRYMUTXBXSQ-UHFFFAOYSA-N)

AND EN_ALLTXT:(antipyre* OR analog*)



197,952 results Offices all Languages all Stemming true Single Family Member false Include NPL false



Sort: Relevance ▼ Per page: 100 ▼ View: All+Image ▼

1 / 1,980

Download ▼ Machine translation ▼

1. **2017207510** DUAL ANTI-PLATELET MEDICATION/ASPIRIN RESPONSE AND REACTIVITY TEST USING SYNTHETIC COLLAGEN

JP - 24.11.2017

Int.Class [G01N 33/49](#) ? Appl.No 2017145031 Applicant JNC CORP Inventor WILLIAM M TROLIO

PROBLEM TO BE SOLVED: To provide methods of determining anti-platelet medication sensitivity of platelets of an individual without using an animal-derived collagen as an agonist when the individual is on a dual anti-platelet therapy of aspirin and anti-platelet medication.

MEANS: A method of determining anti-platelet medication sensitivity of platelets of an individual who is on a dual anti-platelet therapy of aspirin and anti-platelet medication is provided, which involves performing a Light Transmission Aggregometry Assay (LTAA) using synthetic self-assembling human type I collagen containing a polypeptide having a peptide fragment represented by a formula [I], where X represents Hyp, and n represents an integer in a range of 20 to 250.

SELECTED DRAWING: None

COPYRIGHT: [C]2018.JPO&INPIT

NO
IMAGE
AVAILABLE

2. **2015528567** 合成コラーゲンを用いる二重抗血小板薬／アスピリン応答および反応性試験

JP - 28.09.2015

Int.Class [G01N 33/49](#) ? Appl.No 2015526605 Applicant JNC株式会社 Inventor ウィリアム, エム. トロリオ

本発明は、合成自己組織化ヒトI型コラーゲンを用い、光透過型凝集測定アッセイ(LTAA)またはフローサイトメトリーを用いることなどによる機能性血小板凝集を測定する試験、個人がアスピリンと抗血小板薬との二重抗血小板療法を受けている場合に個人の血小板の抗血小板薬感受性および残留血小板活性状態を予測ならびに測定する方法、ならびに、これらのアッセイおよび方法において有用であるキットを提供する。

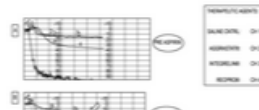
NO
IMAGE
AVAILABLE

3. **WO/2014/025685** DUAL ANTI-PLATELET MEDICATION/ASPIRIN RESPONSE AND REACTIVITY TEST USING SYNTHETIC COLLAGEN

WO - 13.02.2014

Int.Class [C12Q 1/56](#) ? Appl.No PCT/US2013/053612 Applicant JNC CORPORATION Inventor TROLIO, William M.

The present invention provides tests that measures functional platelet aggregation such as by using Light Transmission Aggregometry Assays [LTAA] or flow cytometry, using synthetic, self-assembling human type I collagen, methods of predicting and measuring an individual's platelet anti-platelet medication sensitivity and residual platelet activity status when the individual is on a dual anti-platelet therapy of aspirin and anti-platelet medication and kits useful in the assays and methods.



CHEM:(BSYNYRMUTXBXSQ-UHFFFAOYSA-N) AND EN_ALLTXT:(antipyre* OR analog*)



77,055 results Offices all Languages all Stemming true Single Family Member false Include NPL false



Sort: Relevance ▼ Per page: 100 ▼ View: All+Image ▼

< 1/771 >

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1. **2027860** THE USE OF NICOTINE, **ANALOGUES** THEREOF, PRECURSORS THEREOF OR DERIVATIVES THEREOF IN THE TREATMENT OF VARIOUS PATHOLOGICAL PROCESSES CAPABLE OF IMPROVEMENT WITH ALPHA-MSH ADMINISTERED IN PROPHYLACTIC OR THERAPEUTIC FORM

EP - 25.02.2009

Int.Class [A61K31/465](#) Appl.No 06747531 Applicant SOLIS HERRERA ARTURO Inventor SOLIS HERRERA ARTURO

This invention protects the use of nicotine, **analogues** thereof precursors thereof or its derivatives for treatment of inflammatory, infectious, candidal or degenerative (of the joints and/or of the central nervous system, of kidneys, the lungs, liver), depression, obesity, bone disease and the like, which can be improved by means of intensification of the actions of \pm -MSH, given the fact that these hormones are extraordinary properties: e.g. it has an **antipyretic** potency 20,000 times as great as acetaminophen, its antimicrobial potency, is comparable to gentamycin, it is the best anticandidiasis known; it inhibits apoptosis of various stem cells, and significantly modulates the immune reactions, and therefore the use of agents that affect its release may have significant therapeutic potential. This patent protects the use of nicotine, **analogues** thereof, precursors thereof or its derivatives for the purpose of increasing and/or reducing the bioavailability of \pm -MSH in blood and/or central or peripheral tissues to accentuate or diminish the effect of the \pm -MSH by means of changes in its concentration or its effect on the corresponding receptors of any cell, tissue or organ in the body, administered for therapeutic and/or prophylactic purposes in the short medium and/or long term.

NO
IMAGE
AVAILABLE

2. **WO/2003/051300** METAL COMPLEXES AND FORMULATIONS OF RIFAMYCIN **ANALOGUES** AND USES THEREOF

WO - 26.06.2003

Int.Class [A61K9/08](#) Appl.No PCT/US2002/039888 Applicant ACTIVBIOTICS, INC. Inventor MICHAELIS, Arthur, F.

The invention features compositions that include rifamycin **analogues** formulated with metal salts, metal complexes of rifamycin **analogues**, and methods for treating disease using these compositions.

NO
IMAGE
AVAILABLE

3. **4812446** PHARMACEUTICAL PRODUCTS PROVIDING ENHANCED ANALGESIA

US - 14.03.1989

Int.Class [A61K31/13](#) Appl.No 07074655 Applicant The Procter & Gamble Company Inventor Brand Larry M.

An analgesic composition comprising capsaicin or a capsaicin **analogue** and an analgesic selected from the class of non-steroidal anti-inflammatory, **antipyretic** and analgesic drugs is disclosed. This combination has been found to exhibit unexpectedly enhanced analgesic activity in humans and lower animals without a corresponding increase in undesirable side effects.

NO
IMAGE
AVAILABLE

Exercise

1. Search for aspirin in the chemical field
2. Combine it with keywords antipyretic and analogue using wildcards in the English text
3. **Replace *antipyretic* and *analogue* by the Japanese translation of antipyretic in the Japanese abstract**

Antipyretic in Japanese?

CROSS LINGUAL EXPANSION ▾

Search terms... *

antipyretic|

Query Language"

English ▾

The language of your query

Expansion Mode:

Automatic

Supervised

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

Precision level

High ▾

Influences the precision of the suggested variants.

Highest level considers only the most relevant ones (less suggested variants)

Lowest level considers the less relevant as well (more suggested variants)

Search

EN_AB:("antipyretic") OR FR_AB:("antipyrétique") OR DE_AB:("antipyretischer" OR "Fieber erniedrigender" OR "Antipyretikum" OR "fiebersenkende") OR ES_AB:("antipireticas" OR "antipertico" OR "antip



49,896 results Offices all Languages all Stemming true Single Family Member false Include NPL false



FULL QUERY

Close

Edit

EN_AB:("antipyretic") OR FR_AB:("antipyrétique") OR DE_AB:("antipyretischer" OR "Fieber erniedrigender" OR "Antipyretikum" OR "fiebersenkende") OR ES_AB:("antipireticas" OR "antipertico" OR "antipirectica") OR PT_AB:("antipirética") OR JA_AB:("解熱") OR RU_AB:("жаропонижающую" OR "антипиретической" OR "проявляющие антипиренную" OR "жаропонижающей активностью") OR ZH_AB:("解热" OR "退热" OR "清热") OR IT_AB:("antipiretica" OR "antipiretica") OR SV_AB:("antipyretisk" OR "feberbehandlings") OR NL_AB:("antipyretische") OR DA_AB:("antipyretiske" OR "anti pyretisk")

ADVANCED SEARCH ▼

CHEM:(BSYNRYMUTXBXSQ-UHFFFAOYSA-N) AND JA_AB:("解熱")

Query Assistant [Query Examples](#)

Expand with related terms

Offices
All



Languages
All



Stemming

Single Family Member

Include NPL

Reset

Search

CHEM:(BSYNYRMUTXBXSQ-UHFFFAOYSA-N) AND JA_AB:(**解熱**)



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



Sort: Relevance ▼ Per page: 100 ▼ View: All+Image ▼

< 1/1 >

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1. **2008518914** アセトアミノフェン、カフェインおよび所望によりアスピリンを、吸収を増強するためのアルカリ性物質と共に含む組成物

JP - 05.06.2008

Int.Class [A61K31/167](#) (i) Appl.No 2007539060 Applicant ノバルティス アーゲー Inventor ロン・リュウ

鎮痛/解熱有効量のアセトアミノフェン、カフェインおよび、所望により、アスピリンを含む第一鎮痛/解熱組成物の活性発現が、該第一組成物に、鎮痛/解熱活性発症を速める量の少なくとも1種のアルカリ性物質を包含させ、それにより第二組成物を産生することにより、速くなる。該アルカリ性物質を含む該第二組成物は、該第一組成物と生物学的同等性であるが、該第一組成物よりも鎮痛/解熱活性の発現が速い。



2. **2000159674** ANTIPYRETIC ANALGESIC ANTIPHLOGISTIC

JP - 13.06.2000

Int.Class [A61K31/60](#) (i) Appl.No 1998341452 Applicant KOWA CO Inventor WADA YASUSHI

PROBLEM TO BE SOLVED: To obtain an antipyretic analgesic antiphlogistic having enhanced antipyretic action, analgesic action and anti-inflammatory effect, not causing side effects such as gastric mucosa damage, etc., by using both a salicylic acid- based antiinflammatory agent and tranexamic acid.

SOLUTION: This antipyretic analgesic antiphlogistic contains [A] a salicylic acid-based antiinflammatory agent, [B] tranexamic acid in the blending ratio [weight ratio] of the component A:B of 20:1 to 1:10 and, if required, [C] antitussive expectorantia, antihistamine, vitamin B1 vitamin B2, vitamin C, an antipyretic analgesic antiphlogistic except the component A, caffeine, antacid, crude medicine, Chinese medicine, etc. Aspirin, ethenzamide, methyl salicylate, sodium salicylate, salicylic acid amide, aspirin aluminum, etc., are preferable as the component A and ethenzamide is especially preferable. A dose of the antipyretic analgesic antiphlogistic is preferably 0.72-8.0 g daily as an active ingredient per adult and preferably administered once or several times dividedly.

COPYRIGHT: (C)2000.JPO

ラット プラジキノン・ブラスミン混濁液投与におけるメタンフェン
トランキサミン酸の作用効果

投与薬剤	投与	AUC	動物数	初回投与
コントロール	30	0.76±0.10		
メタンフェン (1.0 mg/kg)	30	0.70±0.10	5%	6.92
トランキサミン酸 (5.0 mg/kg)	30	0.88±0.09	15%	6.90
両薬併用投与	30	0.84±0.08*	45%	6.98

*p<0.05で有意差あり。

3. **2003171266** ANTIPYRETIC PREPARATION CONTAINING XYLITOL

JP - 17.06.2003

Int.Class [A61K31/047](#) (i) Appl.No 2002358676 Applicant ROQUETTE FRERES Inventor WILS DANIEL

PROBLEM TO BE SOLVED: To provide an antipyretic preparation to be administered by any means except for oral administration.

SOLUTION: The antipyretic preparation is composed of an antipyretic agent and a synergistically active amount of xylitol. The antipyretic agent content is 2-100 mg and the xylitol content is 0.5-15 g wherein the content means the daily dose per 1 kg body-weight.

	温度上昇 (°C)	汚染のポジティブコントロールと比較した差異 (%)
パッケージ 1	0.35	—
パッケージ 2	2.95	0
パッケージ 3	1.57	4.6
パッケージ 4	2.73	7.5
パッケージ 5	0.82	7.2



Exercise

- Combine 2 compounds: paracetamol and tramadol
- Find the first document in Russian language only of the Russian Federation
- What is the first claim of this document about?

CHEMICAL COMPOUNDS SEARCH ▾

[Convert structure](#)

[Upload structure](#)

[Structure editor](#)

[Found compounds](#)

[Found Markush Formulas](#)

Search type

Compound name



Type an accepted name, commercial name, CAS name, IUPAC name
paracetamol

Search for scaffold

Include enumerated Markush structures

Offices

All



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Exact Structure Search

1. [WO/2018/158324](#) PHARMACEUTICAL FORMULATION FOR ADMINISTERING PARACETAMOL BY BUCCAL/GINGIVAL ROUTE

WO - 07.09.2018

Int.Class [A61K 47/02](#) Appl.No PCT/EP2018/054949 Applicant UNITHER PHARMACEUTICALS Inventor GOUPIL, Eric

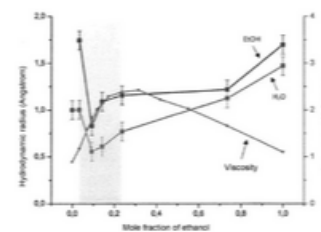
The present invention concerns a pharmaceutical formulation for administering paracetamol by buccal/gingival route consisting of a hydroalcoholic solution comprising dissolved paracetamol, characterised in that: the mass of paracetamol is between 95 mg and 190 mg, the volume of said hydroalcoholic solution is between 1.0 ml and 2.0 ml, the degree of alcohol of said hydroalcoholic solution is between 48.5° and 52.5°, and the concentration of paracetamol in said hydroalcoholic solution is between 85 mg/ml and 110 mg/ml. The present invention also concerns said pharmaceutical formulation for the use of same for accelerating the speed at which paracetamol passes through the blood-brain barrier, and the use thereof as a drug, in particular for the symptomatic treatment of pain or fever.

NO
IMAGE
AVAILABLE2. [20190374488](#) PHARMACEUTICAL FORMULATION FOR ADMINISTERING PARACETAMOL BY BUCCAL/GINGIVAL ROUTE

US - 12.12.2019

Int.Class [A61K 31/167](#) Appl.No 16489378 Applicant Unither Pharmaceuticals Inventor Eric Goupil

The present invention concerns a pharmaceutical formulation for administering paracetamol by buccal/gingival route consisting of a hydroalcoholic solution comprising dissolved paracetamol, characterised in that: # the mass of paracetamol is between 95 mg and 190 mg, # the volume of said hydroalcoholic solution is between 1.0 ml and 2.0 ml, # the degree of alcohol of said hydroalcoholic solution is between 48.5° and 52.5°, and # the concentration of paracetamol in said hydroalcoholic solution is between 85 mg/ml and 110 mg/ml. The present invention also concerns said pharmaceutical formulation for the use of same for accelerating the speed at which paracetamol passes through the blood-brain barrier, and the use thereof as a drug, in particular for the symptomatic treatment of pain or fever.

3. [110302139](#) PARACETAMOL SUPPOSITORY AND PREPARATION METHOD THEREOF

CN - 08.10.2019

Int.Class [A61K 9/02](#) Appl.No 201910690605.0 Applicant HENAN GUANDU BIOENGINEERING CO., LTD. Inventor HAN WENSHUAN

The embodiment of the invention provides a paracetamol suppository and a preparation method thereof, and relates to the field of pharmacy. According to the paracetamol suppository and the preparation method thereof, paracetamol and essential oil are matched to use, the essential oil can obviously improve durability of efficacy of the paracetamol, and the effects of thorough antipyresis and not bounce can be achieved. Meanwhile, the essential oil has the postoperative analgesia and anti-infection effects, and the application range of the paracetamol suppository is further increased. In addition, a mixed solvent system cooperative with polyethylene glycol 400 and polyethylene glycol 1500 is adopted by the paracetamol suppository, a small amount of Twain-80 and DMF hydrotrope are added, the paracetamol and essential oil can reach a uniform dispersion effect and a long stability effect, and transportation and storage are facilitated. According to the preparation method of the paracetamol suppository, a mode of mixed materials in batches is adopted, the operation is simple and convenient, the requirement on equipment is not high, the preparation method of the paracetamol suppository can rapidly and efficiently be used for preparing the paracetamol suppository, and the better uniformity is guaranteed.

NO
IMAGE
AVAILABLE

CHEMICAL COMPOUNDS SEARCH ▾

Convert structure

Upload structure

Structure editor

Found compounds

Found Markush Formulas

Search type

Compound name



Type an accepted name, commercial name, CAS name, IUPAC name

tramadol

Search for scaffold

Include enumerated Markush structures

Offices

All




Reset

Show in editor

Exact Structure Search

1. **WO/2007/078895** MODIFIED RELEASE FORMULATIONS OF TRAMADOL AND USES THEREOF


WO - 12.07.2007

Int.Class [A01N 33/02](#)  Appl.No PCT/US2006/048100 Applicant BIOVAIL LABORATORIES INTERNATIONAL S.R.L. Inventor MAMAJIWALLA, Salim

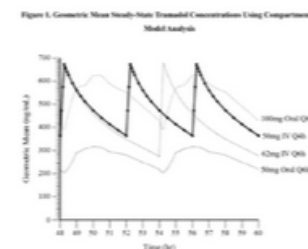
The present invention relates to specific types of controlled and modified release dosage forms containing tramadol or at least one pharmaceutically acceptable salt, enantiomer, or metabolite- thereof, that possess specific pharmacokinetic properties and which desirably are not subject to dose dumping, e.g., induced by food or alcohol. The invention also relate to methods of making and using these controlled and modified release dosage forms in therapeutic regimens wherein tramadol is therapeutically effective.

2. **20170172914** INTRAVENOUS ADMINISTRATION OF TRAMADOL


US - 22.06.2017

Int.Class [A61K 31/135](#)  Appl.No 15163111 Applicant Revogenex Ireland Ltd Inventor Lucy Lu

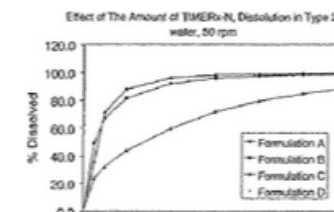
A method of treating pain, e.g., acute post-operative pain, by administering to a human patient(s) a therapeutically effective dose of tramadol intravenously in a dosing regimen which includes one or more loading doses administered at shortened intervals as compared to dosing at steady-state is disclosed. In certain embodiments, the dose of tramadol is from about 45 mg to about 80 mg and the second (and optionally) third doses are intravenously administered at intervals of from about 2 to about 3 hours, and thereafter the tramadol is intravenously administered at a dosing interval of about 4 to about 6 hours, until the patient no longer requires treatment with tramadol. In preferred embodiments, the intravenous dosing regimen provides a Cmax and AUC of tramadol is similar to the Cmax and AUC of an oral dose of 100 mg tramadol HCl given every 6 hours. In certain preferred embodiments, the dosing regimen comprises 50 mg IV tramadol at Hour 0, followed by 50 mg at Hour 2, 50 mg at hour 4, and 50 mg every 4 hours thereafter [e.g., until the patient no longer requires treatment with tramadol].

3. **2004513091** 異なる速度の複数の医薬活性成分の送達系

JP - 30.04.2004

Int.Class [A61K 9/24](#)  Appl.No 2002532208 Applicant ベンウエスト ファーマシューティカルズ カンパニー Inventor リロン・リウ

本発明は一つ以上の医薬活性化合物の送達に有用な新規医薬組成物を提供する。より具体的には、本発明は (+) ترامadol・エナンチオマーおよび (-) ترامadol・エナンチオマーの送達に有用な新規医薬組成物を提供する。





AND

CHEM:(TVYLLZQTGLZFBW-ZBFHGGJFSA-N) ~~CHEM:(RZVAJINKPMORJF-UHFFFAOYSA-N)~~



24,936 results Offices all Languages all Stemming true Single Family Member false Include NPL false



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1 / 250

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1. WO/2007/078895 MODIFIED RELEASE FORMULATIONS OF TRAMADOL AND USES THEREOF

WO - 12.07.2007

Int.Class A01N 33/02 Appl.No PCT/US2006/048100 Applicant BIOVAIL LABORATORIES INTERNATIONAL S.R.L. Inventor MAMAJIWALLA, Salim

The present invention relates to specific types of controlled and modified release dosage forms containing tramadol or at least one pharmaceutically acceptable salt, enantiomer, or metabolite- thereof, that possess specific pharmacokinetic properties and which desirably are not subject to dose dumping, e.g., induced by food or alcohol. The invention also relate to methods of making and using these controlled and modified release dosage forms in therapeutic regimens wherein tramadol is therapeutically effective.

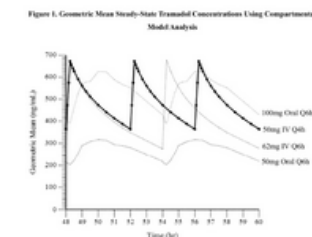


2. 20170172914 INTRAVENOUS ADMINISTRATION OF TRAMADOL

US - 22.06.2017

Int.Class A61K 31/135 Appl.No 15163111 Applicant Revogenex Ireland Ltd Inventor Lucy Lu

A method of treating pain, e.g., acute post-operative pain, by administering to a human patient[s] a therapeutically effective dose of tramadol intravenously in a dosing regimen which includes one or more loading doses administered at shortened intervals as compared to dosing at steady-state is disclosed. In certain embodiments, the dose of tramadol is from about 45 mg to about 80 mg and the second (and optionally) third doses are intravenously administered at intervals of from about 2 to about 3 hours, and thereafter the tramadol is intravenously administered at a dosing interval of about 4 to about 6 hours, until the patient no longer requires treatment with tramadol. In preferred embodiments, the intravenous dosing regimen provides a Cmax and AUC of tramadol is similar to the Cmax and AUC of an oral dose of 100 mg tramadol HCl given every 6 hours. In certain preferred embodiments, the dosing regimen comprises 50 mg IV tramadol at Hour 0, followed by 50 mg at Hour 2, 50 mg at hour 4, and 50 mg every 4 hours thereafter [e.g., until the patient no longer requires treatment with tramadol].

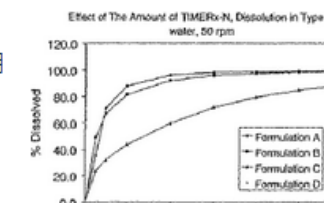


3. 2004513091 異なる速度の複数の医薬活性成分の送達系

JP - 30.04.2004

Int.Class A61K 9/24 Appl.No 2002532208 Applicant ペンウエスト ファーマシューティカルズ カンパニー Inventor リロン・リウ

本発明は一つ以上の医薬活性化合物の送達に有用な新規医薬組成物を提供する。より具体的には、本発明は (+) トラマドール・エナンチオマーおよび (-) トラマドール・エナンチオマーの送達に有用な新規医薬組成物を提供する。





15,686 results Offices all Languages all Stemming true Single Family Member false Include NPL false



Sort: Relevance ▼ Per page: 100 ▼ View: All+Image ▼

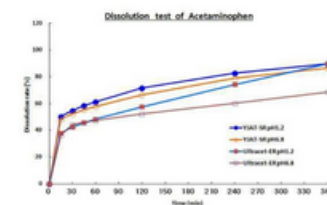
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1. 1020150042408 SUSTAINED RELEASE PHARMACEUTICAL COMPOSITION INCLUDING TRAMADOL AND ACETAMINOPHENInt.Class [A61K 9/16](#) ? Appl.No 1020130121001 Applicant 영진약품공업주식회사 Inventor OH, DONG JOON

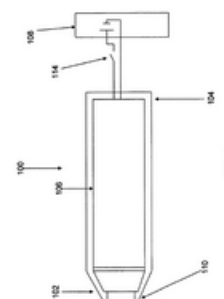
The present invention relates to a novel pharmaceutical composition whose drug release is regulated to be constant and stable in relation to sustained release pharmaceutical composition including acetaminophen and tramadol. Provided is a sustained release pharmaceutical composition, which includes first sustained release granules including acetaminophen and tramadol; and an immediate tramadol release part, wherein acetaminophen controls the release of tramadol. When the composition is injected one time in an empty stomach and after high fat diet, 4,400-7,000 ng/mL of maximum blood acetaminophen concentration on average is provided during average 0.5-3 hours after injection, and 150-250 ng/mL of maximum blood tramadol concentration on average is provided during average 1.5-5 hours after injection. COPYRIGHT KIPO 2015

KR - 21.04.2015

**2. 20030017117 DELIVERY OF ANALGESICS THROUGH AN INHALATION ROUTE**Int.Class [A61K 9/14](#) ? Appl.No 10151596 Applicant Alexza Molecular Delivery Corporation Inventor Rabinowitz Joshua D.

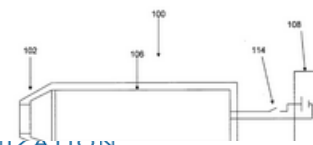
The present invention relates to the delivery of analgesics through an inhalation route. Specifically, it relates to aerosols containing acetaminophen, orphenadrine or tramadol that are used in inhalation therapy. In a composition aspect of the present invention, the aerosol comprises particles comprising at least 5 percent by weight of acetaminophen, orphenadrine or tramadol. In a method aspect of the present invention, one of acetaminophen, orphenadrine or tramadol is delivered to a mammal through an inhalation route. The method comprises: a) heating a composition, wherein the composition comprises at least 5 percent by weight of acetaminophen, orphenadrine or tramadol, to form a vapor; and, b) allowing the vapor to cool, thereby forming a condensation aerosol comprising particles, which is inhaled by the mammal. In a kit aspect of the present invention, a kit for delivering acetaminophen, orphenadrine or tramadol through an inhalation route to a mammal is provided which comprises: a) a composition comprising at least 5 percent by weight of acetaminophen, orphenadrine or tramadol; and, b) a device that forms an acetaminophen, orphenadrine or tramadol containing aerosol from the composition, for inhalation by the mammal.

US - 23.01.2003

**3. 20040191182 DELIVERY OF ANALGESICS THROUGH AN INHALATION ROUTE**Int.Class [A61K 9/12](#) ? Appl.No 10766647 Applicant Alexza Pharmaceuticals, Inc. Inventor Rabinowitz Joshua D.

The present invention relates to the delivery of analgesics through an inhalation route. Specifically, it relates to aerosols containing acetaminophen, orphenadrine or tramadol that are used in inhalation therapy. In a method aspect of the present invention, an analgesic is administered to a patient through an inhalation route. The method comprises: a) heating a thin layer of acetaminophen, orphenadrine or tramadol, on a solid support to form a vapor; and, b) passing air through the heated vapor to produce aerosol particles having less than 5% acetaminophen, orphenadrine or tramadol degradation products. In a kit aspect of the present invention, a kit for delivering acetaminophen, orphenadrine or tramadol through an inhalation is provided which comprises: a) a thin coating of an acetaminophen, orphenadrine or tramadol composition

US - 30.09.2004



ANALYSIS

Close

Filters Charts Timeseries

Countries		Offices		Applicants		Inventors		IPC code		CPC code		Publication Dates		Kind code	
United States of America	6,046	United States of America	7,099	PURDUE PHARMA LP	531	SUN QUN	96	A61K	13,638	a61p 29/00	2,581	1989	1	A	6,238
PCT	3,457	PCT	3,457	ABBVIE INC	331	GHAYUR TARIQ	83	A61P	6,212	a61k	2,533	1990	0	B2	3,984
Japan	2,507	Japan	2,639	EURO CELTIQUE SA	261	OSHLACK BENJAMIN	80	C07D	4,230	a61p	2,297	1991	1	A1	3,096
China	1,311	China	2,403	CELGENE CO	179	CURTIS WRIGHT	77	C07K	1,585	a61p 43/00	2,151	1992	1	B1	1,306
Republic of Korea	1,108	Republic of Korea	1,964	WARSAW ORTHOPEDIC INC	176	TAFESSE LAYKEA	71	C12N	1,004	a61k 45/06	2,137	1993	6	B	381
European Patent Office	1,075	European Patent Office	1,282	PFIZER INC	171	BENJAMIN OSHLACK	70	C07C	747	a61p 25/00	1,882	1994	6	A5	359
Eurasian Patent Organization	105	Canada	984	JANSSEN PHARMACEUTICA NV	164	HERRIOT TABUTEAU	69	A61L	730	a61p 25/04	1,825	1995	9	A3	89
Russian Federation	97	India	715	CHRISTOPHER BREDER	63	CHRISTOPHER BREDER	63	A01N	630	a61p 35/00	1,426	1996	15	C2	72
		Mexico	616	CHEN ZHENGMING	51	CHEN ZHENGMING	51	G01N	538	a61p 19/02	1,235	1997	27	C	51
		Russian Federation	539	TAKEDA PHARMACEUTICAL COMPANY LIMITED	121	MAN HON-WAH	51	A61F	395	a61k 31/485	1,158	1998	40	A4	38
		Israel	466	WRIGHT CURTIS	47	WRIGHT CURTIS	47	A61M	380	a61p 25/28	1,050	1999	67	B9	21
		Eurasian Patent Organization	417	VICTORY SAM	45	VICTORY SAM	45	C12Q	255	c07d	1,045	2000	77	C1	18
		New Zealand	375	YAN PHILIP	44	YAN PHILIP	44	A61J	236	a61p 9/10	951	2001	117	A2	13
		Philippines	299	DOLLE ROLAND E.	40	DOLLE ROLAND E.	40	A61Q	216	a61p 9/00	942	2002	220	B8	13
		Colombia	266	MULLER GEORGE W.	40	MULLER GEORGE W.	40	C12P	211	a61p 1/04	904	2003	303	A9	11
		Germany	206	LAYKEA TAFESSE	39	LAYKEA TAFESSE	39	C07F	203	a61p 11/00	829	2004	456	U	5
		Norway	185	LE BOURDONNEC BERTRAND	39	LE BOURDONNEC BERTRAND	39	C07H	195	a61p 3/10	814	2005	480	B3	3
		Costa Rica	166	A61B	181	A61B	181	A61B	181	a61p 17/00	753	2006	587	C9	3
		Thailand	156	PAUL BOSSE	39	PAUL BOSSE	39	A23L	135	a61p 1/00	732	2007	710	E1	2
		Singapore	154	TARIQ GHAYUR	39	TARIQ GHAYUR	39	B29C	109	a61p 27/02	692	2008	833	A6	1
				BELL IAN M.	37	BELL IAN M.	37	C08B	108	a61p 25/06	681	2009	1,034	B6	1

19. RU0002602745 - СОСТАВ С СИМЕТИКОНОМ



[National Biblio. Data](#) [Claims](#) [Patent Family](#) [Compounds](#)



[PermaLink](#)

Translated



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

[RU]

[Enrolment](#)

1. A pharmaceutical composition comprising a mixture [simethicone powder calcium phosphate](#) и [mannitol](#) and wherein [simethicone](#) present in an amount of 1-60% by weight. %, Powder [calcium phosphate](#) present in an amount of 20-70 wt %. % AND [Mannitol](#) is present in an amount of 20-70 wt.-%. % Composition
2. The composition of claim 1, wherein the mixture [simethicone powder calcium phosphate](#) и [mannitol](#) does not contain granulated [calcium phosphate](#) .
3. The composition of claim 1 or 2, wherein the mixture is substantially comprised of [simethicone powder calcium phosphate](#) и [mannitol](#) .
4. Composition according to claim 1, wherein the weight ratio [mannitol powder calcium phosphate](#) 1: 1 or more than 1: 1.
5. Composition according to claim 1, wherein the weight ratio [mannitol powder calcium phosphate](#) is in the range of 1: 1 to 7: 1.
6. Composition according to claim 1, wherein the weight ratio [simethicone powder calcium phosphate](#) is in the range of 1: 0.6 to 1: 2.
7. The composition of claim 1, wherein the composition comprises 10-20% by weight. % [simethicone 20-50 wt %](#) . Powder [calcium phosphate and 20-50 wt %](#) . % [mannitol](#) .
8. The composition of claim 1, further comprising an active ingredient selected from the group consisting of [loperamide](#) . [olanzapine](#) . [risperidone](#) . [loratadine](#) . [hydrochlorothiazide](#) . [donepezil hydrochloride](#) . [ondansetron](#) . [clonazepam](#) . [clozapine](#) . [oxcarbazone](#) . [tramadol](#) . [oxcarbazine](#) . [tramadol](#) . [cetirizine larmor](#) . [larmor](#) . and the like, [alprazolam pistryptan](#) . [zolmitriptan](#) . [montelukast](#) . [desloratadine](#) и [\[redacted\]](#) .
9. The composition of claim 8, wherein the active ingredient is [loperamide](#) .
10. The composition of claim 9, wherein more than 80% of the active ingredient is released 30 minutes at a temperature of 37°C and a rotation speed of 75 rpm in an aqueous solution having a pH in the range of 1 to 7.0.
11. A pharmaceutical composition containing 55-95% by weight of a pharmaceutical composition. Mixture [simethicone powder calcium phosphate](#) и [mannitol](#) wherein the mixture [simethicone powder calcium phosphate](#) и [mannitol](#) It contains 10-30 wt. % [simethicone](#) with respect to the mixture, 20-50% by weight of the mixture. Powder [calcium phosphate](#) with respect to the mixture and 30-50% by weight. % [mannitol](#) with respect to the mixture.
12. The pharmaceutical composition of claim 11, comprising 10-20% by weight of the pharmaceutical composition. % [simethicone 20-40 wt %](#) . Powder [calcium phosphate and 30-50 wt %](#) . % [mannitol](#) based on the total weight of the pharmaceutical composition.

Restrict to the *claims* field

- CHEM:((BSYNRYMUTXBXSQ-UHFFFAOYSA-N BEFORE1000 description) AND (claims BEFORE1000 BSYNRYMUTXBXSQ-UHFFFAOYSA-N))



Exercise:

- For a query related to *liposome cancer treatment*, should you use wildcards or stemming?
- How many NPL documents are available in PATENTSCOPE?

WILDCARD VS STEMMING

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

Enter a word
treat

Compare to

Stemming treat	Wildcard treat*
treating	treatment
treated	treating
treat	treated
treats	treat
treating	treatments
	treater
	treatable
	treats
	treatment

EN_ALLTXT:(cancer NEAR10 treatment NEAR10 liposome)



2,865 results Offices all Languages all Stemming true Single Family Member false Include NPL true



ANALYSIS

Close

Filters Charts Timeseries

Countries		Offices		Applicants		Inventors		IPC code		CPC code		Publication Dates		Kind code	
United States of America	1,077	United States of America	1,290	BOARD OF REGENTS THE UNIVERSITY OF TEXAS SYSTEM	113	CLET NIYIKIZA	29	A61K	2,571	a61p 35/00	807	1983	1	A	934
PCT	657	PCT	657	IPSEN BIOPHARM LTD	73	JONATHAN BASIL FITZGERALD	27	A61P	978	a61k	592	1984	0	A1	929
Australia	295	Canada	419	PHOENIX BIOTECH INC	52	THORPE PHILIP E.	26	C07K	549	a61k 9/127	537	1985	0	B2	479
European Patent Office	295	European Patent Office	340	MERRIMACK PHARMACEUTICALS INC	46	RAN SOPHIA	24	C12N	410	a61p	450	1986	2	B1	248
Canada	247	Australia	296	LEAF HOLDINGS GROUP LLC	44	VICTOR MOYO	21	G01N	181	a61k 9/1271	385	1987	7	C	90
India	95	China	170	CHILDREN'S MEDICAL CENTER CO	40	AHMAD IMRAN	20	C07H	142	a61k 45/06	302	1988	6	B	72
China	36	India	159	THE REGENTS OF THE UNIVERSITY OF CALIFORNIA	39	ELIEL BAYEVER	19	C07D	141	a61k 9/0019	250	1989	5	A4	29
New Zealand	31	Republic of Korea	122	ALZA CO	37	HUNG MIEN-CHIE	19	C12Q	140	a61k 9/1272	236	1990	12	NPL	25
Non-Patent Literature	25	Mexico	82	ACADEMIA SINICA	35	OTIS C. ADDINGTON	19	C07C	71	a61p 43/00	224	1991	12	A3	11
Israel	21	Israel	79	RESEARCH DEVELOPMENT FOUNDATION	35	ROBERT A. NEWMAN	19	A01N	68	a61k 31/704	216	1992	19	A9	6
Japan	16	New Zealand	64	RESEARCH DEVELOPMENT FOUNDATION	35	AHMAD, IMRAN	17	C07F	52	c07k	161	1993	17	B8	6
Singapore	14	Russian Federation	58	RESEARCH DEVELOPMENT FOUNDATION	35	DARYL C. DRUMMOND	17	C12P	49	a61k 31/4745	155	1994	9	C1	6
Republic of Korea	9	Japan	46	RESEARCH DEVELOPMENT FOUNDATION	35	VICTOR MANDLA MOYO	16	A61N	41	a61k 31/337	149	1995	28	C2	6
South Africa	8	Eurasian Patent Organization	39	RESEARCH DEVELOPMENT FOUNDATION	35	FITZGERALD JONATHAN BASIL	15	A61B	40	a61k 47/6911	149	1996	23	B9	5
Mexico	7	Singapore	35	RESEARCH DEVELOPMENT FOUNDATION	35			A61M	28	a61k 2039/505	129	1997	26	E	5
				RESEARCH DEVELOPMENT FOUNDATION	35			B82Y	25	a61k 38/00	121	1998	35	A2	4



Exercise

- Perform the following search:

ZH_ALL:microchip

- Sort the results by publication date descending
- Select the national collection of Spain
- Explain why the first document, among others, is included in the result list for the search performed above

Exercise

- **Perform the following search:**

ZH_ALL:microchip

- **Sort the results by publication date descending**
- Select the national collection of Spain
- Explain why the first document, among others, is included in the result list for the search performed above

1. Relevance

Int Pub Date Desc

本 Pub Date Asc

接 App Date Desc

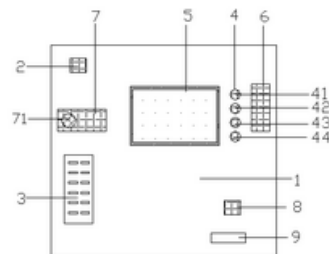
系 App Date Asc

路开短路测试设备

Int.No 201220352688.6 Applicant 江门市华凯科技有限公司 Inventor 李卫国

开短路测试设备, 包括电路板、电源适配器插座、测试目标集成电路活动插座、系统操作按键、系统显示屏、Handler控制接口、Microchip单片机、手动测试按键和外接64通道Microchip单片机、系统操作按键和系统显示屏, Microchip单片机通过电路板分别与系统操作按键和系统显示屏连接, 系统操作按键通过电路板和系统显示屏连接。本实用新型通过系统显示屏显示设置内容和测试结果, 操作界面简单方便; 以Microchip单片机作为控制核心CPU, 以低成本、高效率的实现64通道以内所有集成电路的开短路测试。

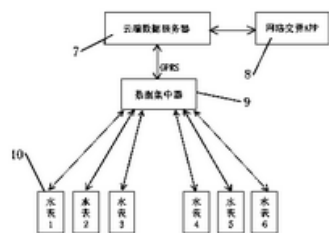
CN - 13.03.2013

2. **209015320** NETWORK PAYMENT WIRELESS REMOTE WATER METER

Int.Class G07F 15/06 Appl.No 201822201260.1 Applicant LIAONING HENGTONG OF ELECTRONIC SCIENCE AND TECHNOLOGY CO., LTD. Inventor SU HONG

The utility model provides a network payment wireless remote water meter. The MICROCHIP processor is respectively connected with an XM_470M micropower wireless data transmission module and a clock chip; two ends of the MICROCHIP processor are respectively connected with a water flow measuring device and a display, and the upper part of the MICROCHIP processor is respectively connected with a valve driving module and a digital integrated circuit; the wireless remote water meters are communicated with the data concentrator, the data concentrator is communicated with the cloud data server, after a user pays through the network payment APP, the cloud data server transmits data back to the concentrator, and the concentrator transmits the data back to the remote water meters to control the valve to be opened and closed. According to the utility model, online water fee payment can be realized, the system has the advantages of labor saving, speed improvement and payment accuracy, and meanwhile, a water supply company can also know the water consumption information of a user at any time to prevent water stealing and water leakage. The water meter is suitable for online payment.

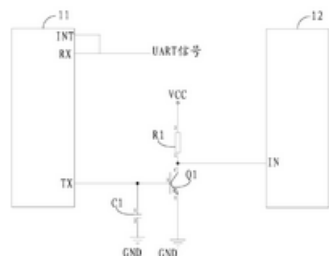
CN - 21.06.2019

3. **107770021** HBS [HOME BUS SYSTEM] CIRCUIT AND SIGNAL CONVERSION METHOD AND DEVICE

Int.Class H04L 12/40 Appl.No 201710942121.1 Applicant QINGDAO HISENSE HITACHI AIR CONDITIONING SYSTEM CO., LTD. Inventor SHI JINGFENG

The application discloses a HBS (Home Bus System) circuit and a signal conversion method and device, and relates to and is used for implementation of Home Bus communication by a Microchip chip. The circuit comprises the Microchip chip, a HB (Home Bus) driving chip, a resistor, a capacitor and a triode; the Microchip chip comprises a UART (Universal Asynchronous Receiver/Transmitter) input pin and a SPI (Serial Peripheral Interface) output pin; and the HB driving chip comprises an input pin. The HBS circuit and the signal conversion method and device, which are disclosed by the embodiment of the application, are applied to home bus communication.

CN - 06.03.2018

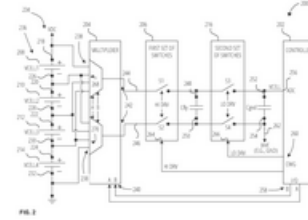


1. **WO/2021/162721** MEASURING CIRCUIT USING SWITCHED CAPACITORS FOR MEASURING VOLTAGE AND RELATED SYSTEMS, METHODS, AND DEVICES

WO - 19.08.2021

Int.Class G01R 31/3835 Appl.No PCT/US2020/030304 Applicant MICROCHIP TECHNOLOGY INCORPORATED Inventor ROSU-HAMZESCU, Mihnea

Measuring circuits including switched capacitors, and related systems, methods, and devices are disclosed. A measurement circuit includes a flying capacitor, a grounded capacitor, a first switch, a second switch, a third switch, and a fourth switch. The first switch is configured to selectively electrically connect an electrochemical cell cathode node to a first terminal of the flying capacitor. The second switch is configured to selectively electrically connect an electrochemical cell anode node to a second terminal of the flying capacitor. The third switch is configured to selectively electrically connect the first terminal of the flying capacitor to a third terminal of the grounded capacitor. The fourth switch is configured to electrically connect the second terminal of the flying capacitor to a fourth terminal of the grounded capacitor. The fourth terminal is electrically connected to the reference voltage potential node.

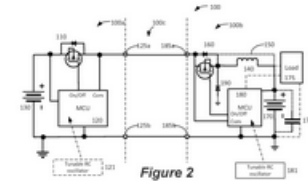


2. **WO/2021/162761** LOW COST POWER LINE MODEM

WO - 19.08.2021

Int.Class H02J 7/00 Appl.No PCT/US2020/060087 Applicant MICROCHIP TECHNOLOGY INCORPORATED Inventor ROHLEDER, Marco

A system for transmitting power and data through a two pin connection interface may have a first device having a power source, a first microcontroller with a first communication peripheral coupled with a first pin and a first control port coupled with a gate of a first MOSFET whose switch path couples the power source with the first pin; and a second device having a battery, a second microcontroller with a second communication peripheral coupled with a first pin and a second control port coupled with a gate of a second MOSFET whose switch path couples the battery with the first pin of the second device. When the devices are coupled, the MOSFETs are synchronously turned on and off, wherein during an off-cycle a data transfer between the first and second device takes place through the first and second communication peripherals of the first and second device, respectively.



3. **WO/2021/159820** DATA TRANSMISSION AND TASK PROCESSING METHODS, APPARATUSES AND DEVICES

WO - 19.08.2021

Int.Class G06F 12/109 Appl.No PCT/CN2020/132846 Applicant ALIPAY (HANGZHOU) INFORMATION TECHNOLOGY CO., LTD. Inventor ZHAO, Junping

Data transmission and task processing methods, apparatuses and devices. A solution comprises: obtaining a data transmission request sent by a client [302]; obtaining a first virtual address in the data transmission request [304]; obtaining a physical memory address corresponding to the first virtual address [306]; on the basis of a mapping relationship between the physical memory address and the virtual address, determining a second virtual address corresponding to the physical memory address [308]; obtaining a GPU address allocated for the data transmission request [310]; generating a data copying instruction from the second virtual address to the GPU address [312]; and calling an interface driven by the GPU to execute the data copying instruction [314].



Exercise

- Perform the following search:

ZH_ALL:microchip

- Sort the results by publication date descending
- **Select the national collection of Spain**
- Explain why the first document, among others, is included in the result list for the search performed above

ANALYSIS

Close

Filters Charts Timeseries

Countries		Offices		Applicants		Inventors		IPC code		CPC code		Filing Dates		Kind code	
China	10,305	China	10,810	MICROCHIP TECH INC	3,610	谭启仁	301	G06F	3,983	g06f	560	1987	4	A	7,526
PCT	1,559	PCT	1,559	ALIBABA GROUP HOLDING LTD	1,070	TAN QIREN	181	G06Q	1,642	g06q	256	1988	3	B	2,121
United States of America	1,414	United States of America	1,447	ALIBABA GROUP HOLDING LIMITED	845	KRIS BRYAN	113	H04L	1,273	h04l	233	1989	1	U	1,614
European Patent Office	798	European Patent Office	895	GENESIS MICROCHIP INC	417	KOBAYASHI OSAMU	110	G06K	871	g06q 40/04	186	1990	0	B2	928
Republic of Korea	197	Republic of Korea	788	ALIPAY (HANGZHOU) INFORMATION TECH CO LTD	380	WOJEWODA IGOR	88	H01L	814	g06f 3/044	182	1991	4	Y	674
Germany	190	Germany	353	ALIPAY (HANGZHOU) INFORMATION TECH CO LTD	333	YAN YING	67	H03K	687	h03k	176	1992	15	B1	620
Japan	102	Singapore	150	BEIJING SANKUAI ONLINE TECH CO LTD	269	WEI CHANGZHENG	60	G05B	670	h01l	152	1993	13	A1	475
Australia	52	Japan	142	BEIJING SANKUAI ONLINE TECH CO LTD	269	JULICHER JOSEPH	55	G01R	546	g06k 9/6256	144	1994	37	C	359
Spain	37	India	88	TAN QIREN	175	STEEDMAN SEAN	53	H04N	511	g06n 3/0454	138	1995	44	T5	132
India	13	Australia	52	ADVANCED NEW TECH CO LTD	166	DEVAL PHILIPPE	51	H02J	366	g06f 21/602	122	1996	73	A2	63
Singapore	13	Philippines	49	MICROCHIP TECH GERMANY GMBH	114	SMIT WILLEM	49	H04W	342	g06q 10/0635	122	1997	121	A3	56
Israel	5	Spain	37	PETROCHINA COMPANY LIMITED	109	LIU QI	48	H02M	340	g06f 21/64	120	1998	127	T2	50
South Africa	5	Thailand	34	BEIJING SCIENCE AND TECH CO THREE FAST ONLINE	98	QIN LAN	48	G01N	337	g06f 16/27	117	1999	154	T3	36
Indonesia	4	Canada	26	ASML NETHERLANDS	79	YANG GUANGMING	48	H05B	326	g06k	113	2000	191	A4	29
Malaysia	4	Mexico	19			REN DONGCHUN	47	H03M	321	g06q 20/4016	95	2001	179	A5	16
Thailand	4	Russian Federation	18			LOURENS RUAN	44	G06T	301	g06f 21/6245	91	2002	172	E	4
Philippines	3	Israel	8			QUIQUEMPOIX VINCENT	44	H04B	300	g09g 5/006	89	2003	205	A9	2
Argentina	2	Malaysia	7			DELPORT VIVIEN	41	H02H	286	g06f 3/0416	88	2004	375	B4	2
Brazil	2	Indonesia	5			TRIECE JOSEPH W.	41	G06N	284	y02d 10/00	88	2005	541	E1	2
Canada	2	South Africa	5			XIA HUAXIA	41	G08C	264	g06f 13/4282	87	2006	347	T1	2
								G11C	261	g06n 3/08	87	2007	408	B8	1

SETTINGS

Reset

Close

Save

Query Office **Result** Download Interface Others

Result List Language
Query Language

Analysis tab open

Analysis type
Table

Analysis graph
pie

No of Items/Group
50

Group by *

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

Exercise

- Perform the following search:

ZH_ALL:microchip

- Sort the results by publication date descending
- Select the national collection of Spain
- **Explain why the first document, among others, is included in the result list for the search performed above**

CORRELACIONADA CON UNA OPERACIÓN DE ENTRADA MANUAL

National Biblio. Data Description Claims Drawings Patent Family Documents

PermaLink Machine translation ▼

Office

Spain

Application Number

11714482

Application Date

10.02.2011

Publication Number

2655729

Publication Date

21.02.2018

Publication Kind

T3

IPC

G06F 3/044 G06F 3/01 G06F 3/048

CPC

G06F 3/0488 G06F 3/04883
G06F 2203/04101 G06F 3/041 G06F 3/0445
G06F 3/04164

Applicants

Microchip Technology Germany GmbH

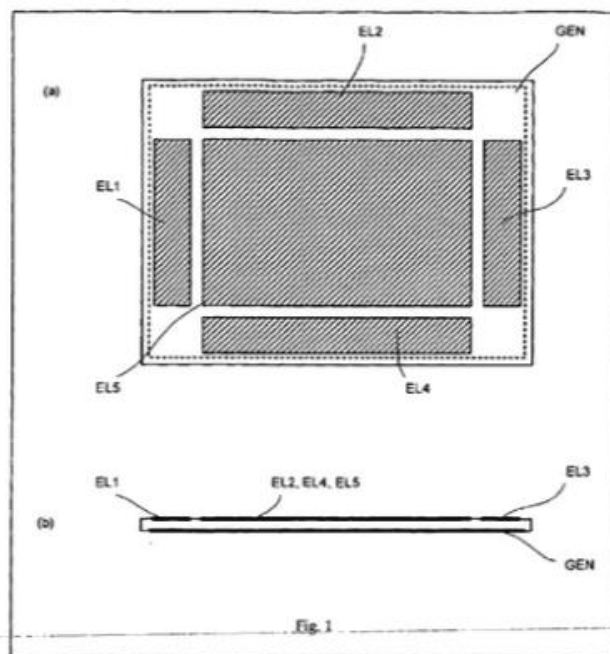
Inventors

IVANOV, Artem

Agents

Title

[ES] Sistema y procedimiento de generación de una señal correlacionada con una operación de entrada manual



Abstract

[ES]

Sistema para generar señales de entrada que se correlaciona con operaciones de entrada manuales ejecutadas por el usuario, que comprende: - un grupo de electrodos que comprende un electrodo generador [GEN] y una pluralidad de electrodos de recepción asociados [EL1 - 5] integrados en un componente de equipo, en el que el electrodo generador [GEN] y la pluralidad de electrodos de recepción [EL1 - 5] están formados por electrodos de forma plana y al menos algunos de los electrodos de recepción [EL1 - 4] están dispuestos dentro de un plano y se extienden a lo largo del borde de una zona de detección y en el que el electrodo generador [GEN] está dispuesto en un plano por debajo del plano de los electrodos de recepción [EL1 - 5], y - una disposición de circuito [GestIC] acoplada a los electrodos [GEN, EL1 - 5] del grupo de electrodos, - en el que el grupo de electrodos y la disposición de circuito [GestIC] constituyen un circuito sensor que permite la detección de un estado que se evalúa como contacto físico del componente de equipo, y también como una detección de posición de la mano o un dedo de un usuario en un área que está ubicada espacialmente delante del componente del equipo



Exercise:

- Which field should you use to have only documents in Chinese language?

zh_alltxt.microchip



10,270 results Offices all Languages all Stemming true Single Family Member false Include NPL false



ANALYSIS

Close

Filters Charts Timeseries

Countries		Offices		Applicants		Inventors		IPC code		CPC code		Filing Dates		Kind code	
China	9,708	China	9,729	ALIBABA GROUP HOLDING LTD	1,070	谭启仁	301	G06F	2,590	g06q	252	1994	2	A	5,727
PCT	562	PCT	562	ALIBABA GROUP HOLDING LIMITED	845	TAN QIREN	181	G06Q	1,635	g06f	209	1995	8	B	1,983
		Singapore	135	ALIBABA GROUP HOLDING LIMITED	845	YAN YING	67	H04L	944	g06q 40/04	186	1996	12	U	1,560
		Republic of Korea	92	ALIPAY [HANGZHOU] INFORMATION TECH CO LTD	380	WEI CHANGZHENG	60	G06K	778	g06k 9/6256	144	1997	21	Y	674
		India	69	ALIPAY [HANGZHOU] TECH CO LTD	333	LIU QI	48	G05B	634	h04l	143	1998	18	C	326
		Philippines	42	ALIPAY [HANGZHOU] TECH CO LTD	333	QIN LAN	48	G01R	303	g06n 3/0454	138	1999	31		
		Thailand	30	ALIPAY [HANGZHOU] TECH CO LTD	333	YANG GUANGMING	48	G01N	281	g06q 10/0635	122	2000	39		
		Canada	23	BEIJING SANKUAI ONLINE TECH CO LTD	269	REN DONGCHUN	47	G06N	281	g06f 21/602	120	2001	36		
		Mexico	18	BEIJING SANKUAI ONLINE TECH CO LTD	269	XIA HUAXIA	41	H01L	268	g06f 16/27	117	2002	81		
		Russian Federation	17	TAN QIREN	175	YANG RENHUI	38	H04W	264	g06f 21/64	115	2003	151		
		European Patent Office	13	ADVANCED NEW TECH CO LTD	166	ZHOU JUN	38	H02J	257	g06q 20/4016	95	2004	201		
		United States of America	7	PETROCHINA COMPANY LIMITED	109	SONG LING	34	H02H	246	g06k	94	2005	374		
		Japan	4	BEIJING SCIENCE AND TECH CO THREE FAST ONLINE	98	THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED	32	G08C	245	g06f 21/6245	91	2006	252		
		Germany	3	BEIJING SCIENCE AND TECH CO THREE FAST ONLINE	98	WANG WEIQIANG	32	H04N	244	h04l 2209/38	87	2007	251		
		Eurasian Patent Organization	2	ASML NETHERLANDS BV	79	LI SHUBO	31	G06T	239	g06n 3/08	86	2008	272		
				ASML NETHERLANDS BV	79	ZHANG PENG	30	G05D	192	g06q 40/08	84	2009	218		
										y02p 90/02	75	2010	293		





Exercise

- Who are the main actors in the field of adaptive control system for road vehicles?
 - Define the different steps?
 - List the 5 top applicants



The steps

- In CLIR, check synonyms + other languages
 1. car
 2. adaptive control system
- Check WIPO Pearl for additional information
 - adaptive cruise control, ACC, intelligent cruise control, ICC
- IPC/CPC

EN_AB:("car adaptive cruise control"~21 OR "car adaptive control system"~21 OR "car adaptive regulating system"~21 OR "vehicle starts adaptive control system"~21 OR "vehicle starts adaptive regulatin



1,573 results Offices all Languages all Stemming true Single Family Member false Include NPL false



FULL QUERY

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EN_AB:("car adaptive cruise control"~21 OR "car adaptive control system"~21 OR "car adaptive regulating system"~21 OR "vehicle starts adaptive control system"~21 OR "vehicle starts adaptive regulating system"~21 OR "stationery vehicle adaptive control system"~21 OR "stationery vehicle adaptive regulating system"~21 OR "automobiles adaptive control system"~21 OR "automobiles adaptive regulating system"~21 OR "vehicle which can adaptive control system"~21) OR FR_AB:("système de commande adaptative voiture"~22 OR "système de contrôle adaptif voiture"~22 OR "système de commande adaptative véhicule"~22 OR "système de contrôle adaptif véhicule"~22 OR "système de protection adaptable voiture"~22 OR "système de protection adaptable véhicule"~22 OR "système régulateur d'adaptation voiture"~22 OR "dispositif de commande adaptive voiture"~22 OR "système régulateur d'adaptation véhicule"~22) OR DE_AB:("Auto Adaptivsteuerung"~22 OR "Auto adaptives Steuerungssystem"~22 OR "Auto Adaptives Steuerungssystem"~22 OR "Auto Adaptivsteuerungssystem"~22 OR "Autos Adaptivsteuerung"~22 OR "Auto Anpassungsfähiges Steuersystem"~22 OR "Auto adaptives Steuersystem"~22 OR "Autos adaptives Steuerungssystem"~22 OR "Autos Adaptives Steuerungssystem"~22) OR ES_AB:("control adaptable vehículo"~22 OR "control adaptable coche"~22 OR "control adaptable vagón"~22 OR "control adaptable cabina"~22 OR "control adaptable auto"~22 OR "control adaptable carro"~22 OR "control adaptable automóviles"~22 OR "control adaptable autora"~22 OR "control adaptable automóvil automóvil"~22) OR JA_AB:("車両 適応制御"~22 OR "カーナビ 適応制御"~22 OR "自動車 適応制御"~22 OR "カー 適応制御"~22 OR "車両 適応型制御システム"~22 OR "カーナビ 適応型制御システム"~22 OR "自動車 適応型制御システム"~22 OR "カー 適応型制御システム"~22) OR RU_AB:("автомобильная адаптивная система управления"~22 OR "вагона адаптивная система управления"~22 OR "автомобильная система адаптивного управления"~22 OR "вагона система адаптивного управления"~22 OR "автомобильных адаптивная система управления"~22 OR "вагонетки адаптивная система управления"~22 OR "гондола адаптивная система управления"~22 OR "автомобильных система адаптивного управления"~22 OR "автомобильная адаптивная система регулирования"~22) OR ZH_AB:("汽车 自适应控制"~22 OR "汽车 自适应控制系统及"~22 OR "机动车 自适应控制"~22 OR "机动车 自适应控制系统及"~22) OR IT_AB:("traino autoveicoli sistema di controllo adattabile"~22 OR "carrozze sistema di controllo adattabile"~22 OR "vettura sistema di controllo adattabile"~22 OR "locita sistema di controllo adattabile"~22 OR "autovetture sistema di controllo adattabile"~22 OR "automezzi sistema di controllo adattabile"~22 OR "carro sistema di controllo adattabile"~22 OR "traino per autoveicoli sistema di controllo adattabile"~22 OR "cabine sistema di controllo adattabile"~22) OR NL_AB:("personenwagen regelstelsel"~22 OR "automobiel regelstelsel"~22 OR "auto regelstelsel"~22 OR "mo torvoertuigen regelstelsel"~22)

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EN_AB:"vehicle ICC"~21 OR "vehicle intelligent cruise control"~21 OR "vehicle adaptive cruise control"~21 OR "vehicle ACC"~21 OR "car ICC"~21 OR "car intelligent cruise control"~21 OR "car adaptive cruise control"~21 OR "car ACC"~21 OR "car adaptive control system"~21 OR "car adaptive regulating system"~21 OR "car adaptive actuating device"~21 OR "car adaptive drive device"~21 OR "vehicle starts adaptive control system"~21 OR "vehicle starts adaptive regulating system"~21 OR "vehicle starts adaptive actuating device"~21 OR "vehicle starts adaptive drive device"~21 OR "stationery vehicle adaptive control system"~21) OR FR_AB:("système de commande adaptative voiture"~22 OR "système de contrôle adaptif voiture"~22 OR "système de commande adaptative véhicule"~22 OR "système de contrôle adaptif véhicule"~22 OR "système de protection adaptable voiture"~22 OR "système de protection adaptable véhicule"~22 OR "système régulateur d'adaptation voiture"~22 OR "dispositif de commande adaptive voiture"~22 OR "système régulateur d'adaptation véhicule"~22) OR DE_AB:("Auto Adaptivsteuerung"~22 OR "Auto adaptives Steuerungssystem"~22 OR "Auto Adaptives Steuerungssystem"~22 OR "Auto Adaptivsteuerungssystem"~22 OR "Autos Adaptivsteuerung"~22 OR "Auto Anpassungsfähiges Steuersystem"~22 OR "Auto adaptives Steuersystem"~22 OR "Autos adaptives Steuerungssystem"~22 OR "Autos Adaptives Steuerungssystem"~22) OR ES_AB:("control adaptable vehículo"~22 OR "control adaptable coche"~22 OR "control adaptable vagón"~22 OR "control adaptable cabina"~22 OR "control adaptable auto"~22 OR "control adaptable carro"~22 OR "control adaptable automóviles"~22 OR "control adaptable autora"~22 OR "control adaptable automóvil automóvil"~22) OR PT_AB:("sistema controle adaptador vagão"~22 OR "sistema controle adaptador carro"~22 OR "sistema controle adaptador automóvel"~22 OR "sistema controle adaptador automóveis"~22 OR "sistema controle adaptador automotivas"~22 OR "sistema controle adaptador cabina"~22 OR "sistema controle adaptador veículos"~22 OR "sistema controle adaptador veículos automotores"~22) OR JA_AB:("車両 適応制御"~22 OR "カーナビ 適応制御"~22 OR "自動車 適応制御"~22 OR "カー 適応制御"~22 OR "車両 適応型制御システム"~22 OR "カーナビ 適応型制御システム"~22 OR "自動車 適応型制御システム"~22 OR "カー 適応型制御システム"~22) OR RU_AB:("автомобилia адаптивная система управления"~22 OR "вагона адаптивная система управления"~22 OR "автомобилia система адаптивного управления"~22 OR "вагона система адаптивного управления"~22 OR "автомобильных адаптивная система управления"~22 OR "вагонетки адаптивная система управления"~22 OR "гондола адаптивная система управления"~22 OR "автомобильных система адаптивного управления"~22 OR "автомобилia адаптивная система регулирования"~22) OR ZH_AB:("汽车 自适应控制"~22 OR "汽车 自适应控制系统及"~22 OR "机动车 自适应控制"~22 OR "机动车 自适应控制系统及"~22) OR KO_AB:("시스템 적응 제어 차량용"~22 OR "시스템 적응 제어 차량의"~22 OR "시스템 적응 제어 자동차"~22 OR "시스템 적응 제어 작업시"~22 OR "시스템 적응 제어 자동차용"~22 OR "시스템 적응 제어 방법"~22 OR "시스템 적응 제어 가변기통엔진의"~22 OR "시스템 적응 제어 위한차량"~22 OR "장치 적응 제어 차량용"~22) OR IT_AB:("traino autoveicoli sistema di controllo adattabile"~22 OR "carrozze sistema di controllo adattabile"~22 OR "vettura sistema di controllo adattabile"~22 OR "locita sistema di controllo adattabile"~22 OR "autovetture sistema di controllo adattabile"~22 OR "automezzi sistema di controllo adattabile"~22 OR "carro sistema di controllo adattabile"~22 OR "traino per autoveicoli sistema di controllo adattabile"~22 OR "cabine sistema di controllo adattabile"~22) OR SV_AB:("vagn adaptiv reglersystem"~22 OR "vagn adaptiv regleranordning"~22 OR "vagn adaptivt reglersystem"~22 OR "vagn adaptiv styrningssystem"~22 OR "vagn adaptiv ventilmanoveringsanordning"~22 OR "vagn adaptiv påverkningsanordning"~22 OR "vagn adaptiv reglerapparat"~22 OR "vagn adaptivt regleranordning"~22 OR "insugnings och utblåsningssystem adaptiv reglersystem"~22) OR NL_AB:("personenwagen regelstelsel"~22 OR "automobiel regelstelsel"~22 OR "auto regelstelsel"~22 OR "mo torvoertuigen regelstelsel"~22 OR "personenwagen adaptieve besturing systeem"~22 OR "automobiel adaptieve besturing systeem"~22 OR "auto adaptieve besturing systeem"~22 OR "personenwagen adaptieve besturing stelsel"~22 OR "mo torvoertuigen adaptieve besturing systeem"~22) OR PL_AB:("wagonu kolejowego based układ sterowania"~22 OR "samochodowych based układ sterowania"~22 OR "karoserii based układ sterowania"~22 OR "paliwowego based układ sterowania"~22 OR "wagonu kolejowego based system sterowania"~22 OR "samochodowych based system sterowania"~22 OR "wagonu kolejowego based oraz układ sterowania"~22 OR "samochodowych based oraz układ sterowania"~22 OR "karoserii based system sterowania"~22) OR DA_AB:("automobiler adaptiv styresystem"~22 OR "bil adaptiv styresystem"~22 OR "automobiler adaptiv styreindretning"~22 OR "automobiler adapteren styresystem"~22 OR "automobiler adapterbar styresystem"~22 OR "automobiler adaptiv kontrolsystem"~22 OR "bilreparationsomkostninger adaptiv styresystem"~22 OR "bil adaptiv 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適応制御"~22 OR "とこれ乗物 適応制御"~22 OR "それを備える乗り物 適応制御"~22 OR "これを搭載する自動車 適応制御"~22 OR "走行車輛 適応制御"~22 OR "車両 適応型制御システム"~22 OR "を用いた車輛 適応型制御システム"~22 OR "それ車輛 適応型制御システム"~22 OR "備えた乗り物 適応型制御システム"~22) OR RU_AB:("транспортного средства адаптивная система управления"~22 OR "транспортного средства система адаптивного управления"~22 OR "средств адаптивная система управления"~22 OR "автомобилиа адаптивная система управления"~22 OR "автомобильных адаптивная система управления"~22 OR "вагона адаптивная система управления"~22 OR "обзором адаптивная система управления"~22 OR "средств система адаптивного управления"~22 OR "автомобилиа система адаптивного управления"~22 OR "автомобильных система адаптивного управления"~22 OR "аппаратов адаптивная система управления"~22 OR "вагона система адаптивного управления"~22 OR "обзором система адаптивного управления"~22 OR "машин адаптивная система управления"~22) OR ZH_AB:("车辆 自适应控制"~22 OR "航天器 自适应控制"~22 OR "汽车 自适应控制"~22 OR "车整车 自适应控制"~22 OR "载具上 自适应控制"~22 OR "车辆 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OR "bedrijfsvoertuig regelstelsel"~22 OR "servomechanisme regelstelsel"~22 OR "gasklep regelstelsel"~22 OR "voertuig adaptieve besturing stelsel"~22 OR "auto regelstelsel"~22 OR "voertuig adaptieve besturing inrichting"~22 OR "automobiel regelstelsel"~22 OR "mo torvoertuigen regelstelsel"~22 OR "autonom mobiel regelstelsel"~22 OR "personenwagen adaptieve besturing systeem"~22) OR PL_AB:("pojazdu based układ sterowania"~22 OR "pojazdu based system sterowania"~22 OR "pojazdu based oraz układ sterowania"~22 OR "pojazdu based układ regulacji"~22 OR "pojazdu based sterowania modelem"~22 OR "pojazdu adaptacyjny układ sterowania"~22 OR "pojazdu based układ sterujący"~22 OR "wagonu kolejowego based układ sterowania"~22 OR "samochodu based układ sterowania"~22 OR "samochodowych based układ sterowania"~22 OR "pojazdu adaptacyjny system sterowania"~22 OR "karoserii based układ sterowania"~22 OR "paliwowego based układ sterowania"~22 OR "zawierającej based układ sterowania"~22) OR DA_AB:("køretøj 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OR F15 OR F16 OR F16 OR F26 OR G01 OR G05 OR G07 OR G08 OR

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adaptable cocne~22 OR "control adaptable automotores"~22 OR "control adaptable automotriz"~22 OR "control adaptable vagon"~22 OR "control adaptable cabina"~22 OR "control adaptable auto"~22 OR "control adaptable automotrices"~22 OR "control adaptable monitorización"~22 OR "control adaptable carro"~22 OR "control adaptable vehículos automóviles"~22 OR "control adaptable vehículos motor"~22) OR PT_AB:("sistema controle adaptador veiculo"~22 OR "sistema controle de potência adaptável veiculo"~22 OR "sistema controle adaptador automotores"~22 OR "sistema controle de potência adaptável automotores"~22 OR "sistema controle adaptador automóveis"~22 OR "sistema controle adaptador motorizado"~22 OR "sistema controle adaptador tocafitas"~22 OR "sistema controle adaptador automóvel"~22 OR "sistema controle adaptador vagão"~22 OR "sistema controle adaptador automotivas"~22 OR "sistema controle de potência adaptável automóveis"~22 OR "sistema controle de potência adaptável motorizado"~22 OR "sistema controle de potência adaptável tocafitas"~22 OR "sistema controle de potência adaptável automóvel"~22) OR JA_AB:("車両 適応制御"~22 OR "を用いた車輛 適応制御"~22 OR "それ車輛 適応制御"~22 OR "備えた乗り物 適応制御"~22 OR "at車 適応制御"~22 OR "スロットル 適応制御"~22 OR "とこれ乗物 適応制御"~22 OR "それを備える乗り物 適応制御"~22 OR "これを搭載する自動車 適応制御"~22 OR "走行車輛 適応制御"~22 OR "車両 適応型制御システム"~22 OR "を用いた車輛 適応型制御システム"~22 OR "それ車輛 適応型制御システム"~22 OR "備えた乗り物 適応型制御システム"~22) OR RU_AB:("транспортного средства адаптивная система управления"~22 OR "транспортного средства система адаптивного управления"~22 OR "средств адаптивная система управления"~22 OR "автомобиля адаптивная система управления"~22 OR "автомобильных адаптивная система управления"~22 OR "вагона адаптивная система управления"~22 OR "обзором адаптивная система управления"~22 OR "средств система адаптивного управления"~22 OR "автомобиля система адаптивного управления"~22 OR "автомобильных система адаптивного управления"~22 OR "аппаратов адаптивная система управления"~22 OR "вагона система 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adattabile"~22 OR "vei sistema di controllo adattabile"~22 OR "carrozze sistema di controllo adattabile"~22 OR "autovalutazione del dispositivo sistema di controllo adattabile"~22 OR "automobilistico sistema di controllo adattabile"~22 OR "autovei del sistema di controllo adattabile"~22 OR "vettura sistema di controllo adattabile"~22 OR "motore sistema di controllo adattabile"~22 OR "locita sistema di controllo adattabile"~22) OR SV_AB:("fordon adaptiv styrt regleringssystem"~22 OR "fordon adaptiv kontrollsystem"~22 OR "fordon adaptivt styrt regleringssystem"~22 OR "fordon adaptivt kontrollsystem"~22 OR "fordon adaptiv reglersystem"~22 OR "fordon adaptiv regleranordning"~22 OR "fordon adaptivt reglersystem"~22 OR "fordon adaptivt regleranordning"~22 OR "vagn adaptiv styrt regleringssystem"~22 OR "registreringsorgan i en ferdskrivare adaptiv styrt regleringssystem"~22 OR "bil adaptiv styrt regleringssystem"~22 OR "vagn adaptiv kontrollsystem"~22 OR "registreringsorgan i en ferdskrivare adaptiv kontrollsystem"~22 OR "vagn adaptivt styrt regleringssystem"~22) OR NL_AB:("voertuig regelstelsel"~22 OR "voertuig adaptieve besturing systeem"~22 OR "personenwagen regelstelsel"~22 OR "gesloten regelstelsel"~22 OR "bedrijfsvoertuig regelstelsel"~22 OR "servomechanisme regelstelsel"~22 OR "gasklep regelstelsel"~22 OR "voertuig adaptieve besturing stelsel"~22 OR "auto regelstelsel"~22 OR "voertuig adaptieve besturing inrichting"~22 OR "automobiel regelstelsel"~22 OR "mo torvoertuigen regelstelsel"~22 OR "autonom mobiel regelstelsel"~22 OR "personenwagen adaptieve besturing systeem"~22) OR PL_AB:("pojazdu based układ sterowania"~22 OR "pojazdu based system sterowania"~22 OR "pojazdu based oraz układ sterowania"~22 OR "pojazdu based układ regulacji"~22 OR "pojazdu based sterowania modelem"~22 OR "pojazdu adaptacyjny układ sterowania"~22 OR "pojazdu based układ sterujący"~22 OR "wagonu kolejowego based układ sterowania"~22 OR "samochodu based układ sterowania"~22 OR "samochodowych based układ sterowania"~22 OR "pojazdu adaptacyjny system sterowania"~22 OR "karoserii based układ sterowania"~22 OR "paliwowego based układ sterowania"~22 OR "zawierającej based układ sterowania"~22) OR DA_AB:("køretøj adaptiv styresystem"~22 OR "koeretoj adaptiv styresystem"~22 OR "fartøjer adaptiv styresystem"~22 OR "køretøj adaptiv styreindretning"~22 OR "selvkørende adaptiv styresystem"~22 OR "køretøjskarosserier adaptiv styresystem"~22 OR "køretøj adapterbar styresystem"~22 OR "bil adaptiv styresystem"~22 OR "automobiler adaptiv styresystem"~22 OR "vogne adaptiv styresystem"~22 OR "koeretoj adaptiv styreindretning"~22 OR "fartøjer adaptiv styreindretning"~22 OR "selvkørende adaptiv styreindretning"~22 OR "koeretoj adapterbar styresystem"~22)) AND CLASSIF:("B60W 30/14")

Office

China

Application Number

201810318561.4

Application Date

11.04.2018

Publication Number

108437991

Publication Date

24.08.2018

Grant Number

108437991

Grant Date

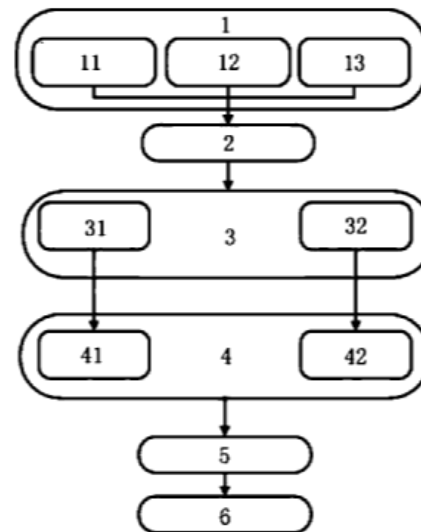
14.01.2020

Publication Kind

B

Title

[ZH] 一种智能电动汽车自适应巡航控制系统及其方法



IPC

B60W 30/14 B60W 40/105 B60W 40/02
 B60W 10/04 B60W 10/18

CPC

B60W 10/04 B60W 10/18 B60W 30/14
 B60W 40/02 B60W 40/105 B60W 2050/0043

Abstract

[ZH]

一种智能电动汽车自适应巡航控制系统及其方法，涉及汽车安全驾驶辅助控制。所述系统包括信息获取模块、工作模式选择模块、控制作用切换模块、期望力矩计算模块、转换器模块和执行器模块。提出安全距离控制策略、驱动/制动切换策略，采用基于神经模糊的反演滑模自适应巡航跟踪模式控制方法，可以解决电动汽车自适应巡航系统速度控制的非线性问题及系统状态的强耦合性，保证车辆自适应巡航行驶时跟踪前车的能力，提高交通道路利用率及车辆行驶的安全性、舒适性。

Applicants

厦门大学

Inventors

郭景华
李文昌
王进

Agents



Exercise

- Who are the main actors in the field of adaptive control system for road vehicles?
 - Define the different steps?
 - **List the 5 top applicants**

ANALYSIS

Close

Filters Charts Timeseries

Countries		Offices		Applicants		Inventors		IPC code		CPC code		Publication Dates		Kind code	
China	266	China	280	MANDO CO	32	PETTERSSON HENRIK	9	B60W	565	b60w 30/16	227	1991	1	A	224
United States of America	94	United States of America	110	FORD GLOBAL TECH LLC	30	KERNER BORIS	7	B60K	104	b60w 30/14	133	1992	0	B	118
European Patent Office	57	European Patent Office	62	ROBERT BOSCH GMBH	23	LIU CHENGQI	7	G08G	55	b60w 30/143	128	1993	0	B1	73
Republic of Korea	55	Republic of Korea	60	SCANIA CV AB	21	CHO RONG RYU	6	B60T	44	b60w 2520/10	84	1994	0	B2	72
PCT	43	PCT	43	HYUNDAI MOTOR COMPANY	18	CHU LIANG	6	B60L	27	b60w 10/06	78	1995	0	A1	52
Japan	14	Japan	15	GM GLOBAL TECH OPERATIONS LLC	16	DAE SUNG HWANG	6	G05D	23	b60w 2554/801	73	1996	0	U	12
Germany	10	Germany	12			DONG GYU NOH	6	B60R	21	b60w 10/18	69	1997	1	A3	3
United Kingdom	10	United Kingdom	10	ZHEJIANG GEELY HOLDING GROUP CO LTD	14	HAHK REL NOH	6	G01S	21	b60w 2720/10	64	1998	2	A4	3
Spain	4	Russian Federation	10	BOSCH GMBH ROBERT	12	HANSSON, JÖRGEN	6	G01C	19	b60w 50/14	56	1999	1	C2	3
Russian Federation	4	Spain	4	JILIN UNIVERSITY	11	JOHANSSON OSKAR	6	F02D	16	b60w 2554/804	52	2000	1	A5	1
Australia	2	India	4	KIA MOTORS CO	11	JOHANSSON, OSKAR	6	G06F	12	b60w 30/165	50	2001	3	B4	1
France	2	Australia	2	BEIJING ELECTRIC VEHICLE CO LTD	10	JONG ROK PARK	6	B60Q	11	b60w 40/105	50	2002	6	C	1
Mexico	2	Canada	2	BENDIX COMMERCIAL VEHICLE SYSTEMS LLC	8	PETTERSSON, HENRIK	6	B62D	11	b60w 2710/18	46	2003	3	T3	1
Canada	1	France	2	VOLVO CAR CO	8	SU LYUN SUNG	6	F16H	8	b60w 30/162	44	2004	2	T5	1
India	1	Mexico	2	WABCO GMBH	8	BEIJING ELECTRIC VEHICLE CO LTD	10	H04W	7	b60w	43	2005	4		
				CHONGQING CHANG'AN	7	YI DIHUA	6	G06K	6	b60w 2050/146	42	2006	3		
						ZHANG FEN	6	F16D	4	b60w 2720/106	41	2007	12		
						ANTHONY MARIO D'AMATO	4	G05B	4	b60k 31/0008	40	2008	10		
						BREUER KARSTEN	4	H04L	4	b60w 2754/30	40	2009	23		
						DIMITAR PETROV FILEV	4	A61B	3	b60w 2556/50	36	2010	14		



Exercise

- Search all documents in French related to antimycotic agent and containing the keyword fungus
- What are the earliest and latest publication date (exact dates) for this query?

Exercise

- **Search all documents in French related to antimycotic agent and containing the keyword fungus**
- What are the earliest and latest publication date (exact dates) for this query?

CLIR - WIPOPearl

▶	› agente antifúngico	Reliability 3 / 4	...
▶	FR › antifongique	Reliability 3 / 4	...
▶	› agent antifongique	Reliability 3 / 4	...
▶	› antimycotique		
▶	› antimycosique		
▶	JA › 抗真菌剤[こうしんきんざい]		
▶	› 抗真菌薬[こうしんきんやく]		
▶	PT › antifúngico		

ADVANCED SEARCH ▾

FR_AB:("champignon antifongiques"-22 OR "champignon antimycotique"-22 OR "champignon antimycosiques"-22)

Query Assistant [Query Examples](#)

Expand with related terms

Offices

All

Languages

All

Stemming

Single Family Member

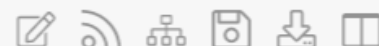
Include NPL

Reset

Search

FR_ALLTXT:("champignon antifongiques"~22 OR "champignon antimycotique"~22 OR "champignon antimycosiques"~22)

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



Sort: Relevance ▼ Per page: 100 ▼ View: All+Image ▼

< 1/8 >

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1. **WO/2017/009585** METHOD FOR DETERMINING THE DEGREE OF SENSITIVITY OF A STRAIN OF FUNGUS TO AN ANTIFUNGAL AGENT

WO - 19.01.2017

Int.Class [C12Q 1/18](#) ⓘ Appl.No PCT/FR2016/051832 Applicant UNIVERSITE GRENOBLE ALPES Inventor MORIN-ALDEBERT, Delphine, Paule, Renée

The invention relates to a method for determining the degree of sensitivity of a strain of fungus to an antifungal agent.



2. **2991524** METHOD FOR DETERMINING THE DEGREE OF SENSITIVITY OF A STRAIN OF FUNGUS TO AN ANTIFUNGAL AGENT

CA - 19.01.2017

Int.Class [C12Q 1/18](#) ⓘ Appl.No 2991524 Applicant UNIVERSITE GRENOBLE ALPES Inventor

L'invention concerne un procédé de détermination du degré de sensibilité d'une souche de **champignon** vis-à-vis d'un **antifongique**.

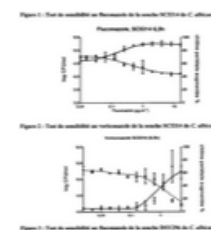


3. **3038915** PROCEDE DE DETERMINATION DU DEGRE DE SENSIBILITE D'UNE SOUCHE DE **CHAMPIGNON** VIS-A-VIS D'UN **ANTIFONGIQUE**

FR - 20.01.2017

Int.Class [C12Q 1/18](#) ⓘ Appl.No 1501489 Applicant UNIV JOSEPH FOURIER Inventor MORIN ALDEBERT DELPHINE PAULE RENEE

L'invention concerne un procédé de détermination du degré de sensibilité d'une souche de **champignon** vis-à-vis d'un **antifongique**.



Exercise

- Search all documents in French related to antimycotic agent and containing the keyword fungus
- **What are the earliest and latest publication date (exact dates) for this query?**

FR_ALLTXT:("champignon antifongiques"~22 OR "champignon antimycotique"~22 OR "champignon antimycosiques"~22)



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



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

< 1/8 >

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1. **2009971** ANTIMICROBIAL COMPOSITIONS CONTNG 2 3-DIBROMOPROPIONAMIDE

Int.Class [A01N 37/18](#) Appl.No 6917590 Applicant STERWIN AG Inventor K.G.ELLINGER

Comps. [I] contng. 2,3-dibromopropionamide [II] Antimicrobial preservatives for industrial and cosmetic uses, e.g. grinding and cutting oil emulsions, drilling lubricants, cooling water systems, paper mills, pigment dispersions, waxes, paints, glues, cosmetic creams, lotions, and shampoos. [I] have wide antibacterial and antifungal activity, and are relatively stable and free of odour, and of interaction with the material being preserved.

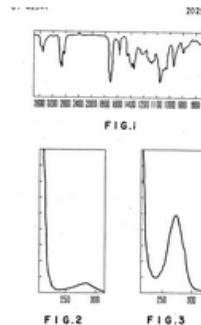
FR - 13.02.1970

NO
IMAGE
AVAILABLE

2. **2025713**

Int.Class [A61K 35/74](#) Appl.No 6942549 Applicant KAKEN KAGAKU KK Inventor

FR - 11.09.1970



3. **2034472**

Int.Class [A61K 38/00](#) Appl.No 7001552 Applicant AGRICURA LABOR LTD Inventor

FR - 11.12.1970

NO
IMAGE
AVAILABLE

FR_ALLTXT:("champignon antifongiques"~22 OR "champignon antimycotique"~22 OR "champignon antimycosiques"~22)

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



Sort: Pub Date Desc

Per page: 100 View: All+Image

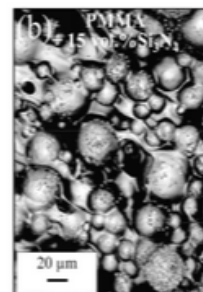
1 / 8

Download Machine translation

1. [WO/2021/150966](#) ANTIFUNGAL COMPOSITES AND METHODS THEREOF

Int.Class [A01N 59/00](#) Appl.No PCT/US2021/014725 Applicant SINTX TECHNOLOGIES, INC. Inventor BAL, Bhajanjit Singh

Disclosed herein are antifungal composites, devices, and methods to reduce or prevent a fungus from growing on the antifungal composite. The antifungal composite and devices thereof may include a biocompatible polymer and a Si₃N₄ powder loaded in at least a portion of the biocompatible polymer. The polymer may be a thermoplastic polymer such as a poly[methyl methacrylate] (PMMA) resin and the Si₃N₄ powder may be present in a concentration of about 1 vol.% to about 30 vol.% in the thermoplastic polymer.



WO - 29.07.2021

2. [3104904](#) COMPOSITION COMPRENANT DU BICARBONATE DE POTASSIUM ET UTILISATION POUR TRAITER ET/OU PROTÉGER LES CULTURES

Int.Class [A01N 31/02](#) Appl.No 1915304 Applicant SCEA DU CHATEAU MONTROSE Inventor DECUP VINCENT

La présente invention concerne une nouvelle composition comprenant du bicarbonate de potassium, du glycérol et au moins un excipient, de préférence un excipient acceptable sur le plan phytosanitaire, de préférence un excipient essentiellement biosourcé, ledit excipient étant choisi parmi les tensioactifs non-ioniques, les polysaccharides, les polymères cationiques hydrosolubles et une combinaison quelconque de ceux-ci. La présente invention porte également sur l'utilisation d'une telle composition et sur une méthode comprenant l'utilisation d'une telle composition, pour traiter et/ou protéger les cultures, de préférence les vignes. La présente invention concerne en outre une méthode de protection et/ou de traitement des cultures, comprenant l'application d'une telle composition sur les cultures à protéger et/ou traiter, dans laquelle les cultures sont de préférence des vignes.



FR - 25.06.2021

3. [WO/2021/123681](#) COMPOSITION COMPRISING POTASSIUM BICARBONATE AND USE FOR TREATING AND/OR PROTECTING CROPS

Int.Class [A01N 59/00](#) Appl.No PCT/FR2020/052556 Applicant SCEA DU CHATEAU MONTROSE Inventor DECUP, Vincent

The present invention relates to a novel composition comprising potassium bicarbonate, glycerine and at least one excipient which is selected from non-ionic surfactants, polysaccharides, water-soluble cationic polymers and any combination thereof, the excipient preferably being an acceptable excipient in terms of plant protection, preferably a substantially biosourced excipient. The present invention also relates to the use of such a composition and a method comprising the use of such a composition in order to treat and/or protect crops, preferably vines. The present invention further relates to a method for protecting and/or treating crops, comprising the application of such a composition to the crops to be protected and/or treated, in which the crops are preferably vines.



WO - 24.06.2021



Exercise

- Build a query in the English abstract containing:

tennis



but excluding



**1. 212651331 TENNIS RACKET**

CN - 05.03.2021

Int.Class A63B 49/02 Appl.No 202021166583.2 Applicant SHISHI KUAI DIKUAI SPORTS GOODS CO., LTD. Inventor ZHAO SHOUYU

The utility model discloses a **tennis racket**, which belongs to the field of sports goods and comprises a **tennis racket** frame and a **tennis racket** handle, the **tennis racket** frame is connected with the **tennis racket** handle, a **tennis** line is arranged in the **tennis racket** frame, a hollow cavity is formed in the **tennis racket** handle, one end of the **tennis racket** frame is connected with the hollow cavity, and the other end of the **tennis racket** frame is connected with the **tennis** line. The **tennis racket** comprises a **tennis racket** frame, a hollow cavity is formed in the **tennis racket** frame, a wire pulling device is arranged at the end, close to the hollow cavity, of the **tennis racket** frame, the wire pulling device is connected with a **tennis** wire, an adjusting device is arranged on the hollow cavity, and the adjusting device is in transmission connection with the wire pulling device. According to the **tennis racket** with the string pulling device, the string pulling device drives part of **tennis** strings to move close to the handle of the **tennis racket**, so that the **tennis** strings on the **tennis racket** frame are tighter, the **racket** face is harder, the effect of increasing the string penetrating weight number is achieved, and the practicability of the **tennis racket** is improved.

2. 213031801 NOVEL TENNIS RACKET

CN - 23.04.2021

Int.Class A63B 49/00 Appl.No 202021353935.5 Applicant SHISHI YONGGU SPORTING GOODS CO., LTD. Inventor ZHENG YONGHUI

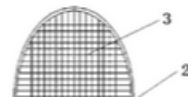
The utility model discloses a novel **tennis racket**, which belongs to the field of sports goods and comprises a **tennis racket** handle, a **tennis racket** rod and a **tennis racket** frame, a counterweight displacement device is arranged on the **tennis racket** frame, a driving structure is arranged on the **tennis racket** handle, and a connecting structure is arranged on the **tennis racket** rod. According to the **tennis racket**, external force is applied to the driving structure, so that the driving structure controls the counterweight displacement device to move through the connecting structure, the center of gravity on the **tennis racket** frame deviates, and then the whole center of gravity of the **tennis racket** deviates; therefore, the balance point of the **tennis racket** is moved, and the practicability of the **tennis racket** is improved.

3. 112386887 TENNIS RACKET WITH DAMPING FUNCTION

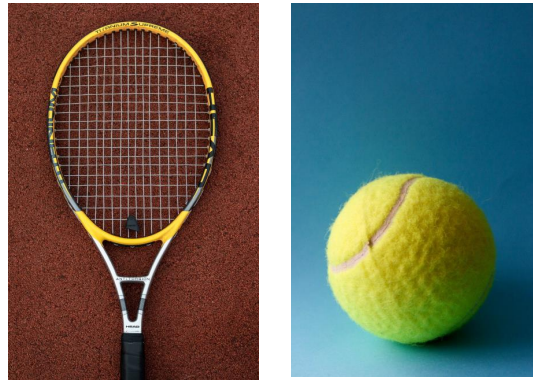
CN - 23.02.2021

Int.Class A63B 49/02 Appl.No 202011157412.8 Applicant FUYANG SHUANGLONG FIRE-PROOF DOOR CO., LTD. Inventor YU JIAFENG

The invention discloses a **tennis racket** with a damping function. The damping **tennis racket** comprises a **tennis racket** handle, a **tennis racket** head frame, **tennis** strings and an actuator. The end, close to the **tennis racket** head frame, of the **tennis racket** handle is divided into two parts to be connected with the **tennis racket** head frame, and a triangular area is formed between the **tennis racket** handle and the **tennis racket**



Exercise



- Add the following applicants:
 - Rossignol, Dunlop, Mizuno, Wilson Sporting goods co
- What are the top 5 collections?
- What does it mean that is the same amount of documents in both the *Countries* and *Offices* columns?
- Select the national collection of the Republic of Korea and list the patent family information for all documents, indicating the relationships between the members

EN_AB:(tennis AND racket) ANDNOT ball AND PA:(rossignol OR dunlop OR Mizuno OR "Wilson Sporting")



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



ANALYSIS

Close

Filters Charts Timeseries

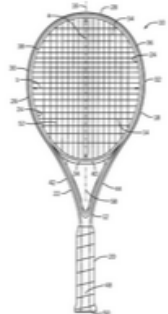
Countries		Offices		Applicants		Inventors		IPC code		CPC code		Publication Dates		Kind code	
United Kingdom	13	United Kingdom	13	DUNLOP RUBBER CO	11	GARRETT FRANK	3	A63B	44	a63b 49/02	13	1972	1	A	29
France	8	France	8	ROSSIGNOL SA	8	BERNARD LAURENCIN	2	B29C	5	a63b 60/54	8	1973	0	B1	11
Japan	6	Japan	6	DUNLOP LTD	6	CHENG PO-JEN	2	B29K	5	a63b 49/10	7	1974	1	B	3
United States of America	6	United States of America	6	MIZUNO CO	6	HIRANO KATSUHISA	2	C08J	2	a63b 49/03	6	1975	0	B2	3
European Patent Office	5	European Patent Office	5	WILSON SPORTING GOODS CO	6	MARMONIER GILLES	2	G01M	2	a63b 60/00	5	1976	1	A1	2
Republic of Korea	3	Republic of Korea	3	DUNLOP LIMITED	3	NAKAMURA SHUNTA	2	A45C	1	a63b 2049/0211	4	1977	0	B3	1
Malaysia	3	Malaysia	3	DUNLOP SPORTS CO LTD	2	OTOMO TAKAYUKI	2	A61L	1	a63b 2049/0217	4	1978	1		
China	2	China	2	GEOFFREY CHARLES BRETNALL	2	PIEGAY YVES	2	B27M	1	a63b 2209/02	4	1979	1		
New Zealand	2	New Zealand	2	REGINALD TRUESDALE	2	SEVERA WILLIAM D.	2	B29L	1	a63b 49/022	4	1980	1		
Italy	1	Italy	1	ALBERT ERNEST PENFOLD	1	ANDREW JOHN MARSDEN	1	B32B	1	a63b 49/08	4	1981	0		
				ANODE RUBBER CO LTD	1	BARRETT J	1	C08K	1	a63b 2049/0203	3	1982	1		
				DUNLOP HOLDINGS LIMITED	1	ALBERT ERNEST PENFOLD	1	C08L	1	a63b 2049/0204	3	1983	0		
				DUNLOP LIMITED A	1	BAUGH JAMES	1	D02G	1	a63b 2049/0207	3	1984	0		
						BAUVOIS JEAN	1	D02J	1	a63b 2049/0212	3	1985	0		
						CHARLES TRICOU	1	D06M	1	a63b 2049/0325	3	1986	4		
						CHOLAT-SERPOUD GERARD	1	D07B	1	a63b 60/06	3	1987	0		

1. **1020190107567** RACKET CONFIGURED TO HAVE INCREASED FLEXIBILITY IN MULTIPLE DIRECTIONS WITH RESPECT TO LONGITUDINAL AXIS

KR - 20.09.2019

Int.Class [G01M 5/00](#) ⓘ Appl.No 1020190015508 Applicant [월슨스포우팅굿즈컴파니](#) Inventor SEVERA WILLIAM D.

A [tennis racket](#) which can be tested under a lateral bending test and a forward/backward bending test while stretching in a longitudinal axis comprises: a head part; a handle part; and a frame having a neck part positioned between the head part and the handle part. The head part forms a hoop which defines a string bed plane. At least the head part and the neck part of the [racket](#) are at least partially formed of a fiber composite material. The neck part includes a pair of neck elements. The [racket](#) has a lateral deflection of at least 6.0 mm when measured in a direction perpendicular to the longitudinal axis while being parallel to the string bed plane when the [racket](#) is tested under the lateral bending test. COPYRIGHT KIPO 2020

2. **1020130077783** TUBULAR BODY OF THE FIBER-REINFORCED EPOXY RESIN MATERIAL WITH IMPROVED MECHANICAL STRENGTH INCLUDING A HARDENED MATERIAL OF EPOXY RESIN COMPOSITION WITH EXCELLENT ADHESIVENESS TO THE REINFORCE FIBER AND APPROPRIATE ELONGATION

KR - 09.07.2013

Int.Class [C08J 5/04](#) ⓘ Appl.No 1020120148372 Applicant [DUNLOP SPORTS CO., LTD.](#) Inventor SHIGA KAZUYOSHI

PURPOSE: A tubular body of the fiber-reinforced epoxy resin material is provided to have an excellent bending strength and to be able to be suitably used for a golf club shaft, fishing rod, [tennis racket](#), badminton [racket](#), etc. CONSTITUTION: A tubular body of the fiber-reinforced epoxy resin material includes a hardened material of an epoxy resin composition and a reinforced fiber. The hardened material of the epoxy resin composition has 20-42.5 mass% of a degree of swelling in methylethylketone. The epoxy resin composition includes novolac type epoxy resin, bisphenol A-type epoxy resin and bisphenol F-type epoxy resin as an epoxy resin component, dicyandiamide as a curing agent, and urea derivatives as a curing accelerator. The tensile modulus of the reinforced fiber is 10-70 t/mm². COPYRIGHT KIPO 2013 null

NO
IMAGE
AVAILABLE3. **1019820001805*** GAMES RACKETS

KR - 12.10.1982

Int.Class [A63B 49/10](#) ⓘ Appl.No 1019790000675 Applicant [Dunlop Ltd.](#) Inventor Popplewell, Frank William

A frame for [tennis](#), squash or badminton [racket](#) is molded in a single piece of thermoplastic material reinforced by 10 - 40 % of short staple carbon fibres, & gives all the required qualities of feel, control, rigidity & resistance combined with light weight. The hollow molding is produced by injection & the wall[21A] forming the outer circumference of the head is joined to the wall[21B] forming the inner circumference by cylindrical pillars or stiffening ribs, through which the stringing holes[23] pass. The head[21] of the frame at least is molded in one piece by injecting the thermoplastic mixture around a core[10] of a material having a melting pt. lower than the injection temp.

NO
IMAGE
AVAILABLE

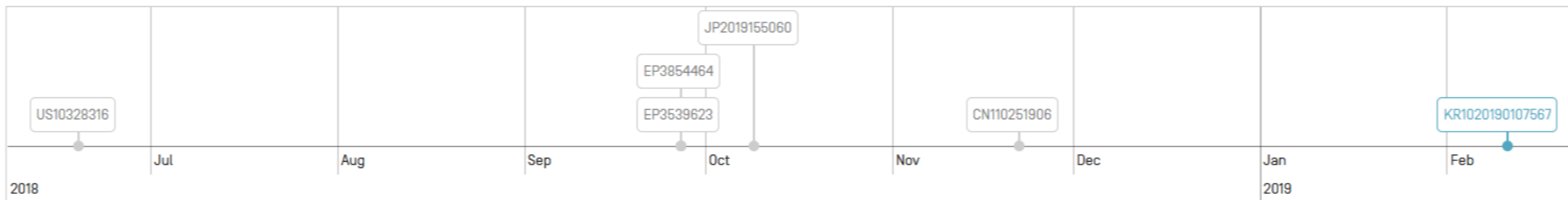
Copyright 1997 KIPO

1. KR1020190107567 - RACKET CONFIGURED TO HAVE INCREASED FLEXIBILITY IN MULTIPLE DIRECTIONS WITH RESPECT TO LONGITUDINAL AXIS



National Biblio. Data Description Claims Drawings Patent Family Compounds Documents

PermaLink



US10328316 RACQUET CONFIGURED WITH INCREASED FLEXIBILITY IN MULTIPLE DIRECTIONS WITH RESPECT TO A LONGITUDINAL

Appl.No 16012283 Applicant WILSON SPORTING GOODS CO. Pub.Kind B1

Sole priority inside the family.

Appl.Date 19.06.2018

Inclusion Criteria IC5 Pub.Date 25.06.2019

EP3539623 RACQUET CONFIGURED WITH INCREASED FLEXIBILITY IN MULTIPLE DIRECTIONS WITH RESPECT TO A LONGITUDINAL AXIS

Appl.No 18197195 Applicant WILSON SPORTING GOODS Pub.Kind A1 Pub.Lang en

Appl.Date 27.09.2018

Inclusion Criteria IC6 Pub.Date 18.09.2019

EP3854464 RACQUET CONFIGURED WITH INCREASED FLEXIBILITY IN MULTIPLE DIRECTIONS WITH RESPECT TO A LONGITUDINAL AXIS

Appl.No 21162448 Applicant WILSON SPORTING GOODS Pub.Kind A1 Pub.Lang en

Appl.Date 27.09.2018

Inclusion Criteria IC6 Pub.Date 28.07.2021

JP2019155060 RACQUET CONFIGURED WITH INCREASED FLEXIBILITY IN MULTIPLE DIRECTIONS WITH RESPECT TO LONGITUDINAL AXIS

Appl.No 2018191199 Applicant WILSON SPORTING GOODS CO Pub.Kind A Pub.Lang ja

Appl.Date 09.10.2018

Inclusion Criteria IC6 Pub.Date 19.09.2019

CN110251906 RACQUET CONFIGURED WITH INCREASED FLEXIBILITY IN MULTIPLE DIRECTIONS WITH RESPECT TO A LONGITUDINAL AXIS

Appl.No 201811397897.0 Applicant WILSON SPORTING GOODS CO. Pub.Kind A

Appl.Date 22.11.2018

Inclusion Criteria IC6 Pub.Date 20.09.2019

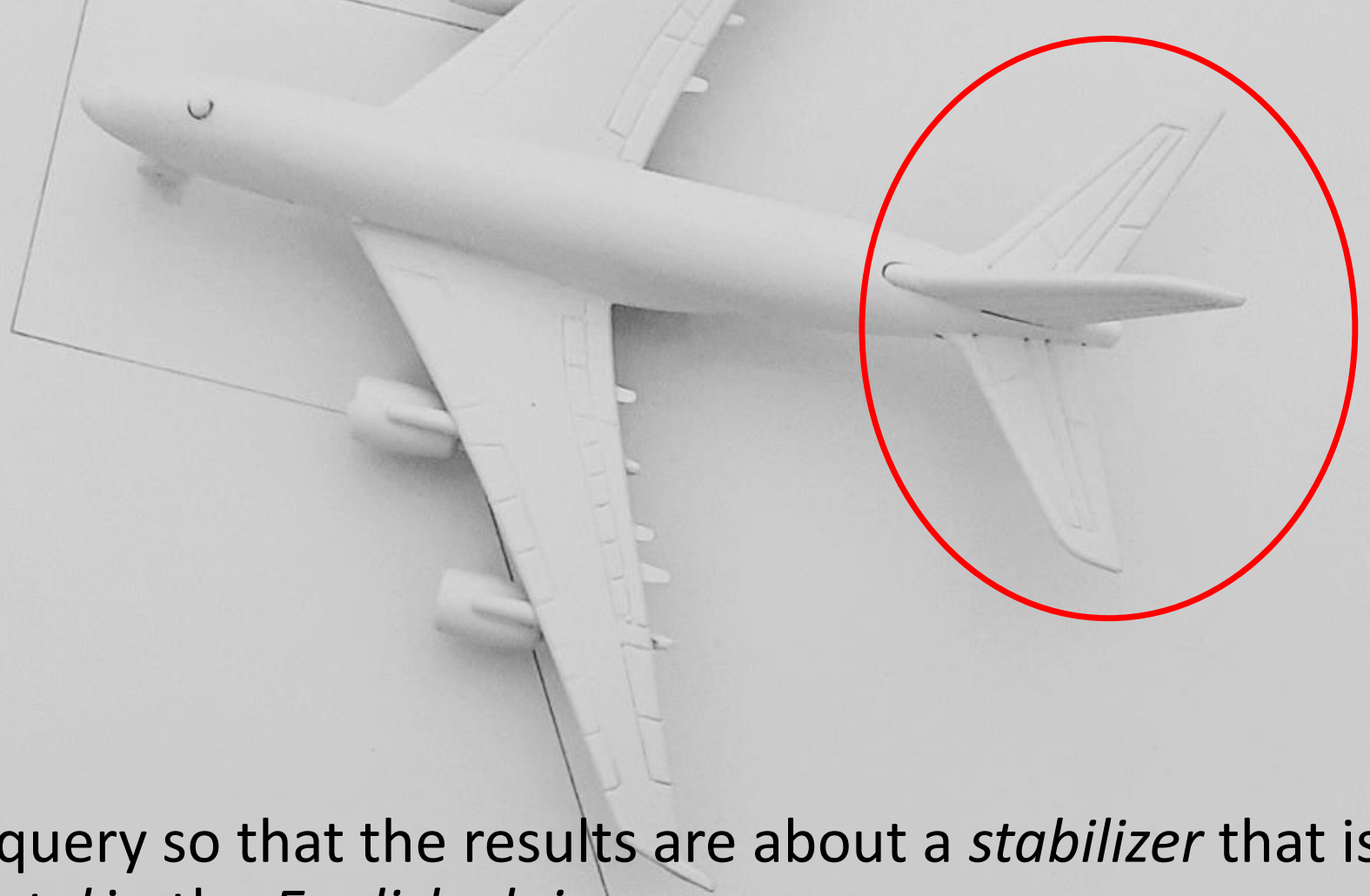
KR1020190107567 RACKET CONFIGURED TO HAVE INCREASED FLEXIBILITY IN MULTIPLE DIRECTIONS WITH RESPECT TO LONGITUDINAL AXIS

Appl.Date 11.02.2019

Inclusion Criteria IC6 Pub.Date 20.09.2019



Exercise



- Fix the following query so that the results are about a *stabilizer* that is *vertical* or *horizontal* in the *English claims* :

(EN_CL:(vertical) OR EN_CL(horizontal) AND EN_CL: (stabilizer))

Vertical or horizontal stabilizer

- English Claims = EN_CL
- Stabilizer is either vertical OR horizontal
- EN_CL:(stabilizer AND (vertical OR horizontal))
- EN_CL:(stabilizer NEAR10 (vertical OR horizontal))



Exercise: find top 3 applicants

- Subject matter: 3D printing ink
- Publication dates: 2019, 2020, 2021
- Collection: national collection of the US
- Status: grant

Exercise: find top 3 applicants

- Define keywords 3D printing

- a WIPOPearl:

- a. 3Dprinting, additive fabrication, rapid manufacturing, rapid prototyping, 3d printing solide freeform fabrication

- b. Cross lingual

CLIR

CROSS LINGUAL EXPANSION ▾

Search terms... *

3D printing ink

Query Language"

English ▾

The language of your query

Expansion Mode:

Automatic

Supervised

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

Precision level

High ▾

Influences the precision of the suggested variants.

Highest level considers only the most relevant ones [less suggested variants]

Lowest level considers the less relevant as well [more suggested variants]

Search

EN_AB:("3d printing ink"~21 OR "3d printing dyes"~21 OR "3d printing color"~21 OR "3 d printing ink"~21 OR "3 d printing dyes"~21 OR "3 d printing color"~21 OR "three dimensional printing ink"~21) OR



52,752 results Offices all Languages all Stemming true Single Family Member false Include NPL false



FULL QUERY

Close

Edit

EN_AB:("3d printing ink"~21 OR "3d printing dyes"~21 OR "3d printing color"~21 OR "3 d printing ink"~21 OR "3 d printing dyes"~21 OR "3 d printing color"~21 OR "three dimensional printing ink"~21) OR FR_AB:("encre impression tridimensionnelle"~22 OR "encre impression en trois dimensions"~22 OR "encre impression 3d"~22 OR "encre impression en 3d"~22 OR "encre impression tri dimensionnelle"~22 OR "encre impression tridimensionnelle"~22) OR DE_AB:("dreidimensionales Drucken Tinte"~22 OR "dreidimensionales Drucken Druckfarbe"~22 OR "3d Drucken Tinte"~22 OR "3d Drucken Druckfarbe"~22 OR "3D Drucken Tinte"~22 OR "3D Drucken Druckfarbe"~22 OR "dreidimensionales Drucken Ink"~22 OR "3d Drucken Ink"~22 OR "3D Drucken Ink"~22) OR ES_AB:("tinta de impresión tres dimensiones"~22 OR "tinta de impresión ed"~22 OR "tinta de imprenta tres dimensiones"~22 OR "tinta de imprenta ed"~22 OR "tinta de impresión de3d"~22 OR "tinta de imprenta de3d"~22 OR "tinta de impresión en3d"~22 OR "tinta de impresión transición3d"~22 OR "tinta de imprenta en3d"~22) OR PT_AB:("tinta de impressão a3d"~22 OR "tinta de impressão 3d"~22 OR "tinta de impressão tridimensionais"~22) OR JA_AB:("いた3dプリント 製造インク"~22 OR "いた3dプリント インキおよびその製造"~22 OR "いた3dプリントを備えた"~22 OR "いた3dプリント に作動するインク"~22 OR "いた3dプリント これを用いたインク"~22 OR "いた3dプリント 香りインク"~22 OR "いた3dプリント 含むインク"~22 OR "いた3dプリント インクインク"~22 OR "いた3dプリント インク或い"~22) OR RU_AB:("объемных печатных красок"~22 OR "3d печатных красок"~22 OR "объемных чернила для печати"~22 OR "3d чернила для печати"~22 OR "объемных и печатная краска"~22 OR "3d и печатная краска"~22 OR "объемных печатной краской"~22 OR "3d печатной краской"~22 OR "объемных типографская краска"~22) OR ZH_AB:("三维 油墨"~22 OR "立体整体 油墨"~22 OR "油墨"~21 OR "三维 印彩色"~22 OR "三维 印刷颜色"~22 OR "三维 印刷油墨或"~22 OR "三维 印刷颜料"~22 OR "三维 打印用彩色"~22 OR "立体整体 印彩色"~22) OR KO_AB:("인쇄 잉크 3차원"~22 OR "인쇄 잉크 3 디"~22 OR "인쇄 잉크 3 d"~22 OR "인쇄 잉크 3방향"~22 OR "나염잉크 3차원"~22 OR "나염잉크 3 디"~22 OR "나염잉크 3 d"~22 OR "나염잉크 3방향"~22 OR "인쇄 잉크용 3차원"~22) OR PL_AB:("3d farba drukarska"~22) OR DA_AB:("tredimensionel tryksværte"~22 OR "3d tryksværte"~22 OR "tredimensionel offsettrykfarve"~22 OR "3d offsettrykfarve"~22 OR "tredimensionel printfarve"~22 OR "3d printfarve"~22 OR "tredimensionel trykværk med farve"~22 OR "tredimensionel trykvrk med farve"~22 OR "3d trykværk med farve"~22)

WIPO Pearl

▶	› 3D-Druck	Reliability 3 / 4	...
▶	EN › additive manufacturing	Reliability 3 / 4	...
▶	› additive fabrication	Reliability 3 / 4	...
▶	› rapid manufacturing	Reliability 3 / 4	...
▶	› rapid prototyping <i>avoid</i>	Reliability 3 / 4	...
▶	› 3D Printing	Reliability 3 / 4	...
▶	› solid freeform fabrication	Reliability 3 / 4	...

ADVANCED SEARCH ▼



EN_AB:("3d printing ink"~21 OR "3d printing dyes"~21 OR "3d printing color"~21 OR "3 d printing ink"~21 OR "3 d printing dyes"~21 OR "3 d printing color"~21 OR "three dimensional printing ink"~21 OR "additive fabrication ink"~21 OR "additive fabrication dyes"~21 OR "rapid manufacturing ink"~21 OR "rapid manufacturing dyes"~21 OR "rapid prototyping ink"~21 OR "rapid prototyping dyes"~21)

Query Assistant [Query Examples](#)

+ Expand with related terms

Offices

All



Languages

All



Stemming

Single Family Member

Include NPL

Reset

Search

Exercise: find top 3 applicants

- Subject matter: 3D printing ink
- **Publication dates:2019, 2020, 2021**
- Collection: national collection of the US
- Status: grant

ADVANCED SEARCH ▾

EN_AB:(("3d printing ink"~21 OR "3d printing dyes"~21 OR "3d printing color"~21 OR "3 d printing ink"~21 OR "3 d printing dyes"~21 OR "3 d printing color"~21 OR "three dimensional printing ink"~21 OR "additive fabrication ink"~21 OR "additive fabrication dyes"~21 OR "rapid manufacturing ink"~21 OR "rapid manufacturing dyes"~21 OR "rapid prototyping ink"~21 OR "rapid prototyping dyes"~21) AND DP:[2019 TO 2021])

Query Assistant [Query Examples](#)

[+ Expand with related terms](#)

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

Reset

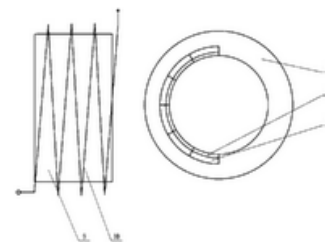
Search

Exercise: find top 3 applicants

- Subject matter: 3D printing ink
- Publication dates: 2019, 2020, 2021
- **Collection: national collection of the US**
- Status: grant

**1. 110450410 INK SUPPLYING AND DYEING DEVICE FOR 3D PRINTING COLOR EXPRESSION**Int.Class [B29C 64/118](#) Appl.No 201910864646.7 Applicant SHENZHEN KAIQI CHEMICALS CO., LTD. Inventor TANG DASHENG

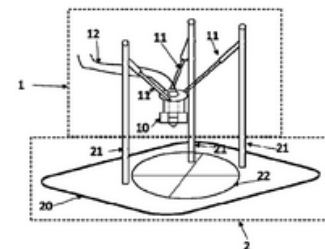
The invention discloses an ink supplying and dyeing device for 3D printing color expression. The ink supplying and dyeing device for 3D printing color expression comprises a bracket. One side of a speed adjusting section is divided into a plurality of flow guide blocks through grooves, and flow guide magnetic sheets are arranged at the tops of the flow guide blocks. The bracket is arranged before a printing spray head of a 3D printer and used for carrying consumable items output by the 3D printer. A plurality of dyeing rollers are fixed in the mode of circularly surrounding the consumable items carried by the bracket. A control circuit is connected with a clutch and an electromagnet and controls movement of the clutch and the electromagnet. An ink supply pump is connected with an ink storage box, and when a control circuit controls the clutch to push the dyeing rollers to move towards the consumable items, the ink pump is controlled to pump ink in an ink supply area to be output from corresponding ink conveying pipes to the corresponding dyeing rollers to dye the consumable items. The ink supplying and dyeing device for 3D printing color expression solves the technical problem that an existing FDM printer can not achieve full color printing.



CN - 15.11.2019

2. 110641163 3D INK-JET PRINTING COLORING MECHANISM AND COLORING METHOD THEREOFInt.Class [B41J 3/407](#) Appl.No 201911081707.9 Applicant QILU UNIVERSITY OF TECHNOLOGY Inventor LI XIAOZHOU

The invention relates to a 3D ink-jet printing coloring mechanism and a coloring method of the 3D ink-jet printing coloring mechanism, in particular to a full-color 3D printing coloring mechanism using an ink-jet printing technology as the principle and a coloring method of the full-color 3D printing coloring mechanism. The 3D ink-jet printing coloring mechanism comprises a nozzle control mechanism and a printing stock control mechanism. A nozzle and stretchable control arms of the nozzle control mechanism are connected with ink supply channels, and the ink with different colors are fed from the ink supply channels. The printing stock control mechanism comprises a base, uniformly-distributed control arms and a printing stock bearing device. The base is square. The control arms are uniformly distributed around the base and connected with the stretchable control arms. According to the 3D ink-jet printing coloring mechanism and the coloring method of the 3D ink-jet printing coloring mechanism, a single-color or multi-color object can be printed, no requirement for the shape of the printing stock exists, the surface of the printing stock can be colored along with the shape change of the printing stock, the printing color can be changed along with the color of a design drawing, and the color which is same to the color of the design drawing is formed on the surface of the printing stock.



CN - 03.01.2020

3. 3488287 PRINTING INK, PREFERABLY 3D PRINTING INK, SPECTACLE LENS AND METHOD FOR PRODUCING A SPECTACLE LENSInt.Class [G02C 7/00](#) Appl.No 17746022 Applicant ZEISS CARL VISION INT GMBH Inventor GLÖGE THOMAS

The present invention relates to a printing ink, preferably a 3D printing ink, wherein the printing ink comprises at least one radiation curable component and, optionally, at least one dye, and the radiation curable component comprises at least one monomer from the group consisting of [meth] acrylate monomers, epoxy monomers, vinyl monomers and allyl monomers. The invention moreover relates to the use of a printing ink, preferably a 3-D printing ink, for producing a spectacle lens. Furthermore, the invention relates to a spectacle lens comprising at least one coloured and/or effect-imparting layer, wherein the spectacle lens is obtainable by a unit-by-unit arrangement of at least one volume element of a printing ink, preferably a 3D printing ink, comprising at least one radiation curable component and the coloured and/or effect-imparting layer comprises at least one volume element of a printing ink having at least one dye.

EP - 29.05.2019



EN_AB:(("3d printing ink"~21 OR "3d printing dyes"~21 OR "3d printing color"~21 OR "3 d printing ink"~21 OR "3 d printing dyes"~21 OR "3 d printing color"~21 OR "three dimensional printing ink"~21 OR "



1,416 results Offices all Languages all Stemming true Single Family Member false Include NPL false



ANALYSIS

Close

Filters Charts Timeseries

Countries		Offices		Applicants		Inventors		IPC code		CPC code		Publication Dates		Kind code	
China	994	China	1,001	XYZPRINTING INC	32	CHEN GUANGXUE	9	B33Y	699	b33y 10/00	278	2019	588	A	780
United States of America	110	United States of America	110	3D SYSTEMS INC	27	LIU YI	9	B29C	532	b33y 70/00	231	2020	610	U	282
PCT	108	PCT	108	KINPO ELECTRONICS INC	25	ZHOU FENG	9	C09D	208	b33y 30/00	170	2021	218	A1	148
European Patent Office	63	European Patent Office	73	XEROX CO	19	HSIEH HSIN-TA	7	A61L	121	b33y 80/00	131			B	109
Republic of Korea	63	Republic of Korea	64	ZHUHAI SEINE TECH CO LTD	19	THE INVENTOR HAS WAIVED THE RIGHT TO BE MENTIONED	7	B41J	90	b29c 64/112	113			B1	46
Japan	30	Japan	33	LG CHEM LTD	14	WANG JUNWEI	7	D06P	81	b33y 50/02	94			B2	33
India	13	India	13	LUXEXCEL HOLDING BV	14	XIE LINTING	7	C08L	71	b33y 40/00	93			A4	7
Canada	8	Canada	12	KOCEL INTELLIGENT FOUNDRY INDUSTRY INNOVATION CENTER CO LTD	13	YAN TAO	7	B41M	68	b29c 64/393	85			C1	5
United Kingdom	6	United Kingdom	7	SICHUAN UNIVERSITY	13	YUAN JIANGPING	7	C04B	53	b33y	77			A3	2
Australia	5	Russian Federation	6	JIANG PAN	6	HUANG YU-TING	6	C08K	49	b29c 64/209	73			T3	2
Russian Federation	5	Australia	5	LI LIN	6	C08F	37	B41F	45	b29c 64/106	67			B6	1
Singapore	3	Israel	3	LI QI	6	B28B	36	C08G	39	b29c 64/118	65			Y1	1
Denmark	2	Singapore	3	WU YANG	6	D06B	36	C08H	37	b29c 64/20	61				
Spain	2	Denmark	2	CHEN WEI	5	B22F	30	C08J	30	b29c	55				
Czech Republic	1	Spain	2	GUO YUXIONG	5	B32B	30	D06D	36	c09d 11/30	52				
Mexico	1	Czech Republic	1	HE YUHAO	5	C08J	30	B22F	30	b33y 70/10	51				
New Zealand	1	Mexico	1	HUANG WEI	5	G06T	29	B32B	30	c09d 11/03	47				
Philippines	1	New Zealand	1					C08J	30	c09d 11/101	46				
								G06T	29	b29c 64/386	45				

Exercise: find top 3 applicants

- Subject matter: 3D printing ink
- Publication dates: 2019, 2020, 2021
- Collection: national collection of the US
- **Status: grant**

ANALYSIS

Close

Filters Charts Timeseries

Countries		Offices		Applicants		Inventors		IPC code		CPC code		Publication Dates		Kind code	
United States of America	110	United States of America	110	3D SYSTEMS INC	8	JENNIFER A. LEWIS	5	B33Y	64	b33y 10/00	50	2019	41	A1	87
				PRESIDENT AND FELLOWS OF HARVARD COLLEGE	5	JORIS BISKOP	4	B29C	62	b33y 70/00	49	2020	39	B2	20
				XEROX CO	5	BO WU	3	C09D	36	b29c 64/112	26	2021	30	B1	3
				LAWRENCE LIVERMORE NATIONAL SECURITY LLC	4	DONGGU KANG	3	A61L	15	b33y 80/00	23				
				LG CHEM LTD	4	GEUNSEON AHN	3	C08G	9	b33y 30/00	21				
				LUXEXCEL HOLDING BV	4	JINHYUNG SHIM	3	C08K	9	b29c 64/393	14				
				HEWLETT PACKARD DEVELOPMENT COMPANY LP	3	KHALIL MOUSSA	3	B41J	7	b33y 50/02	13				
				KINPO ELECTRONICS INC	3	SONGWAN JIN	3	C08L	7	b29c 64/106	12				
				T AND R BIOFAB CO LTD	3	WONSOO YUN	3	G05B	7	b29c 64/118	11				
				XYZPRINTING INC	3	BENZION LANDA	2	B22F	6	b29c 64/209	11				
				ARKEMA FRANCE	2	BRADLEY P. DUNCAN	2	C08F	6	c09d 11/101	11				
				BEIJING UNIVERSITY OF TECH	2	DANIEL THERRIault	2	B28B	5	c09d 11/037	10				
				KOREA ELECTROTECH RESEARCH INSTITUTE	2	EUGENE GILLER	2	G06T	5	c09d 11/033	9				
				KOREA INSTITUTE OF SCIENCE AND TECH	2	HSIN-TA HSIEH	2	B29K	4	b29c 64/165	8				
				LANDA LABS (2012) LTD	2	JIANKANG QIU	2	H01L	4	b29c 64/40	7				
				MASSACHUSETTS	2	JULE W. THOMAS, JR.	2	B32B	3	c09d 11/107	7				
					2	LIDONG ZHAO	2	B41M	3	c09d 11/52	6				
					2	LIFANG WU	2	C04B	3	g05b 19/4099	6				
					2	LIKUN WANG	2	C08J	3	a61l 27/52	5				
					2	MENG JIAN	2	A61K	2	b28b 1/001	5				
					2	RICARDO BLOMAARD	2	B01F	2	b29c 64/124	5				
					2	SEUNG KWON SEOL	2	B01J	2	c09d 11/03	5				

USPTO Kind Codes

Summary of Usage of USPTO Kind Codes

Assigned [*] to Published Document	Appears in Yellow Book and Red Book Data Files ^{**}	Kind of document ^{***}
A	A1	Utility Patent Grant issued prior to January 2, 2001.
A1	A1	Utility Patent Application published on or after January 2, 2001
A2	A2	Second or subsequent publication of a Utility Patent Application
A9	A9	Correction published Utility Patent Application
Bn	Bn	Reexamination Certificate issued prior to January 2, 2001. NOTE: "n" represents a value 1 through 9.
B1	B1	Utility Patent Grant (no pre-grant publication) issued on or after January 2, 2001.
B2	B2	Utility Patent Grant (with pre-grant publication) issued on or after January 2, 2001.
Cn	Cn	Reexamination Certificate issued on or after January 2, 2001. NOTE: "n" represents a value 1 through 9 denoting the publication level.
Fn	Fn	Supplemental Examination Certificate published after September 16, 2012. NOTE: "n" represents a value 1 through 9 denoting the publication sequence.

EN_AB:("3d printing ink"~21 OR "3d printing dyes"~21 OR "3d printing color"~21 OR "3 d printing ink"~21 OR "3 d printing dyes"~21 OR "3 d printing color"~21 OR "three dimensional printing ink"~21 OR "



23 results [Offices all](#) [Languages all](#) [Stemming true](#) [Single Family Member false](#) [Include NPL false](#)



FULL QUERY

Close

Edit

EN_AB:("3d printing ink"~21 OR "3d printing dyes"~21 OR "3d printing color"~21 OR "3 d printing ink"~21 OR "3 d printing dyes"~21 OR "3 d printing color"~21 OR "three dimensional printing ink"~21 OR "additive fabrication ink"~21 OR "additive fabrication dyes"~21 OR "rapid manufacturing ink"~21 OR "rapid manufacturing dyes"~21 OR "rapid prototyping ink"~21 OR "rapid prototyping dyes"~21) AND DP:[2019 TO 2021] AND DTY:(B1 OR B2)

Last question

- What can you add to your query include documents in which those keywords were not used but still about this topic?
 - add IPC/CPC codes to the query



Last exercises

- Which documents will I retrieve with those queries:
 - EN_CL: solar oven AND (IADC:DE OR AADC:DE) AND PA: basf
 - EN_AB:((support OR rack) AND (bottle NEAR10 wine)) AND GN:[* TO *]
 - EN_AB:(support OR rack) AND (bottle NEAR10 wine) AND GN:[* TO *]
 - EN_DE: “sewing machine” ANDNOT PA:singer
 - EN_DE: (sewing machine) ANDNOT PA:singer

Registration: wipo.int/patentscope/en/webinar

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August 19, 2021 (English) 08:30 - 09:30 Geneva time

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- <https://www.wipo.int/reference/en/designdb/webinar/index.html>

NATIONAL COLLECTIONS - DATA COVERAGE

Offices for which PCT national phase information is available

Updated: July 20, 2021

Country	Latest Biblio	Update Frequency	Biblio Data	Abstract	Chemical Data	Chemical indexed	Doc images	OCR (full-text) Indexed	Nb records
PCT	20.07.2021	Daily	19.10.1978 - 15.07.2021	19.10.1978 - 15.07.2021	11.01.1979 - 01.07.2021	850,853	4,097,193	Total: 4,092,462 English: 2,332,377 French: 137,295 Spanish: 28,021 German: 407,943 Korean: 129,359 Japanese: 681,796 Chinese: 349,240 Russian: 21,062 Portuguese: 5,369	4,097,193
African Regional Intellectual Property Organization (ARIPO)			03.07.1985 - 28.07.2008	03.07.1985 - 28.07.2008			1,676	Total: 1,671 English: 1,671	1,868
Argentina	18.06.2021	Monthly	11.02.1965 - 26.05.2021	31.10.1990 - 26.05.2021			9,741	Total: 8,906 Spanish: 8,906	167,041
Australia	16.07.2021	Weekly	14.01.1900 - 15.07.2021	08.01.1981 - 15.07.2021				Total: 675,728 English: 675,728	1,781,609





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