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European Patent Organisation



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2017

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Advanced search

Classification search

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

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Title: 

Title or abstract: 

hair

Enter numbers with or without country code

Publication number: 

WO2008014520

Application number: 

DE201310112935

Priority number: 

WO1995US15925

Enter one or more dates or date ranges

Publication date: 

2014-12-31 or 20141231

Enter name of one or more persons/organisations

Applicant(s): 

Institut Pasteur

Inventor(s): 

Smith

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

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There is a 'quick help' function on every search screen and results screen, in the form of frequently asked

For more in-depth information a general help is also provided. It contains definitions of terms.

If you have any comments or suggestions, please write to espacenet@epo.org.

Glossary of words and terms included in the general help:

- [Abstract](#)
- ["Also published as" documents](#)
- [Applicant](#)
- [Application number](#)
- [Basic search tips](#)
- [Bibliographic data](#)
- [Boolean operators](#)
- [Cited documents](#)
- [Citing documents](#)
- [Claims](#)
- [Classification popup](#)
- [Classification searches](#)
- [Cooperative Patent Classification \(CPC\)](#)
- [Country codes](#)
- [Corresponding documents](#)
- [Country codes](#)

- [Applicant](#)
- [Application number](#)
- [Basic search tips](#)
- [Bibliographic data](#)
- [Boolean operators](#)
- [Cited documents](#)
- [Citing documents](#)
- [Claims](#)
- [Classification popup](#)
- [Classification searches](#)
- [Cooperative Patent Classification \(CPC\)](#)
- [Corresponding documents](#)
- [Country codes](#)
- [Coverage of worldwide database](#)
- [Date formats and ranges](#)
- [Default operators](#)
- [Description](#)
- [Downloading covers](#)
- [Downloading documents](#)
- [EP database](#)
- [European Classification System \(ECLA\)](#)
- [European Patent Register](#)
- [Exporting lists](#)
- [FAQs](#)
- [Filing date](#)
- [Full-text search](#)
- [Highlighting](#)
- [INPADOC legal status](#)

Smart search

Advanced search

Classification search

Quick help

→ [Are the help files available in other languages?](#)

→ [How can I go back to the index list?](#)

Help

Search term(s):

Search

Kind codes

The following is a list of European and international patent document kind codes.

EP-A documents:

European patent applications, published 18 months after filing with the EPO or 18 months after the priority date

A1	European patent application published with European search report
A2	European patent application published without European search report (search report not available at publication date)
A3	Separate publication of European search report
A4	Supplementary search report
A8	Corrected title page of A document, ie. A1 or A2 document
A9	Complete reprint of A document, ie. A1, A2 or A3 document.

EP-B documents:

European patent specifications

B1	European patent specification (granted patent)
B2	New European patent specification (amended specification after opposition procedure)
B3	European patent specification (after limitation procedure)
B8	Corrected title page of B document (i.e. B1 or B2 document)
B9	Complete reprint of B document (i.e. B1 or B2 document)

Smart search

Advanced search

Classification search

Quick help

- [Are the help files available in other languages?](#)
- [How can I go back to the index list?](#)

Help

Search term(s):

Search

Boolean operators

You can combine your search terms using the Boolean operators AND, OR and NOT. You can use a maximum of nine operators per input field, and a total of nineteen within the search mask as a whole.

The OR operator

You can use the OR operator to extend the range of your search.

Example: car OR automobile OR vehicle

This query will return all documents containing at least one of the three terms.

OR is the default operator for the [publication number](#), [publication date](#), [application number](#) and [priority number](#) fields.

The AND operator

You can use the AND operator to limit the range of your search. Your query will return only those documents which contain all the terms combined with the AND operator.

AND is the default operator for the [title](#), [abstract](#), [inventor](#), [applicant](#), [CPC](#) and [IPC](#) fields.

The NOT operator

You can also use the NOT operator to limit the range of your search.

Example: nail NOT finger

Your query will return only those documents which do not contain the term following the NOT operator.

NOT cannot be placed at the beginning of a search field. It can only be entered after a search term.

For more information on Espacenet, see the following pages:

- [Index](#)
- [Default operators](#)
- [Limitations](#)
- [Truncation](#)

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Search Result list My patents list (0) Query history Settings **Help**

Smart search

Advanced search

Classification search

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Latest updates +

Related links +

- [Index](#)
- [Smart search - entering queries](#)
- [Smart search - field identifiers](#)
- [Smart search - limitations](#)
- [Smart search - operators](#)

Smart search

The **Smart search** mask combines multiple functions into a single, easy-to-use search field so that you can enter your queries with or without [field identifiers](#).

You can enter inventor or applicant names, numbers, dates, keywords and classes in any order without having to specify the search field for each search term. You also do not need to know the exact format of the number – fuzzy logic takes care of that.

The search engine will then "guess" the field identifier and what you meant. At the top of the results list screen, the system tells you how it interpreted your search terms.

Click on **Search** in the breadcrumb navigation in order to refine your search.

Your first search in Smart search will always be performed in the worldwide database. However, once you have got the results, you can click **Search** in the breadcrumb navigation and then select the EP or WIPO databases from the dropdown menu.

For more experienced users, Smart search also accepts command line searches. The query language Smart search uses is CQL (Contextual Query Language). You can use field identifiers, which are predefined codes which help you to search for specific words.

For more information on the Smart search function see...

• [Index](#)

Smart search - field identifiers

The following table lists the field identifiers available in the **Smart search** option, together with a definition and examples of how to use them.

Field identifier	Description	Examples
in	inventor	in=smith
pa	applicant	pa=siemens
ti	title	ti="mouse trap"
ab	abstract	ab="mouse trap"
pr	priority number	pr=ep20050104792
pn	publication number	pn=ep1000000
ap	application number	ap=jp19890234567
pd	publication date	pd=20080107 OR pd="07/01/2008" OR pd=07/01/2008
ct	citation/ cited document	ct=ep1000000
cpc	Cooperative Patent Classification	cpc="A61K31/13"
ia	inventor and applicant	ia=Apple OR ia="Ries Klaus"
ta	title and abstract	ta="laser printer"
txt	title, abstract, inventor and applicant	txt=microscope lens
num	application, publication and priority number	num=ep1000000
ipc	all current and previous versions of the IPC	ipc=A63B49/08
cl	IPC and CPC	cl=C10J3



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Search Result list ★ My patents list (0) Query history Settings Help

Refine search → Results → DE102008003446 (A1) → Family

Smart search
Advanced search
Classification search

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- What is the recommended software?
- What are the recommended browsers?
- Do I need to enable cookies on my PC?

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25
10
25
50

☐ 2. Enable classification popups

The pop-up is available on search results list, bibliographic view

☒ 3. Enable highlighting

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Abstract of US2014316631 (A1)

Translate this text into ⓘ

Albanian

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A drive control **device** for a hybrid vehicle which is provided with: a first differential mechanism and a second differential mechanism which have a total of five rotary elements; and an **engine**, a first electric **motor**, a second electric **motor** and an output rotary member which are respectively connected to four rotary elements of said five rotary elements, and which has at least a first drive mode and a second drive mode in which the **engine** is operated and which are established by selectively connecting a rotary element of said five rotary elements which is connected to said **engine**, and a rotary element of said five rotary elements which is not connected to any of said **engine**, said first electric **motor**, said second electric **motor** and said output rotary member, to each other through a clutch, or selectively fixing the rotary element connected to said **engine** and the rotary element not connected to any of said **engine**, said first electric **motor**, said second electric **motor** and said output rotary member, to a stationary member through a brake, the drive control **device** comprising: a drive mode control portion configured to place the hybrid vehicle selectively in the first drive mode in which said **engine** is operated, in an engaged state of said brake and in a released state of said clutch, and the second drive mode in which said **engine** is operated, in a released state of said brake and in an engaged state of said clutch, said drive control portion inhibiting the hybrid vehicle from being placed in said second drive mode when an operating point of said **engine** lies in a predetermined region, and permitting the hybrid vehicle to be placed in said first drive mode when the operating point of the **engine** lies in said predetermined region.

Query history

☐ Select all ☐ Compact Export (CSV | XLS) X Remove selected (0)

37 items in query history list

☐ 1. C01F5/28/low

C01F5/28/low as the Cooperative Patent Classification

Approximately 157 results found in the Worldwide database on Fri, 16 Oct 2015 10:54

☐ 2. ep225

ep225 as the publication number

1 result found in the Worldwide database on Tue, 13 Oct 2015 09:54

☐ 3. electr* and offic* and wire*. jp, 2005:2010

electr* and offic* and wire* in the title or abstract AND jp as the publication number AND 2005:2010 as the publication date

16 results found in the Worldwide database on Mon, 12 Oct 2015 12:44

☐ 4. electr* and offic* and wire*. jp, 2005:2010

electr* and offic* and wire* in the title or abstract AND jp as the publication number AND 2005:2010 as the publication date

16 results found in the Worldwide database on Mon, 12 Oct 2015 12:43

☐ 5. electr* and offic* and wire*. ep or us, 2005:2010

electr* and offic* and wire* in the title or abstract AND ep or us as the publication number AND 2005:2010 as the publication date

Approximately 58 results found in the Worldwide database on Mon, 12 Oct 2015 12:42

☐ 6. electr* and offic* and wire*. ep or us, 2005:2010

electr* and offic* and wire* in the title or abstract AND ep or us as the publication number AND 2005:2010 as the publication date

Approximately 58 results found in the Worldwide database on Mon, 12 Oct 2015 12:39

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Search Result list ★ My patents list (0) Query history Settings Help

Smart search
 Advanced search
Classification search

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

◀ ▶ ⌂ ⓘ CPC [...] 2000 A »

Symbol	Classification and description	
☐ A	HUMAN NECESSITIES	
☐ B	PERFORMING OPERATIONS; TRANSPORTING	 ⓘ
☒ C	CHEMISTRY; METALLURGY	 ⓘ
☐ D	TEXTILES; PAPER	
☐ E	FIXED CONSTRUCTIONS	
☐ F	MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING	 ⓘ
☐ G	PHYSICS	 ⓘ
☐ H	ELECTRICITY	 ⓘ
☐ Y	GENERAL TAGGING OF NEW TECHNOLOGICAL DEVELOPMENTS; GENERAL TAGGING OF CROSS-SECTIONAL TECHNOLOGIES SPANNING OVER SEVERAL SECTIONS OF THE IPC; TECHNICAL SUBJECTS COVERED BY FORMER USPC CROSS-REFERENCE ART COLLECTIONS [XRACS] AND	 ⓘ

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- [What is the Cooperative Patent Classification system?](#)
- [How do I enter classification symbols?](#)
- [What do the different buttons mean?](#)
- [Can I retrieve a classification using keywords?](#)
- [Can I start a new search using the classifications listed?](#)
- [Where can I view the description of a particular CPC class?](#)
- [What is the meaning of the stars in front of the classifications found?](#)
- [What does the text in brackets mean?](#)

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A42B3/06 /low x

E05 /low x

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What is the Cooperative Patent Classification system?

The Cooperative Patent Classification (CPC) system, in force from 1 January 2013, is a bilateral system which has been jointly developed by the EPO and the USPTO. It combines the best classification practices of the two offices.

Smart search

Advanced search

Classification search

Quick help

- What is the Cooperative Patent Classification system?
- How do I enter classification symbols?
- What do the different buttons mean?
- Can I retrieve a classification using keywords?
- Can I start a new search using the classifications listed?
- Where can I view the description of a particular CPC class?
- What is the meaning of the stars in front of the classifications found?
- What does the text in brackets mean?

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C01F

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Find patents

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Cooperative Patent Classification

Search for

Search

View section

Index

A

B

C

D

E

F

G

H

Y

Navigation icons: back, forward, search, etc.

« B82Y99/00

C01 »

Symbol	Classification and description
☐ C	CHEMISTRY; METALLURGY

Chemistry

☐ C01

INORGANIC CHEMISTRY (...)

☐ C02

TREATMENT OF WATER, WASTE WATER; SEWERAGE

☐ C03

GLASS; MINERAL OR SLAG WARE

☐ C04

CEMENTS; CONCRETE; ARTIFICIAL STONE

☐ C05

FERTILISERS; MANUFACTURE THEREOF

☐ C06

EXPLOSIVES; MATCHES

☐ C07

ORGANIC CHEMISTRY (...)

☐ C08

ORGANIC MACROMOLECULAR COMPOUNDS; POLYMERS

☐ C09

DYES; PAINTS; POLISHES; COLOURING MATERIALS

☐ C10

PETROLEUM, GAS OR COKE DERIVATIVES

☐ C11

ANIMAL AND VEGETABLE OILS; FATTY ACIDS

☐ C12

BIOCHEMISTRY; BEER; SPIRITS; WINE

☐ C13

SUGAR INDUSTRY (...)

☐ C14

SKINS; HIDES; PELTS; LEATHER

Metallurgy

☐ C21

METALLURGY OF IRON

☐ C22

METALLURGY (...); FERROUS METALS (...)

☐ C23

COATING METALLIC MATERIAL; COATING MATERIAL WITH METALLIC MATERIAL (...);

CHEMICAL SURFACE TREATMENT; DIFFUSION TREATMENT OF METALLIC MATERIAL; COATING

BY VACUUM EVAPORATION, BY SPUTTERING, BY ION IMPLANTATION OR BY CHEMICAL

Chemistry

☐ C01

INORGANIC CHEMISTRY (processing powders of inorganic compounds preparatory to the manufacturing of ceramic products **C04B 33/00**; fermentation or enzyme-using processes for the preparation of elements or inorganic compounds except carbon dioxide **C12P 3/00**; obtaining metal compounds from mixtures, e.g. ores, which are intermediate compounds in a metallurgical process for obtaining a free metal **C21B**, **C22B**; production of non-metallic elements or inorganic compounds by electrolysis or electrophoresis **C25B**)

☐ C01B

NON-METALLIC ELEMENTS; COMPOUNDS THEREOF; [METALLOIDS OR COMPOUNDS THEREOF NOT COVERED BY SUBCLASS **C01C**]

☐ C01C

AMMONIA; CYANOGEN; COMPOUNDS THEREOF (metal hydrides, monoborane, diborane or addition complexes thereof **C01B 6/00**; salts of oxyacids of halogens **C01B 11/00**; peroxides, salts of peroxyacids **C01B 15/00**; thioureas, dithionates, polythionates **C01B 17/64**; compounds containing selenium or tellurium **C01B 19/00**; azides **C01B 21/08**; [compounds other than ammonia or cyanogen, containing nitrogen, non-metals and optionally metals **C01B 21/082**]; metal imides or amides **C01B 21/092**; nitrites **C01B 21/50**; [compounds of noble gases **C01B 23/0005**]; phosphides **C01B 25/08**; salts of oxyacids of phosphorus **C01B 25/16**; compounds containing silicon **C01B 33/00**; compounds containing boron **C01B 35/00**)

☐ C01D

COMPOUNDS OF ALKALI METALS, i.e. LITHIUM, SODIUM, POTASSIUM, RUBIDIUM, CAESIUM, OR FRANCIUM (metal hydrides [monoborane, diborane or addition complexes thereof] **C01B 6/00**; salts of oxyacids of halogens **C01B 11/00**; peroxides, salts of peroxyacids **C01B 15/00**; sulfides **C01B 17/22**; thioureas, dithionates, polythionates **C01B 17/64**; compounds containing selenium or tellurium **C01B 19/00**; binary compounds of nitrogen with metals **C01B 21/06**; azides **C01B 21/08**; [compounds other than ammonia and cyanogen, containing nitrogen and other non-metals **C01B 21/082**]; metal amides **C01B 21/092**; nitrites **C01B 21/50**; phosphides **C01B 21/50**; [compounds of noble gases **C01B 23/0005**]; phosphides **C01B 25/08**; salts of oxyacids of phosphorus **C01B 25/16**; carbides **C01B 31/30**; compounds containing silicon **C01B 33/00**; compounds containing boron **C01B 35/00**; cyanides **C01C 3/08**; salts of cyanic acid **C01C 3/14**; salts of cyanamide **C01C 3/16**; thiocyanates **C01C 3/20**)

☒ C01F

COMPOUNDS OF THE METALS BERYLLIUM, MAGNESIUM, ALUMINIUM, CALCIUM, STRONTIUM, BARIUM, RADIUM, THORIUM, OR OF THE RARE-EARTH METALS (metal hydrides [monoborane, diborane or addition complexes thereof] **C01B 6/00**; salts of oxyacids of halogens **C01B 11/00**; peroxides, salts of peroxyacids **C01B 15/00**; sulfides or polysulfides of magnesium, calcium, strontium, or barium **C01B 17/42**; thioureas, dithionates, polythionates **C01B 17/64**; compounds containing selenium or tellurium **C01B 19/00**; binary compounds of nitrogen with metals **C01B 21/06**; azides **C01B 21/08**; [compounds other than ammonia or cyanogen containing nitrogen and non-metals and optionally metals **C01B 21/082**; amides or imides of silicon **C01B 21/087**]; metal [imides or] amides **C01B 21/092**; [nitrites **C01B 21/50**; [compounds of noble gases **C01B 23/0005**]; phosphides **C01B 25/08**; salts of oxyacids of phosphorus **C01B 25/16**; carbides **C01B 31/30**; compounds containing silicon **C01B 33/00**; compounds containing boron **C01B 35/00**; compounds having molecular sieve properties but not having base-exchange properties **C01B 37/00**; compounds having molecular sieve and base-exchange properties, e.g. crystalline zeolites, **C01B 39/00**; cyanides **C01C 3/08**; salts of cyanic acid **C01C 3/14**; salts of cyanamide **C01C 3/16**; thiocyanates **C01C 3/20**; [double sulfates of magnesium with sodium or potassium **C01D 5/12**; with other alkali metals **C01D 15/00**; **C01D 17/00**])

☐ C01G

COMPOUNDS CONTAINING METALS NOT COVERED BY SUBCLASSES **C01D** OR **C01F** (metal hydrides [monoborane, diborane or addition complexes thereof] **C01B 6/00**; salts of oxyacids of halogens **C01B 11/00**; peroxides, salts of peroxyacids **C01B 15/00**; thioureas,

- [What is the Cooperative Patent Classification system?](#)
- [How do I enter classification symbols?](#)
- [What do the different buttons mean?](#)
- [Can I retrieve a classification using keywords?](#)
- [Can I start a new search using the classifications listed?](#)
- [Where can I view the description of a particular CPC class?](#)
- [What is the meaning of the stars in front of the classifications found?](#)
- [What does the text in brackets mean?](#)

Symbol	Classification and description
Chemistry	
☐ C01	INORGANIC CHEMISTRY (...)
☐ C01F	COMPOUNDS OF THE METALS BERYLLIUM, MAGNESIUM, ALUMINIUM, CALCIUM, STRONTIUM, BARIUM, RADIUM, THORIUM, OR OF THE RARE-EARTH METALS (...)
☐ C01F 1/00	Methods of preparing compounds of the metals beryllium, magnesium, aluminium, calcium, strontium, barium, radium, thorium, or the rare earths, in general
☐ C01F 3/00	Compounds of beryllium
☐ C01F 5/00	Compounds of magnesium
☐ C01F 5/02	• Magnesias
☐ C01F 5/04	•• by oxidation of metallic magnesium
☐ C01F 5/06	••• by thermal decomposition of magnesium compounds (...)
☐ C01F 5/08	•••• by calcining magnesium hydroxide
☐ C01F 5/10	••••• by thermal decomposition of magnesium chloride with water vapour
☐ C01F 5/12	••••• by thermal decomposition of magnesium sulfate, with or without reduction
☐ C01F 5/14	• Magnesium hydroxide
☐ C01F 5/145	•• {Purification}
☐ C01F 5/16	••• by treating magnesia, e.g. calcined dolomite, with water or solutions of salts not containing magnesium
☐ C01F 5/20	•••• by precipitation from solutions of magnesium salts with ammonia
☐ C01F 5/22	••••• from magnesium compounds with alkali hydroxides or alkaline- earth oxides or hydroxides
☐ C01F 5/24	• Magnesium carbonates
☐ C01F 5/26	• Magnesium halides
☒ C01F 5/28	•• Fluorides
☐ C01F 5/30	•• Chlorides
☐ C01F 5/305	•••• {Dehydrating ammonium or alkali magnesium chlorides, e.g. carnalite}
☐ C01F 5/32	••••• Preparation of anhydrous magnesium chloride by chlorinating magnesium compounds
☐ C01F 5/34	••••• Dehydrating magnesium chloride containing water of crystallisation
☐ C01F 5/36	•• Bromides
☐ C01F 5/38	• Magnesium nitrates
☐ C01F 5/40	• Magnesium sulfates (...)

Selected classifications

C01F5/28

/low



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- [How many search terms can I enter per field?](#)
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- [How do I enter words from the description or claims?](#)
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- [How do I enter publication, application, priority and NPL reference numbers?](#)
- [How do I enter the names of persons and organisations?](#)
- [What is the difference between the IPC and the CPC?](#)
- [What formats can I use for the publication date?](#)
- [How do I enter a date range for a publication date search?](#)
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Application number: DE19971031696

Priority number: WO1995US15925

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Applicant(s): Institut Pasteur

Inventor(s): Smith

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☐ 1. MAGNESIUM FLUORIDE SOL AND OPTICALLY ACTIVE SURFACE COATINGS DERIVED THEREOF

★ Inventor: KEMNITZ
ERHARD [DE] Applicant: NANOFLUOR GMBH [DE]

☐ 2. Process for production of magnesium fluoride sol solution

★ Inventor: Applicant:

☐ 3. PROCESS FOR THE PRODUCTION OF MAGNESIUM FLUORIDE PARTICLE DISPERSION, METHOD FOR PRODUCING MAGNESIUM FLUORIDE PARTICLE DISPERSION, COMPOSITION FOR FORMING LAYER HAVING LOW REFRACTIVE INDEX, SUBSTRATE WITH LAYER HAVING LOW REFRACTIVE INDEX, AND METHOD FOR PRODUCING SUBSTRATE WITH LAYER HAVING LOW REFRACTIVE INDEX

★ Inventor: KEMNITZ
ERHARD [DE] Applicant: NANOFLUOR GMBH [DE]

☐ 4. METHOD FOR PRODUCING HOLLOW PARTICLES, HOLLOW PARTICLE DISPERSION, METHOD FOR PRODUCING HOLLOW PARTICLE DISPERSION, COMPOSITION FOR FORMING LAYER HAVING LOW REFRACTIVE INDEX, SUBSTRATE WITH LAYER HAVING LOW REFRACTIVE INDEX, AND METHOD FOR PRODUCING SUBSTRATE WITH LAYER HAVING LOW REFRACTIVE INDEX

★ Inventor: KAMENO YU [JP]
OGANE MASANOBU [JP] (+1) Applicant: CANON KK [JP]

☐ 5. MAGNESIUM FLUORIDE PARTICLE, METHOD FOR PRODUCING MAGNESIUM FLUORIDE PARTICLE, METHOD FOR PRODUCING MAGNESIUM FLUORIDE PARTICLE DISPERSION, METHOD FOR PRODUCING MAGNESIUM FLUORIDE PARTICLE DISPERSION, COMPOSITION FOR FORMING LAYER HAVING LOW REFRACTIVE INDEX, METHOD FOR PRODUCING COMPOSITION FOR FORMING LAYER HAVING LOW REFRACTIVE INDEX, SUBSTRATE WITH LAYER HAVING LOW REFRACTIVE INDEX, AND METHOD FOR PRODUCING SUBSTRATE WITH LAYER HAVING LOW REFRACTIVE INDEX

★ Inventor: Applicant:

☐ 5. MAGNESIUM FLUORIDE PARTICLE, METHOD FOR PRODUCING MAGNESIUM FLUORIDE PARTICLE, METHOD FOR PRODUCING MAGNESIUM FLUORIDE PARTICLE DISPERSION, METHOD FOR PRODUCING MAGNESIUM FLUORIDE PARTICLE DISPERSION, COMPOSITION FOR FORMING LAYER HAVING LOW REFRACTIVE INDEX, METHOD FOR PRODUCING COMPOSITION FOR FORMING LAYER HAVING LOW REFRACTIVE INDEX, SUBSTRATE WITH LAYER HAVING LOW REFRACTIVE INDEX, AND METHOD FOR PRODUCING SUBSTRATE WITH LAYER HAVING LOW REFRACTIVE INDEX

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
		C01B33/107	C01B33/107	KR20150017700 (A)	2012-05-29
		C01B9/08	C01B9/08	2015-02-17	
		(+13)	C01F5/28		
			(+2)		

☐ 6. USE OF A KMgF3 COMPOUND FOR TRAPPING METALS IN THE FORM OF FLUORIDES AND/OR OXYFLUORIDES IN A GASEOUS OR A LIQUID PHASE

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
MOREL	COMURHEX SOC POUR LA	B01D2251/306	B01D53/02	KR20140037154 (A)	2011-06-09
BERTRAND [FR]	CONVERSION DE L'URANIUM EN	B01D2251/402	B01D53/68	2014-03-26	
LEITE	METAL ET HEXAFLUORURE [FR]	B01D53/02	B01J20/04		
LORRAINE [FR]		(+20)	(+4)		
(+5)					

☐ 7. ORGANOSOL OF FLUORIDE COLLOID PARTICLE AND METHOD FOR PRODUCTION THEREOF

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
		B01J13/00	B01J13/00	JP5282885 (B2)	2006-10-20
		C01F5/28	C01F5/28	2013-09-04	
		C01P2002/80	C09C1/00		
		(+5)	(+1)		

☐ 8. METHOD OF PRODUCING HOLLOW MAGNESIUM FLUORIDE PARTICLES, AND ANTIREFLECTION COATING, OPTICAL DEVICE, AND IMAGING OPTICAL SYSTEM HAVING THE PARTICLES

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
KAMENO YU [JP]	KAMENO YU [JP]	B82Y30/00	C09D5/00	US2013188255 (A1)	2010-10-04
OGANE MASANOBU [JP]	OGANE MASANOBU [JP]	C01F5/28	G02B1/11	2013-07-25	
(+1)	(+2)	C01P2004/34			
		(+8)			

☐ 9. Solvothermal synthesis of the complex fluorides KMgF3 and KZnF3 with the Perovskite structures

C01B9/08	C01B9/08	2015-02-17
(+13)	C01F5/28	

Bibliographic data

Description

Claims

Mosaics

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Bibliographic data: WO2012168420 (A1) — 2012-12-13

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USE OF A KMGF3 COMPOUND FOR TRAPPING METALS IN THE FORM OF FLUORIDES AND/OR OXYFLUORIDES IN A GASEOUS OR A LIQUID PHASE

Page bookmark [WO2012168420 \(A1\) - USE OF A KMGF3 COMPOUND FOR TRAPPING METALS IN THE FORM OF FLUORIDES AND/OR OXYFLUORIDES IN A GASEOUS OR A LIQUID PHASE](#)

Inventor(s): MOREL BERTRAND [FR]; LEITE LORRAINE [FR]; MOCH LAURENT [FR]; DEMOURGUES ALAIN [FR]; CLARENC ROMAIN [FR]; TRESSAUD ALAIN [FR]; DURAND ETIENNE [FR] ±

Applicant(s): COMURHEX SOC POUR LA CONVERSION DE L URANIUM EN METAL ET HEXAFLUORURE [FR]; MOREL BERTRAND [FR]; LEITE LORRAINE [FR]; MOCH LAURENT [FR]; DEMOURGUES ALAIN [FR]; CLARENC ROMAIN [FR]; TRESSAUD ALAIN [FR]; DURAND ETIENNE [FR] ±

Classification:

- international: B01D53/02; B01D53/68; B01J20/04; C01B9/08; C01D3/00
- cooperative: B01D53/02; B01D53/68; B01J20/04; B01J20/28004; B01J20/3085; C01D3/02; C01F5/28; C01G43/063; C22G21F9/04; G21F9/06; B01D2251/306; B01D2251/402; Y02C20/30; Y02W30/883

Application number: WO2012EP60875 20120608

Priority number(s): FR20110055055 20110609

Also published as: [US2014112846 \(A1\)](#) [US8858901 \(B2\)](#) [KR20140037154 \(A\)](#) → more

Abstract of WO2012168420 (A1)

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The invention relates to the use of a compound having the formula $KMgF_3$ to trap metals in the form of fluorides and/or oxyfluorides in a gaseous or liquid phase. The invention also relates to a compound having the formula $KMgF_3$ and a specific surface area that is at least equal to 30 m²/g and at most equal to 150 m²/g, as well as to the methods for preparing same. The invention can be used in particular in the nuclear industry, in which it can be advantageously used to purify uranium hexafluoride (UF₆) in a stream of gas or liquid with respect to metal impurities also in said stream.

CPC - B01J20/046

scheme images

Symbol

Classification and description

PERFORMING OPERATIONS; TRANSPORTING

B01 Separating; Mixing

B01J PHYSICAL OR CHEMICAL PROCESSES OR APPARATUS IN GENERAL (furnaces, kilns, ovens, retorts in general F27)

B01J CHEMICAL OR PHYSICAL PROCESSES, e.g. CATALYSIS, COLLOID CHEMISTRY; THEIR RELEVANT APPARATUS (processes or apparatus for specific applications, see the relevant places for these processes or apparatus, e.g. F26B 3/08)

B01J 20/00 Solid sorbent compositions or filter aid compositions; Sorbents for chromatography; Catalysts

B01J 20/02 Solid sorbent compositions or filter aid compositions; Sorbents for chromatography; Processes for preparing, regenerating or reactivating thereof (use of sorbent compositions in liquid separation B01D 15/00, use of filter aid compositions B01D 37/02, use of sorbent compositions in gas separation B01D 53/02, B01D 53/14)

- comprising inorganic material
- comprising compounds of alkali metals, alkaline earth metals or magnesium
- containing halogens, e.g. halides

AA. Number of counts

FIG.3

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(19) Organisation Mondiale de la
Propriété Intellectuelle
Bureau international



(10) Numéro de publication internationale

WO 2012/168420 A1

(43) Date de la publication internationale
13 décembre 2012 (13.12.2012)

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(51) Classification internationale des brevets :

B01D 53/02 (2006.01) C01F 5/28 (2006.01)
B01D 53/68 (2006.01) B01J 20/04 (2006.01)
C01B 9/08 (2006.01) C01G 43/06 (2006.01)
C01D 3/02 (2006.01)

(21) Numéro de la demande internationale :

PCT/EP2012/060875

(22) Date de dépôt international :

8 juin 2012 (08.06.2012)

(25) Langue de dépôt :

français

(26) Langue de publication :

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(30) Données relatives à la priorité :

1155055 9 juin 2011 (09.06.2011) FR

(71) Déposant (pour tous les États désignés sauf US) : COMU-
RHEX SOCIETE POUR LA CONVERSION DE
L'URANIUM EN METAL ET HEXAFLUORURE
[FR/FR]; Zone Industrielle du Tricastin, F-26701 Pierre-
latte (FR).

(72) Inventeurs ; et

(75) Inventeurs/Déposants (pour US seulement) : MOREL,
Bertrand [FR/FR]; 8 chemin Machinette, F-26130 Saint
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Quartier Salivaud, F-07700 Saint Marcel d'Ardeche (FR).
MOCH, Laurent [FR/FR]; 12 rue du diu Mithra, F-
07700 Bourg Saint Andeol (FR). DEMOURGUES, Alain
[FR/FR]; 6 Allée du pin parasol, F-33600 Pessac (FR).
CLARENC, Romain [FR/FR]; 379 la palanque d'ar-
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Alain [FR/FR]; 28 rue des Poilus, F-33600 Pessac (FR).
DURAND, Etienne [FR/FR]; 9 rue Saint Sever, F-33440
Ambares Et Lagrave (FR).

(74) Mandataires : ILGART, Jean-Christophe et al.; Brevax-
lex, 95 rue d'Amsterdam, F-75378 Paris Cedex 8 (FR).

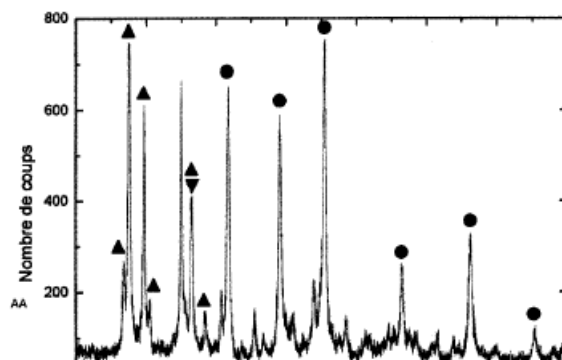
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(84) États désignés (sauf indication contraire, pour tout titre
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[Suite sur la page suivante]

(54) Title : USE OF A $KMgF_3$ COMPOUND FOR TRAPPING METALS IN THE FORM OF FLUORIDES AND/OR OXY-
FLUORIDES IN A GASEOUS OR A LIQUID PHASE

(54) Titre : UTILISATION D'UN COMPOSÉ $KMgF_3$ POUR PIÉGER DES MÉTAUX PRÉSENTS SOUS FORME DE FLUO-
RURES ET/OU D'OXYFLUORURES DANS UNE PHASE GAZEUSE OU LIQUIDE



(57) Abstract : The invention relates to the use of a compound having the formula $KMgF_3$ to trap metals in the form of fluorides and/or oxyfluorides in a gaseous or liquid phase. The invention also relates to a compound having the formula $KMgF_3$ and a specific surface area that is at least equal to $30 \text{ m}^2/\text{g}$ and at most equal to $150 \text{ m}^2/\text{g}$, as well as to the methods for preparing same. The invention can be used in particular in the nuclear industry, in which it can be advantageously used to purify uranium hexafluoride (UF_6) in a stream of gas or liquid with respect to metal impurities also in said stream.

(57) Abrégé : L'invention se rapporte à l'utilisation d'un composé de formule $KMgF_3$ pour piéger des métaux présents

420 A1

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(43) Date de la publication internationale
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(51) Classification internationale des brevets :
B01D 53/02 (2006.01) C01F 5/28 (2006.01)
B01D 53/68 (2006.01) B01J 20/04 (2006.01)
C01B 9/08 (2006.01) C01G 43/06 (2006.01)
C01D 3/02 (2006.01)

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PCT/EP2012/060875

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(72) Inventeurs; et

(75) Inventeurs/Déposants (pour US seulement) : MOREL, Bertrand [FR/FR]; 8 chemin Machinette, F-26130 Saint Paul Trois Châteaux (FR). LETTE, Lorraine [FR/FR];

(74) Mandataires : ILGART, Jean-Christophe et al.; Brevalex, 95 rue d'Amsterdam, F-75378 Paris Cedex 8 (FR).

(81) États désignés (sauf indication contraire, pour tout titre de protection nationale disponible) : AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) États désignés (sauf indication contraire, pour tout titre de protection régionale disponible) : ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ,

(54) Title : USE OF A $KMgF_3$ COMPOUND FOR TRAPPING METALS IN THE FORM OF FLUORIDES AND/OR OXYFLUORIDES IN A GASEOUS OR A LIQUID PHASE

(54) Titre : UTILISATION D'UN COMPOSÉ $KMgF_3$ POUR PIÉGER DES MÉTAUX PRÉSENTS SOUS FORME DE FLUORURES ET/OU D'OXYFLUORURES DANS UNE PHASE GAZEUSE OU LIQUIDE

8420 A1

(57) Abstract : The invention relates to the use of a compound having the formula $KMgF_3$ to trap metals in the form of fluorides and/or oxyfluorides in a gaseous or liquid phase. The invention also relates to a compound having the formula $KMgF_3$ and a specific surface area that is at least equal to 30 m²/g and at most equal to 150 m²/g, as well as to the methods for preparing same. The invention can be used in particular in the nuclear industry, in which it can be advantageously used to purify uranium hexafluoride (UF_6) in a stream of gas or liquid with respect to metal impurities also in said stream.

(57) Abrégé : L'invention se rapporte à l'utilisation d'un composé de formule $KMgF_3$ pour piéger des métaux présents sous forme de fluorures et/ou d'oxyfluorures.

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FIG.1

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INTERNATIONAL SEARCH REPORT

International application No

PCT/EP2012/060875

A. CLASSIFICATION OF SUBJECT MATTER

INV. B01D53/02 B01D53/68 C01B9/08 C01D3/02 C01F5/28
 B01J20/04 C01G43/06

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KRISHNA MURTHY ET AL: "Sol-gel-fluorination synthesis of amorphous magnesium fluoride", JOURNAL OF SOLID STATE CHEMISTRY, ORLANDO, FL, US, vol. 179, no. 3, 1 March 2006 (2006-03-01) , pages 739-746, XP005300813, ISSN: 0022-4596, DOI: 10.1016/J.JSSC.2005.11.033	18
A	abstract page 740, column 1, paragraph 2.1 page 744, column 2, paragraph 3.4 - page 745, column 1, paragraph 3.4 -----	1-17, 19
X	GB 1 051 608 A (CHEMICALS & PHOSPHATES LTD.) 14 December 1966 (1966-12-14)	19
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WO F 2012060875 W (Patent of invention)

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Code Expl.: EP: THE EPO HAS BEEN INFORMED BY WIPO THAT EP WAS DESIGNATED IN THIS APPLICATION

CC OF CORRESP. PAT. : EP

CORRESP. PATENT D. : 12729085

KD OF CORRESP. PAT. : A1

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CC OF CORRESP. PAT. : CA

CORRESP. PATENT D. : 2837849

Event date : 2013/12/06

Event code : WWE

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CC OF CORRESP. PAT. : US

CORRESP. PATENT D. : 14124545

Event date : 2013/12/09

Event code : NENP DE

Code Expl.: NON-ENTRY INTO THE NATIONAL

Event date : 2013/12/30

Event code : ENP

Code Expl.: ENTRY INTO THE NATIONAL PHASE

CC OF CORRESP. PAT. : KR

CORRESP. PATENT D. : 20137035013

Status

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Database last updated on 15.10.2015

European Patent Register

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Applicant(s)

Inventor(s)

Grant of patent is intended
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28.06.2015
For all designated states
Comumex Société pour la Conversion de l'Uranium en Métal et Hexafluorure
Zone Industrielle du Tricastin
26701 Pierrelatte / FR

[2014/16]
01 / MOREL, Bertrand
8 chemin Machinette
F-26130 Saint Paul Trois Chateaux / FR

02 / LEITE, Lorraine
Quartier Salivaud
F-07700 Saint Marcel d'Ardeche / FR

03 / MOCH, Laurent
12 rue du dieu Mithra
F-07700 Saint Marcel d'Ardeche / FR

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USE OF A KMGF3 COMPOUND FOR TRAPPING METALS IN THE FORM OF FLUORIDES AND/OR OXYFLUORIDES IN A GASEOUS OR A LIQUID PHASE

Application No.	Publication No.	Applicant	IPC
EP12729085	EP2717993	Comurhex Société pour la Conversion de l'Uranium en Métal et Hexafluorure	B01D53/02 B01D53/68 C01B9/08 (+4)

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Status	Application No.	Publication No.	Proprietor	Invalidation date	Not in force since	Renewal fees last paid	Register last updated
CZ	No data provided by the national patent office for this patent						
FI	No data provided by the national patent office for this patent						
LU	This service is currently unavailable						
RS	No data provided by the national patent office for this patent						
RO	No data provided by the national patent office for this patent						
SI	No data provided by the national patent office for this patent						

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Designated contracting states AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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Event history: EP2717993

Date	Description	European Patent Bulletin date, issue number
28.06.2015	New entry: Communication of intention to grant a patent	
27.05.2015	New entry: Renewal fee paid	published on 17.09.2014 ▶ [2014/38]
15.08.2014	Change - extension states	
11.07.2014	Amendment by applicant	
08.04.2014	New entry: Renewal fee paid	published on 16.04.2014 ▶ [2014/16]
14.03.2014	Publication in section I.1 EP Bulletin	published on 16.04.2014 ▶ [2014/16]
14.03.2014	Request for examination filed	
19.02.2014	PCT data prior to European publication	
15.01.2014	PCT data prior to European publication	
17.12.2013	PCT data prior to European publication	
10.12.2013	PCT data prior to European publication	
07.01.2013	PCT data prior to European publication	
14.12.2012	PCT data prior to European publication	
04.07.2012	PCT data prior to European publication	

National patent registers

Designated contracting state

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

LU

Family list: WO2012168420 (A1) — 2012-12-13

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9 application(s) for: WO2012168420 (A1)

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☐ 1. USE OF A KMGF3 COMPOUND FOR TRAPPING METALS IN THE FORM OF FLUORIDES AND/OR OXYFLUORIDES IN A GASEOUS OR A LIQUID PHASE

★ Inventor:	Applicant:	CPC:	Citations:	Publication in
MOREL	COMURHEX SOC POUR LA	B01D2251/306	GB1051608 A 00000000	WO2012168420
BERTRAND	CONVERSION DE L	B01D2251/402	US3178258 A 19650413	2012-12-13
[FR]	URANIUM EN METAL ET	B01D53/02	US3625661 A 19711207	
LEITE	HEXAFLUORURE [FR]	(+20)	US4364906 A 19821221	
LORRAINE	MOREL BERTRAND [FR]		US5826163 A	
[FR]	(+6)		(+3)	
(+5)				

☐ 2. Use of a KMGF3 compound for trapping metals in the form of fluorides and/or oxyfluorides in a gaseous or a liquid phase

★ Inventor:	Applicant:	CPC:	Citations:	Publication in
MOREL	COMURHEX SOC POUR LA	B01D2251/306		AU2012266257
BERTRAND	CONVERSION DE L	B01D2251/402		2014-01-16
LEITE	URANIUM EN METAL ET	B01D53/02		
LORRAINE	HEXAFLUORURE	(+20)		
[FR]				
(+5)				

☐ 3. USE OF A KMGF3 COMPOUND FOR TRAPPING METALS IN THE FORM OF FLUORIDES AND/OR OXYFLUORIDES IN A GASEOUS OR A LIQUID PHASE

★ Inventor:	Applicant:	CPC:	Citations:	Publication in
MOREL	COMURHEX SOC POUR LA	B01D2251/306		CA2837849 (A)
BERTRAND	CONVERSION DE L	B01D2251/402		2012-12-13
[FR]	URANIUM EN METAL ET	B01D53/02		
LEITE	HEXAFLUORURE [FR]	(+20)		
LORRAINE				
[FR]				
(+5)				

☐ 4. Use of a KMGF3 compound for trapping metals in the form of fluorides and/or oxyfluorides in a gaseous or a liquid phase

★ Inventor:	Applicant:	CPC:	Citations:	Publication in
MOREL	COMURHEX SOC POUR LA	B01D2251/306		CN103608084
BERTRAND	CONVERSION DE L	B01D2251/402		2014-02-26
LEITE	URANIUM EN METAL ET	B01D53/02		
LORRAINE	HEXAFLUORURE	(+20)		
[FR]				
(+5)				

☐ 5. USE OF A KMGF3 COMPOUND FOR TRAPPING METALS IN THE FORM OF FLUORIDES AND/OR OXYFLUORIDES IN A GASEOUS OR A LIQUID PHASE

★ Inventor:	Applicant:	CPC:	Citations:	Publication in
		B01D2251/306		EA201391794
		B01D2251/402		2014-04-30
		B01D53/02		
		(+20)		

☐ 6. USE OF A KMGF3 COMPOUND FOR TRAPPING METALS IN THE FORM OF FLUORIDES AND/OR OXYFLUORIDES IN A GASEOUS OR A LIQUID PHASE

Family list: WO2012168420 (A1) — 2012-12-13

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9 application(s) for: WO2012168420 (A1)

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☐ 1. USE OF A KMGF3 COMPOUND FOR TRAPPING METALS IN THE FORM OF FLUORIDES AND/OR OXYFLUORIDES IN A GASEOUS OR A LIQUID PHASE

★ Publication info: WO2012168420 (A1) 2012-12-13

☐ 2. Use of a KMGF3 compound for trapping metals in the form of fluorides and/or oxyfluorides in a gaseous or a liquid phase

★ Publication info: AU2012266257 (A1) 2014-01-16

☐ 3. USE OF A KMGF3 COMPOUND FOR TRAPPING METALS IN THE FORM OF FLUORIDES AND/OR OXYFLUORIDES IN A GASEOUS OR A LIQUID PHASE

★ Publication info: CA2837849 (A1) 2012-12-13

☐ 4. Use of a KMGF3 compound for trapping metals in the form of fluorides and/or oxyfluorides in a gaseous or a liquid phase

★ Publication info: CN103608084 (A) 2014-02-26

☐ 5. USE OF A KMGF3 COMPOUND FOR TRAPPING METALS IN THE FORM OF FLUORIDES AND/OR OXYFLUORIDES IN A GASEOUS OR A LIQUID PHASE

★ Publication info: EA201391794 (A1) 2014-04-30

☐ 6. USE OF A KMGF3 COMPOUND FOR TRAPPING METALS IN THE FORM OF FLUORIDES AND/OR OXYFLUORIDES IN A GASEOUS OR A LIQUID PHASE

★ Publication info: EP2717993 (A1) 2014-04-16

☐ 7. USE OF A KMGF3 COMPOUND FOR TRAPPING METALS IN THE FORM OF FLUORIDES AND/OR OXYFLUORIDES IN A GASEOUS OR A LIQUID PHASE

★ Publication info: FR2976281 (A1) 2012-12-14

☐ 8. USE OF A KMGF3 COMPOUND FOR TRAPPING METALS IN THE FORM OF FLUORIDES AND/OR OXYFLUORIDES IN A GASEOUS OR A LIQUID PHASE

★ Publication info: KR20140037154 (A) 2014-03-26

☐ 9. USE OF A KMGF3 COMPOUND FOR TRAPPING METALS IN THE FORM OF FLUORIDES AND/OR OXYFLUORIDES IN A GASEOUS OR A LIQUID PHASE

★ Publication info: US2014112846 (A1) 2014-04-24

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IP5

- EPO all, SIPO od 02/2010
- JPO od 01/1991, KIPO od 01/1999
- US od 01/2003, CA od 08/2015
- WIPO all

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1. Smart Net System and Method of Use

★ Inventor: COX DAIL ROBERT [US]
COX JUSTIN DEL [US]
Applicant: AUTO ELECTRONIC [US]

2. Modular electrical distribution system

★ Inventor: JOHNSON CROSS [US]
Applicant: HAWORTH INC [US]

Refine search → Results page 1 → US2005097046 (A1)

US2005097046 (A1)

Bibliographic data

Description

Claims

Mosaics

Original document

Cited documents

Citing documents

INPADOC legal status

INPADOC patent family

Quick help

Bibliographic data: US 2005 097046 (A1) — 2005-05-05

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Wireless electronic check deposit scanning and cashing machine with web-based online account cash management computer application system

Page bookmark US2005097046 (A1) - Wireless electronic check deposit scanning and cashing machine with web-based online account cash management computer application system

Inventor(s): SINGFIELD JOY S [US] ±

Applicant(s): SINGFIELD JOY S

Classification: - international: G07F19/00; (IPC1-7): G06F17/60

INPADOC legal status: US 2005 097046 (A1) — 2005-05-05

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Wireless electronic check deposit scanning and cashing machine with web-based online account cash management computer application system

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Legal status of US2005097046 (A1) 2005-05-05:

US	F	91889804 A	(Patent of invention)
Event date :	2009/09/05		
Event code :	AS		
Code Expl.:	ASSIGNMENT		
NEW OWNER :	CLISE, TIMOTHY B, MINNESOTA		
EFFECTIVE DATE :	20090904		
FURTHER INFORMATION :	ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:SINGFIELD, JOY S;REEL/FRAME:023200/0710		

G06Q20/042; G06Q20/108; G06Q20/1085; G06Q20/40; G07F19/20; G07F19/202

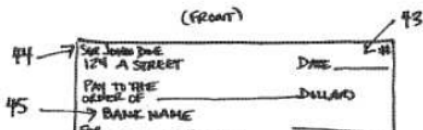
040816

040816 ; US20030532416P 20031223 ; US20030515912P 20031030

(1)

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ing and Cashing Machine (also known as account cash Management and referred to as OMS virtual/live teller) OMS" System, Method and Apparatus and/or substitute checks and money computer, laptop, Internet enabled device) and/or any Internet enabled device.



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Date	Description	Pages
26.06.2012	Abandonment	2
13.06.2012	Fee Worksheet (SB06)	2
13.06.2012	Extension of Time	2

File: US91889804 → **Abandonment**



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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/918,898	08/16/2004	Joy Shantia Singfield	2124-001	5481
44163	7590	06/26/2012	EXAMINER	
Clisc, Billion & Cyr, P.A.			RANKINS, WILLIAM E	
605 U.S. Highway 169			ART UNIT	PAPER NUMBER
Suite 300			3694	
Plymouth, MN 55441			MAIL DATE	DELIVERY MODE
			06/26/2012	PAPER

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Bibliographic data: CN101921481 (A) — 2010-12-22

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2 / 449

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11

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Gel prepared by in situ crosslinking hyaluronic acid and polyaspartic acid and preparation method thereof

Page bookmark [CN101921481 \(A\) - Gel prepared by in situ crosslinking hyaluronic acid and polyaspartic acid and preparation method thereof](#)

Inventor(s): TIANWEI TAN; RUI ZHANG ±

Applicant(s): UNIV BEIJING CHEMICAL +

Classification: - international: A61K47/34; A61K47/36; A61L27/18; A61L27/20; A61L27/52; A61L31/10; A61L31/14; C08B37/08; C08G73/10; C08J3/075; C08J3/24; C08L5/08; C08L79/08

- cooperative:

Application number: CN20101237837 20100727

Priority number(s): CN20101237837 20100727

Also published as:  [CN101921481 \(B\)](#)

Abstract of CN101921481 (A)

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The invention discloses gel prepared by in situ crosslinking a hyaluronic acid, hyaluronic acid and polysuccinimide are taken as raw materials. The preparation method includes: oxidizing the hyaluronic acid with an oxidant to produce hyaluronic acid derivatives; reacting the polysuccinimide with a diamine compound to produce polyaspartic acid derivatives; adding the two kinds of obtained derivatives into buffer solution respectively, mixing the two kinds of obtained derivatives. The preparation method has the advantages of simple process, moderate reaction conditions, and high biocompatibility. The prepared hydrogel has good biodegradability, and can be used in the fields of tissue engineering, amebic

INPADOC legal status: CN101921481 (A) — 2010-12-22

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Gel prepared by in situ crosslinking hyaluronic acid and polyaspartic acid and preparation method thereof

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Legal status of CN101921481 (A) 2010-12-22; CN101921481 (B) 2012-01-18;

CN F 201010237837 A (Patent of invention)

Event date : 2010/12/22

Event code : C06

Code Expl.: + PUBLICATION

Event date : 2011/02/02

Event code : C10

Code Expl.: REQUEST OF EXAMINATION AS TO SUBSTANCE

Event date : 2012/01/18

Event code : C14

Code Expl.: + GRANTED

Event date : 2013/09/18

Event code : C17

Code Expl.: - CESSATION OF PATENT RIGHT



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Date	Description
11.10.2011	Notification to Grant Patent Right for Invention (TRANSLATED)
11.10.2011	Notification to Grant Patent Right for Invention (ORIGINAL)
09.09.2011	Supplementary search (ORIGINAL)
08.09.2011	Claims (ORIGINAL)
02.09.2011	Argument (ORIGINAL)
02.09.2011	Claims (ORIGINAL)
02.09.2011	Argument (TRANSLATED)
08.08.2011	First Office Action (TRANSLATED)
08.08.2011	First Office Action (ORIGINAL)
02.08.2011	First search (ORIGINAL)
22.12.2010	Invention Publication (ORIGINAL)

201010237837 7837

Notification to Grant Patent Right for Invention (TRANSLATED)

The State Intellectual Property Office of People's Republic of China

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王伟峰

Issuing Date:

Application No. or Publication No.: 201010237837.X Issue No.:

Applicant or Patentee: Beijing University of Chemical Technology

Title of Invention: Gel prepared by in situ crosslinking hyaluronic acid and polyaspartic acid and preparation method thereof

Notification to Grant Patent Right for Invention

1. In accordance with Article 39 of the Patent Law and the provision of Rule 54 of its Implementing Regulations, for the aforesaid application for a patent for invention, where no grounds for rejection have been found after the substantive examination, Notification to Grant Patent Right for Invention should be made.

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After the applicant has gone through the formalities of registration within the prescribed time limit, the State Intellectual Property Office shall make a decision to grant the patent right, issue the certificate of patent for invention, and register and announce it.

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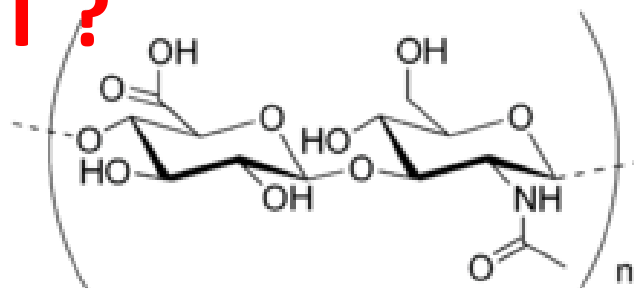
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MPT ?



Jedná se o polymer, jehož základní jednotka obsahuje dva různé sacharidy

Bibliographic data: CA2910043 (A1) — 2014-10-30

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CROSS LINKED SILK-HYALURONIC ACID COMPOSITION

Page bookmark CA2910043 (A1) - CROSS LINKED SILK-HYALURONIC ACID COMPOSITION

Inventor(s): PAVLOVIC ELIZABETA [US]; SERBAN MONICA A [US]; YU XIAOJIE [US]; MANESIS NICHOLAS J [US] ±

Applicant(s): ALLERGAN INC. [US] ±

Classification: - international: A61L27/20; A61L27/36; A61L27/52; C08L5/08
- cooperative: A61K8/64; A61L27/20; A61L27/227; A61L27/3604; A61L27/52; A61Q19/08; C08B37/0072; C08H1/00; C08J3/075; C08L5/08; C08L89/00; A61L2400/06; A61L2430/04; A61L2430/34 → more

Application number: CA20142910043 20140421

Priority number(s): US201313868010 20130422 ; WO2014US34789 20140421

Abstract of CA2910043 (A1)

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Compositions useful as dermal fillers and methods using such compositions to treat various skin and soft tissue conditions. The dermal fillers can comprise silk attached to hyaluronic acid using for example two cross linkers and can be used to treat of facial imperfections, facial defects, facial augmentations, breast imperfections, breast augmentations or breast reconstructions.

Cooperative Patent Classification

Search for hyaluronic acid

Search

symbol	Classification and description
A	HUMAN NECESSITIES
	HEALTH; AMUSEMENT
A61	MEDICAL OR VETERINARY SCIENCE; HYGIENE
A61Q	SPECIFIC USE OF COSMETICS OR SIMILAR TOILET PREPARATIONS
A61Q 19/00	Preparations for care of the skin
A61Q 19/08	• Anti-ageing preparations

☐ A	HUMAN NECESSITIES
	HEALTH; AMUSEMENT
☐ A61	MEDICAL OR VETERINARY SCIENCE; HYGIENE
☐ A61K	PREPARATIONS FOR MEDICAL, DENTAL, OR TOILET PURPOSES (devices or methods specially adapted for bringing pharmaceutical products into particular physical or administering forms A61J 3/00 ; chemical aspects of, or use of materials for deodorisation of air, for disinfection or sterilisation, or for bandages, dressings, absorbent pads or surgical articles A61L ; [compounds per se C01, C07, C08, C12N] ; soap compositions C11D ; [micro-organisms per se C12N])
☐ A61K 8/00	Cosmetic or similar toilet preparations (casings or accessories for storing or handling of solid or pasty toilet or cosmetic substances A45D 40/00)
☐ A61K 8/18	characterised by the composition
☐ A61K 8/72	containing organic macromolecular compounds
☐ A61K 8/73	Polysaccharides
☐ A61K 8/735	[Mucopolysaccharides, e.g. hyaluronic acid; Derivatives thereof]

☐ A	HUMAN NECESSITIES
	HEALTH; AMUSEMENT
☐ A61	MEDICAL OR VETERINARY SCIENCE; HYGIENE
☐ A61K	PREPARATIONS FOR MEDICAL, DENTAL, OR TOILET PURPOSES (devices or methods specially adapted for bringing pharmaceutical products into particular physical or administering forms A61J 3/00 ; chemical aspects of, or use of materials for deodorisation or sterilisation, or for bandages, dressings, absorbent pads or surgical articles A61L ; [compounds per se C01, C07, C08, C12N] ; soap compositions C11D ; [micro-organisms per se C12N])
☐ A61K 31/00	Medicinal preparations containing organic active ingredients
☐ A61K 31/70	Carbohydrates; Sugars; Derivatives thereof (sorbitol A61K 31/047)
☐ A61K 31/715	Polysaccharides, i.e. having more than five saccharide radicals attached to each other by glycosidic linkages; Derivatives thereof, e.g. ethers, esters
☐ A61K 31/726	Glycosaminoglycans, i.e. mucopolysaccharides (chondroitin sulfate A61K 31/737)
☐ A61K 31/728	Hyaluronic acid

C	CHEMISTRY; METALLURGY
	Chemistry
C08	ORGANIC MACROMOLECULAR COMPOUNDS; THEIR PREPARATION OR CHEMICAL WORKING-UP; COMPOSITIONS BASED THEREON (manufacture or treatment of artificial threads, fibres, bristles or ribbons D01)
C08B	POLYSACCHARIDES; DERIVATIVES THEREOF (polysaccharides containing less than six saccharide radicals attached to each other by glycosidic linkages C07H ; fermentation or enzyme-using processes C12P 19/00 ; sugar industry C13 ; production of cellulose D21)
	Preparation
C08B 37/00	Preparation of polysaccharides not provided for in groups C08B 1/00 to C08B 35/00 ; Derivatives thereof (cellulose D21 ; [microbiological processes C12P])
C08B 37/006	[Heteroglycans, i.e. polysaccharides having more than one sugar residue in the main chain in either alternating or less regular sequence; Gellans; Succinoglycans; Arabinogalactans; Tragacanth or gum tragacanth or tragacanth from Astragalus; Gum Karaya from Sterculia urens; Gum Ghatti from Anogeissus latifolia; Derivatives thereof]
C08B 37/0063	[Glycosaminoglycans or mucopolysaccharides, e.g. keratan sulfate; Derivatives thereof, e.g. fucoidan]
C08B 37/0072	[Hyaluronic acid, i.e. HA or hyaluronan; Derivatives thereof, e.g. crosslinked hyaluronic acid (hyal) or hyaluronates]

Title or abstract: 

hair

hyaluronic and acid*

Enter numbers with or without country code

Publication number: 

Application number: 

Priority number: 

Enter one or more dates or date ranges

Publication date: 

Enter name of one or more persons/organisations

Applicant(s): 

Inventor(s): 

Enter one or more classification symbols

CPC 

A61K8/735 and A61Q19/08

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Only the first **500** results are displayed.

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☐ 1. Sterilised composition comprising at least one hyaluronic acid and magnesium ascorbyl phosphate

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
	VIVACY LAB	A61K2800/91 A61K8/447 A61K8/46 (+19)	A61K	IL237202 (A) 2015-04-30	2012-08-29

☐ 2. FILLER COMPOSITION FOR THE TREATMENT OF LIPOATROPHY

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
MATTEUZZI MAURO [IT]	ADVANCED AESTHETIC TECHNOLOGIES INC [US]	A61K8/73 A61K8/735 A61L2400/06 (+11)	A61K8/33 A61K8/73 A61K9/00 (+4)	CA2908174 (A1) 2014-10-09	2013-04-04

☐ 3. OXIDATIVE PHOTOACTIVATED SKIN REJEUVENATION COMPOSITION COMPRISING HYALURONIC ACID, GLUCOSAMINE, OR ALLANTOIN

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
PIERGALLINI REMIGIO [IT] LOUPIS NIKOLAOS [GR] (+1)	KLOX TECHNOLOGIES INC [CA]	A61K2300/00 (+36)	A61K31/17 A61K31/352 A61K31/404 (+4)	US2015306131 (A1) 2015-10-29	2008-11-07

Title or abstract: 
hyaluronic and acid*

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Application number: 

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Publication date: 
1980:2010

Enter name of one or more persons/or

Applicant(s): 

Inventor(s): 

Enter one or more classification symbols

CPC: 
A61K8/735 and A61Q19/08

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hyaluronic and acid* in the title or abstract AND **1980:2010** as the publication date AND **A61K8/735** and **A61Q19/08** as the Cooperative Patent Classification

1

Sort by: Priority date Sort order: Ascending 

1. LIPOSOMES COMPRISING HYALURONIC ACID AND THEIR USE IN IMPROVED SKIN CARE

★ Inventor: PINSKY MARK A [US] Applicant: PINSKY MARK A [US] CPC: A61K2300/00 IPC: A61K31/728 Publication info: CA2876767 (A1) Priority date: 2005-10-03

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95 results found in the Worldwide database for:
hyaluronic and acid* in the title or abstract AND **1960:2010** as the publication date AND **A61K8/735** and **A61Q19/08** as the Cooperative Patent Classification

1 2 3 4

Sort by: Priority date Sort order: Ascending 

1. Hyaluronate based compositions and cosmetic formulations containing same

★ Inventor: BALAZS ENDRE A Applicant: BALAZS ENDRE A CPC: A61K8/64 IPC: A61K8/64 Publication info: US4303676 (A) Priority date: 1980-03-21
A61K8/735 A61K8/73 A61Q19/00 (+5) A61Q19/00 (+4)

2. Total or partial esters of hyaluronic acid

★ Inventor: DELLA VALLE FRANCESCO [IT] Applicant: FIDIA SPA [IT] CPC: A61K47/36 IPC: A61K31/715 Publication info: US5336767 (A) Priority date: 1985-07-08
A61K8/735 A61K47/00 A61K47/36 (+12) A61K9/0014 (+25)

3. Partial esters of hyaluronic acid

★ Inventor: DELLA VALLE FRANCESCO [IT] Applicant: FIDIA SPA [IT] CPC: A61K47/36 IPC: A61K47/36 Publication info: US5202431 (A) Priority date: 1985-07-08
A61K8/735 A61K8/73 A61K9/00 (+8) A61K9/0014 (+8)

První patentová přihláška

Bibliographic data: US4303676 (A) — 1981-12-01

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Hyaluronate based compositions and cosmetic formulations containing

Page bookmark [US4303676 \(A\) - Hyaluronate based compositions and cosmetic formul](#)

Inventor(s): BALAZS ENDRE A ±

Applicant(s): BALAZS ENDRE A ±

Classification: - international: [A61K8/64](#); [A61K8/73](#); [A61Q19/00](#); [A61Q19/08](#); [C08L](#)
- cooperative: [A61K8/64](#); [A61K8/735](#); [A61Q19/00](#); [A61Q19/08](#); [C0](#)

Application number: US19800133481 19800321

Priority number(s): US19800133481 19800321

Also published as: [US4303676 \(X6\)](#) [US4303676 \(X6\)](#) [US4303676 \(X6\)](#) [FR2478468 \(A1\)](#) → [FR2478468 \(B1\)](#)
[DE3125260 \(A1\)](#) [DE3125260 \(C2\)](#) [GB2099826 \(A\)](#) [GB2099826 \(B\)](#) → less

Abstract of US4303676 (A)

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A water based, viscoelastic composition for use in cosmetic formulations comprising, (a) a mixture of sodium hyalfractions having different molecular weights, (b) protein which is derived from the natural material from which the hyaluronate is obtained, and (c) water. Also disclosed are cosmetic formulations comprising about 0.05-5.0% of the above composition together with an emollient, a sugar alcohol, a neutral or anionic polysaccharide, a preservative, bacteriostatic and fungistatic substance which does not react with or degrade [hyaluronic acid](#), and water.

Family list: US4303676 (A) — 1981-12-01

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4 application(s) for: [US4303676 \(A\)](#)

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☐ 1. Hyaluronate based compositions and cosmetic formulations containing same

★ Inventor:	Applicant:	CPC:	Citations:	Publication info:	Priority date:
BALAZS ENDRE A	BALAZS ENDRE A	A61K8/64 A61K8/735 A61Q19/00 (+5)	US3659025 A US4141973 A US4151304 A	US4303676 (A) 1981-12-01	1980-03-21

☐ 2. WASSERHALTIGES, VISCOELASTISCHES GEMISCH ENTHALTEND HYALURONAT UND KOSMETISCHE MITTEL ENTHALTEND DIESE GEMISCHE

★ Inventor:	Applicant:	CPC:	Citations:	Publication info:	Priority date:
BALASZ ENDRE A DR [US]	BALASZ ENDRE A DR [US]	A61K8/64 A61K8/735 A61Q19/00 (+5)	DE1792514 A1 FR2094109 A7 JPS5452733 A US4141973 A	DE3125260 (A1) 1983-01-20 DE3125260 (C2) 1987-04-09	1980-03-21

☐ 3. COMPOSITIONS A BASE DE HYALURONATES ET PREPARATIONS COSMETIQUES LES CONTENANT

★ Inventor:	Applicant:	CPC:	Citations:	Publication info:	Priority date:
	BALAZS ENDRE [US]	A61K8/64 A61K8/735 A61Q19/00 (+5)	DE1792514 A1 FR2094109 A7 JPS5452733 A US4141973 A	FR2478468 (A1) 1981-09-25 FR2478468 (B1) 1984-02-03	1980-03-21

☐ 4. HYALURONATE BASED COMPOSITIONS AND COSMETIC FORMULATIONS CONTAINING SAME

★ Inventor:	Applicant:	CPC:	Citations:	Publication info:	Priority date:
	BALAZ DR ENDRE ALEXANDER	A61K8/64 A61K8/735 A61Q19/00 (+5)		GB2099826 (A) 1982-12-15 GB2099826 (B) 1984-08-22	1980-03-21

☐ 19. Cosmetic or dermatological compositions containing at least one substance for increasing the functionality and/or expression of the CD44 membrane receptors of skin cells

★ Inventor: DUMAS MARC [FR] BONTE FREDERIC [FR]	Applicant: DIOR CHRISTIAN PARFUMS [FR]	CPC: A61K2800/70 A61K2800/782 A61K8/19 (+15)	IPC: A61K8/19 A61K8/365 A61K8/60 (+11)	Publication info: US2004043047 (A1) 2004-03-04	Priority date: 1999-03-26
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☐ 20. COMPOSITIONS COSMETIQUES OU DERMATOLOGIQUES CONTENANT AU MOINS UNE SUBSTANCE DESTINEE A AUGMENTER LA FONCTIONNALITE ET/OU L'EXPRESSION DES RECEPTEURS MEMBRANAIRES CD44 DES CELLULES DE LA PEAU

★ Inventor: DUMAS MARC BONTE FREDERIC	Applicant: DIOR CHRISTIAN PARFUMS [FR]	CPC: A61K2800/70 A61K2800/782 A61K8/19 (+15)	IPC: A61K31/19 A61K31/215 A61K8/00 (+36)	Publication info: FR2791260 (A1) 2000-09-29 FR2791260 (B1) 2003-06-06	Priority date: 1999-03-26
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Bibliographic data: US2004043047 (A1) — 2004-03-04

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Cosmetic or dermatological compositions containing at least one substance for increasing the functionality and/or expression of the CD44 membrane receptors of skin cells

Page bookmark US2004043047 (A1) - Cosmetic or dermatological compositions containing at least one substance for increasing the functionality and/or expression of the CD44 membrane receptors of skin cells

Inventor(s): DUMAS MARC [FR]; BONTE FREDERIC [FR] ±

Applicant(s): DIOR CHRISTIAN PARFUMS [FR] ±

Classification: - international: A61K8/19; A61K8/365; A61K8/60; A61K8/64; A61K8/67; A61K8/73; A61K8/97; A61Q17/00; A61Q19/00; A61Q19/08; A61Q17/04; A61Q19/02; (IPC-7): A61K7/00

- cooperative: A61K8/19; A61K8/365; A61K8/60; A61K8/645; A61K8/671; A61K8/676; A61K8/678; A61K8/97; A61Q19/00; A61Q19/08; A61K2800/70; A61K2800/782; A61Q1/10; A61Q17/04; A61Q19/004; A61Q19/02

Application number: US20030650965 20030829

Priority number(s): US20030650965 20030829 ; FR19990003840 19990326 ; US20010937507 20010926

Abstract of US2004043047 (A1)

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The invention relates to uses in the cosmetic or pharmaceutical field of at least one active agent which increases the expression functionality of the CD44 membrane receptors of skin cells and/or which improves the binding to the surface of the said skin cell hyaluronic acid, and/or of collagen, in particular of collagen I and/or collagen IV, and/or fibronectin. These active agents are polyhydroxy acids or alpha-keto acids or salts or esters of these acids, or manganese chloride. The cosmetic or pharmaceutical compositions of the invention are intended for improving the binding of hyaluronic acid and/or of collagen, in particular collagen I and/or collagen IV, and/or fibronectin to the surface of skin cells, and especially for improving the moisturization of the dermis and the epidermis, for preventing the phenomena of ageing of the skin and also inflammatory phenomena.



US 2004043047A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2004/0043047 A1**
Dumas et al. (43) **Pub. Date: Mar. 4, 2004**

(54) **COSMETIC OR DERMATOLOGICAL COMPOSITIONS CONTAINING AT LEAST ONE SUBSTANCE FOR INCREASING THE FUNCTIONALITY AND/OR EXPRESSION OF THE CD44 MEMBRANE RECEPTORS OF SKIN CELLS**

(75) **Inventors:** Marc Dumas, Orleans (FR); Frederic Bonte, Orleans (FR)

Correspondence Address:
Gary M. Nath
NATH & ASSOCIATES PLLC
6th Floor
1030 15th Street, N.W.
Washington, DC 20005 (US)

(73) **Assignee:** Parfums Christian Dior, Paris (FR)

(21) **Appl. No.:** 10/650,965

(22) **Filed:** Aug. 29, 2003

Related U.S. Application Data

(63) Continuation of application No. 09/937,507, filed on Sep. 26, 2001, now abandoned, filed as 371 of international application No. PCT/FR00/00764, filed on Mar. 27, 2000.

(30) **Foreign Application Priority Data**

Mar. 26, 1999 (FR)..... 99 03840

Publication Classification

(51) **Int. Cl.⁷** A61K 7/00
(52) **U.S. Cl.** 424/401

(57) **ABSTRACT**

The invention relates to uses in the cosmetic or pharmaceutical field of at least one active agent which increases the expression and/or the functionality of the CD44 membrane receptors of skin cells and/or which improves the binding to the surface of the said skin cells of hyaluronic acid, and/or of collagen, in particular of collagen I and/or collagen IV, and/or fibronectin.

These active agents are preferably α -hydroxy acids or α -keto acids or salts or esters of these acids, or manganese chloride.

The cosmetic or pharmaceutical compositions of the invention are intended for improving the binding of hyaluronic acid and/or of collagen, in particular collagen I and/or collagen IV, and/or of fibronectin to the surface of skin cells, and especially for improving the moisturization of the dermis and the epidermis, for preventing or treating the phenomena of ageing of the skin and also inflammatory phenomena.

Cited documents: US2004043047 (A1) — 2004-03-04

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2 documents cited in relation to **US2004043047 (A1)**

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Patents cited in the search report

☐ 1. Method and composition for the treatment of epidermal irritation

★ **Inventor:**
EMBRO WILLIAM J [US]
Applicant:
EMBRO RES COMPANY LLC [US]

☐ 2. Formulations and methods for reducing skin irritation

★ **Inventor:**
HAHN GARY S [US]
THUESON DAVID O [US]
Applicant:
COSMEDERM TECHNOLOGIES [US]

Citing documents: US2004043047 (A1) — 2004-03-04

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7 documents citing **US2004043047 (A1)**

Sort by Sort order

☐ 1. COLLAGEN PRODUCTION COMPOUND

★ Inventor: BENNETT MARK K [US]	Applicant: BENNETT MARK K [US]	CPC: A61K2300/00 (+26)	IPC: A61K31/198 A61K33/26 A61K33/32 (+7)	Publication info: US2013108603 (A1) 2013-05-02 US8895034 (B2) 2014-11-25	Priority date: 2011-11-02
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☐ 2. PHARMACEUTICAL, DERMATOLOGICAL, NUTRITIONAL OR COSMETIC COMPOSITION FOR COMBATING THE IMMUNOSUPPRESSIVE ACTION OF AGGRESSIVE AGENTS ON THE SKIN

★ Inventor: GIULIANI GIAMMARIA [IT] BENEDUSI ANNA [IT]	Applicant: GIULIANI GIAMMARIA [IT] BENEDUSI ANNA [IT] (+1)	CPC: A23L1/3002 A23L1/3004 A23V2002/00 (+24)	IPC: A61K31/353 A61K8/49 A61P29/00 (+2)	Publication info: US2012020902 (A1) 2012-01-26 US9138394 (B2) 2015-09-22	Priority date: 2009-04-30
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☐ 3. METHODS FOR ENHANCING THE EXPRESSION OF INTRACELLULAR REDOX-ASSOCIATED FACTORS

★ Inventor: SUGAHARA MISATO [JP] KATSUTA YUJI [JP] (+2)	Applicant:	CPC: A61K2300/00 A61K31/352 (+5)	IPC: A61K31/352 A61K31/70 A61K36/16 (+11)	Publication info: US2011189318 (A1) 2011-08-04	Priority date: 2010-01-29
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☐ 4. Systems, Methods, and Formulations for Topically Treating Nail Fungal Infections and Nail Psoriasis

★ Inventor: ZHANG JIE [US] WARNER KEVIN S [US] (+2)	Applicant:	CPC: A61K31/135 A61K47/32 A61K9/0014 (+1)	IPC: A61K31/135 A61K9/00 A61K9/10 (+1)	Publication info: US2009175945 (A1) 2009-07-09	Priority date: 2008-01-08
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☐ 5. Cosmetic composition

★ Inventor: MOUSSOU PHILIPPE [FR] FREIS OLGA [FR] (+3)	Applicant: COGNIS IP MAN GMBH [DE]	CPC: A61K2800/782 A61K8/362 A61K8/365 (+4)	IPC: A61K8/19 A61K8/365 A61K8/42 (+3)	Publication info: EP2233128 (A1) 2010-09-29	Priority date: 2009-03-25
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☐ 6. Compositions comprising an ethanolamine derivative and organic metal salts

Family list: US2004043047 (A1) — 2004-03-04

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7 application(s) for: US2004043047 (A1)

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☐ 1. COSMETIC OR DERMATOLOGICAL COMPOSITIONS CONTAINING AT LEAST ONE SUBSTANCE FOR INCREASING THE FUNCTIONALITY AND/OR EXPRESSION OF THE CD44 MEMBRANE RECEPTORS OF SKIN CELLS

★ Inventor: DUMAS MARC [FR]
BONTE FREDERIC [FR]
Applicant: DIOR CHRISTIAN PARFUMS [FR]
CPC: A61K2800/70
A61K2800/782
A61K8/19 (+15)
Citations: US5958436 A
US6605289 B1
Publication info: US2004043047 (A1)
2004-03-04

☐ 2. KOSMETISCHE ZUSAMMENSETZUNGEN DIE MINDESTENS EINE SUBSTANZ ZUR VERBESSERUNG DER FUNKTIONSAEHEIGKEIT UND/ODER ZUR ERHOEHUNG DER EXPRESSION DES MEMBRANREZEPTORS CD44 IN HAUT ENTHALTEN

★ Inventor: DUMAS MARC [FR]
BONTE FREDERIC [FR]
Applicant: DIOR CHRISTIAN PARFUMS [FR]
CPC: A61K2800/70
A61K2800/782
A61K8/19 (+15)
Citations: DE60023467 (T2)
2006-08-03
Publication info: DE60023467 (T2)
2006-08-03

☐ 3. COSMETIC COMPOSITIONS CONTAINING AT LEAST ONE SUBSTANCE FOR INCREASING THE FUNCTIONALITY AND/OR EXPRESSION OF CD44 MEMBRANE RECEPTORS OF SKIN CELLS

★ Inventor: DUMAS MARC [FR]
BONTE FREDERIC [FR]
Applicant: DIOR CHRISTIAN PARFUMS [FR]
CPC: A61K2800/70
A61K2800/782
A61K8/19 (+15)
Citations: WO0013661 A1
WO0027353 A1
Publication info: EP1165035 (A2)
2002-01-02
EP1165035 (B1)
2005-10-26

☐ 4. COMPOSITIONS COSMETIQUES OU DERMATOLOGIQUES CONTENANT AU MOINS UNE SUBSTANCE DESTINEE A AUGMENTER LA FONCTIONNALITE ET/OU L'EXPRESSION DES RECEPTEURS MEMBRANAIRES CD44 DES CELLULES DE LA PEAU

★ Inventor: DUMAS MARC [FR]
BONTE FREDERIC [FR]
Applicant: DIOR CHRISTIAN PARFUMS [FR]
CPC: A61K2800/70
A61K2800/782
A61K8/19 (+15)
Citations: ES2250118 (T3)
2006-04-16
Publication info: ES2250118 (T3)
2006-04-16

☐ 5. COMPOSITIONS COSMETIQUES OU DERMATOLOGIQUES CONTENANT AU MOINS UNE SUBSTANCE DESTINEE A AUGMENTER LA FONCTIONNALITE ET/OU L'EXPRESSION DES RECEPTEURS MEMBRANAIRES CD44 DES CELLULES DE LA PEAU

★ Inventor: DUMAS MARC
BONTE FREDERIC
Applicant: DIOR CHRISTIAN PARFUMS [FR]
CPC: A61K2800/70
A61K2800/782
A61K8/19 (+15)
Citations: EP0756866 A1
EP0770399 A2
WO9619228 A1
WO9817320 A1
XP002129103
Publication info: FR2791260 (A1)
2000-09-29
FR2791260 (B1)
2003-06-06

☐ 6. COMPOSITIONS COSMETIQUES OU DERMATOLOGIQUES CONTENANT AU MOINS UNE SUBSTANCE DESTINEE A AUGMENTER LA FONCTIONNALITE ET/OU L'EXPRESSION DES RECEPTEURS MEMBRANAIRES CD44 DES CELLULES DE LA PEAU

★ Inventor: DUMAS MARC [FR]
BONTE FREDERIC [FR]
Applicant: DIOR CHRISTIAN PARFUMS [FR]
CPC: A61K2800/70
A61K2800/782
A61K8/19 (+15)
Citations: JPH02169511 A
JPH09157128 A
JPH09509403 A
JPH0959141 A
JPH10265362 A (+5)
Publication info: JP2002540126 (A)
2002-11-26
JP4708571 (B2)
2011-06-22

☐ 7. COSMETIC OR DERMATOLOGICAL COMPOSITIONS CONTAINING AT LEAST ONE SUBSTANCE FOR INCREASING THE FUNCTIONALITY AND/OR EXPRESSION OF CD44 MEMBRANE RECEPTORS OF SKIN CELLS

★ Inventor: DUMAS MARC [FR]
BONTE FREDERIC [FR]
Applicant: DIOR CHRISTIAN PARFUMS [FR]
CPC: A61K2800/70
A61K2800/782
A61K8/19 (+15)
Citations: EP0756866 A1
EP0770399 A2
WO9619228 A1
WO9817320 A1
Publication info: WO0057836 (A2)
2000-10-05
WO0057836 (A3)
2001-05-17
Priority date: 1999-03-26

EPO Global Dossier

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Date	Description	Pages
16.10.2007	<u>Abandonment</u>	2
11.07.2007	<u>Non-Final Rejection</u>	6
11.07.2007	<u>Index of Claims</u>	1
11.07.2007	<u>Search information including classification, databases and other search related notes</u>	1
04.07.2007	<u>Examiner's search strategy and results</u>	1
29.05.2007	<u>Miscellaneous Incoming Letter</u>	1
29.05.2007	<u>Request for Continued Examination (RCE)</u>	1
29.05.2007	<u>Amendment Submitted/Entered with Filing of CPA/RCE</u>	1
29.05.2007	<u>Fee Worksheet (SB06)</u>	1
29.05.2007	<u>Claims</u>	4
29.05.2007	<u>Applicant Arguments/Remarks Made in an Amendment</u>	2
29.05.2007	<u>Extension of Time</u>	1
21.05.2007	<u>Examiner Interview Summary Record (PTOL - 413)</u>	3
13.04.2007	<u>Advisory Action (PTOL-303)</u>	3
05.03.2007	<u>Applicant Arguments/Remarks Made in an Amendment</u>	7
05.03.2007	<u>Claims</u>	3
05.03.2007	<u>Response After Final Action</u>	2
05.03.2007	<u>Fee Worksheet (SB06)</u>	1
04.12.2006	<u>Final Rejection</u>	7
04.12.2006	<u>Index of Claims</u>	1
04.12.2006	<u>Search information including classification, databases and other search related notes</u>	1

Bibliographic data: FR2791260 (A1) — 2000-09-29

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COMPOSITIONS COSMETIQUES OU DERMATOLOGIQUES CONTENANT AU MOINS UNE SUBSTANCE DESTINEE A AUGMENTER LA FONCTIONNALITE ET/OU L'EXPRESSION DES RECEPTEURS MEMBRANAIRES CD44 DES CELLULES DE LA PEAU

Page bookmark [FR2791260 \(A1\) - COMPOSITIONS COSMETIQUES OU DERMATOLOGIQUES CONTENANT AU MOINS UNE SUBSTANCE DESTINEE A AUGMENTER LA FONCTIONNALITE ET/OU L'EXPRESSION DES RECEPTEURS MEMBRANAIRES CD44 DES CELLULES DE LA PEAU](#)

Inventor(s): DUMAS MARC; BONTE FREDERIC ±

Applicant(s): DIOR CHRISTIAN PARFUMS [FR] ±

Classification:

- international: [A61K31/19](#); [A61K31/215](#); [A61K8/00](#); [A61K8/19](#); [A61K8/20](#); [A61K8/34](#); [A61K8/35](#); [A61K8/36](#); [A61K8/365](#); [A61K8/368](#); [A61K8/44](#); [A61K8/49](#); [A61K8/55](#); [A61K8/58](#); [A61K8/60](#); [A61K8/66](#); [A61K8/72](#); [A61K8/73](#); [A61K8/89](#); [A61K8/891](#); [A61K8/96](#); [A61K8/961](#); [A61Q1/10](#); [A61Q17/00](#); [A61Q19/00](#); [A61Q19/08](#); [A61Q17/04](#); [A61Q19/02](#)
- cooperative: [A61K8/19](#); [A61K8/365](#); [A61K8/60](#); [A61K8/645](#); [A61K8/671](#); [A61K8/97](#); [A61Q19/00](#); [A61Q19/08](#); [A61K2800/70](#); [A61K2800/782](#); [A61Q17/04](#); [A61Q19/004](#); [A61Q19/02](#)

Application number: FR19990003840 19990326

Priority number(s): FR19990003840 19990326

Also published as: [★ FR2791260 \(B1\)](#) [EP1165035 \(A2\)](#) [★ EP1165035 \(B1\)](#) [ES2250118 \(T3\)](#) [DE60023467 \(T2\)](#) [JP2002540126 \(A\)](#) [JP4708571 \(B2\)](#) [WO0057836 \(A2\)](#) [WO0057836 \(A3\)](#) → [less](#)



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COMPOSITIONS COSMETIQUES OU DERMATOLOGIQUES CONTENANT AU MOINS UNE SUBSTANCE DESTINEE A AUGMENTER LA FONCTIONNALITE ET/OU L'EXPRESSION DES RECEPTEURS MEMBRANAIRES CD44 DES CELLULES DE LA PEAU

DESCRIPTION DOCUMENTS

Publication No. and date FR2791260 - 2000-09-29 (BOPI 2000-39)
Kind A1
Application No. and date of filing FR9903840 - 1999-03-26
Priority No. and date FR9903840 - 1999-03-26
IPC classification A61K 8/00; A61K 8/19; A61K 8/20; A61K 8/29; A61K 8/30; A61K 8/33; A61K 8/34; A61K 8/35; A61K 8/36; A61K 8/365; A61K 8/368; A61K 8/37; A61K 8/41; A61K 8/42; A61K 8/44; A61K 8/49; A61K 8/55; A61K 8/58; A61K 8/60; A61K 8/64; A61K 8/67; A61K 8/68; A61K 8/72; A61K 8/73; A61K 8/89; A61K 8/891; A61K 8/96; A61K 31/19; A61K 31/215; A61P 17/00; A61Q 1/00; A61Q 1/10; A61Q 17/00; A61Q 17/04; A61Q 19/00; A61Q 19/02; A61Q 19/08; A61Q 19/09; A61K 8/19; A61K 8/365; A61K 8/60; A61K 8/645; A61K 8/671; A61K 8/676; A61K 8/678; A61K 8/735; A61K 8/97; A61K2800/70; A61K2800/782; A61Q 1/10; A61Q 17/00; A61Q 17/04; A61Q 19/00; A61Q 19/004; A61Q 19/02
CPC classification A61K 8/00; A61K 8/19; A61K 8/20; A61K 8/29; A61K 8/30; A61K 8/33; A61K 8/34; A61K 8/35; A61K 8/36; A61K 8/365; A61K 8/368; A61K 8/37; A61K 8/41; A61K 8/42; A61K 8/44; A61K 8/49; A61K 8/55; A61K 8/58; A61K 8/60; A61K 8/64; A61K 8/67; A61K 8/68; A61K 8/72; A61K 8/73; A61K 8/89; A61K 8/891; A61K 8/96; A61K 31/19; A61K 31/215; A61P 17/00; A61Q 1/00; A61Q 1/10; A61Q 17/00; A61Q 17/04; A61Q 19/00; A61Q 19/02; A61Q 19/08; A61Q 19/09; A61K 8/19; A61K 8/365; A61K 8/60; A61K 8/645; A61K 8/671; A61K 8/676; A61K 8/678; A61K 8/735; A61K 8/97; A61K2800/70; A61K2800/782; A61Q 1/10; A61Q 17/00; A61Q 17/04; A61Q 19/00; A61Q 19/004; A61Q 19/02
Patent family ES2250118T3; FR2791260A1; WO0057836A2; EP1165035A2; DE60023467T2; JP2002540126A

STATUS IN FRANCE

Date of preliminary search report	2000-09-29	(BOPI 2000-39)
Date of grant	2003-06-06	(BOPI 2003-23)
Last renewal fee	2017-02-21	720.00 €
No. of the renewal fee	19	
Next renewal fee	2018-04-03	

COSMETIC COMPOSITIONS CONTAINING AT LEAST ONE SUBSTANCE FOR INCREASING THE FUNCTIONALITY AND/OR EXPRESSION OF CD44 MEMBRANE RECEPTORS OF SKIN CELLS



(19) **Europäisches Patentamt**
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(11) **EP 1 165 035 B1**

(12) **FASCICULE DE BREVET EUROPEEN**

(45) Date de publication et mention de la délivrance du brevet:
26.10.2005 Bulletin 2005/43

(21) Numéro de dépôt: **00915224.0**

(22) Date de dépôt: **27.03.2000**

(51) Int Cl.7: **A61K 7/48**

(86) Numéro de dépôt international:
PCT/FR2000/000764

(87) Numéro de publication internationale:
WO 2000/057836 (05.10.2000 Gazette 2000/40)

(54) **COMPOSITIONS COSMETIQUES CONTENANT AU MOINS UNE SUBSTANCE DESTINEE A AUGMENTER LA FONCTIONNALITE ET/OU L'EXPRESSION DES RECEPTEURS MEMBRANAIRES CD44 DES CELLULES DE LA PEAU**

KOSMETISCHE ZUSAMMENSETZUNGEN DIE MINDESTENS EINE SUBSTANZ ZUR VERBESSERUNG DER FUNKTIONSFÄHIGKEIT UND/ODER ZUR ERHÖHUNG DER EXPRESSION DES MEMBRANREZEPTORS CD44 IN HAUTZELLEN ENTHALTEN

COSMETIC COMPOSITIONS CONTAINING AT LEAST ONE SUBSTANCE FOR INCREASING THE FUNCTIONALITY AND/OR EXPRESSION OF CD44 MEMBRANE RECEPTORS OF SKIN CELLS

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Legal status: EP1165035

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Designated contracting states

➤ DE

➤ ES

➤ FR

➤ GB

➤ IT

Examination procedure	24.06.2005	Fee for publishing/printing paid
Entry into regional phase	24.10.2001	National basic fee paid
	24.10.2001	Designation fee(s) paid
	24.10.2001	Examination fee paid
Fees paid	Renewal fee	
	21.03.2002	Renewal fee patent year 03
	26.03.2003	Renewal fee patent year 04
	25.03.2004	Renewal fee patent year 05
	29.03.2005	Renewal fee patent year 06
European patent granted	26.10.2005	
Opposition procedure	27.07.2006	No opposition filed within time limit published on 04.10.2006
INPADOC data	The EPO does not accept any responsibility for the accuracy of legal status data relating to the post-grant including but not limited to their completeness and fitness for specific purposes, nor can it guarantee that the data are up to date. For authoritative information, please refer to the relevant national patent authority.	
Event date:	02.01.2002	
Event description:	DESIGNATED CONTRACTING STATES:	

Event history: EP1165035

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Date 	Description	European Patent Bulletin date, issue number
01.09.2006	No opposition filed within time limit	published on 04.10.2006  [2006/40]
09.09.2005	(Expected) grant	published on 26.10.2005  [2005/43]
01.07.2005	New entry: Payment of fee for grant	
01.07.2005	New entry: Payment of fee for publishing/printing	
04.05.2005	New entry: Communication of intention to grant a patent	
20.04.2005	New entry: Despatch of minutes of oral proceedings	
08.04.2005	New entry: Renewal fee paid	
25.02.2005	Change - German title	
04.08.2004	New entry: Date of oral proceedings	
26.05.2004	New entry: Reply to examination report	
03.04.2004	New entry: Renewal fee paid	
26.03.2004	Change - designated states	
24.03.2004	New entry: Despatch of examination report + time limit	
21.11.2003	First examination report	
14.11.2003	New entry: Despatch of examination report + time limit	
04.04.2003	Renewal fee	
13.04.2002	Renewal fee	
16.11.2001	Publication in section I.1 EP Bulletin	
16.11.2001	Request for examination filed	

All documents: EP1165035

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All documents(66) 

☐	Date 	Document type
☐	30.08.2006	Communication regarding the expiry of opposition period
☐	15.09.2005	Decision to grant a European patent
☐	24.06.2005	English translation of the claims
☐	24.06.2005	Filing of the translations of the claims
☐	24.06.2005	German translation of the claims
☐	27.05.2005	Brief communication to applicant/representative
☐	20.05.2005	Filing of the translations of the claims
☐	19.05.2005	Filing of the translations of the claims
☐	11.05.2005	Annex to the communication
☐	11.05.2005	Bibliographic data of the European patent application
☐	11.05.2005	Communication about intention to grant a European patent
☐	11.05.2005	Text intended for grant
☐	22.04.2005	Annex to a communication
☐	22.04.2005	Annex to the communication
☐	22.04.2005	Minutes of the oral proceedings (examining division)

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Patent family: EP1165035

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Type

M Patent family member

Publication No.

US2004043047

Global dossier

Priority number

US93750701

US65096503

FR9903840

Type

M Patent family member

Publication No.

JP4708571B

Global dossier

JP2002540126

Priority number

FR0000764

FR9903840

Type

M Patent family member

Publication No.

EP1165035

Global dossier

M Patent family member

Publication No.

DE60023467T

Date

03.08.2006

Type

T2

Priority number

FR0000764

Date

27.03.2000

FR9903840

26.03.1999

E Equivalent

What are "equivalents"?

"Equivalents" - or "equivalent applications" - are members of a patent family that have the same priority. They are often referred to as "corresponding documents".

Publication No.

ES2250118T

Type

T3

Priority number

FR9903840

26.03.1999

E Equivalent

Publication No.

FR2791260

Date

06.06.2003

Type

B1

FR2791260

29.09.2000

A1

Priority number

FR9903840

Date

26.03.1999

E Equivalent

Publication No.

WO0057836

Date

17.05.2001

Type

A3

WO0057836

05.10.2000

A2

• **M** stands for **patent family member**: the patent document is related to the one you are currently looking at by way of at least one priority.

FR0000764

27.03.2000

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25 results found in the Worldwide database for:
hyaluronic and acid* in the title or abstract AND beiersdorf as the applicant

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☐ 1. USE OF POLYSACCHARIDES FOR IMPROVEMENT IN LIGHT PROTECTING EFFECT OF COSMETIC OR DERMATOLOGICAL LIGHTPROTECTING COMPOSITION

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
GERS-BARLAG HEINRICH DR KROEPKE RAINER (+2)	BEIERSDORF AG	A61K8/496 A61K8/4966 A61K8/73 (+3)	A61K8/00 A61K8/49 A61K8/73 (+2)	JPH11228372 (A) 1999-08-24	1997-12-05

☐ 2. Use of acylcarnitine

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
STAEB FRANZ DR [DE] SCHOENROCK UWE DR [DE] (+3)	BEIERSDORF AG [DE]	A61K8/44 A61Q19/08 A61Q19/08	A61K8/44 A61Q19/08 (IPC1-7): A61K7/48	EP0945127 (A2) 1999-09-29 EP0945127 (A3) 1999-12-01	1998-02-19

☐ 3. Cosmetic or dermatologic composition containing carnitine and/or an acylcarnitine and at least an antioxidant

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
STAEB FRANZ DR [DE] SCHOENROCK UWE DR [DE] (+3)	BEIERSDORF AG [DE]	A61K2800/522 A61K8/44	A61K8/44	EP0945126 (A2) 1999-08-24	1998-02-19

☐ 4. Use of creatine and/or creatine derivatives in

★ Inventor:	Applicant:
SCHREINER VOLKER DR [DE] STAEB FRANZ DR [DE] (+2)	BEIERSDORF [DE]

☐ 5. COSMETIC AND DERMATOLOGICAL PREPARATION FOR THE PREVENTION OF DRY SKIN AND OTHER NEGATIVE EFFECTS

★ Inventor:	Applicant:
SAUERMAN GERHARD	BEIERSDORF

Result list

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25 results found in the Worldwide database for:
hyaluronic and acid* in the title or abstract AND beiersdorf as the applicant

Sort by Sort order

☐ 1. USE OF POLYSACCHARIDES FOR IMPROVEMENT IN LIGHT PROTECTING EFFECT OF COSMETIC OR DERMATOLOGICAL LIGHTPROTECTING COMPOSITION

★ Inventor:	Applicant:	CPC:	IPC:	Publication info:	Priority date:
GERS-BARLAG HEINRICH DR KROEPKE RAINER (+2)	BEIERSDORF AG	A61K8/496 A61K8/4966 A61K8/73 (+3)	A61K8/00 A61K8/49 A61K8/73 (+2)	JPH11228372 (A) 1999-08-24	1997-12-05



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Publication number



e.g. EP1883031

Application number



e.g. EP20070010825

Priority number

Enter the name of one or more persons or organisations

Applicant(s)



e.g. IBM

Inventor(s)



e.g. Siemens

Representative



e.g. vande gucht

Opponent



e.g. basf

Enter one or more keywords

Keyword(s) in title



hyaluronic and acid*

Enter appeal number

Appeal Case number



beiersdorf

Search results

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244 items found, displaying 1 to 20.
Search term(s): **opponent = beiersdorf**

Brimonidine gel composition

Application No.	Publication No.	Applicant	Representative
EP11185810	EP2444068	Galderma S.A.	V.O.

AQUEOUS COSMETIC COMPOSITION COMPRISING ALKYLCELLULOSE

Application No.	Publication No.	Applicant	Representative
EP11768156	EP2618811	L'Oréal	Nony

Benefit agent containing delivery particle

Application No.	Publication No.	Applicant	Representative
EP11188595	EP2418267	The Procter & Gamble Company	Samuels, Lucy Ali

PHARMACEUTICAL COMPOSITION COMPRISING GLYCEROL, WHITE SOFT PARAFFIN AND LIO TREATMENT OF UREMIC PRURITUS

Application No.	Publication No.	Applicant	Representative
EP10713974	EP2419176	Orfagen	Regimbeau

THICKENED AMINO ACID SURFACTANT COMPOSITIONS AND METHODS THEREFOR

Application No.	Publication No.	Applicant	Representative	IPC
		Lubrizol Advanced Materials, Inc.	Von Kreisler Selting Werner - Partnerschaft	C08K5/17

About this file: EP2618811

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EP2618811 - AQUEOUS COSMETIC COMPOSITION COMPRISING ALKYLCELLULOSE

Status	The patent has been granted Database last updated on 09.11.2015		
Most recent event	 16.10.2015	Opposition filed	
Applicant(s)	For all designated states L'Oréal 14, rue Royale 75008 Paris / FR [2013/31]		
Inventor(s)	01 / CAVAZUTTI, Roberto 126 rue Saint-Charles F-75015 Paris / FR 02 / GEFFROY-HYLAND, Nathalie 15 allée Isabelle de Giffa F-91190 Gif-sur-yvette / FR 03 / NGUYEN-HENIN, Emilie 14 allée de l'Oseraie F-94260 Fresnes / FR [2013/31]		
Representative(s)	Nony 3, rue de Penthievre 75008 Paris / FR [2013/31]		
Application number, filing date	11768156.9	19.09.2011	
	WO2011IB54087		
Priority number, date	US201061425273P	21.12.2010	Original published format: US 201061
	US201061425263P	21.12.2010	Original published format: US 201061

A61P 17/10
A61K31/01
(+9)

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Date	Description
16.10.2015	Opposition filed
19.12.2014	(Expected) grant
05.12.2014	New entry: Payment of fee for grant
05.12.2014	New entry: Payment of fee for publishing/printing
04.12.2014	New entry: Receipt of the translation of the claim(s)
07.11.2014	Licence
09.10.2014	New entry: Communication of intention to grant a patent
26.09.2014	Change - classification
26.09.2014	Change - classification
17.09.2014	New entry: Renewal fee paid
08.04.2014	New entry: Reply to examination report
21.02.2014	First examination report
19.02.2014	New entry: Despatch of examination report + time limit
22.11.2013	Change - extension states
25.10.2013	Amendment by applicant
16.09.2013	New entry: Renewal fee paid
28.06.2013	Publication in section I.1 EP Bulletin

All documents: EP2618811

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All documents(91)

Search

☐	Date	Document type
☐	21.10.2015	Communication of a notice of opposition - first information to patent proprietor
☐	17.10.2015	Notice of opposition
☐	17.10.2015	Patent document cited during the opposition procedure
☐	17.10.2015	Patent document cited during the opposition procedure
☐	17.10.2015	Patent document cited during the opposition procedure
☐	17.10.2015	Patent document cited during the opposition procedure
☐	17.10.2015	Patent document
☐	17.10.2015	Payment of fees
☐	14.10.2015	Cover sheet for
☐	14.10.2015	Notice of opposi
☐	14.10.2015	Notice of opposi
☐	14.10.2015	Payment of fees
☐	14.10.2015	Payment of fees
☐	16.01.2015	Transmission of
☐	18.12.2014	Decision to grant
☐	02.12.2014	(Electronic) Rece
☐	02.12.2014	Filing of the trans
☐	02.12.2014	French translation
☐	02.12.2014	German translation of the claims



Nony
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75008 Paris
FRANCE

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GERMANY

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Date
21-10-2015

Reference
BR97462/DC3/MDC

Application No./Patent No.
11768156.9 - 1458 / 2618811

Applicant/Proprietor
L'Oréal

Communication of a notice of opposition

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