

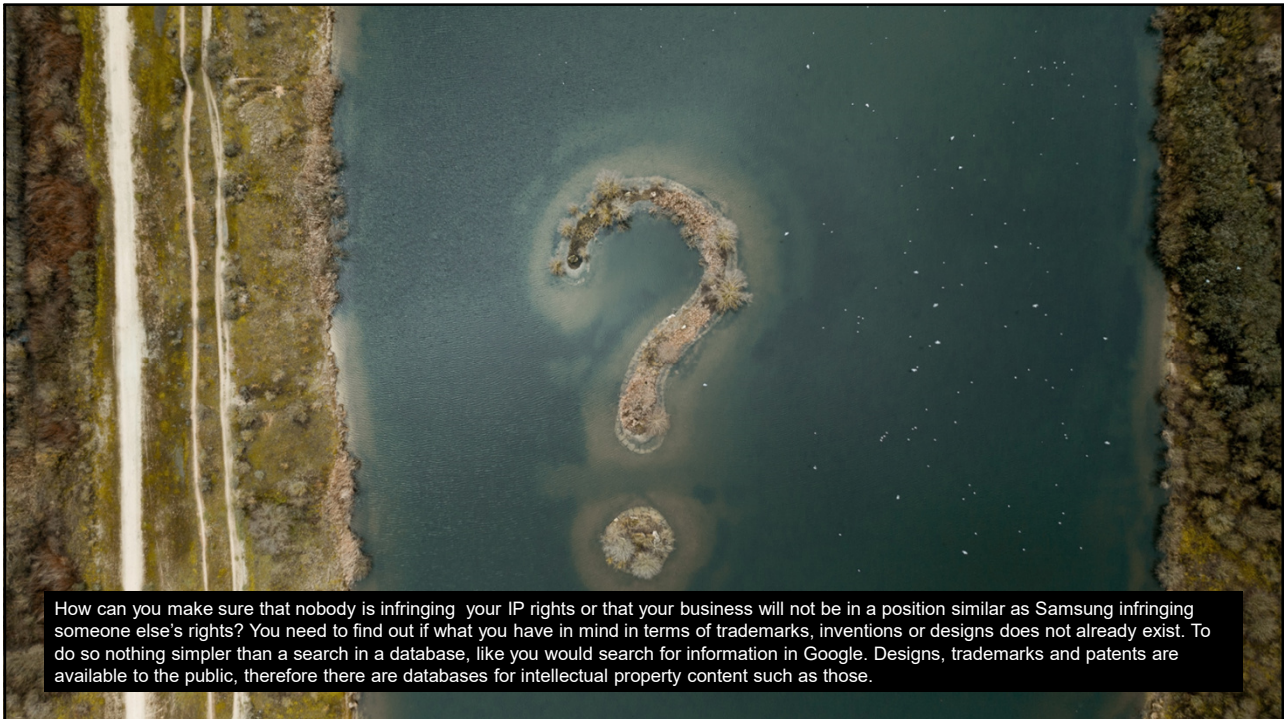


\$539 Million

Could you guess how this huge amount of money five hundred thirty nine million dollars was spent? Imagine what you could buy with this amount. You could definitely buy a couple of private jets, some luxurious cars and a few houses all over the world and many more! If you guessed right, the money was not spent to buy such nice items. In fact, back in May 2018, this is the amount that a U.S. jury said *Samsung* had to pay *Apple Inc* for infringing intellectual property rights.



Intellectual property (IP) infringement refers to any violation of protected intellectual property rights. For example, piracy is the unauthorized use of materials protected by IP rights. Infringement can also include copy, reproduction, or distribution of materials protected by IP rights. This happens when your work protected by IP laws, as for example using the different treaties for patents, trademarks and designs, is copied or used without your permission.



How can you make sure that nobody is infringing your IP rights or that your business will not be in a position similar as Samsung infringing someone else's rights? You need to find out if what you have in mind in terms of trademarks, inventions or designs does not already exist. To do so nothing simpler than a search in a database, like you would search for information in Google. Designs, trademarks and patents are available to the public, therefore there are databases for intellectual property content such as those.

WIPO GLOBAL DATABASES

Provided by WIPO. These databases are available online and they are free of charge and very easy to use. Let's take a look at some concrete examples.



If you or your company wanted to include such a house in your trademark, by using WIPO Global Brand Database, you can find out if logos similar to yours already exist. To obtain this information you just need to upload your image into the Global Brand Database in which your image is compared to the images contained in the database using artificial intelligence.



Those are the results that are close to the image you uploaded. You see trademark that are similar to your logo.



The Global Brand Database

WIPO IP PORTAL MENU Global Brand Database Covid-19 Update X HELP ENGLISH LOGIN WIPO

Perform a trademark search by text or image in brand data from multiple national and international sources, including trademarks, appellations of origin and official emblems. V: 2021-05-19 23:38

Data from Kyrgyzstan available Over 11,000 records added | Data from Vanuatu available Over 2,000 records added | Data from Cuba available Over 100,000 records added | Data from Zambia available Over 20,000 records added | Data from India available Close to 2 million records added | Data from San Marin available Over 3,700 records added | Data from Albania available Over 18,000 records added | Data from Ukraine available Over 209,000 records added

SEARCH BY: Brand Names Numbers Dates Class Country

Text: e.g. wipo OR emp1 'test' emp1
Image class: e.g. 05 07 13, apple AND tree
Goods/Services: e.g. footwear, computer

FILTER BY: Source Image Type Status Origin App. Year Expiration

AE TM	225,154	AL TM	19,770	AU TM	1,850,543	BH TM	107,711	BN TM	51,014	BT TM	20,129
BW TM	38,034	CA TM	1,787,430	CH TM	457,064	CL TM	602,514	CR TM	350,149	CU TM	100,484
DE TM	2,235,937	DK TM	297,235	DZ TM	39,530	EE TM	63,252	EG TM	139,730	EM TM	1,972,177
ES TM	1,069,224	FR TM	2,991,655	GE TM	46,163	GH TM	31,225	GM TM	8,707	ID TM	985,419
IL TM	305,155	IN TM	2,444,063	IS TM	118,439	IT TM	1,266,063	JO TM	161,690	JP TM	2,271,193
KE TM	95,165	KG TM	11,279	KH TM	113,114	KR TM	3,978,011	KW TM	33,213	KZ TM	73,324

Brand	Source	Status	Relevance	Origin	Holder	Number	App. Date	Image class	Nice Cl.	Image
LUCKY	MM TM	Pending	1	MM	Aerantakajaka	MM	4320210028540		28, 35, 41, 43	
No Verbal Elements	EE TM	Pending	1	EE	KIBZOV	EE	M202100722			
NURLU	EE TM	Pending	1	EE	AS G4S Eesti	EE	M202100721			
LUBLE	EE TM	Pending	1	EE	OU Serpentex	EE	M202100720			
Ecotraller	EE TM	Pending	1	EE	Kinnusaar	EE	M202100719			
COLLAJANT	UY TM	Pending	1	UY	BIOBERICA, S.A.U.	ES	524319			
RESTORADERM	UY TM	Pending	1	UY	NESTLE SKIN HEALTH S.A.	CH	524323			
CHARLIE URUGUAY	UY TM	Pending	1	UY	Carla Victoria Romero Sena	UY	524303			
COLINEAL	UY TM	Pending	1	UY	COLINEAL CORPORATION CIA LTDA	EC	524325			
EAGLE CLAW	UY TM	Pending	1	UY	Wright & McGill Co.	US	524324			

This search, by image and many more, can be done in WIPO's database for trademarks called the global brand database. I show you this printscreen so that you have an idea of what the Global Brand Database looks like, do not try to look at all the details as there is a lot of

Global Design Database

WIPO IP PORTAL MENU Global Design Database Covid-19 Update X HELP ENGLISH LOGIN WIPO

A world-wide collection of designs data; including WIPO Hague registrations and information from participating offices.

SEARCH BY: Design Names Numbers Dates Country Priority

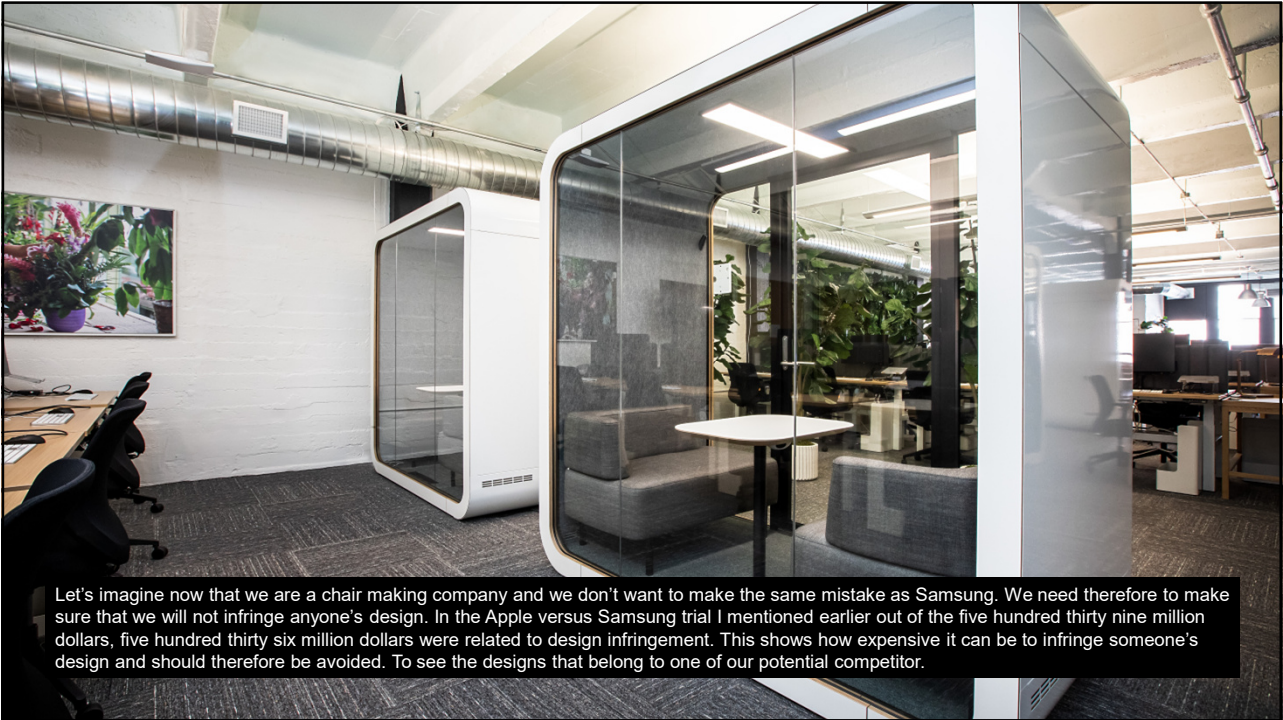
Indication of product:
Design class:
Description:

FILTER BY: Source Status Designation Locamo class Reg. Year Expiration Holder

AL Designs	298	BN Designs	191	BN Designs	203	CA Designs	181,697
CH Designs	130,645	CN Designs	6,253,162	CR Designs	1,944	CU Designs	729
DE Designs	1,227,122	EM Designs	1,420,513	ES Designs	466,332	FR Designs	785,553
GE Designs	2,580	ID Designs	52,461	IN Designs	64,529	IT Designs	45,132
JP Designs	598,850	JO Designs	2,193	KE Designs	1,225	KH Designs	792
KR Designs	905,215	LA Designs	406	MD Designs	11,284	MK Designs	1,014

NZ ID	Reg. Date - desc	Design
428008	2021-05-20	PRECISION DOSE DELIVERY DEVICE REGENERON PHARMACEUTICALS, INC.
428006	2021-05-20	PRECISION DOSE DELIVERY DEVICE REGENERON PHARMACEUTICALS, INC.
428556	2021-05-19	Stainless Steel Toilet Bowl Freshner John Engu

Here is the interface that is very similar to the Global Brand Database that we just saw



Very easy to use

SEARCH BY

Design Names Numbers Dates Country Priority

Holder =

Creator =

Representative =

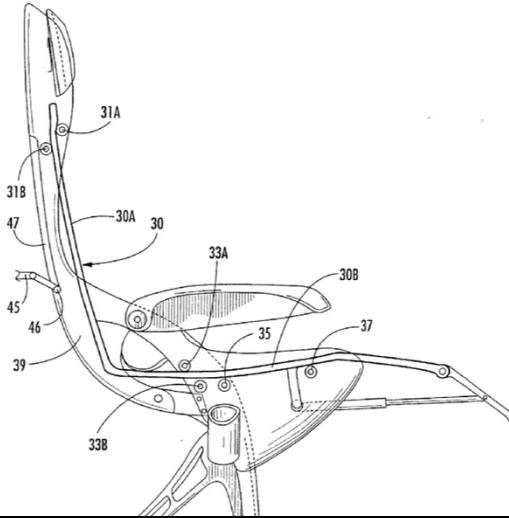
search

I just enter the potential competitor's name in the database, for example the company Okamura.

<input type="checkbox"/>	US ID D914419 Table 2021-03-30 Okamura Corporation	
<input type="checkbox"/>	US ID D911552 Office booth 2021-02-23 OKAMURA CORPORATION	
<input type="checkbox"/>	US ID D910206 Office booth 2021-02-09 Okamura Corporation	
<input type="checkbox"/>	US ID D910205 Office booth 2021-02-09 Okamura Corporation	
<input type="checkbox"/>	US ID D909109 Chair 2021-02-02 Okamura Corporation	
<input type="checkbox"/>	US ID D908379 Chair 2021-01-26 Okamura Corporation	
<input type="checkbox"/>	US ID D907422 Chair 2021-01-12 Okamura Corporation	
<input type="checkbox"/>	US ID D903355 Chair 2020-11-12 Okamura Corporation	

And the designs that belong to Okamura appear in the results. You can then open each record for more information. Let's take a look now at one last example.

INTELLECTUAL PROPERTY ORGANIZATION



Let's imagine that after a long trip on a plane, you had a brilliant idea to create a very comfortable seat. You think that you idea is unique, but is it really the case? To check, you can use the database to find out if anyone else had a similar idea before you..

OMPI
ORGANISATION MONDIALE
DE LA PROPRIÉTÉ
INTELLECTUELLE

Unique features

- Machine translation tool: WIPO Translate
- Cross-lingual expansion search
- Chemical search (including Markush)

PATENTSCOPE also includes some unique features such as the machine translation tool developed in house specifically for the translation of patent documents and using artificial intelligence. It is called WIPO Translate. In PATENTSCOPE, you will also find a tool developed in house for cross-lingual searches that will not only translate your search but also find synonyms of your search, therefore expanding the scope of your search. You can also perform chemical search in WIPO's patent database. My colleagues Justin will tell you more about this feature and Magdalena and David will also show you some unique features.

WORLD
INTELLECTUAL PROPERTY
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WIPO's Global Databases

- PATENTSCOPE: Patents
- Global Brand Database: Trademarks
- Global Design Database: Designs

To summarize: WIPO provides 3 databases, all free of charge: one for patents called PATENTSCOPE, one for trademarks called the Global Brand Database and the database for designs is called the Global Design Database


WIPO
WORLD
INTELLECTUAL PROPERTY
ORGANIZATION

A photograph showing a person's hand writing in a spiral notebook with a silver pen. A laptop is open to the left. The scene is brightly lit, suggesting an office or study environment.

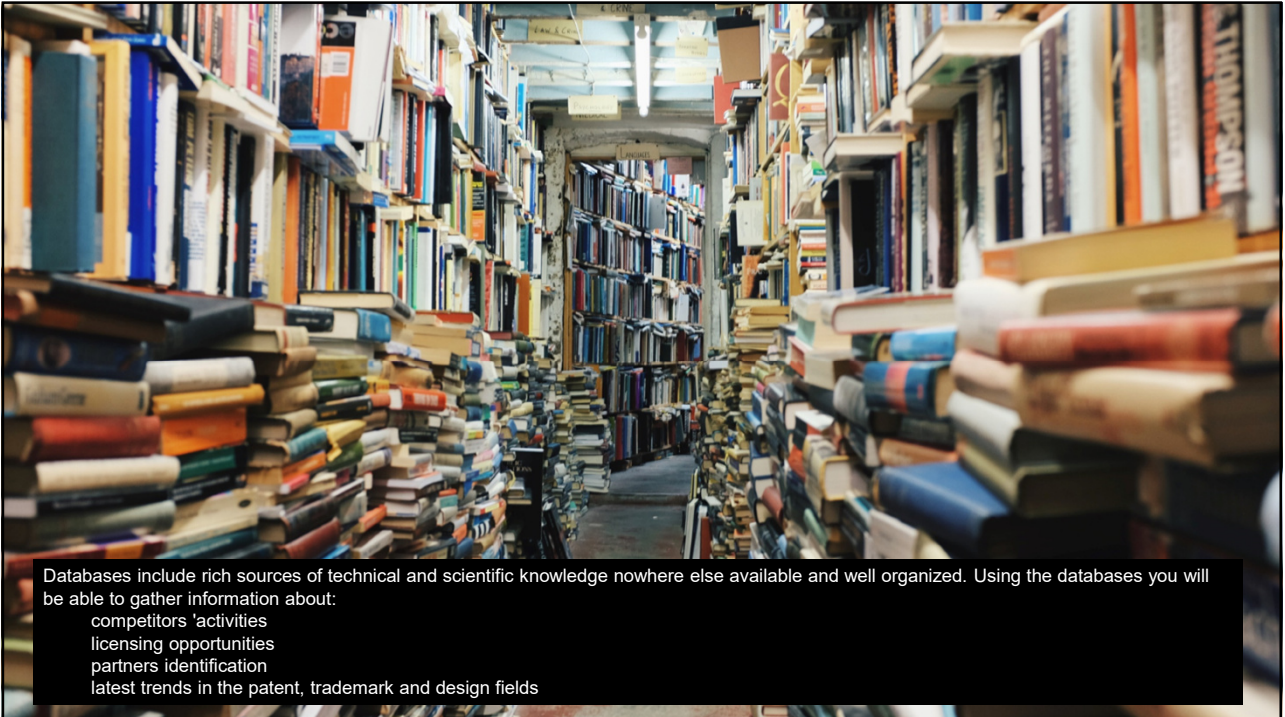
Free webinars

<https://www.wipo.int/meetings>

During this very short introduction you couldn't show you the many great features that will help you find relevant results. If you would like to find out more details about those databases, free webinars are available in the WIPO meetings page. The webinars are free of charge and cover different topics such as the translation tools in PATENTSCOPE, practical cases in the Global Brand Database etc.

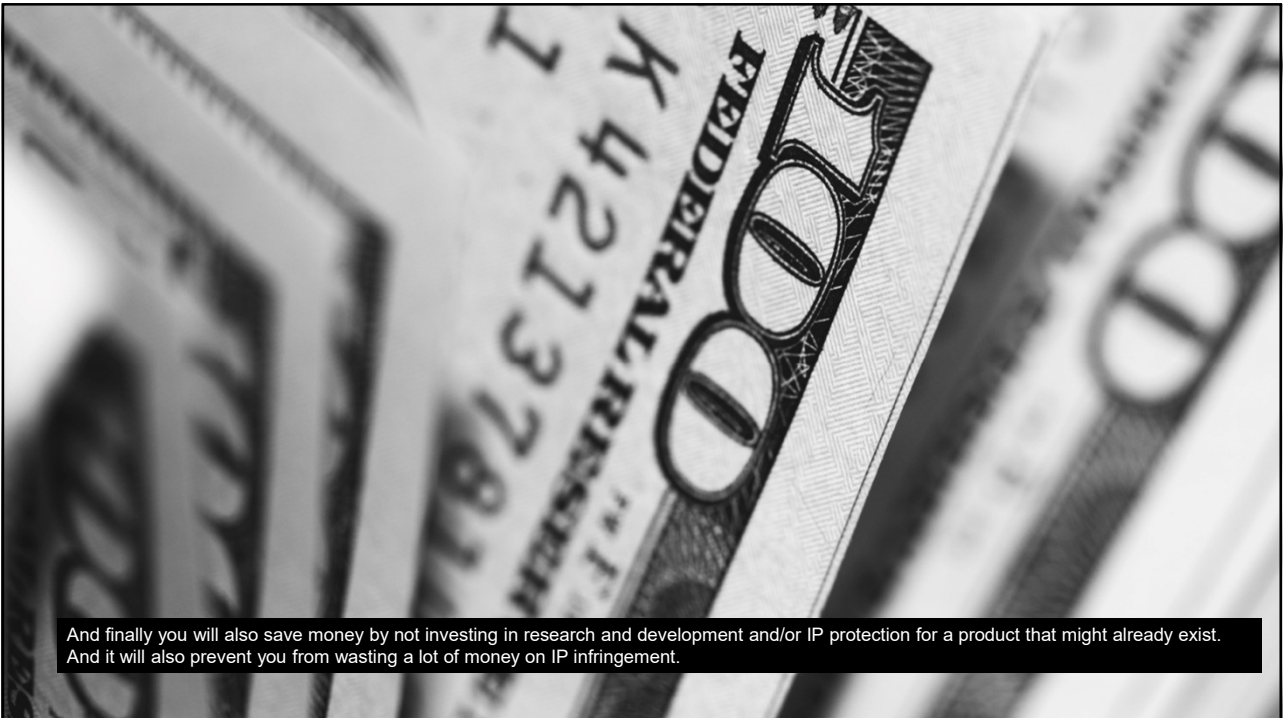
A close-up, artistic photograph of a watch face. The watch has a light-colored dial with dark hour markers and hands. The numbers 55, 25, and 10 are visible on the dial. The watch is set against a dark, textured background.

By using WIPO's Global Databases, you will save time: before spending time developing a product, checking if this product already exists will prevent you from wasting time working on it.



Databases include rich sources of technical and scientific knowledge nowhere else available and well organized. Using the databases you will be able to gather information about:

- competitors' activities
- licensing opportunities
- partners identification
- latest trends in the patent, trademark and design fields



And finally you will also save money by not investing in research and development and/or IP protection for a product that might already exist. And it will also prevent you from wasting a lot of money on IP infringement.



Chemical Search in PATENTSCOPE

Iustin Diaconescu – Head Patent Database Section

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INTELLECTUAL PROPERTY
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PATENTSCOPE's strengths

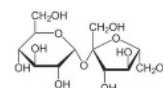
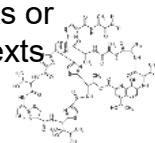
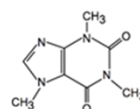
- Access to international Patent Cooperation Treaty (PCT) applications, 4.5 mil
- Extensive international coverage : 100 mil patents from 75 patent offices
- Multilinguism (WIPO* Translate, PATENTSCOPE CLIR)
- Powerful chemical search, markush capable(17 million unique chemical compounds mined from the full text of the patent collections of the IP5 and Russia)

Chemical Search – IP5 implementation

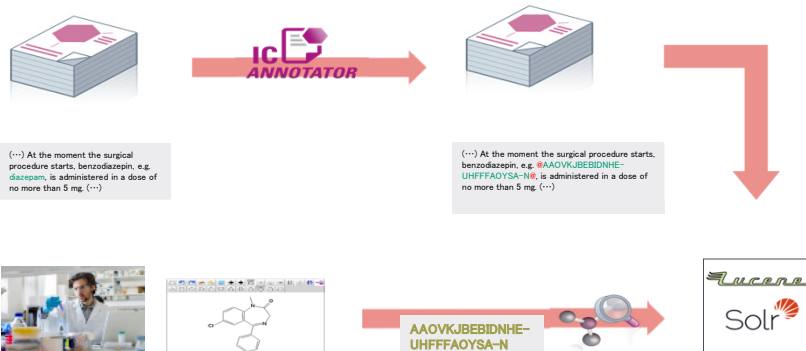
- This allows to get a quick draft patent landscape for drugs and to answer tough questions like:
 - What is the newest Japanese patent containing “Paracetamol”?
- **Wikipedia says: Paracetamol**, also known as **acetaminophen**, is a medication used to treat fever and mild to moderate pain.

Chemical Search - Principle

- Standardize all the different representations of chemical structures into Inchikeys
- Recognize chemical compounds in patent texts or from embedded drawings included in patent texts
- Implement search functions for Inchikeys that can be used by non chemists
- Data processed for the IP5 and WO patent collections



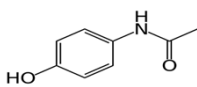
Chemical Search - Implementation



Chemical Search - Implementation

IUPAC name

N-(4-hydroxyphenyl)acetamide



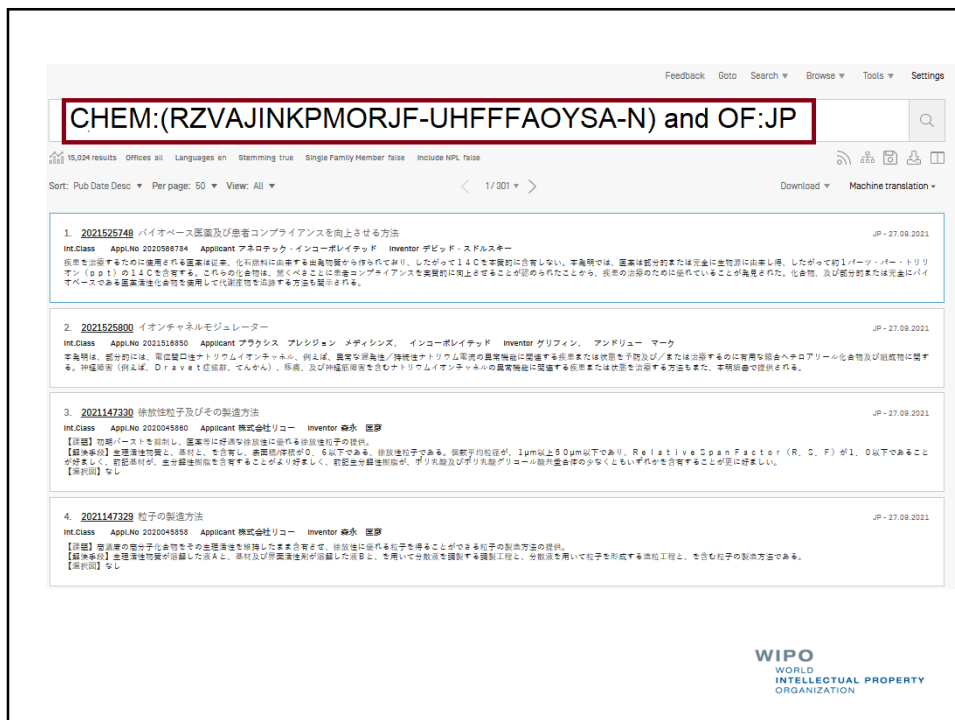
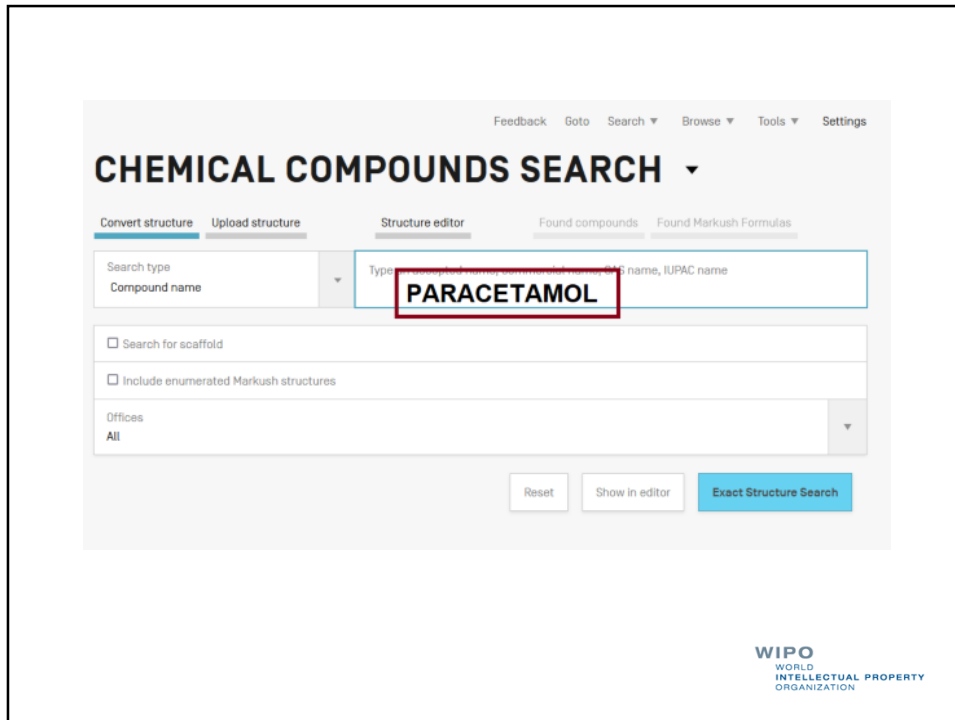
INN

paracetamol

Other names

Acetaminophen, panadol, tylenol, ...

ZVAJINKPMORJF-UHFFFAOYSA-N



1. JP2021525748 - バイオベース医薬及び患者コンプライアンスを向上させる方法

National Biblio. Data Full Text Patent Family **Compounds** Documents

Office: Japan Title: [JA] バイオベース医薬及び患者コンプライアンスを向上させる方法

Application Number: 2020566784

Application Date: 28.05.2019

Publication Number: 2021525748

Publication Date: 27.08.2021

Publication Kind: A

CPC: A61K 31/137 A61K 31/155 A61K 31/182 A61K 31/198 A61K 31/4194 A61K 31/4402

Abstract: [JA] 疾患を治療するために使用される医薬は従来、化石燃料に由来する出発物質から作られており、したがって1,4-Cを本質的に含有しない。本発明では、医薬は部分的または完全に生物体由来である。したがって、例えば、パーオキシドトリオン (p p t) の1,4-Cを含有する。これらの化合物は、錠くべきことに患者コンプライアンスを顕著的に向上させることが認められた。医薬の改善のために提供されていることが示された。化合物、及び部分または完全にバイオベースである医薬品に化合物を適用して代謝物を生成する方法も開示される。

FIG. 2

WIPO WORLD INTELLECTUAL PROPERTY ORGANIZATION

1. JP2021525748 - バイオベース医薬及び患者コンプライアンスを向上させる方法

National Biblio. Data Full Text Patent Family **Compounds** Documents

Title Abstract Full text

Paracetamol <chem>CC(=O)Nc1ccc(O)cc1</chem>	Chlorhexidine <chem>ClC1=CC=C(C=C1)N2C=CC(=C2)N3CCCC3</chem>	Amoroxol <chem>C1=CC=C(C=C1)N2C=CC(=C2)N3CCCC3</chem>	Cetirizine <chem>C1=CC=C(C=C1)N2C=CC(=C2)N3CCCC3</chem>	JARNCYVAAQWBS-UHFFFAVSA-N <chem>C1=CC=C(C=C1)N2C=CC(=C2)N3CCCC3</chem>	Biscodyl <chem>C1=CC=C(C=C1)N2C=CC(=C2)N3CCCC3</chem>
Xylometazoline <chem>C1=CC=C(C=C1)N2C=CC(=C2)N3CCCC3</chem>	Diclofenac <chem>C1=CC=C(C=C1)N2C=CC(=C2)N3CCCC3</chem>	Clostrimazole <chem>C1=CC=C(C=C1)N2C=CC(=C2)N3CCCC3</chem>	Omeprazole <chem>C1=CC=C(C=C1)N2C=CC(=C2)N3CCCC3</chem>	Flurbiprofen <chem>C1=CC=C(C=C1)N2C=CC(=C2)N3CCCC3</chem>	Naproxen <chem>C1=CC=C(C=C1)N2C=CC(=C2)N3CCCC3</chem>

WIPO WORLD INTELLECTUAL PROPERTY ORGANIZATION

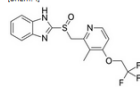
Description of Embodiments

0026 本発明では、(化石燃料とは対照的に)再生可能な供給源から供給される出発物質からバイオベース医薬を合成する、再生可能な供給源からバイオベース材料を作る方法について記載した種々の特許及び論文が存在する。本発明に係る医薬組成物を作るための好ましい出発物質は、上に引用したHuberの特許に記載されているようにバイオマスの熱分解によって作られる芳香族生成物である。別の例を挙げると、Miller et al.は、(少なくとも以下に全体を抄写したかのように本明細書に挿入される)米国特許第9,668,951号の中で、微生物プロセスでバイオベースの1,3-プロパンジオールを作ることについて記載している。Cukalovicは、"Use of micro reactor technology and renewable resources to develop green chemical processes." Ph.D. dissertation, Ghent University, 2012の中で、ヒドロキシトルエン(HMT)の選択的アミノ化によって(5-アルキルアミノトル-2-ヒドロキシメチル)フロン生成が得られ、その合成研究に有用な6位置換部3-ヒドロキシルまたはその他の置換部を有する芳香族生成物の合成に関する一連の論文が提供される。Mamoudは、The selective synthesis of aromatics and furans from biomass-derived compounds. Thesis, 2016, University of Delawareの中で、フランのDiels-Alder反応が、芳香族分子へのこれらの化合物の置換、医薬品及び他の様々な置換分子の合成にとって重要な反応であると述べている。バイオベース輸送について記載している他の刊行物としては、Xu et al., Direct production of indoles via thermos-catalytic conversion of bio-derived furans with ammonia over zeolites, Green Chemistry (2015), Vol. 17, pages 1291-1299, Carlson et al., Aromatic Production from Catalytic Fast Pyrolysis of Biomass-derived Feedstock, Topics in Catalysis (2004), vol. 52, pages 241-252が挙げられる。

0028 バイオベース医薬の製法はよく知られている。放射線質量分析を用いて固体、液体及び気体試料のバイオベース含有量を決定するための標準的製法としてASTM D 6866-18は、呼吸または代謝の停止、例えば凍結で自然な生命を生きている作物または牧草の収穫の時点で葉供給源が空気中のCO₂と置換する材料に対して、正確なバイオベース/生物由来炭素含有量を提供する。液体シンチレーション計数は、化合物中の¹⁴Cの分布を分析するために用いることができるより古い技術であり、例えば、Kent et al., "A Method for Obtaining the ¹⁴C-Isotope Distribution in Malate (C-2)", Anal. Biochem. 90, 176-182 (1977)を参照せよ。最近では、加速質量分析を用いて化合物中の¹⁴Cの分布を分析することができる。本発明では、部分的にバイオベースである化合物を使用して医薬の代謝による置換、輸送及び/または分布を研究することができる。これは、完全にバイオベースであるかまたは好ましくは部分的にバイオベースである化合物をヒトまたは動物に投与し、その後、体内にあるまたは排出される試料を採取することによって行われる。通常は、試料を凍結し(必要に応じて複数の検体から採取して凍結し)、¹⁴Cの存在、濃度及び/または分布について分析することになる。結果は、所望により、同じ濃度を有する従来のバイオベース医薬と比較され得る。

0029 本発明のいくつかの好ましい実施形態では、芳香族出発物質をバイオマスの熱分解(好ましくは固体材料の熱分解)によって、例えば、本明細書に引用するHuber et al.の方法によって製造する。したがって、好ましい出発物質にはバイオベースのベンゼン、トルエン及びキシレンが含まれる。他の芳香族出発物質、例えばナフタレン及びチナフロンを使用してもよく、これらについてもバイオマスの熱分解から得ることができる。

0028 本発明の態様では、バイオベースであるかまたは部分的にバイオベースである医薬組成物または医薬組成物の化学的に有効な用量が提供される。いくつかの実施形態では、用量は、表1に示す医薬組成物のいずれか1つを含有する医薬組成物を含有し、組成物を純粋な有効成分とすることもできる。あるいは不活性な及び/または他の薬理活性化合物との混合物とすることもできる。化合物は、表1に示す化合物のいずれか1つから選択され得る。一例を示す、下記で示されるバイオベースであるかまたは部分的にバイオベースであるランソゾール分子の化学的に有効な用量である。



Markush search

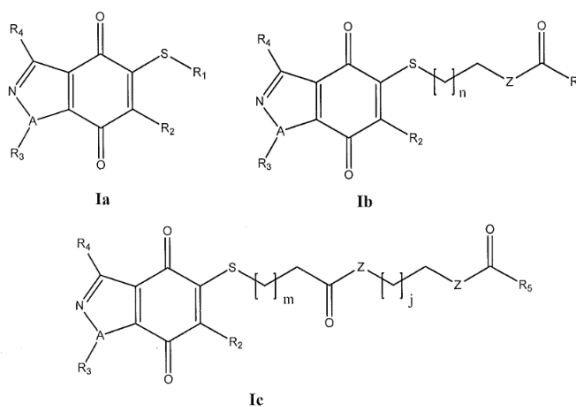
- [Markush, what is it?](#)
- [PATENTSCOPE Markush data and coverage](#)
- [Markush simple search](#)
- [Markush advanced search](#)



Markush: what is it?

- Representation of families of chemical compounds with «varying parts», usually with the purpose to specify patents claims
- Markush structures are named after Eugene A. Markush, founder of the Pharma Chemical Corporation in New Jersey. He was involved in a legal case that set a precedent for generic chemical structure patent filing. The patent filing was US Application 611,637, filed January 9, 1923. Markush was awarded a patent from the US Patent Office for “*Pyrazolone Dye and Process of Making the Same*” on August 26, 1924 (Wikipedia)

Markush: an example WO2012064632



where:

- each Z is independently selected from the group consisting of N, O, S and CH₂;
- A is O (then R₃ is null) or N
- n=1-5; m=1-5; j=1-4
- E is N, CH or CH₂;

Markush data and coverage

- Professionally curated Markush Data (Derwent Markush data)
- Full coverage of organics, organometallics, inorganic salts and metal oxides, plus partial coverage of alloys, intermetallics and polymers.
- Data curated from EP, CN, JP, KR, WO and US patent documents with associated links to patent family members

Markush simple search

- Principle: enumerate up to 500 simplest compounds per Markush formulae
- Index the enumerated compounds in a new PATENTSCOPE search field called 'ENUM'
- search compounds expressed in Markush formulae as easily as compounds explicitly cited in patents.

Markush simple search

ご意見送信 出願の表示 検索 ▼ 閲覧 ▼ ツール ▼ 設定

化学構造検索

構造式に変換 構造式をアップロード 構造式エディター 検出された化合物 検出されたマーカッシュ構造

検索の種類
化合物名

一般名称、商標上の名称、CAS 名称、IUPAC 名称などを入力 **PARACETAMOL**

併称を検索

列挙されるマーカッシュ構造を含む

自行
全て

リセット エディターで表示 構造完全一致検索

WIPO
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ご意見送信 出願の表示 検索 ▼ 閲覧 ▼ ツール ▼ 設定

ENUM:(RZVAJINKPMORJF-UHFFFAOYSA-N) and CTR:JP

並び替え: 公開日 最新しい順 ▼ 表示件数: 50 ▼ 表示: 詳細表示 ▼ < 1 / 9 > Download ▼ 興味通知 ▼

- W0201605283** 有機半導体組成物、有機薄膜トランジスタ、電子ペーパー、ディスプレイデバイス JP - 07.04.2019

国際特許分類 H01L 51/03 出願番号 2016051951 出願人 富士フイルム株式会社 発明者 松村 孝彦
- 2015227347** LOXAPROFEN-CONTAINING PHARMACEUTICAL PREPARATION JP - 17.12.2015

国際特許分類 A61K 31/192 出願番号 2015139779 出願人 KONA COMPANY LTD 発明者 ASAHYUKA UMINE

PROBLEM TO BE SOLVED: To provide a pharmaceutical composition in which interaction between loxapropfen and an interactive component is inhibited.

SOLUTION: The invention provides a pharmaceutical preparation in which a solid preparation containing (A) and (B) is packed with a packing material which can preserve airtightness. (A) Loxapropfen or a salt thereof, (B) one or more kinds selected from (B-1), (B-2), (B-3), and (B-4); (B-1) is an amine derivative which has diphenylmethylmethoxyl, or 2-propylphenylmethylmethoxyl which has an anticholinergic action, (B-2) a phenolsiphenyl ether derivative which has an expectorant action, (B-4) a xystine derivative, (B-5) lysozyme or a salt thereof, (B-6) cocaine, (B-7) ephedrine, (B-8) a xanthine derivative, (B-10) an isovaleryl urea derivative, and (B-11) a compound $\text{H}_2\text{N}-\text{CH}_2-\text{A}-\text{O}-\text{Q}-\text{Q}'$ (A: cycloalkylene of C 5-6, Q: carbonylalkylphenyl or H) or a salt thereof.

Copyright: IC12016_IP08NPT
- 2015082642** MOISTURE-PROOF AGENT, CELLULOSE-BASED RESIN COMPOSITION AND FILM USING THE SAME JP - 20.04.2015

国際特許分類 C08L 3/00 出願番号 201322487 出願人 ADEKA CORP 発明者 SESAWA MASAKI

PROBLEM TO BE SOLVED: To provide a moisture-proof agent capable of imparting an excellent moistureproof effect to a cellulose-based resin composition and to provide a cellulose-based resin composition and a film using the same.

SOLUTION: There is provided a moisture-proof agent represented by the following formula (1) or (2). $\text{R}^1-\text{L}-\text{R}^2$ (1) in the formula (1), R^1 is a substituted or unsubstituted alkyl group having 1 to 20 carbon atoms or the like; R^2 is a substituted or unsubstituted alkyl group having 1 to 20 carbon atoms or the like; and a connection group represented by L is $-\text{NH}-\text{C}(=\text{O})-$ or $-\text{C}(=\text{O})-\text{NH}-$ (in the formula (2), n is an integer of 0 to 6; R^3 to R^6 each independently represent a hydrogen atom, a halogen atom, a hydroxyl group, an amino group, a cyano group, a nitro group, a substituted or unsubstituted alkyl group having 1 to 20 carbon atoms or the like; R^7 represents a substituted or unsubstituted alkyl group having 1 to 20 carbon atoms or the like; and a connection group represented by n is $-\text{NH}-\text{C}(=\text{O})-$ or $-\text{C}(=\text{O})-\text{NH}-$).

Copyright: IC12015_IP08NPT

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1. JP1993170669 - 錠剤用賦形剤

国内審査情報 フルテキスト パテントファミリー 化合物 **マーカッシュ構造** 登録

ご意見送信 出願の表示 検索 ツール 設定

国内審査情報 フルテキスト パテントファミリー 化合物 **マーカッシュ構造** 登録

パーマリンク 自動翻訳

国名	日本	発明の名称	(JA) 錠剤用賦形剤
出願番号	199243109	発明	(JA)
公開日	17041992	【摘要】	2-ラクトース含量の高いラクトース組成に、乳糖中に、塩基成分に基づいて1-1.5重量%の糖アルコールを加えたもの製剤物からなる、均質塊の形で直接打錠して錠剤を作るための錠剤用。
公開番号	1993170669	【出典】	本発明の錠剤用を用いることにより、結晶化が阻害されるものも結晶化の必要なしに容易に錠剤化しうる。
公開日	09.071993	Related patent documents	US6100881 EP0628488 DE000089208021 US6334555
特許番号	3519487		
特許付与日	23.07.2004		
公報種別	B2		
IPC	A61K 47/28 A61K 9/20 A61K 47/12		
CPC	A61K 9/2018		
出願人	カムビナ マルクニー ビー アイ		

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1. JP1993170669 - 錠剤用賦形剤

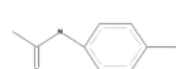
国内審査情報 フルテキスト パテントファミリー 化合物 **マーカッシュ構造** 登録

マーカッシュ番号

8293-3031

8307-8897

マーカッシュ構造




化合物

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Markush Advanced Search

- Uses a simplified, iterative search process designed for PATENTSCOPE by Infochem
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- Finds potentially more matches than with the enumeration search
- Still easy to use (but with longer response times)
- Shows intermediate results as list of Markush numbers
- Works with drawn structures with optionally varying parts (CHK, CHE, CHY, HET, HEA, HEF, CYC, ARY)



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The Whys, The Whats and the Hows of PATENTSCOPE Patent Families

Magdalena Zelenkovska, Senior Patent Data Manager
Patent Database Section, Global Databases Division
Infrastructure and Platforms Sector

Geneva, December 16, 2021

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What are Patent Families?

- “Simple patent family” means a patent family relating to the same invention, each member of which has for the basis of its “priority right” exactly the same originating application or applications. (WIPO Handbook)
- The relationships among the members of the patent family can be of several types: Paris Convention priorities, domestic relationships (continuations and divisionals), PCT national phase entries and technical relations.
- Types of filing
 - National Route
 - Regional Route (EPO, ARIPO,...)
 - International Route (PCT)

Why Patent Families?

- Complement bibliographic data, establish priority date
- Prior art examination
- Translation
- Economic and statistical use
 - Prevent double counting, forecast applications
 - Analyze internationalization of a technology
 - Estimate patent value
 - Refined patent indicators

Why PATENTSCOPE Patent Families?

- Patent families are a function of data available
- PATENTSCOPE has unique coverage
- PATENTSCOPE has unique way of aggregating applications
- Accountability

What is in a PATENTSCOPE Patent Family? - The Definition

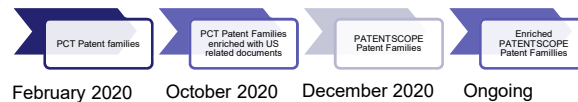
- Groups of unique filings → Families of filings
 - 99.5 million filings translates into 124,5 million publications

1. US20180049614 - URBAN OR INDUSTRIAL ASPIRATOR

PT3013535 URBAN OR INDUSTRIAL ASPIRATOR		25.06.2014	
Appl.No 147418214	Applicant GLUTTON CLEANING MACHINES DIVISION DE LANGE CHRISTIAN SA	Pub.Date 02.11.2017	Pub.Kind T IC8
Pub.Lang			
CA2918786 URBAN OR INDUSTRIAL ASPIRATOR		23.12.2015	
Appl.No 2918786	Applicant GLUTTON CLEANING MACHINES DIVISION DE LANGE CHRISTIAN SA	Pub.Date 31.12.2014	Pub.Kind A1,C IC2
Pub.Lang en			irmaLink
US20180049614 URBAN OR INDUSTRIAL ASPIRATOR		25.12.2015	
Appl.No 14757715	Applicant Glutton Cleaning Machines Division de Lange Christian sa	Pub.Date 07.07.2016	Pub.Kind A1,A2,A8,B2 IC8
US14757715B2	US20191112	XML, ZIP(XML + TIFFs)	
US14757715A9	US20180222	XML, ZIP(XML + TIFFs)	
US14757715A2	US20170112	XML, ZIP(XML + TIFFs)	
US14757715A1	US20160707	XML, ZIP(XML + TIFFs)	

What is in a PATENTSCOPE Patent Family? - The Definition

Timeline



Scope

PCT Patent Families	<ul style="list-style-type: none"> • Built on strong links between a PCT application and its national entries • A combination of <ul style="list-style-type: none"> • national phase entry data as received by participating offices • prior PCT links in the bibliographic data • first and only priority included
PCT Patent Families enriched with US related documents	<ul style="list-style-type: none"> • Provisionals, re-issues, republications, divisionals, continuations and continuations in part considered • Grouping based on the calculation of first parent • all re-issues, republications, divisionals and continuations of an application and the application itself grouped in a single family. The continuations in part are not included in that family
PATENTSCOPE Patent Families	<ul style="list-style-type: none"> • Include families via both PCT and Paris route • based on priority data
Enriched PATENTSCOPE Patent Families	<ul style="list-style-type: none"> • Considers IP office specific practices • DPMA – Divisionals • NZ - Divisionals, Provisional • EG - Divisionals • JPO – Divisionals • PL – Divisionals • EP national entries from ES, DK, PT, LT and PL

What is in a PATENTSCOPE Patent Family? – Inclusion Criteria

Inclusion Criteria	IC1 - PCT application from which the family originated
	IC2 - National entry of a PCT application
	IC3 - National entry of a PCT application not found in PATENTSCOPE
	IC4 - US application related to another US application already included in the family
	IC5 - Sole priority inside the family
	IC6 – Connected by priority field
	IC7 -National application related to another application of the same national office already included in the family

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What is in a PATENTSCOPE Patent Family? – Inclusion Criteria(first Release)

- PCT application → IC1
- PCT NPE
 - NPE found in Patentscope → IC2
 - NPE not found in Patentscope → IC3
 - National Prior PCT → IC2
- PCT priorities, sole priority → IC5

Office	Entry Date	National Number	National Status
Iran (Islamic Republic of)	20.01.2020	139850140003009756	

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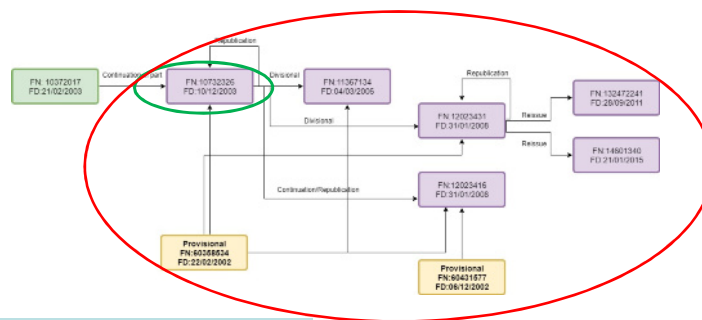
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What is in a PATENTSCOPE Patent Family? – Inclusion Criteria (second Release)

- Treated separately because of complexity
- Consider
 - Provisional applications for future referencing
 - Republications & Reissue → IC4
 - Continuations & Divisionals → IC4, defined as pairs of a parent and a child and attached to an application in a recursive manner
 - Continuations-in-part, not part of the same family

What is in a PATENTSCOPE Patent Family? – Inclusion Criteria (second Release) - Example

Enrichment via US related documents – An example



- 10732326 - priorities=related documents
- 11367134 - priorities=related documents + application itself
- 12023431 - no priorities
- 12023416 - priorities=related documents + application itself
- 13247241 - no priorities
- 14601340 - no priorities

What is in a PATENTSCOPE Patent Family? – Inclusion Criteria (third Release)

- Consider
 - Sole priority (PCT or national) → IC5
 - Matching priorities (PCT and national) → IC6
- Exceptions
 - US Provisional
 - JP Withdrawn
 - Circular priorities

What is in a PATENTSCOPE Patent Family? – Inclusion Criteria (third Release) – IC7 Example



Inquiry of history information

PatentsApplication 2015-171932 [Publication2017-049761](#)

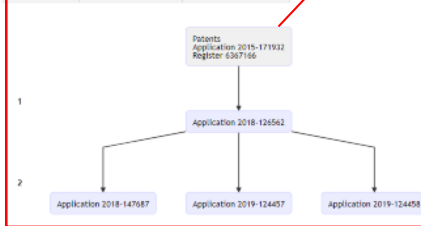
Register6367166 Right has not been cancelled

NOTICES *

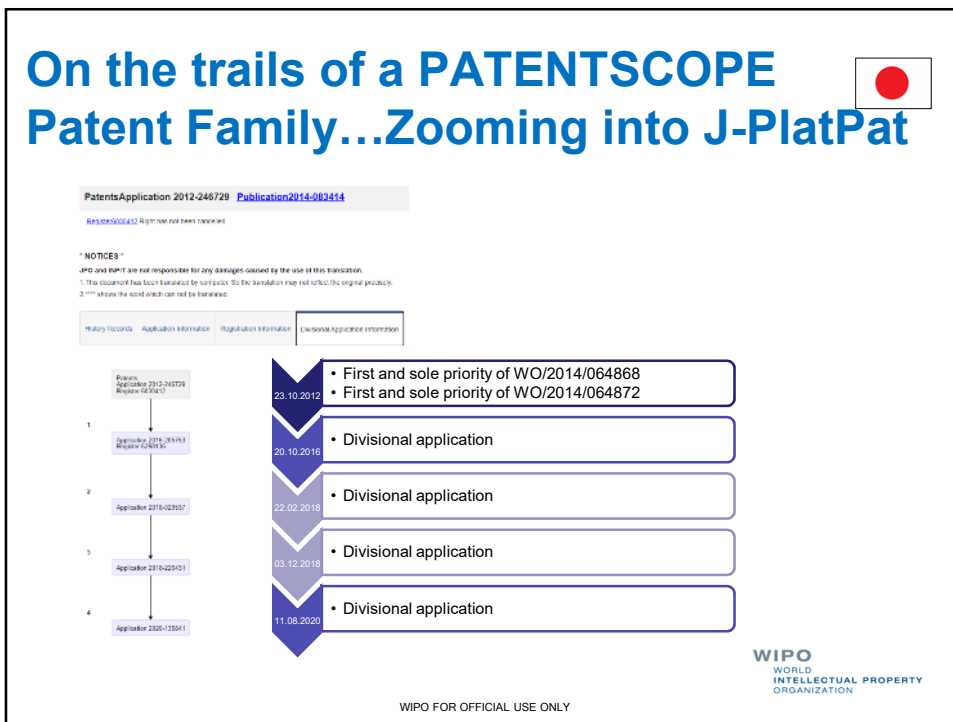
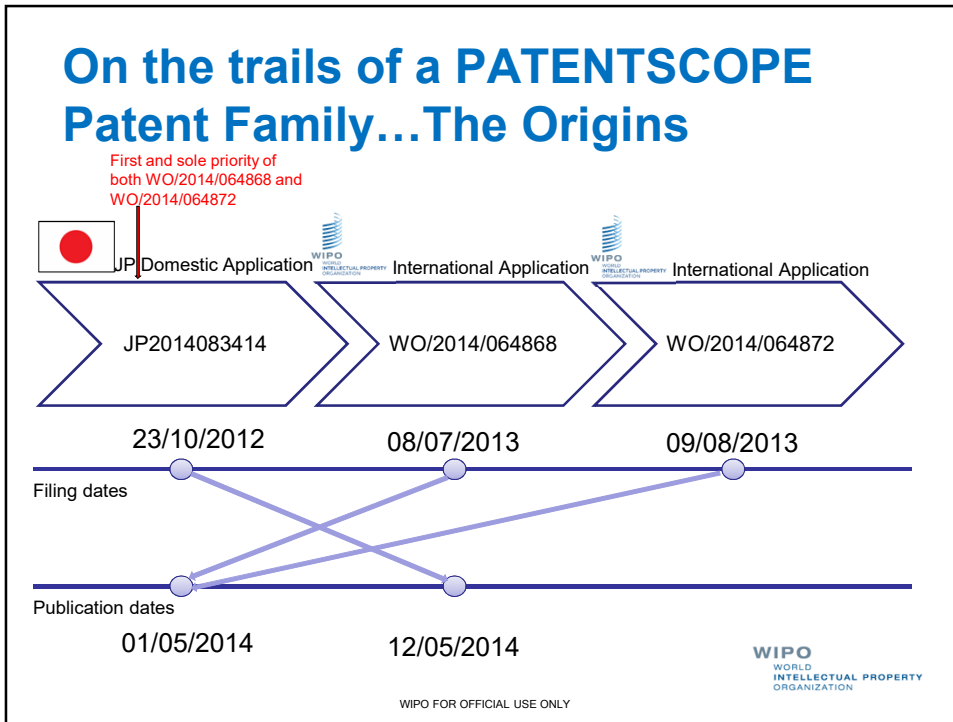
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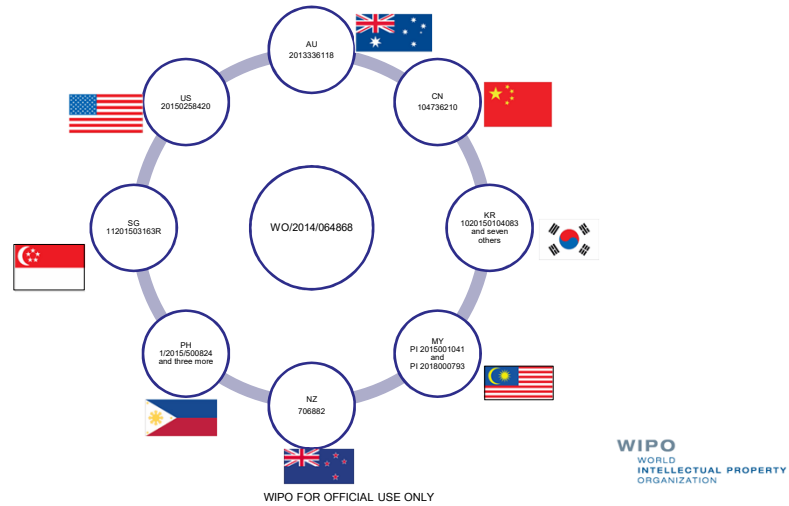
History Records Application Information Registration Information Divisional Application Information



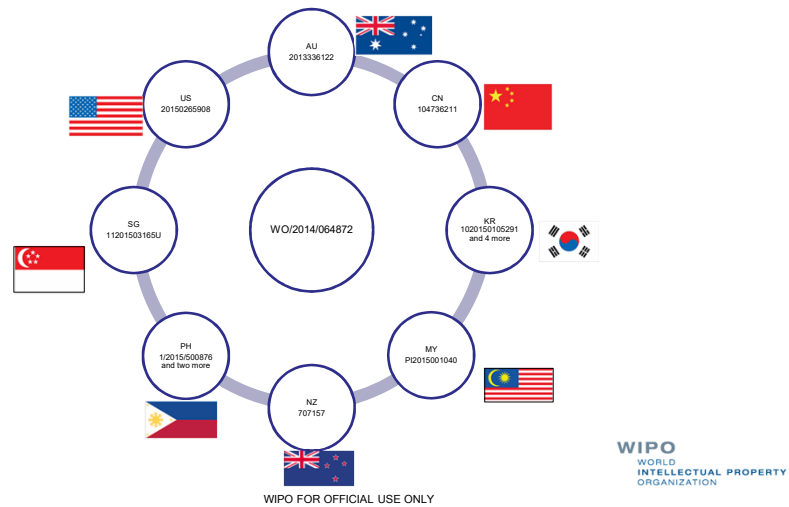
App.No	Applicant	Pub.Date	Pub.Kind	Pub.Lang	Pub.No
JP2017049761	ELECTRONIC APPARATUS AND METHOD	05.09.2017	A, B2	ja	01.09.2019
US20170961758	ELECTRONIC APPARATUS AND METHOD	02.09.2017	A, B2	en	14.12.2019
JP2018185321	WEARABLE TERMINAL AND METHOD	08.12.2018	A	ja	03.10.2019
JP2018185450	WEARABLE TERMINAL AND METHOD	26.11.2018	A	ja	00.09.2019
US20190172234	ELECTRONIC APPARATUS AND METHOD	09.08.2019	A, B2	en	01.02.2019
JP2019182564	WEARABLE TERMINAL, SYSTEM, AND METHOD	14.11.2019	A	ja	03.10.2019
JP2019182565	WEARABLE TERMINAL, SYSTEM, AND METHOD	14.11.2019	A	ja	03.10.2019

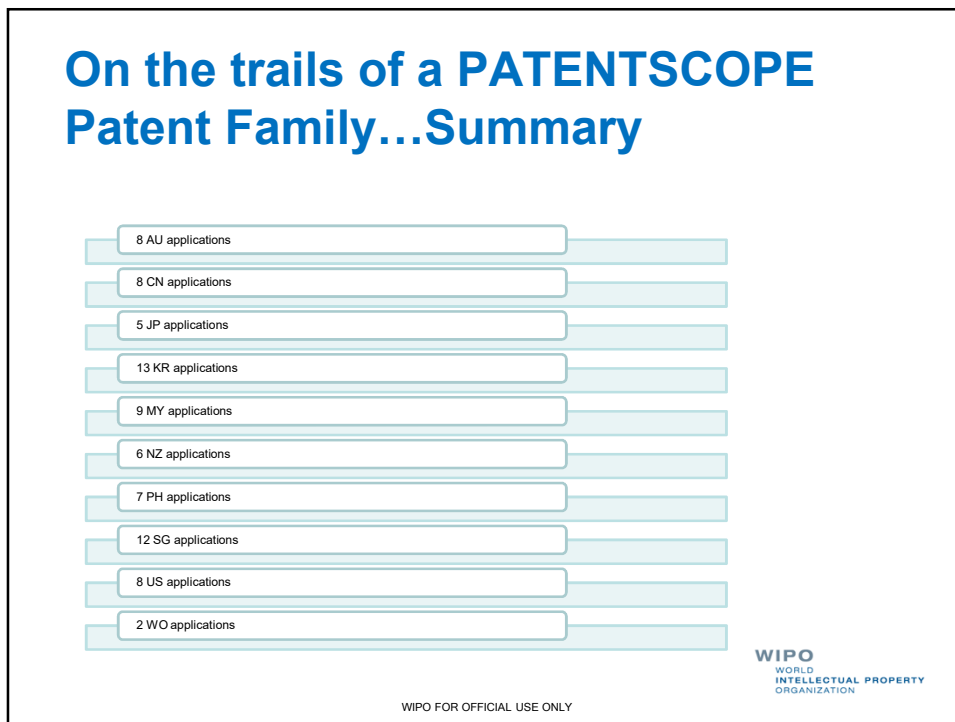
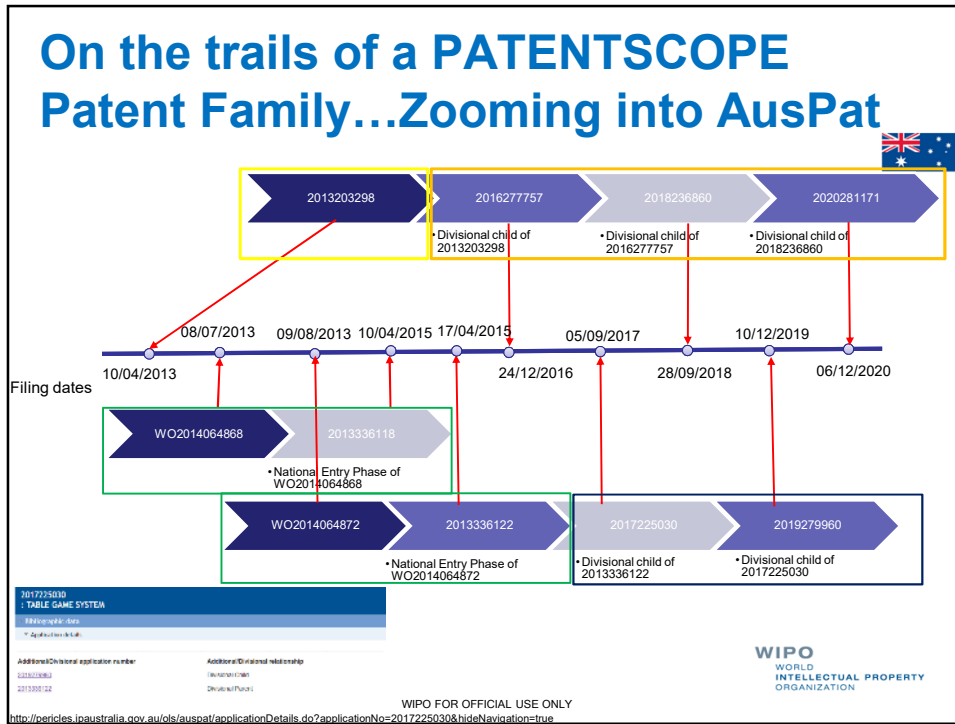


On the trails of a PATENTSCOPE Patent Family...Zooming into the International Applications



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PATENTSCOPE with focus on Japanese collection

David Diaz Diaz
Data Administrator

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PATENTSCOPE with focus on JP collection

- Japanese “Standardized data”
- Japanese national relations are taken into account for building PATENTSCOPE families
- National Japanese classifications (coming in 2022)
 - FI (File index)
 - F-term (File forming terms)
- Advanced patent number search



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Patent Classifications

- 93% Japanese applications classified
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09-184946 9184946
 1997-184946
 H09184946 49184946 409184946
 1997184946
 9-184946 H9184946 H09-184946
 H9-184946 97184946
 09184946

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PATENT COOPERATION TREATY
PCT
 INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
 (Chapter I of the Patent Cooperation Treaty)
 (PCT Rule 44bis)

Applicant's or agent's file reference PIB507109KST	FOR FURTHER ACTION		See item 4 below
International application No. PCT/KR2015/012943	International filing date (day/month/year) 30 November 2015 (30.11.2015)	Priority date (day/month/year) 11 February 2015 (11.02.2015)	
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237			
Applicant KOREA ADVANCED INSTITUTE OF SCIENCE AND TECHNOLOGY			

2. 인용문헌 및 설명:

참고한 인용문헌은 다음과 같습니다.

- D1: KR 10-1347557 B1 (한국과학기술원) 2014.01.03
- D2: JP 2002-228572 A (CANON INC.) 2002.08.14
- D3: JP 2002-139414 A (SHARP CORP.) 2002.05.17
- D4: JP 07-229906 A (CANON INC.) 1995.08.29
- D5: US 2007-0289369 A1 (XUEFENG WANG 등) 2007.12.20



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JP,09-184946,A(1997)

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Display format of document display page: Text PDF

Primary document | PAJ

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Bibliography

Close

Drawings

Close

- (19) [Publication country] JP
- (12) [Kind of official gazette] A
- (11) [Publication number] 09184946
- (43) [Date of publication of application] 19970715
- (54) [Title of the invention] OPTICAL FIBER HAVING COLORING IDENTIFYING PROPERTY AND ITS PRODUCTION
- (51) [International Patent Classification 6th Edition]

Representative drawing 1 2 3

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The screenshot shows the WIPO PATENTSCOPE search results page. The search query is: PN: 1997184946 AND PN: 09-184946 AND PN: H09-184946 AND PN: 409184946. The results show 1 result for the patent: 1. 1997184946 - OPTICAL FIBER HAVING COLORING IDENTIFYING PROPERTY AND ITS PRODUCTION. The patent details include: Int.Class G02B 6/44, Appl.No 1996000001, Applicant SUMITOMO ELECTRIC IND LTD, and Inventor KUBO YUJI. The title is: [EN] OPTICAL FIBER HAVING COLORING IDENTIFYING PROPERTY AND ITS PRODUCTION. The abstract is: [JA] 着色識別性を有する光ファイバおよびその製造方法.

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Pattern		Example
YYYYNNNNNN	Four-digit Western year + six-digit serial number	1997184946
YYYY-NNNNNN	Four-digit Western year + hyphen (-) + six-digit serial number	1997-184946
yyNNNNNN	2-digit Western year + six-digit serial number	97184946
XX-NNNNNN	two-digit Japanese year (Era omitted for applications published before 2000) + hyphen (-) + six-digit serial number	09-184946
XXNNNNNN	two-digit Japanese year (Era omitted for applications published before 2000) + six-digit serial number	09184946
xxNNNNNN	two-digit Japanese year (Era omitted for applications published before 2000) removing leading zeros + six-digit serial number	9184946
xx-NNNNNN	two-digit Japanese year (Era omitted for applications published before 2000) removing leading zeros + hyphen (-) + six-digit serial number	9-184946

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Pattern		Example
eXXNNNNNN	Japanese era sequence number ("5" or "r" for Reiwa, "4" or "h" for Heisei, "3" or "s" for Showa, "2" or "t" for Taisho, or "1" or "m" for Meiji) + two-digit Japanese year zeros + six-digit serial number	409184946
exxNNNNNN	Japanese era sequence number+ two-digit Japanese year removing leading zeros + six-digit serial number	49184946
EXXNNNNNN	Japanese era name symbol + two-digit Japanese year + six-digit serial number	H09184946
ExxNNNNNN	Japanese era name symbol + two-digit Japanese year removing leading zeros + six-digit serial number	H9184946
EXX-NNNNNN	Japanese era name symbol + two-digit Japanese year + hyphen (-) + six-digit serial number	H09-184946
Exx-NNNNNN	Japanese era name symbol + two-digit Japanese year removing leading zeros + hyphen (-) + six-digit serial number	H9-184946

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 - F-term (File forming terms)
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