

WIPO Roving Webinars





WIPO Services and Initiatives

Webinar series in partnership with CIPO Canada

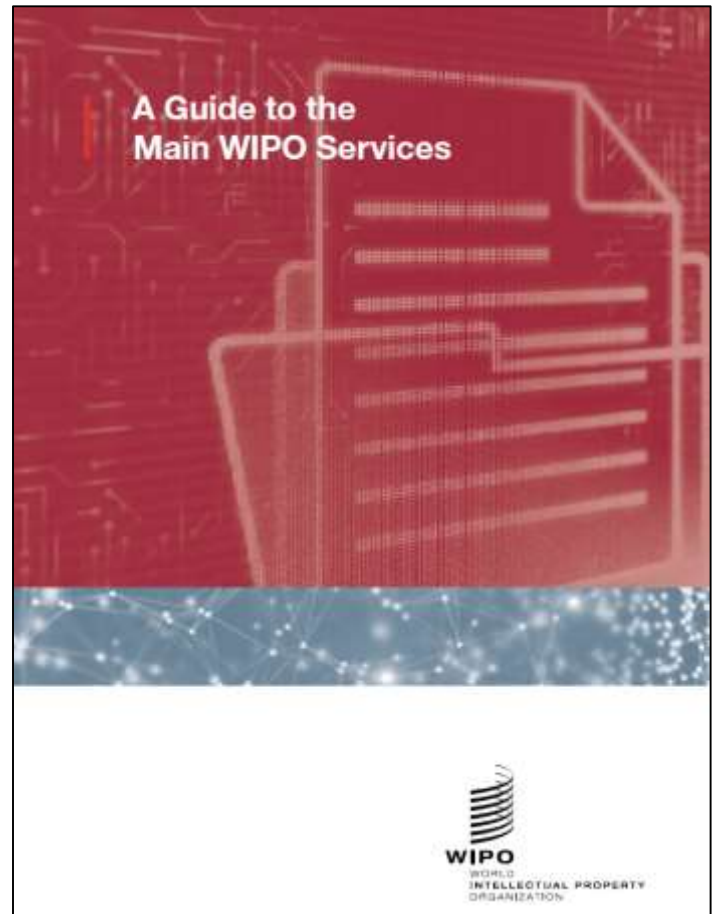


Enter your question →

→ Press 'Send'



Exit





WIPO and CIPO services related to patents; Solving disputes internationally; Global IP databases; WIPO IP Portal



Interaction with WIPO and CIPO experts



- Hasan Kleib, Deputy Director General, WIPO
- Doug Milne, Director General (acting), Corporate Strategies and Services, CIPO

WIPO Roving Webinars





Protecting your inventions with PCT

- Christine Bonvallet
- Jenna Wilson
- Tania Nish



PCT

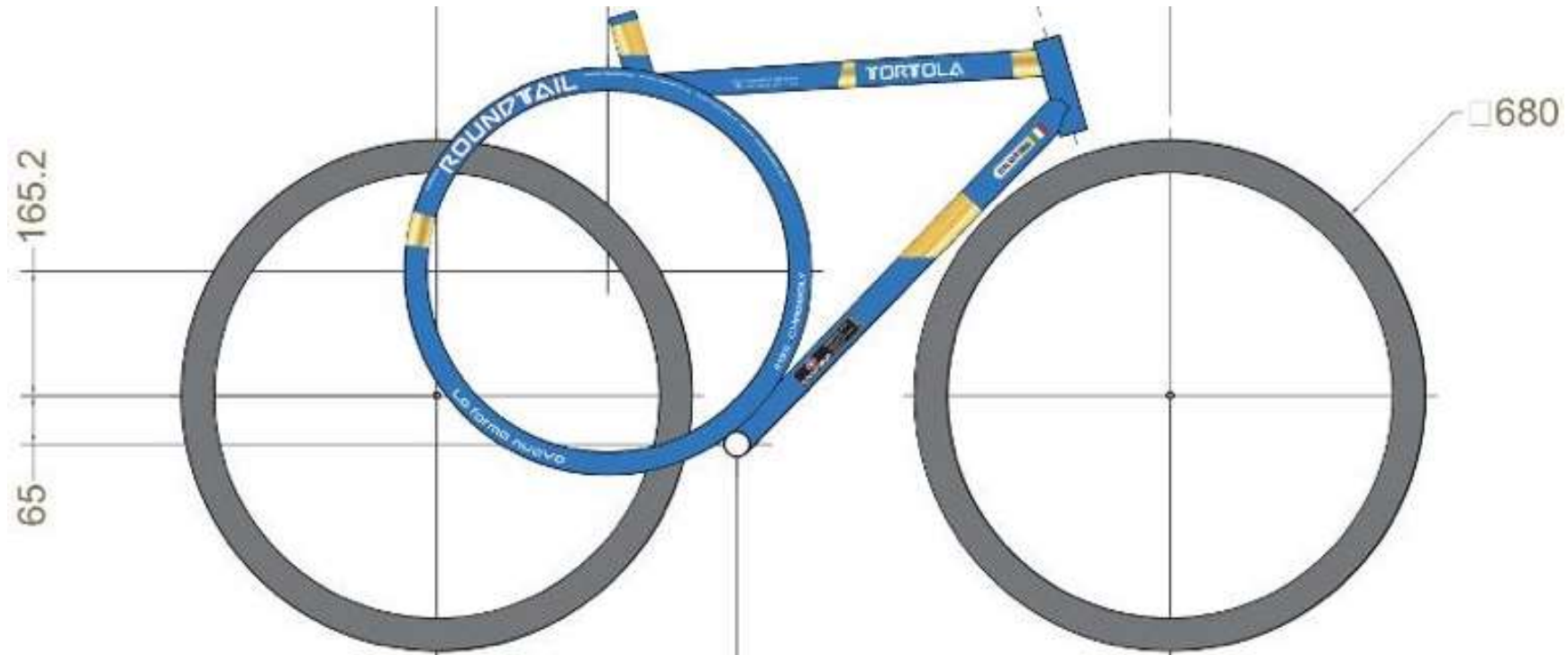
Christine Bonvallet
Director
PCT International Cooperation Division

Lucio Tortola

Re-inventing the... Frame

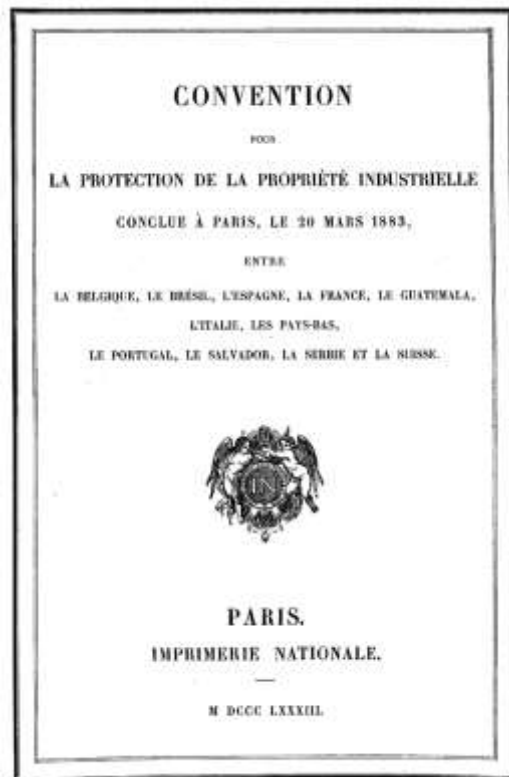


RoundTail Bike Sketch

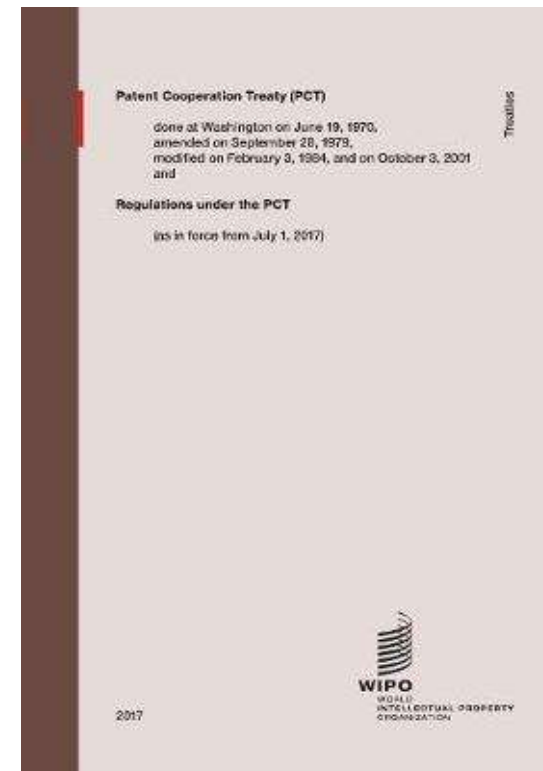


Two Options for Seeking Multinational Patent Protection

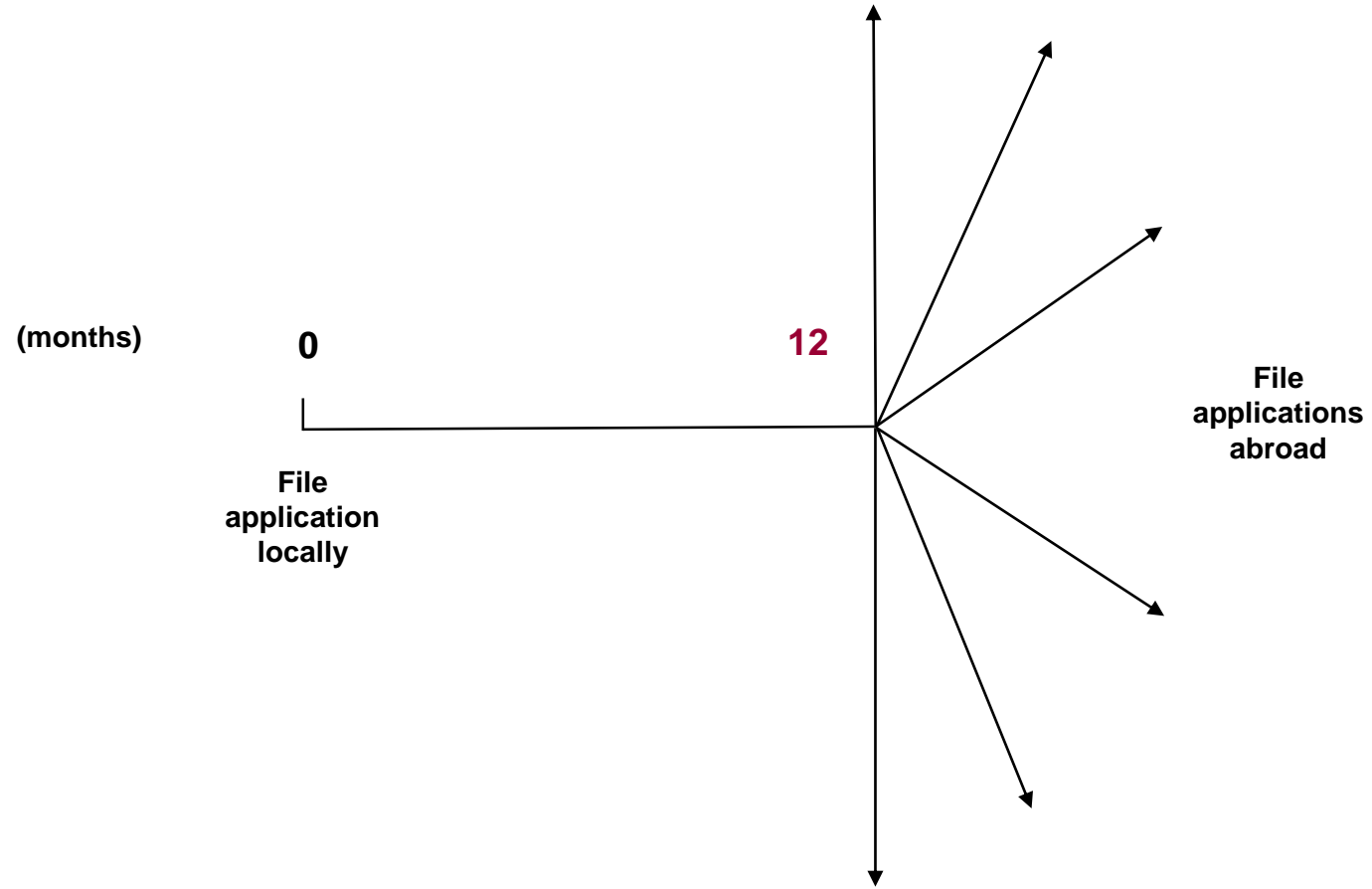
Paris Convention



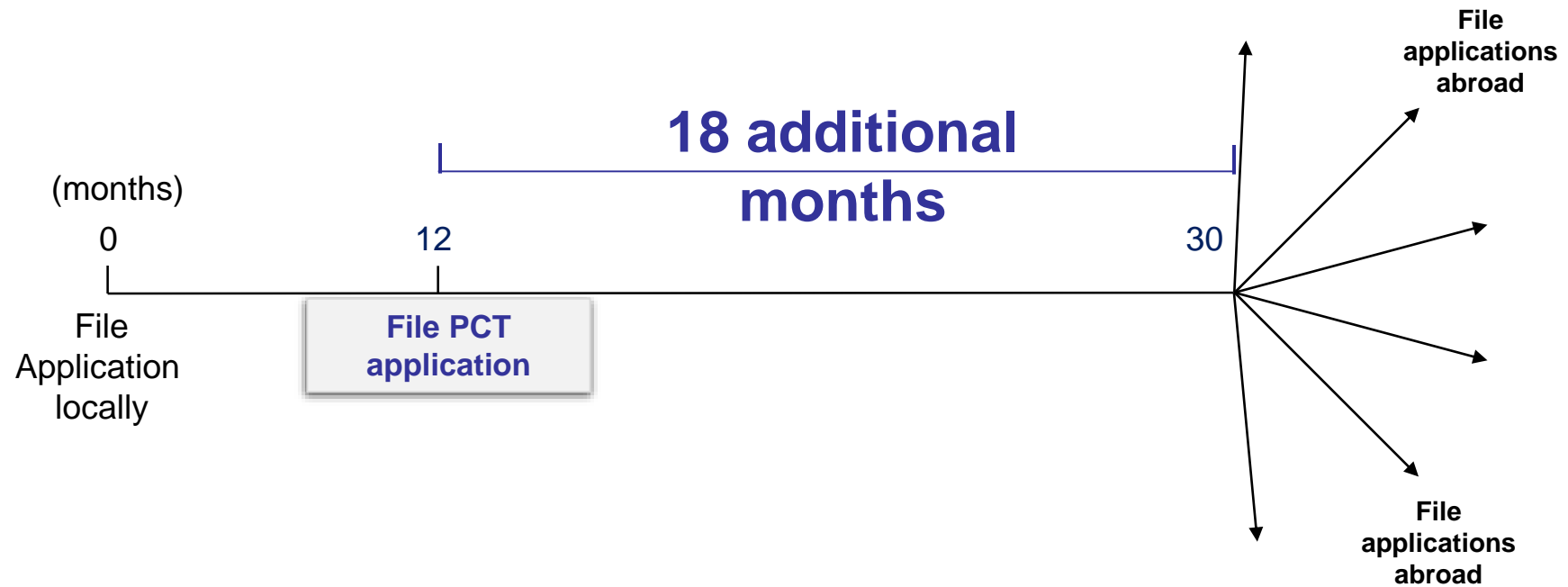
Patent Cooperation Treaty (PCT)



Paris Convention



Patent Cooperation Treaty (PCT)



18

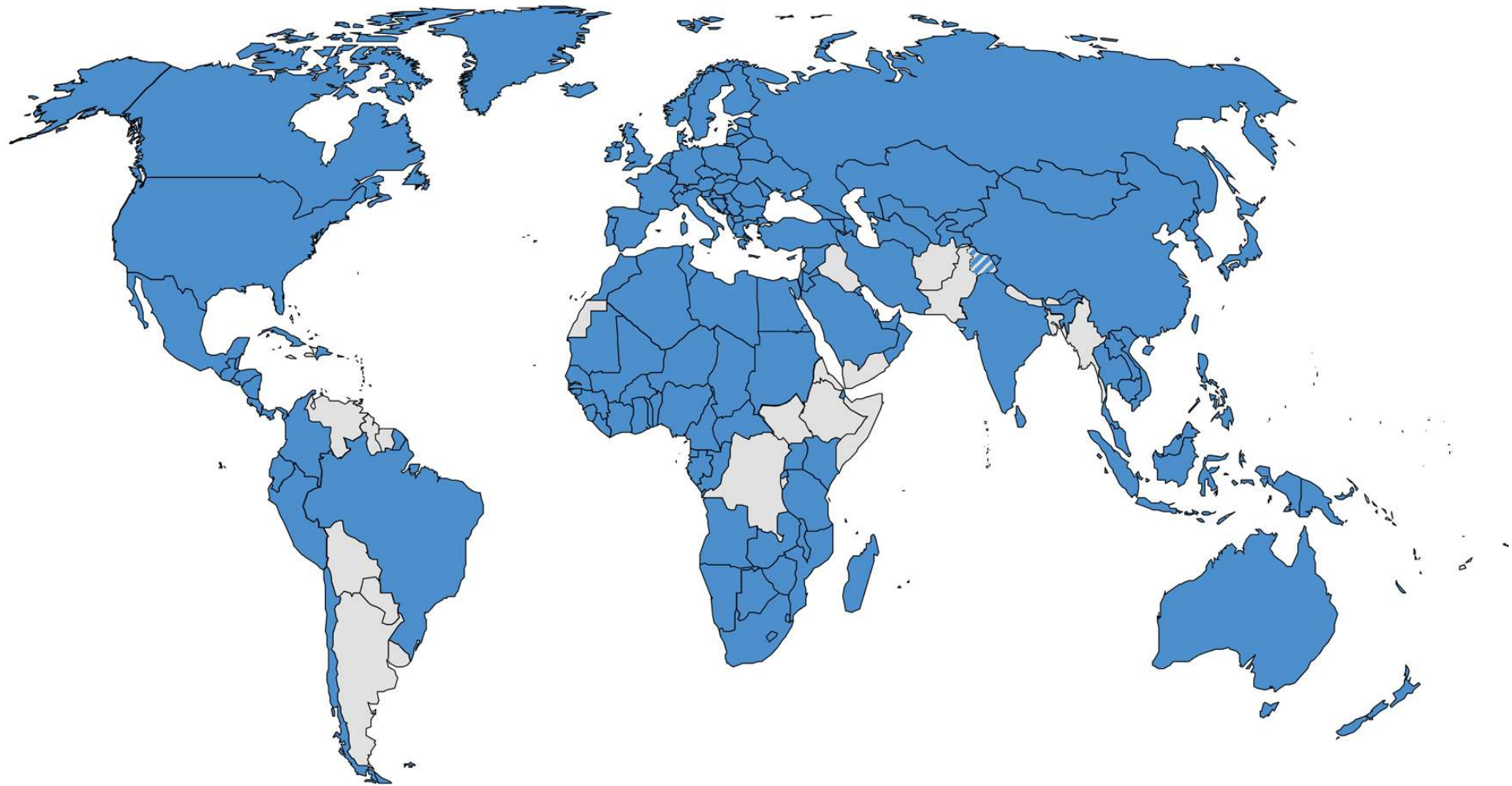
Benefits of the PCT

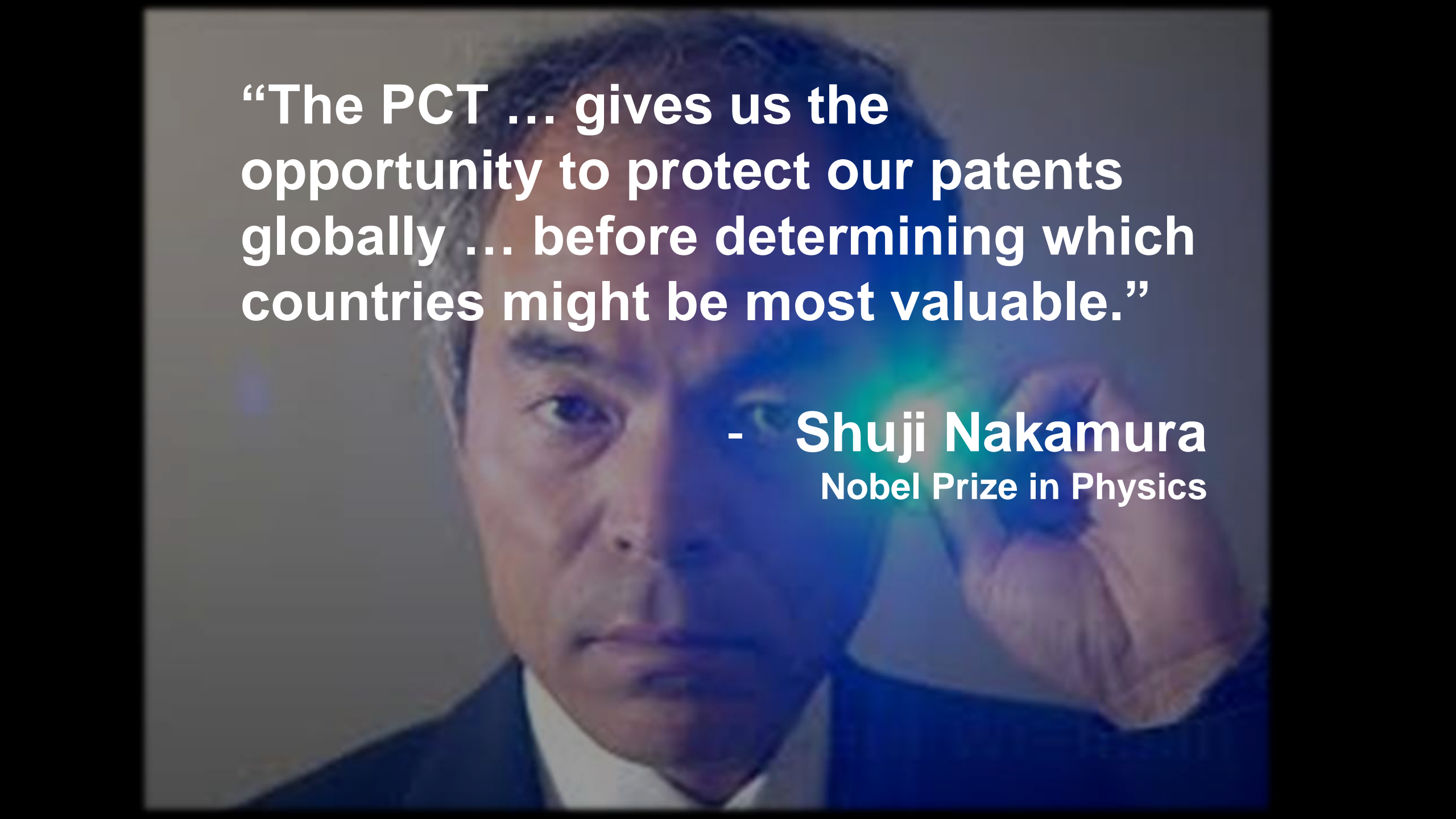
- International reach
- Deferred costs
- Information gathering

Benefits of the PCT

- International reach
- Postponement of costs
- Information gathering

PCT Coverage – 153 Countries



A close-up portrait of Shuji Nakamura, a man with short dark hair, wearing a dark suit jacket, white shirt, and dark tie. He is looking slightly to the right of the camera with a serious expression. The background is a plain, light-colored wall. The image has a blue tint and a soft glow effect around the text.

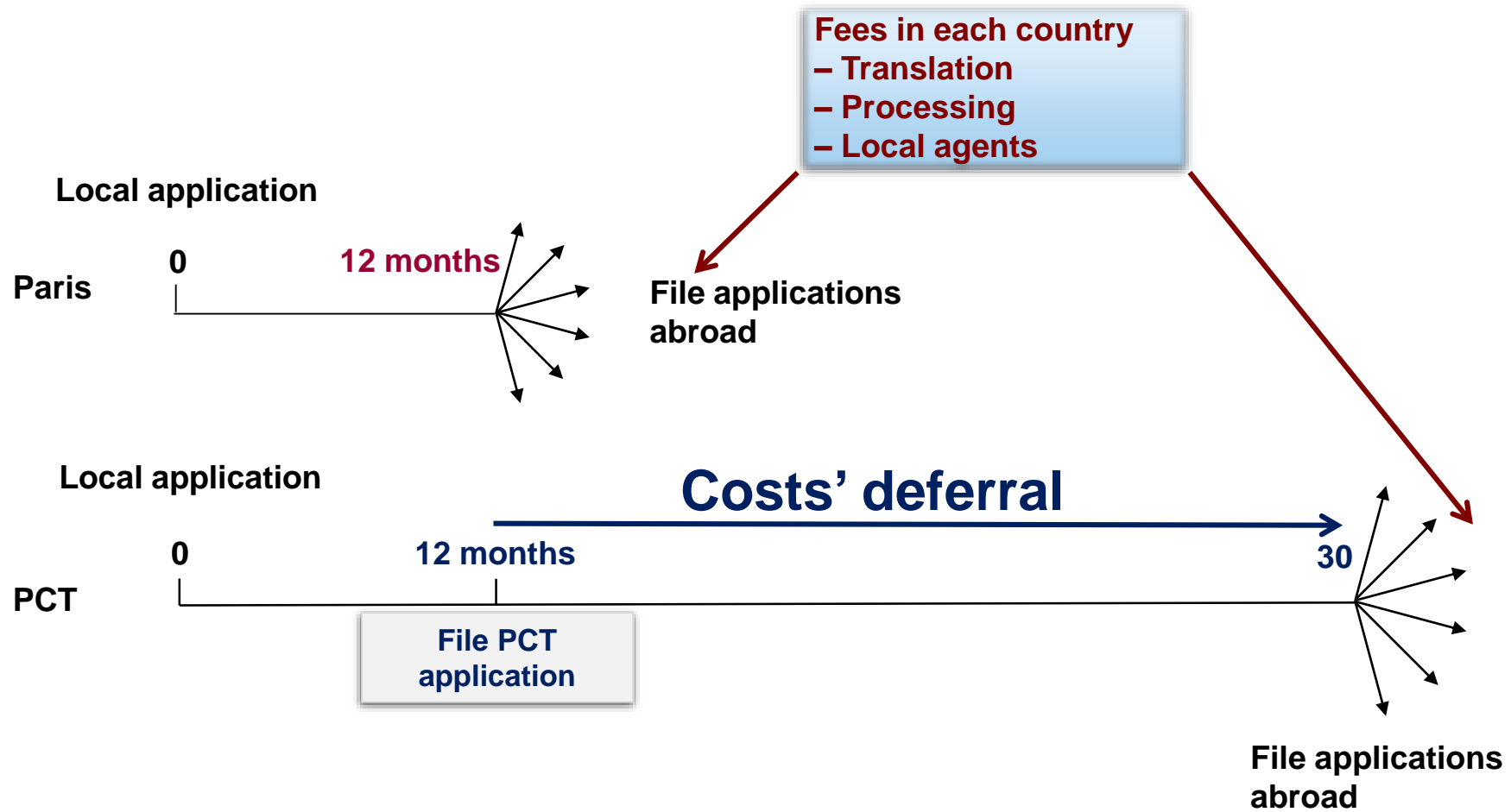
“The PCT ... gives us the opportunity to protect our patents globally ... before determining which countries might be most valuable.”

- Shuji Nakamura
Nobel Prize in Physics

Benefits of the PCT

- International reach
- **Deferred costs**
- Information gathering

Costs – Paris vs PCT



A photograph of a modern building with a large blue 3D Qualcomm logo on its facade. The building has large glass windows reflecting the sky and trees. The background is a clear blue sky with some green foliage visible on the right side.

“The PCT helps put innovation into practice by providing a simple and cost-effective way to file international patent applications.”

- Paul Jacobs
CEO, Qualcomm

Benefits of the PCT

- International reach
- Deferred costs
- Information gathering

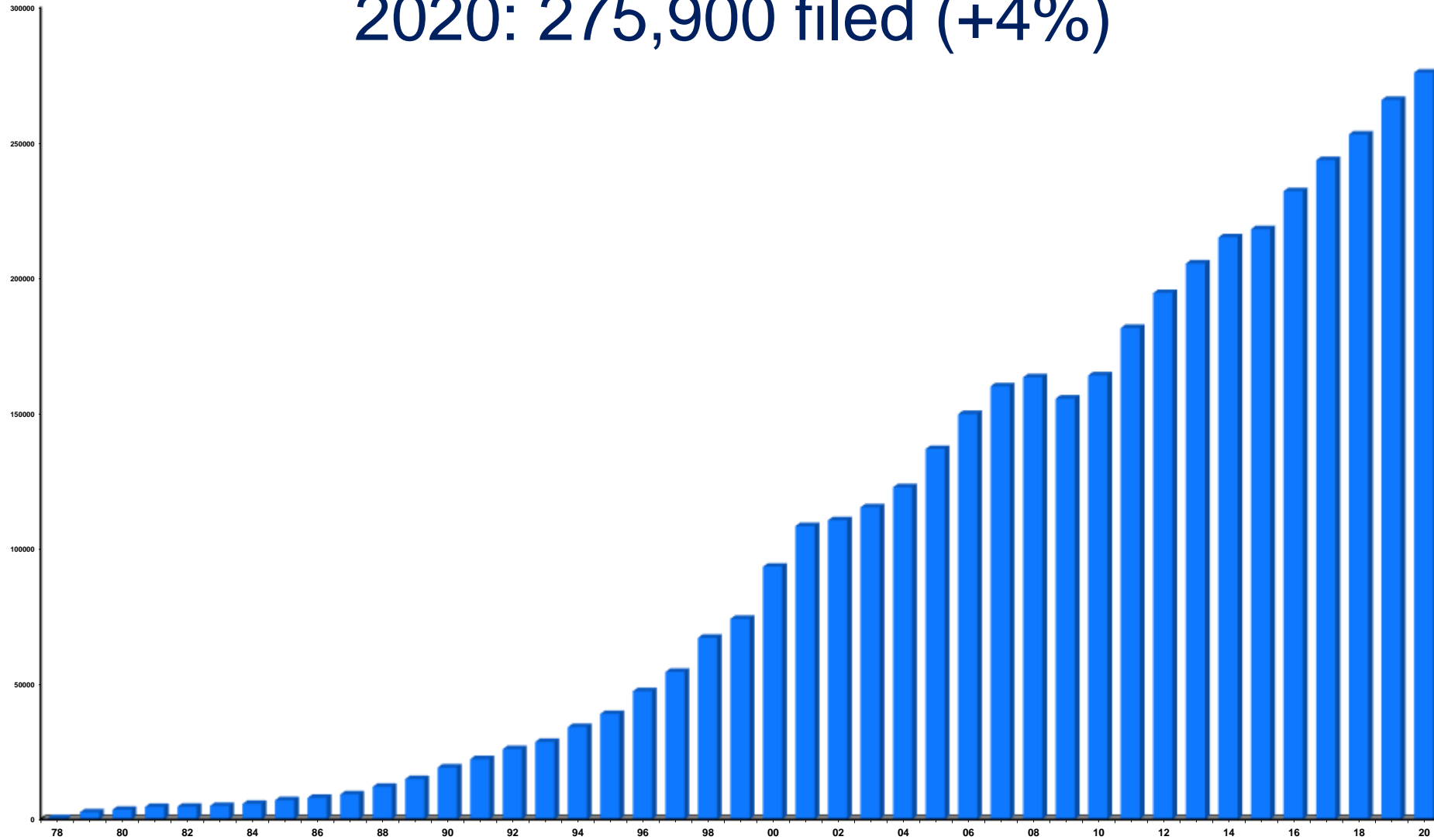
Feedback on Potential Patentability



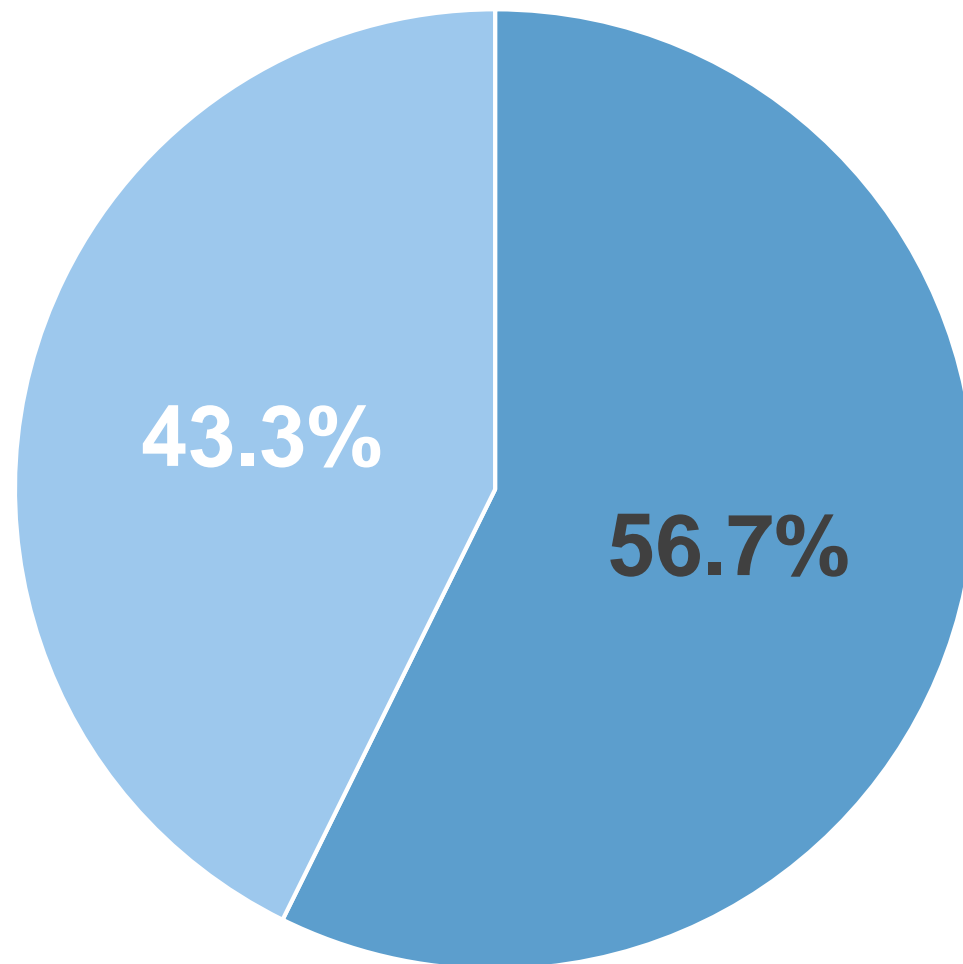
Benefits of the PCT: Wrap Up

- **International reach:** **One** application has effect in 153 PCT Member States
- **Postponement of costs:** **18** extra months before you have to pay for local filings
- **Information gathering:** 18 extra months to receive **substantive feedback** on your patent application and to do market research and testing

PCT application filings are booming: 2020: 275,900 filed (+4%)

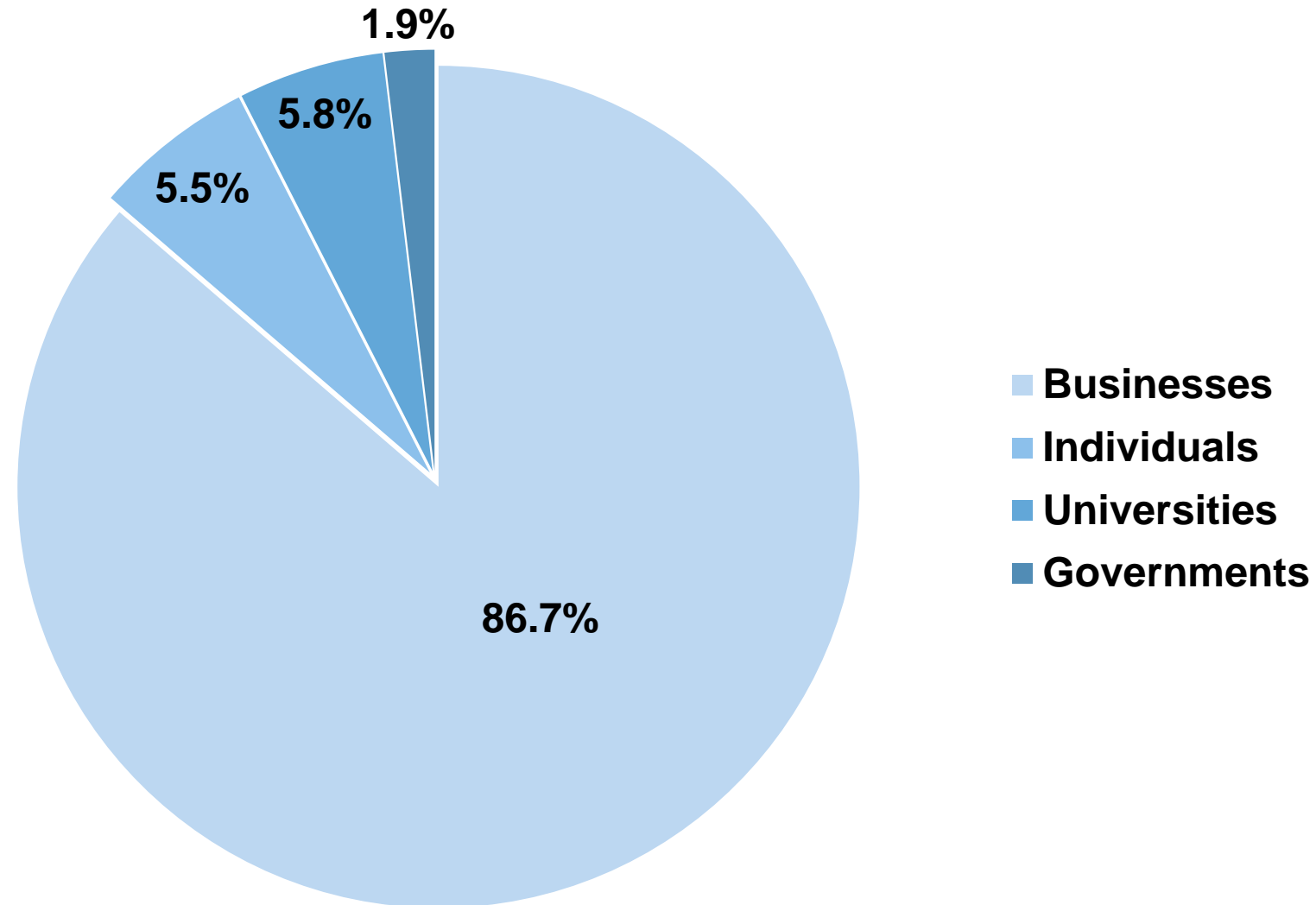


Most Foreign Filings are via the PCT



■ PCT ■ Paris Convention

PCT Applicants in 2020

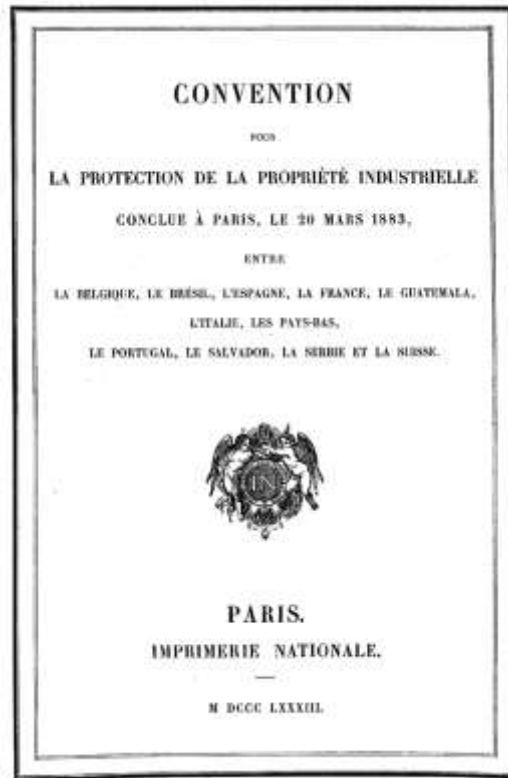


What did Lucio do?

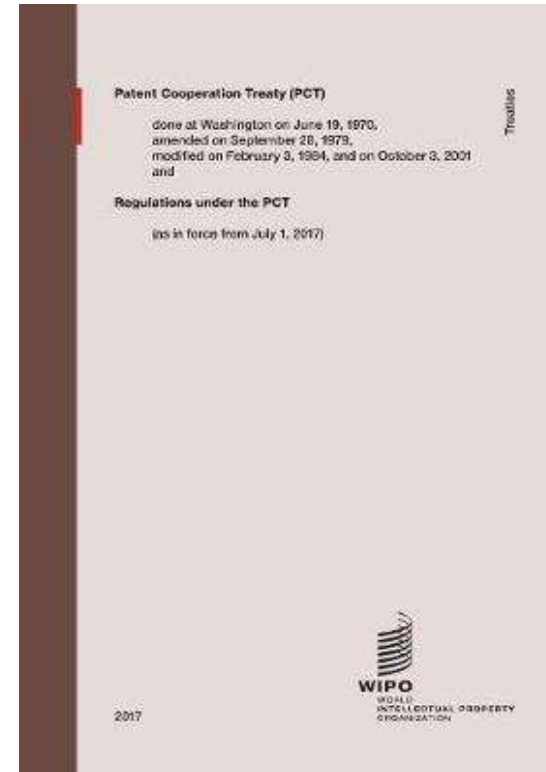


Lucio Chose the PCT

Paris Convention



Patent Cooperation Treaty (PCT)



(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2012/065256 A1

(43) International Publication Date
24 May 2012 (24.05.2012)

(51) International Patent Classification:
B62K 19/30 (2006.01) B62K 19/36 (2006.01)
B62J 1/08 (2006.01) B62K 25/00 (2006.01)
B62K 19/00 (2006.01)

(21) International Application Number:
PCT/CA2011/001274

(22) International Filing Date:
18 November 2011 (18.11.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
DM/075018 21 November 2010 (21.11.2010) IB
13/076,618 31 March 2011 (31.03.2011) US

(72) Inventor; and
(71) Applicant: TORTOLA, Lucio [CA/CA]; 124 Everleigh
Crescent, Windsor, Ontario N9E 4M2 (CA).

(74) Agents: JOHNSON, Daid J. et al.; Perry + Currier, 1300
Yonge Street, Suite 500, Toronto, Ontario M4T 1X3 (CA).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): 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) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, SZ, TZ,
UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU,
TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE,
DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,
LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK,
SM, TR), OAPI (BF, BJ, CF, CG, CL, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to the identity of the inventor (Rule 4.17(i))
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report (Art. 21(3))

(54) Title: A BICYCLE FRAME

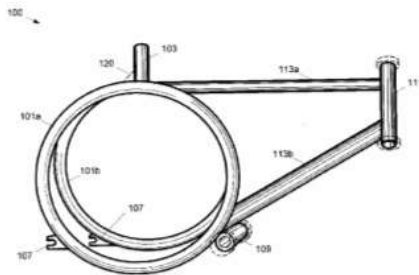


Fig. 1

(57) Abstract: A bicycle frame is provided comprising: two substantially concentric rings connected along a front portion and flared out at a rear portion to enable a rear bicycle wheel to fit there between, the two substantially concentric rings enabled to absorb strain energy received from at least one of the rear wheel and weight from a rider; a seat post for receiving a bicycle seat, the seat post extending from a top portion of the two substantially concentric rings; a rear wheel bracket extending from a bottom rear portion of each of the two substantially concentric rings for supporting the rear wheel between the two substantially concentric rings; a bottom bracket located proximal a bottom front portion of the two substantially concentric rings, the bottom bracket for connecting at least a crank to the bicycle frame; a headtube for receiving a front fork; and, at least one support for the headtube to connect the headtube to the two substantially concentric rings.



WO 2012/065256 A1

ROUNDTAIL®

Join the RoundTail Revolution



“I'm really excited to unveil my new design to the world. Response has been phenomenal, and I can't wait for you to join the ROUNDTAIL REVOLUTION!

- Lou Tortola, Inventor.”

WIPO | PCT



www.wipo.int/pct

WIPO Roving Webinars



How Canadian innovators use the PCT



Jenna Wilson
Partner, **Wilson Lue LLP**



Why Canadian innovators use PCT

international reach
+
postponement of costs



Why Canadian innovators use PCT

signal serious intention to protect IP



PCT helps defer patent expenses

**Filing a PCT application typically adds
5-7K (CAD) in official and professional fees**

... but pays off!



Expenses in the first 31 months (CAD)

	Paris Convention, no PCT	Paris Convention with PCT
Month 0	\$8400 drafting and filing US application	\$8400 drafting and filing US application
Month 12	+ \$14100 filing application in EPO, CN, CA	+ \$5200 filing PCT application
Months 14-31	+ \$3000 or more national examination begins	+ \$12750 entering EPO, CA, AU
Total	\$25500+ CAD	\$26350 CAD

Hypothetical example - inclusive of official and professional fees

PCT streamlines patent examination

**knowledge gained in first 30 months
can reduce time + cost
of national examination**



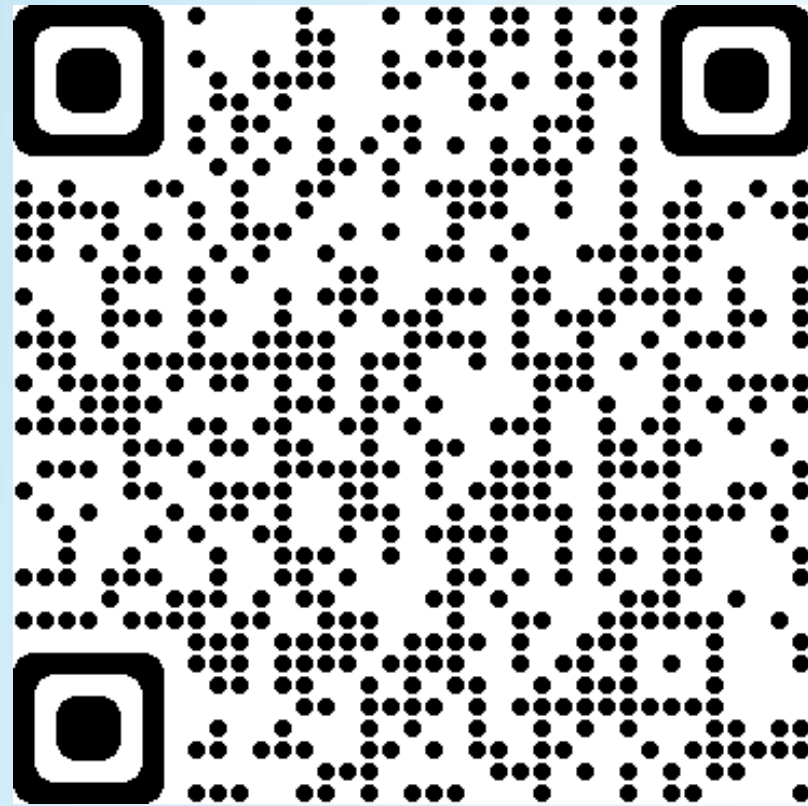
PCT streamlines patent examination

Patent Prosecution Highway (PPH)



Patent filing strategies

<https://www.wilsonlue.com/guide/patent-filing-strategies>



WIPO Roving Webinars



CIPO as an International Authority – Answers to Common Questions and New Activities

Tania Nish


Program Manager – International

Patent Branch

Canadian Intellectual Property Office



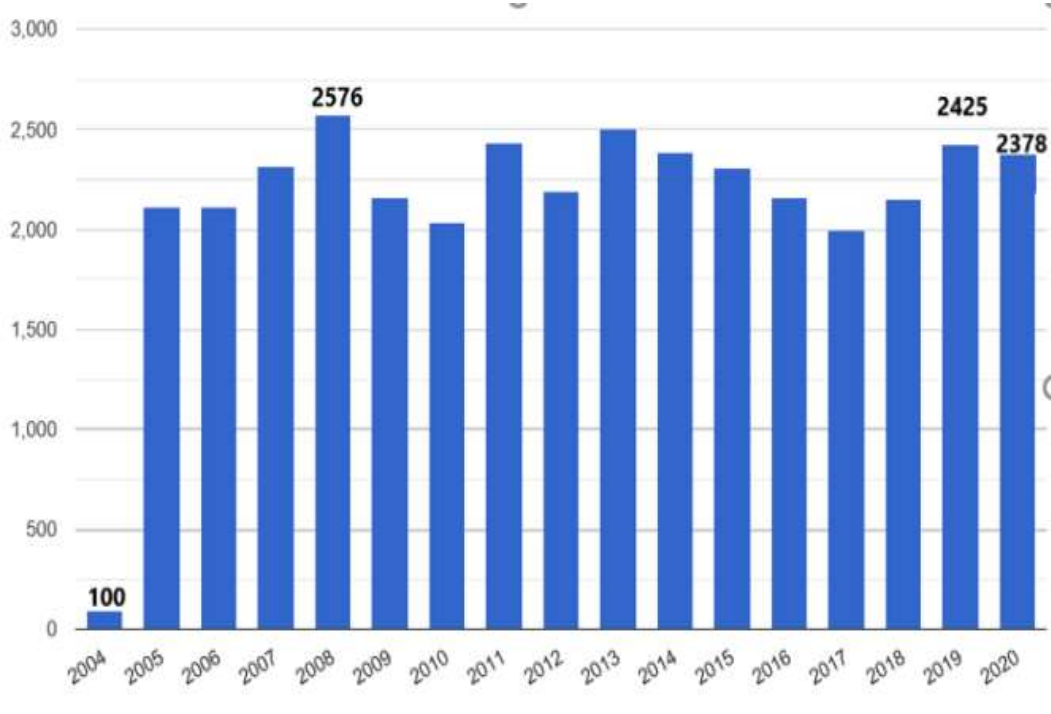
CIPO as an International Authority

- Receiving Offices for Canadians 
 - CIPO
 - International Bureau
- International Searching and Preliminary Examining Authority = CIPO
- CIPO as an IA: PCT International Patent Examiners International (PCT Practice)

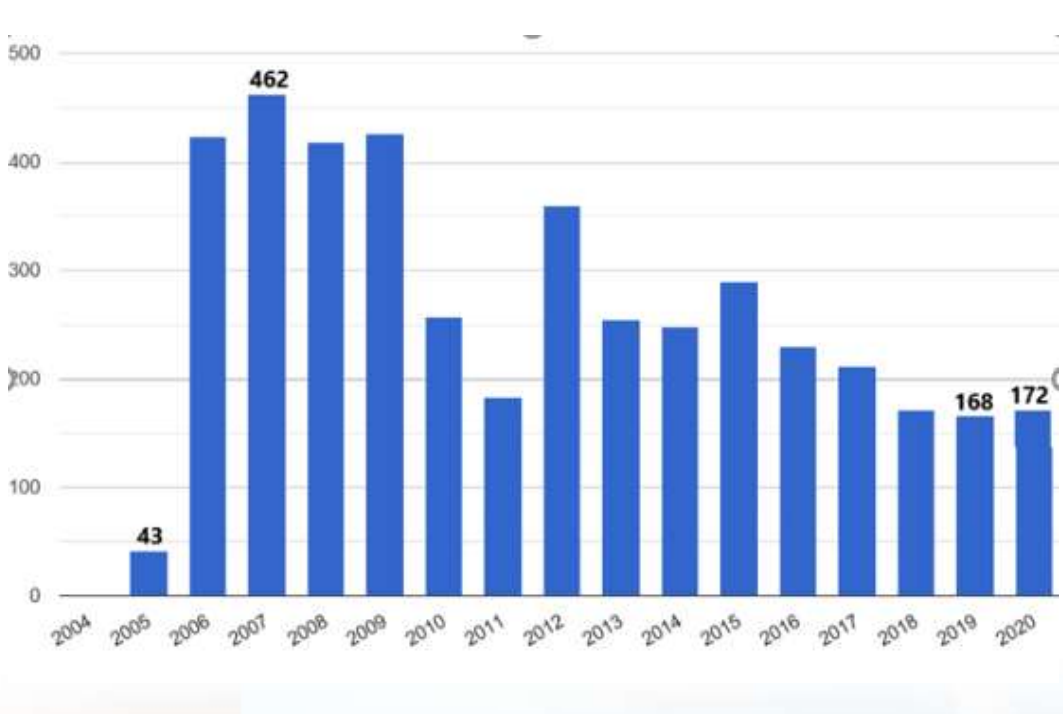


How Many Applications?

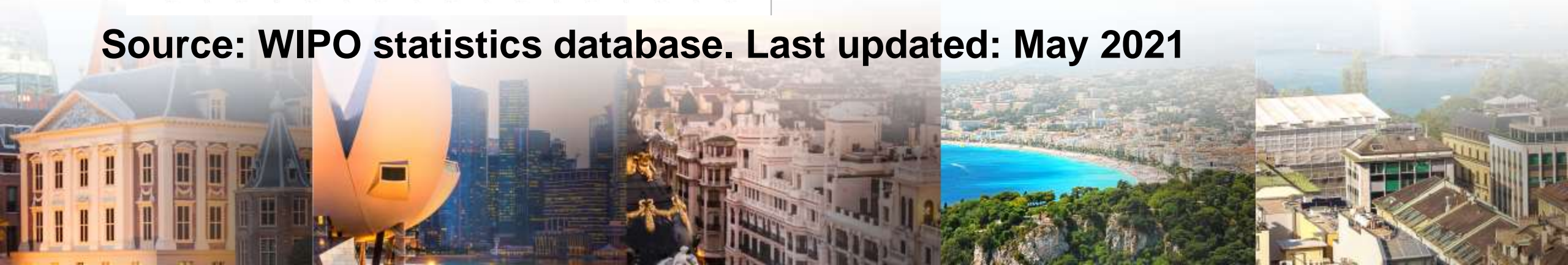
International Search Report (Chapter I)



International Preliminary Report on Patentability (Chapter II)

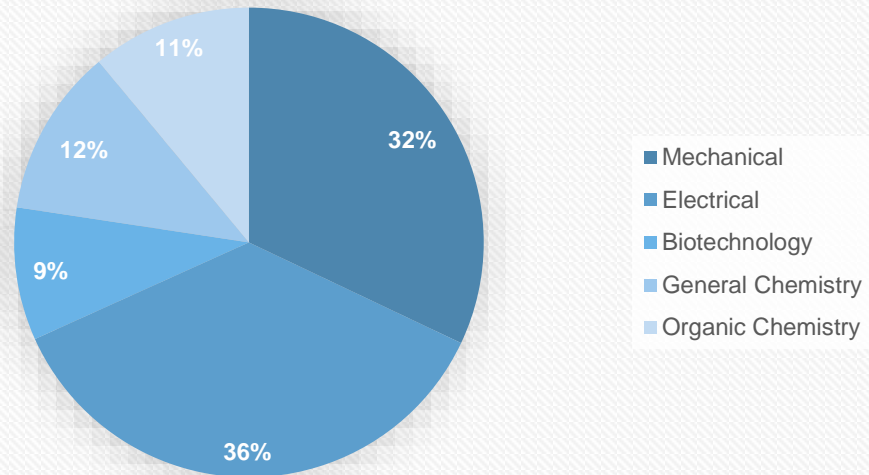


Source: WIPO statistics database. Last updated: May 2021

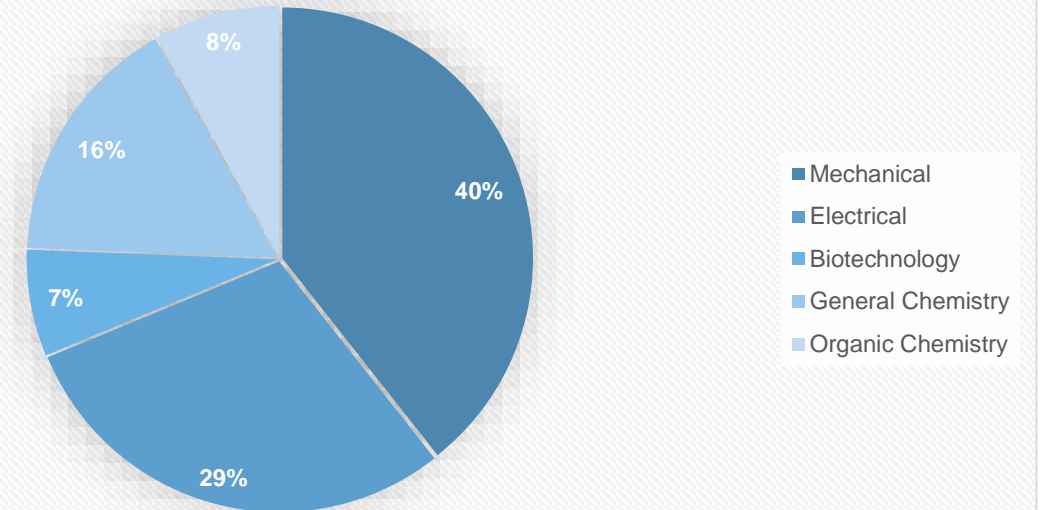


Where are the Applications?

International Search Report
(Chapter I)



International Preliminary Report on Patentability (Chapter II)



New at CIPO

- Service Fees Act - international fees set by CIPO
- Electronic correspondence:
 - Incoming - Patents General Correspondence
 - Outgoing - Canada Post epost Connect™



What is coming?

- **July 1, 2021:** CIPO will stop accepting PCT-SAFE created applications
- **2022:** Standard for biological sequence listings
ST.25 \longrightarrow ST.26
“Big Bang” Date



Helpful Resources

CIPO's PCT Kit:



PCT Applicant's Guide:



Canada 

WIPO Roving Webinars





WIPO ADR
Heike Wollgast

Resolving IP disputes outside the courts through WIPO ADR

Heike Wollgast, Head IP Disputes Section
WIPO Arbitration and Mediation Center

In this session

- Alternative Dispute Resolution (ADR)
 - WIPO mediation and arbitration for IP and technology disputes
 - WIPO domain name dispute resolution

What is the difference?

- Mediation: mediator assists parties to settle their dispute based on their interests
 - Leaves open court or arbitration options
- Arbitration: one or more chosen arbitrators decide the dispute
 - Enforceable internationally, foreclosing court options

WIPO ADR case areas and settlement rates

Copyright

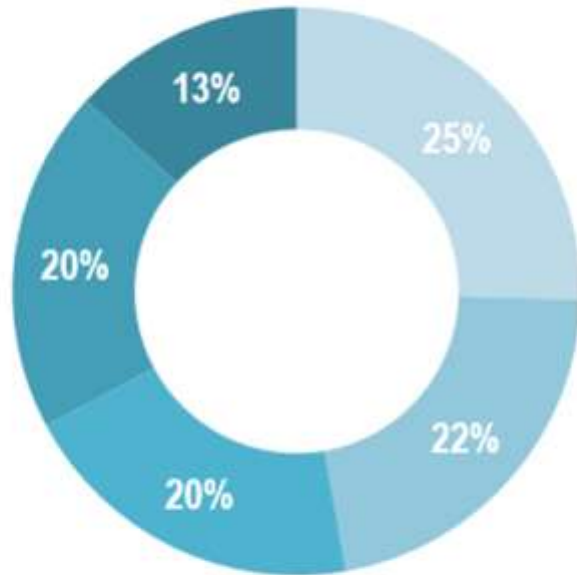
Art
Broadcasting
Collective Management
Entertainment
Film and Media
Infringements
TV Formats

Commercial

Design
Distribution
Energy
Franchising
Marketing
Sports

Trademarks

Coexistence
Infringements
Licenses
Oppositions
Revocations

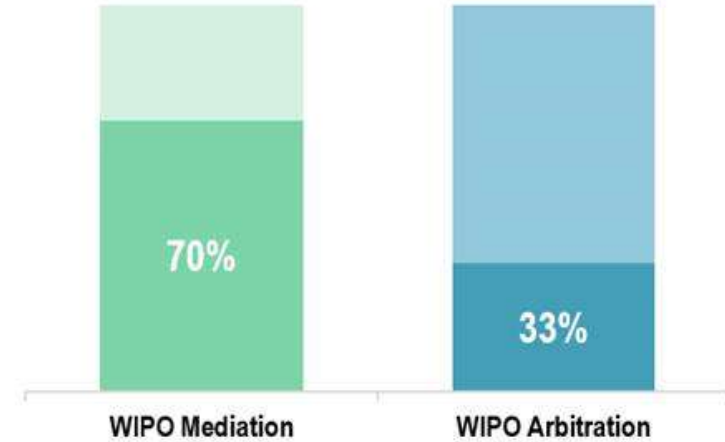


Patents

Cross-licensing
Infringements
Licenses
Ownership
Patent Pools
R&D / Tech
Transfer
Royalty Payment

ICT

Mobile Apps
Outsourcing
Systems Integration
Software Development
Software Licensing
Telecommunications



Case example: IT dispute

- Software developer and customer in different countries, software licensing agreement
- Fork in the road
 - Litigation?
 - ADR
 - Contract clause: WIPO Mediation Followed, in the Absence of a Settlement, by Expedited Arbitration
- Mediation conducted online
- Settlement agreement

What can you expect from the WIPO Center?

- Administering cases
 - Under WIPO ADR Rules
 - Containing time and costs
 - WIPO eADR – secure, online case communication platform (optional)
 - Advanced video-conferencing facilities
- Good Offices
- Assisting selection and appointment of mediators, arbitrators, experts; negotiating fees
 - 2,000+ WIPO neutrals from all regions
 - Specialized in IP and IT

How: routes to WIPO ADR

- ADR contract clause electing WIPO Rules
 - WIPO Model Clause Generator
- ADR submission agreement electing WIPO Rules
- Unilateral request for WIPO Mediation by one party (Art. 4)
- Recommended clauses and submission agreements available online
- Parties can choose location, language, and law

Clause example for your contract: mediation followed by expedited arbitration

"**Any dispute**, controversy or claim arising under, out of or relating to this contract and any subsequent amendments of this contract, including, without limitation, its formation, validity, binding effect, interpretation, performance, breach or termination, as well as non-contractual claims, **shall be submitted to mediation in accordance with the WIPO Mediation Rules**. The place of mediation shall be **[specify place]**. The language to be used in the mediation shall be **[specify language]**"

If, and to the extent that, **any such dispute**, controversy or claim **has not been settled pursuant to the mediation within [60][90] days of the commencement of the mediation**, it shall, **upon the filing of a Request for Arbitration by either party, be referred to and finally determined by arbitration in accordance with the WIPO Expedited Arbitration Rules**. Alternatively, if, before the expiration of the said period of [60][90] days, either party fails to participate or to continue to participate in the mediation, the dispute, controversy or claim shall, upon the filing of a Request for Arbitration by the other party, be referred to and finally determined by arbitration in accordance with the WIPO Expedited Arbitration Rules. The place of arbitration shall be **[specify place]**. The language to be used in the arbitral proceedings shall be **[specify language]**. The dispute, controversy or claim referred to arbitration shall be decided in accordance with **[specify jurisdiction]** law."

- “Cybersquatting” – the abusive registration and use of a trademark in a domain name by a third party

Uniform Domain Name Dispute Resolution Policy (UDRP)

- 1999: WIPO-created international ADR procedure
 - gTLDs (e.g., .com, .org)
 - new gTLDs (e.g., .online, .xyz)
 - some ccTLDs (e.g., .cn, .eu)
- Allows trademark owners to resolve “clear-cut” cases of abusive domain name registration and use (“cybersquatting”)
- Applies via mandatory domain name registration conditions
- Operates outside the courts, but preserves court option

WIPO: the leading global UDRP provider

- 22 years' experience
- 51,000+ cases covering 93,000+ domain names
- 2020 total: 4,204 cases
- Parties based in 177 countries
- Cases in 21 languages
- Paperless filing through WIPO eUDRP
- Panelists based in 64 countries

Why do brand owners choose the UDRP?

- Significantly quicker and cheaper than court litigation
 - Two-month average
 - Fixed fees (USD 1,500)
- Paperless filing through WIPO eUDRP
- Predictable criteria and results
- Decision (transfer) implemented directly by registrar

WIPO Arbitration and Mediation Center

- Queries: arbiter.mail@wipo.int
- WIPO ADR webinars: www.wipo.int/amc/en/events/
(past and upcoming)
- Mediation, Arbitration,
■ Expert determination
- Domain Name Dispute
Resolution



WIPO Roving Webinars





Global databases for IP
Christophe Mazenc



WIPO's Global Databases

Christophe Mazenc

Director, Global Databases Division

WIPO

\$539 Million







Free access: www.wipo.int

Resources

We provide the data and economic intelligence that enable strategic decisions, and **artificial intelligence** tools that enrich IP services and administration.

IP databases



(PHOTO: GETTY IMAGES/SHUTTERSTOCK)

PATENTSCOPE

83,977,338 international and national patent documents.

Global Brand Database

41,500,000 records of trademarks, appellations of origin and emblems from multiple national and international sources.

Global Design Database

12,300,000 industrial design registrations from the Hague System and participating national collections.

WIPO Lex

15,988 records of national IP laws and treaties of some 200 countries.

Artificial intelligence tools



(IMAGE: WIPO)

Machine translation

World-leading instant translation tool available for use by third parties via standard licensing agreements.

Image search

Faster and easier means to establish the distinctiveness of a trademark in a target market.

Speech-to-text

Automated speech recognition for transcription of official meeting proceedings through machine learning.

Automatic classification

Technological development tracking through innovation data analysis.

Insight and analysis



(PHOTO: ISTOCK.COM/ NICOLA LINDO)

IP Services yearly reviews

Comprehensive facts, figures and analysis.

Global Innovation Index

Detailed metrics on the innovation performance of over 125 countries and economies.

Technology Trends

Technological development tracking through innovation data analysis.

World IP Report

Focus on specific trends in an area of IP.

WIPO IP Facts and Figures

Overview of IP activity in WIPO member states.



Global Brand Database

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 269,000 records added
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SEARCH BY

Brand Names Numbers Dates Class Country

Text =

Image class =

Goods/Services =

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 161,590	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

Display: List Sort: Value - asc

1 - 30 / 46,615,344

Display: 30 per page

1 / 1,553,845

	Brand	Source	Status	Relevance	Origin	Holder	Holder country	Number	App. Date	Image class	Nice Cl.	Image
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<input type="checkbox"/>	LIBLE	EE TM	Pending	1	EE	OÜ Serpentex	EE	M202100720	2021-05-19		32, 33	
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<input type="checkbox"/>	MIMAME	UY TM	Pending	1	UY	Unilever Global IP Limited	GB	524304	2021-05-19		1, 3, 5, 18, 20, 21, 27, 31	
<input type="checkbox"/>	APPASO	UY TM	Pending	1	UY	Shenzhen Xinyanghui E-commerce Co, Ltd.	CN	524318	2021-05-19		11	
<input type="checkbox"/>	DAYONE	UY TM	Pending	1	UY	Guangzhou Devouer E-Commerce Co, Ltd.	CN	524314	2021-05-19		11	

Global Design Database

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

searches records

SEARCH BY

Design Names Numbers Dates Country Priority

Indication of product =

Design class =

Description =

search

FILTER BY

Source	Status	Designation	Locarno class	Reg. Year *	Expiration *	Holder *	
AL Designs	298	BN Designs	191	BW 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	49,132
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
US Designs	28,484	M7 Designs	185	NZ Designs	52,427		

Display: List Sort: Value - asc filter

- Sort by Reg. Date - desc
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428808
PRECISION DOSE DELIVERY DEVICE
2021-05-20
REGENERON PHARMACEUTICALS, INC.


 - NZ ID**
428806
PRECISION DOSE DELIVERY DEVICE
2021-05-20
REGENERON PHARMACEUTICALS, INC.


 - NZ ID**
428856
Stainless Steel Toilet Bowl Freshner
2021-05-19
John Engu


 - NZ ID**
428823
PACKAGING
2021-05-19





Very easy to use

SEARCH BY

Design Names Numbers Dates Country Priority

Holder = canstar

Creator =

Representative =

search 🔍

A screenshot of a search interface. At the top, there is a header 'SEARCH BY' followed by several tabs: 'Design', 'Names', 'Numbers', 'Dates', 'Country', and 'Priority'. Below this, there are three search criteria: 'Holder', 'Creator', and 'Representative', each followed by an equals sign and a text input field. The 'Holder' field contains the text 'canstar' and is highlighted with a red rectangular box. The 'Creator' and 'Representative' fields are empty. In the bottom right corner of the search area, there is a dark blue button with the text 'search' and a magnifying glass icon.

CA ID
59379
SKATE
1987-09-22
CANSTAR SPORTS GROUP INC.



CA ID
50136
SKATE
1982-08-23
CANSTAR SPORTS GROUP INC.



CA ID
50135
SKATE
1982-08-23
CANSTAR SPORTS GROUP INC.



CA ID
78368
SKATE BOOT
1996-05-09
CANSTAR SPORTS GROUP INC.



CA ID
78367
SKATE BOOT
1996-05-09
CANSTAR SPORTS GROUP INC.




CA ID
53242
ICE SKATE
1984-08-20
CANSTAR SPORTS GROUP INC.

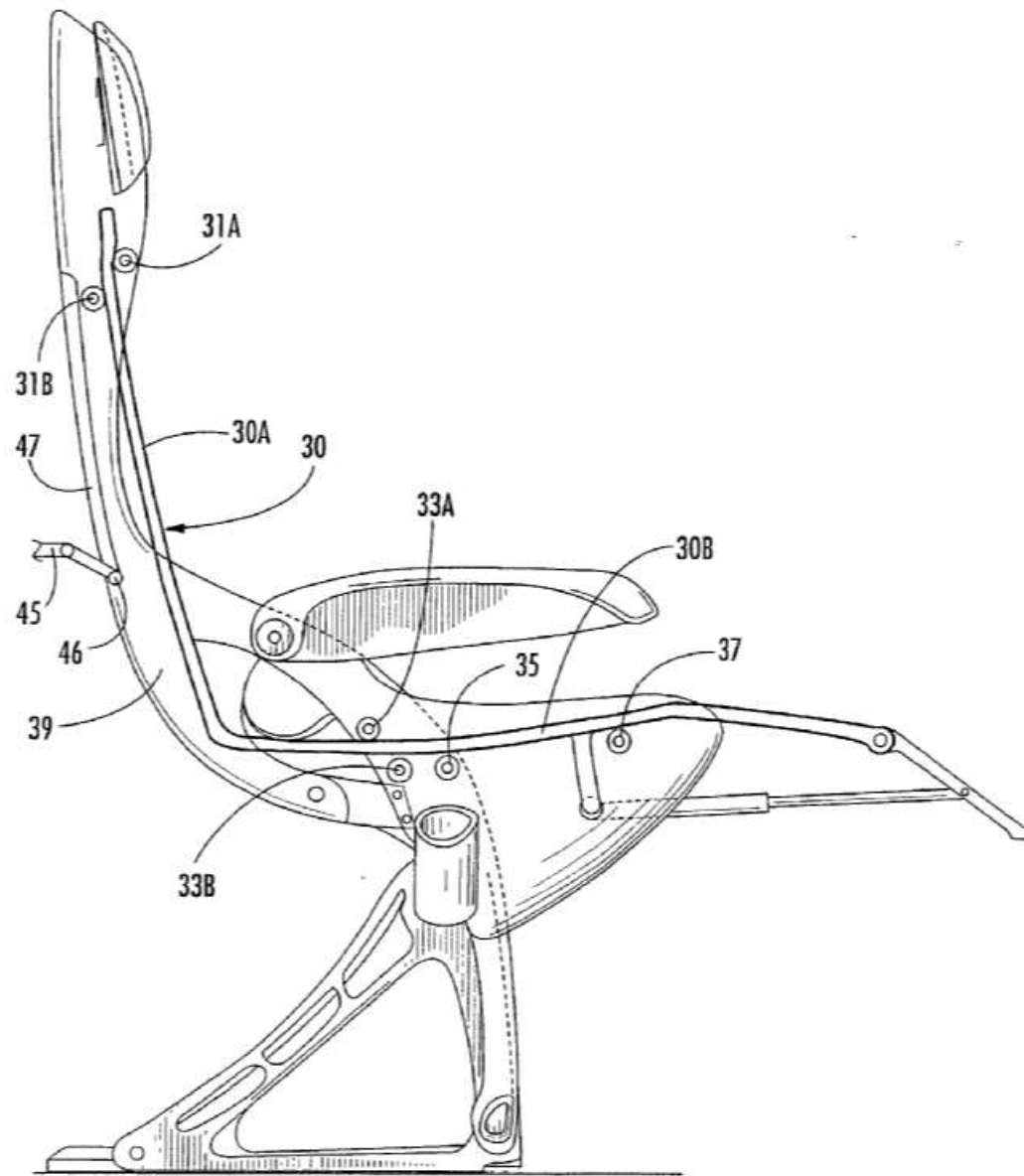


CA ID
53212
SKATE BOOT
1984-08-13
CANSTAR SPORTS GROUP INC.



CA ID
51718
SKATE BOOT
1983-08-22





1. [WO/2021/096550](#) REVERSIBLE SEAT ASSEMBLY

WO - 20.05.2021

Int.Class [B64D 11/00](#) Appl.No PCT/US2020/019573 Applicant DELTA TANGO AEROSPACE LLC Inventor TOSCANO, Damian

A reversible [seat](#) assembly for use with an [airplane](#). The reversible [seat](#) comprises a base assembly and a vertical assembly. The base assembly and the vertical assembly are connected to a support structure and are collectively disposable into and out of a first travel position, a second travel position, and a third travel position. In the first and second travel positions a user or [passenger](#) may assume a usual sitting position. In the third travel position the user may assume a reverse sitting position. The base assembly comprises a right segment and a left segment connected and rotationally movable to a central segment. The vertical assembly comprises a lower segment and an upper segment connected to and rotationally movable a middle segment. The reversible [seat](#) assembly may further comprise a back armrest connected to an opposite side of said middle segment and structure to provide support to the arms of the user.

2. [20210139149](#) REVERSIBLE SEAT ASSEMBLY

US - 13.05.2021

Int.Class [B64D 11/06](#) Appl.No 16680048 Applicant Damian Toscano Inventor Damian Toscano

A reversible [seat](#) assembly for use with an [airplane](#). The reversible [seat](#) comprises a base assembly and a vertical assembly. The base assembly and the vertical assembly are connected to a support structure and are collectively disposable into and out of a first travel position, a second travel position, and a third travel position. In the first and second travel positions a user or [passenger](#) may assume a usual sitting position. In the third travel position the user may assume a reverse sitting position. The base assembly comprises a right segment and a left segment connected and rotationally movable to a central segment. The vertical assembly comprises a lower segment and an upper segment connected to and rotationally movable a middle segment. The reversible [seat](#) assembly may further comprise a back armrest connected to an opposite side of said middle segment and structure to provide support to the arms of the user.

3. [WO/2021/082870](#) AIRPLANE SEAT BACKREST WITH LIFESAVING FUNCTION

WO - 06.05.2021

Int.Class [B64D 11/06](#) Appl.No PCT/CN2020/119481 Applicant AEROSPACE LIFE-SUPPORT INDUSTRIES LTD Inventor LI, Liangliang

Disclosed is an [airplane seat](#) backrest with a lifesaving function, the [airplane seat](#) backrest comprising a backrest main body and a back plate assembly [103], wherein a containing cavity is provided in a front side of the backrest main body; the back plate assembly [103] comprises a back plate [402] covering the containing cavity, and a lifesaving parachute pack [408], which is arranged on a reverse side of the back plate [402] and contained in the containing cavity; the back plate [402] is fixedly connected to the backrest main body by means of a quick detaching mechanism in a quickly separable manner; lifesaving back straps of the lifesaving parachute pack [408] penetrate out of back strap penetrating holes in the back plate [402]; and, during an [airplane](#) journey, a [passenger](#) leans against the back plate [402] and is connected to the back plate [402] and the lifesaving parachute pack [408] by means of the lifesaving back straps. A sitting-type lifesaving parachute is changed into a back-type lifesaving parachute, such that a [passenger](#) can quickly move in a cabin during an air emergency, shoulders of the [passenger](#) are not constrained, and the [passenger](#) cannot be hooked with other apparatuses.

4. [20210039792](#) TRASH RECEPTACLE ATTACHED TO AIRPLANE FOLD DOWN TRAY TABLE

US - 11.02.2021

Int.Class [B64D 11/06](#) Appl.No 16602124 Applicant Brian James Morrissey Inventor Brian James Morrissey

This innovation provides access to a non intrusive, personal trash collection receptacle, for use by an airline [passenger](#) during a flight. This is provided by the placement of a flexible plastic storage bag, located and connected to a fold down tray table hinge mechanism incorporated within a [seat](#) back on the aircraft.

Such a storage bag may be attached to a cooler, or ice chest to provide hikers with a convenient way to temporarily store trash for responsible disposal.

1. WO2021096550 - REVERSIBLE SEAT ASSEMBLY



PCT Biblio. Data Description Claims Drawings National Phase Patent Family Notices Documents

[Submit observation](#) [PermaLink](#) [Machine translation](#) ▼

Publication Number

WO/2021/096550

Publication Date

20.05.2021

International Application No.

PCT/US2020/019573

International Filing Date

25.02.2020

IPC

B64D 11/00 2006.01 B60N 2/10 2006.01

B60N 2/20 2006.01 B60N 2/68 2006.01

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RONCAYOLO BETANCOURT, David

Priority Data

16/680,048 11.11.2019 US

Publication Language

English [EN]

Filing Language

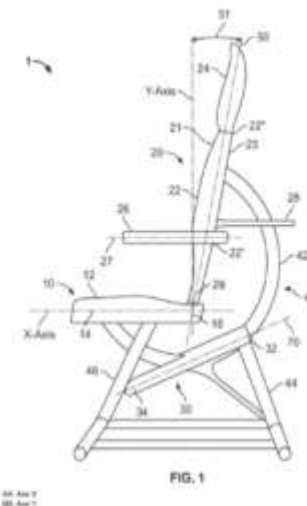
English [EN]

Designated States

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Title

[EN] REVERSIBLE SEAT ASSEMBLY
[FR] ENSEMBLE SIÈGE RÉVERSIBLE



Abstract

[EN]

A reversible seat assembly for use with an airplane. The reversible seat comprises a base assembly and a vertical assembly. The base assembly and the vertical assembly are connected to a support structure and are collectively disposable into and out of a first travel position, a second travel position, and a third travel position. In the first and second travel positions a user or passenger may assume a usual sitting position. In the third travel position the user may assume a reverse sitting position. The base assembly comprises a right segment and a left segment connected and rotationally movable to a central segment. The vertical assembly comprises a lower segment and an upper segment connected to and rotationally movable a middle segment. The reversible seat assembly may further comprise a back armrest connected to an opposite side of said middle segment and structure to provide support to the arms of the user.

[FR]

L'invention concerne un ensemble siège réversible destiné à être utilisé avec un avion. Le siège réversible comprend un ensemble de base et un ensemble vertical. L'ensemble de base et l'ensemble vertical sont reliés à une structure de support et peuvent être disposés de manière solidaire dans et hors d'une première position de voyage, d'une deuxième position de voyage et d'une troisième position de voyage. Dans les première et deuxième positions de voyage, un utilisateur ou un passager peut adopter une position assise habituelle. Dans la troisième position de voyage, l'utilisateur peut adopter une position d'assise inverse. L'ensemble de base comprend un segment droit et un segment gauche reliés et mobiles en rotation par rapport à un segment central. L'ensemble vertical comprend un segment inférieur et un segment supérieur reliés à un segment médian et mobiles en rotation par rapport à celui-ci. L'ensemble siège réversible peut en outre comprendre un accoudoir arrière relié à un côté opposé dudit segment intermédiaire et une structure pour

1. [WO/2021/096550](#) REVERSIBLE SEAT ASSEMBLY

WO - 20.05.2021

Int.Class [B64D 11/00](#) ⓘ Appl.No PCT/US2020/019573 Applicant DELTA TANGO AEROSPACE LLC Inventor TOSCANO, Damian

A reversible [seat](#) assembly for use with an [airplane](#). The reversible [seat](#) comprises a base assembly and a vertical assembly. The base assembly and the vertical assembly are connected to a support structure and are collectively disposable into and out of a first travel position, a second travel position, and a third travel position. In the first and second travel positions a user or [passenger](#) may assume a usual sitting position. In the third travel position the user may assume a reverse sitting position. The base assembly comprises a right segment and a left segment connected and rotationally movable to a central segment. The vertical assembly comprises a lower segment and an upper segment connected to and rotationally movable a middle segment. The reversible [seat](#) assembly may further comprise a back armrest connected to an opposite side of said middle segment and structure to provide support to the arms of the user.

2. [20210139149](#) REVERSIBLE SEAT ASSEMBLY

US - 13.05.2021

Int.Class [B64D 11/06](#) ⓘ Appl.No 16680048 Applicant Damian Toscano Inventor Damian Toscano

A reversible [seat](#) assembly for use with an [airplane](#). The reversible [seat](#) comprises a base assembly and a vertical assembly. The base assembly and the vertical assembly are connected to a support structure and are collectively disposable into and out of a first travel position, a second travel position, and a third travel position. In the first and second travel positions a user or [passenger](#) may assume a usual sitting position. In the third travel position the user may assume a reverse sitting position. The base assembly comprises a right segment and a left segment connected and rotationally movable to a central segment. The vertical assembly comprises a lower segment and an upper segment connected to and rotationally movable a middle segment. The reversible [seat](#) assembly may further comprise a back armrest connected to an opposite side of said middle segment and structure to provide support to the arms of the user.

3. [WO/2021/082870](#) AIRPLANE SEAT BACKREST WITH LIFESAVING FUNCTION

WO - 06.05.2021

Int.Class [B64D 11/06](#) ⓘ Appl.No PCT/CN2020/119481 Applicant AEROSPACE LIFE-SUPPORT INDUSTRIES LTD Inventor LI, Liangliang

Disclosed is an [airplane seat](#) backrest with a lifesaving function, the [airplane seat](#) backrest comprising a backrest main body and a back plate assembly (103), wherein a containing cavity is provided in a front side of the backrest main body; the back plate assembly (103) comprises a back plate (402) covering the containing cavity, and a lifesaving parachute pack (408), which is arranged on a reverse side of the back plate (402) and contained in the containing cavity; the back plate (402) is fixedly connected to the backrest main body by means of a quick detaching mechanism in a quickly separable manner; lifesaving back straps of the lifesaving parachute pack (408) penetrate out of back strap penetrating holes in the back plate (402); and, during an [airplane](#) journey, a [passenger](#) leans against the back plate (402) and is connected to the back plate (402) and the lifesaving parachute pack (408) by means of the lifesaving back straps. A sitting-type lifesaving parachute is changed into a back-type lifesaving parachute, such that a [passenger](#) can quickly move in a cabin during an air emergency, shoulders of the [passenger](#) are not constrained, and the [passenger](#) cannot be hooked with other apparatuses.

4. [20210039792](#) TRASH RECEPTACLE ATTACHED TO AIRPLANE FOLD DOWN TRAY TABLE

US - 11.02.2021

Int.Class [B64D 11/06](#) ⓘ Appl.No 16602124 Applicant Brian James Morrissey Inventor Brian James Morrissey

This innovation provides access to a non intrusive, personal trash collection receptacle, for use by an airline [passenger](#) during a flight. This is provided by the placement of a flexible plastic storage bag, located and connected to a fold down tray table hinge mechanism incorporated within a [seat](#) back on the aircraft.

Such a storage bag may be attached to a cooler, or ice chest to provide hikers with a convenient way to temporarily store trash for responsible disposal.

(EN_AB:(("airplane passenger seat") OR ((aircraft OR aeroplane OR planes OR airship OR cabins OR aeronautical) AND ("passenger chair" OR "pasenger seat" OR "passanger seats" OR "front seat passenger" OR "passenger seat")) OR ("airplane passenger" AND seat) OR ((aircraft OR aeroplane OR planes OR airship OR cabins OR aeronautical) AND (occupants OR cabins OR individuals OR passanger OR passenger) AND seat)) OR FR_AB:((avion OR aéronef OR dirigeable OR aéronautique OR cabines OR aérostat) AND ("siège de passager" OR "siège passager" OR "siège pour passager" OR "siège de personnes" OR "banquette pour passagers" OR "siège pour passagers"))) OR DE_AB:((Fluggastsitze)) OR ES_AB:(((aeronave OR avión OR cabinas OR "presion aplicada" OR aeonave OR aéreo) AND ("asiento de pasajeros" OR "asiento de un pasajero" OR "asiento de viajero" OR "asiento de acompaante del conductor" OR "asiento para pasajeros" OR "asiento de ocupante de vehículo"))) OR PT_AB:(((aeronave OR aviões OR avião OR avião OR cabina OR "avi es") AND ("assento de passageiro" OR "assento para passageiros" OR "banco de passageiros para avião" OR "cadeira de passageiro"))) OR JA_AB:((("航空機" OR "飛行機" OR "飛行船" OR "航空" OR "常用制動機" OR "キャビン") AND ("乗客用座席" OR "旅客座席" OR "乗物用シート" OR "1人シ" OR "助手席インヴィジブルエアバック" OR "乗客シート"))) OR RU_AB:(((самолет OR схемы OR "элементов самолета" OR компоновка OR узел OR пол) AND ("пассажи́рского кресла" OR "пассажи́рское сидение" OR "пассажи́рских кресел" OR "пассажи́рское кресло транспортного" OR "сиденье для пассажиров" OR "сиденье пассажира"))) OR ZH_AB:((("飞行器" OR "飞机" OR "航空器" OR "飞艇" OR "充气艇" OR "飞行") AND ("副驾驶员座椅" OR "乘客座" OR "前座乘员"))) OR KO_AB:(((항공기 OR 항공기 용 OR 가지는항공기용 OR 및초음속비행기 OR 달 OR aprovisionamiento) AND ("있어서 조수석 시트의" OR 승객석의 OR "조수석 시트벨트" OR "승객 시트의" OR "승객용 좌석" OR "조수석 탑승자"))) OR IT_AB:(((aeromobile OR carrelli OR velivolo OR passeg OR sezione OR aeroplani) AND ("sedile del passeggero" OR "poltrone passeggeri" OR "sedile per passeggeri")) OR ((aeromobile OR carrelli OR velivolo OR passeg OR sezione OR aeroplani) AND (passeggeri OR mezzi OR cabine OR occupanti OR autovetture OR abi) AND (sedile OR poltrona OR retrazione OR seduta))) OR SV_AB:(((frysa OR flygplan OR luftfartyg OR luft OR spec OR flygfarkoster) AND (passagerarstol OR "vid passagerarsaete" OR "vid passagerarsäte" OR passagerarsits)) OR ((frysa OR flygplan OR luftfartyg OR luft OR spec OR flygfarkoster) AND (passagerarbrygga OR skydd OR kabin OR hytten OR saett OR teckande) AND (säte OR sits OR sete OR saete OR stöd OR anordning))) OR NL_AB:(((vliegtuigen OR vliegtuigvleugel OR luchtvaartuig OR zwaartepunt OR waarschuwingsstelsel OR hiervan) AND "voertuig personenauto beweegt") OR ((vliegtuigen OR vliegtuigvleugel OR luchtvaartuig OR zwaartepunt OR waarschuwingsstelsel OR hiervan) AND (aansluitstuk OR personenauto OR samenstel OR bevinden) AND (zitvlak OR stoel OR zitplaats OR dergelijke OR alsmede OR daarop))) OR PL_AB:((("statek powietrzny" OR przetaczania OR powietrznego OR samolot OR aerostatki OR wielostopniowy) AND "fotel pasażera") OR (("statek powietrzny" OR przetaczania OR powietrznego OR samolot OR aerostatki OR wielostopniowy) AND (pasażerskiej OR osobowego OR pasażera OR kabiny) AND (fotel OR fotela OR siedzenia OR osadzenia OR odcinania OR siedzisko))) OR DA_AB:(((fly OR luftfartøj OR flyvemaskine OR installationsmodul OR luftfartoejer OR udskydning) AND (passagersæde OR passagerstol OR "sæde til passagerer")))) AND ICF:(B60 OR B62 OR B64 OR C06B)

(EN_AB:(("airplane passenger seat") OR ((aircraft OR aeroplane OR planes OR airship OR cabins OR aeronautical) AND ("passenger chair" OR "pasenger s



9,313 results

Offices all

Languages en

Stemming true

Single Family Member false

Include NPL false



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

< 1 / 932 >

Machine translation ▼

1. **20210147057** SYSTEM AND METHOD FOR CONVERTING A PASSENGER AIRCRAFT TO A CARGO AIRCRAFT

US - 20.05.2021

Int.Class [B64C 1/14](#) ⓘ Appl.No 17141113 Applicant Precision Conversions, LLC Inventor William J. WAGNER

An aircraft-conversion method of converting a passenger aircraft to a cargo aircraft, includes selecting a passenger aircraft, and converting the aircraft to a cargo aircraft by changing a door of the aircraft to accommodate loading and unloading of cargo. The selecting step may involve an all-passenger aircraft, and the converting step may include removing all seats from the aircraft. A system for converting a passenger aircraft with a passenger door for passenger entry and exit to a cargo aircraft includes aircraft-door conversion structure constructed to replace the passenger door with a cargo door that allows loading and unloading of cargo on the aircraft via the cargo door. A converted cargo aircraft includes an aircraft body, and aircraft-door conversion structure constructed to replace the passenger door with a cargo door that allows loading and unloading of cargo on the aircraft via the cargo door.

2. **3822167** STAGGERED PNEUMATIC ARTICULATION SYSTEM FOR SEAT BACK DEPLOYMENT AND COMFORT

EP - 19.05.2021

Int.Class [B64D 11/06](#) ⓘ Appl.No 20207887 Applicant B/E AEROSPACE INC Inventor VERES MARTIN

In embodiments, an aircraft passenger seat assembly includes a seatback assembly [103] including one or more lateral seatback sections [108]. In embodiments, at least one lateral seatback section includes a base seatback panel [110] coupled to a seatback frame, a first set of segmented seatback panels [112] coupled to the base seatback panel, and a second set of segmented seatback panels [113] coupled to the first set of segmented seatback panels. In embodiments, the aircraft passenger seat assembly further includes a plurality of actuatable assemblies, wherein the plurality of actuatable assemblies include a first set of actuatable assemblies [130] configured to selectively actuate the first set of segmented seatback panels relative to the base seatback panel, and a second set of actuatable assemblies [131] configured to selectively actuate the second set of segmented seatback panels relative to the first set of segmented seatback panels.

3. **3819216** SEAT SPREADER MOUNTED SEAT PRIVACY CLOSEOUT

EP - 12.05.2021

Int.Class [B64D 11/06](#) ⓘ Appl.No 20206320 Applicant B/E AEROSPACE INC Inventor MALECHA JEREMY

An aircraft passenger seat assembly is disclosed. In embodiments, the aircraft passenger seat assembly includes an aircraft passenger seat [101] including a seatback [103] configured to support an upper body of an aircraft passenger, and a seat frame [105] including at least one seat spreader [107] disposed on a lateral side of the seatback. In embodiments, the aircraft passenger seat assembly may further include at least one privacy assembly [102]. The at least one privacy assembly may include a closeout body [104] coupled to the at least one seat spreader, and a privacy panel [106] coupled to the closeout body, the privacy panel extending from the closeout body in order to at least partially separate a seating environment of the aircraft passenger seat from an adjacent seating environment of an adjacent aircraft passenger seat.

7. WO2021082870 - AIRPLANE SEAT BACKREST WITH LIFESAVING FUNCTION



PCT Biblio. Data Full Text Drawings ISR/WOSA/A17(2)[a] National Phase Notices Documents

[Submit observation](#) [ParmaLink](#) [Machine translation](#) ▼

Publication Number

WO/2021/082870

Publication Date

08.05.2021

International Application No.

PCT/CN2020/119481

International Filing Date

30.09.2020

IPC

B64D 11/06 2006.01

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201921834323.5 29.10.2019 CN

Publication Language

Chinese [ZH]

Filing Language

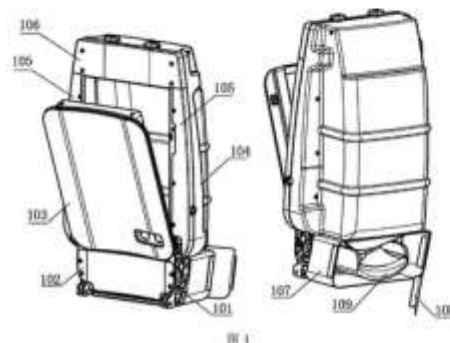
Chinese [ZH]

Designated States

View all

Title

[EN] AIRPLANE SEAT BACKREST WITH LIFESAVING FUNCTION
[FR] DOSSIER DE SIÈGE D'AVION DOTÉ D'UNE FONCTION DE SAUVETAGE
[ZH] 具有救生功能的飞机座椅靠背



Abstract

[EN]

Disclosed is an airplane **seat** backrest with a lifesaving function, the airplane **seat** backrest comprising a backrest main body and a back plate assembly [103], wherein a containing cavity is provided in a front side of the backrest main body; the back plate assembly [103] comprises a back plate [402] covering the containing cavity, and a lifesaving parachute pack [408], which is arranged on a reverse side of the back plate [402] and contained in the containing cavity; the back plate [402] is fixedly connected to the backrest main body by means of a quick detaching mechanism in a quickly separable manner; lifesaving back straps of the lifesaving parachute pack [408] penetrate out of back strap penetrating holes in the back plate [402]; and, during an airplane journey, a **passenger** leans against the back plate [402] and is connected to the back plate [402] and the lifesaving parachute pack [408] by means of the lifesaving back straps. A sitting-type lifesaving parachute is changed into a back-type lifesaving parachute, such that a **passenger** can quickly move in a **cabin** during an air emergency, shoulders of the **passenger** are not constrained, and the **passenger** cannot be hooked with other apparatuses.

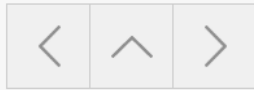
[FR]

L'invention concerne un dossier de siège d'avion doté d'une fonction de sauvetage, le dossier de siège d'avion comprenant un corps principal de dossier et un ensemble plaque arrière [103], une cavité de confinement étant disposée dans un côté avant du corps principal de dossier ; l'ensemble plaque arrière [103] comprend une plaque arrière [402] recouvrant la cavité de confinement, et un sac parachute de sauvetage [408], qui est disposé sur un côté opposé de la plaque arrière [402] et contenu dans la cavité de confinement ; la plaque arrière [402] est reliée de manière fixe au corps principal de dossier au moyen d'un mécanisme de détachement rapide d'une manière séparable rapidement ; des sangles arrière de sauvetage du sac parachute de sauvetage [408] pénètrent dans des trous de pénétration de sangle arrière dans la plaque arrière [402] ; et, pendant un voyage en avion, un passager s'appuie contre la plaque arrière [402] et est relié à la plaque arrière [402] et au sac parachute de sauvetage [408] au moyen des sangles arrière de sauvetage. Un parachute de sauvetage de type siège est changé en parachute de sauvetage de type arrière, de telle sorte qu'un passager puisse rapidement se déplacer dans une **cabine** pendant une urgence aérienne, les épaules du passager ne soient pas gênées, et le passager ne puisse pas être accroché à d'autres appareils.

[ZH]

一种具有救生功能的飞机座椅靠背，包括靠背主体和背板组件 [103]，靠背主体正面设有容纳腔，背板组件 [103] 包括盖在容纳腔上的背板 [402] 和设在背板 [402] 反面上的且容纳在容纳腔内的救生伞包 [408]，背板 [402] 通过快拆机构与靠背主体可快速分离的固定连接，救生伞包 [408] 的救生背带通过背板 [402] 上的背带穿孔穿出，乘坐时乘客背靠背板 [402] 上且通过救生背带与背板 [402] 及救生伞包 [408] 连接。将坐式救生伞包改为背式救生伞，空中应急时乘客能在机舱内快速移动，不会压迫乘客的肩部，不会与其它设备的钩挂。

7. WO2021082870 - AIRPLANE SEAT BACKREST WITH LIFESAVING FUNCTION



PCT Biblio. Data Full Text Drawings ISR/WOSA/A17[2][a] National Phase Notices Documents

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发明名称：具有救生功能的飞机座椅靠背

技术领域

[0001] 本发明属于航空防护领域，具体涉及一种具有救生功能的飞机座椅靠背。

背景技术

[0002] 国内目前能够安放救生伞包的适坠类座椅使用的救生伞均为坐式救生伞。座椅设计有一个椅盆，救生伞包放在椅盆内，飞行员坐在救生伞包上，这样在遇到应急情况时飞行员可起身前往跳伞出口。

[0003] 现有的坐式救生伞存在以下问题：1)救生伞包放在座椅椅盆内部，与其连接的救生背带穿在飞行员身上，对飞行员的肩部压迫较为严重的疲惫感；2)飞行员在空中应急时需要在机舱内快速移动时，救生伞包位于飞行员大腿位置，可能造成救生伞包与机舱内其它设备的钩体连接的位置会影响飞行员需快速移动时的发力，从而影响应急离机时间，造成严重后果。

[0004] 发明内容

[0005] 本发明的目的是提供一种具有救生功能的飞机座椅靠背，将坐式救生伞改为背式救生伞，空中应急时乘客能在机舱内快速移动，不会压设备的钩挂。

[0006] 本发明所采用的技术方案是：

[0007] 一种具有救生功能的飞机座椅靠背，包括靠背主体和背板组件，靠背主体正面设有容腔，背板组件包括盖在容腔上的背板和设在背板反面的伞包，背板通过快拆机构与靠背主体可快速分离的固定连接，救生伞包的救生背带通过背板上的背带穿孔穿出，乘坐时乘员背靠背板及救生伞连接。

[0008] 进一步地，快拆机构包括设在背板上部两侧的上连接环、设在背板下部两侧的下连接环、设在靠背主体上部两侧的锁定件、设在靠背主体下部两侧的下连接环，背板包括固定在靠背主体上的锁壳、能在锁壳内上下滑动的锁定销、使锁定销压住锁壳端部的弹簧和与锁定销连接的拉绳，定位件包括设在背板上部两侧的上连接环，乘坐时，定位销插放在下连接环上、连接环伸入锁壳且锁定销插放在上连接环上，背板与靠背主体固定，乘坐时，乘员前倾起身后下连接环自然从定位销脱出，背板与靠背主体分离。

- WIPO Translate ▼
- English
- French
- German
- Spanish
- Russian
- Korean
- Japanese
- Chinese
- Arabic
- Portuguese
- Italian

DESCRIPTION OF THE DRAWINGS

Inventive name 0001 0002 0003 0004 0005 0006 0007 0008 0009 0010 0011 0012 0013 0015 0016 0017 0018 0019 0020 0024 0025 0026 0027 0028 0029 0030 0031 0032 0033 0034 0035 0036

BRIEF DESCRIPTION OF THE CLAIMS

1 2 3 4 5 6 7 8 9 10

BRIEF DESCRIPTION OF THE DRAWINGS

1 2 3 4 5 6

DESCRIPTION OF THE DRAWINGS

NAME OF THE INVENTION: AIRCRAFT SEAT BACKREST WITH LIFESAVING FUNCTION

TECHNICAL FIELD

[0001] The invention belongs to the field of aviation protection, and particularly relates to an aircraft seat backrest with a lifesaving function

BACKGROUND OF THE INVENTION

[0002] In China, the life umbrella used by the adapter seat capable of placing the life parachute pack is a sitting type life parachute. The seat is designed with a seat basin, the life umbrella bag is placed in the seat basin, and the pilot sits on the life umbrella bag and penetrates through the life-saving strap, so that the pilot can get up to the parachute outlet when encountering an emergency situation.

[0003] The existing sitting life umbrella has the following problems: 1) the life parachute bag is placed inside the seat basin, the lifesaving strap connected with the life umbrella is worn on the pilot body, the shoulder compression of the pilot is serious, and the fatigue feeling of the pilot during long-time flight of the pilot is increased; 2) when the pilot needs to move rapidly in the cabin when the pilot is emergency, the life parachute pack is located at the position of the thigh of the pilot and can cause hooking of the life umbrella package and other equipment in the cabin; and 3) the position of the life parachute pack and the pilot body connection can affect the power generation when the pilot needs to be quickly moved, thereby affecting the emergency offline time and causing serious consequences.

[0004] SUMMARY OF THE INVENTION

[0005] It is an object of the present invention to provide an aircraft seat backrest with a life-saving function. The seat-type life umbrella is changed into a back-type life

Wipo Translate [powered by Marian]

zhen ... [Continue translation] ...

[zh-NMT-en]本发明属于航空防护领域，
具体涉及一种具有救生功能的飞机座椅靠
背。

20%

CHEMICAL COMPOUNDS SEARCH ▾

- Convert structure
- Upload structure
- Structure editor
- Found compounds
- Found Markush Formulas

Search type
Compound name ▾

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

Search for scaffold

Include enumerated Markush structures

Offices
All ▾

- Reset
- Show in editor
- Exact Structure Search

技术领域

本发明涉及一种用吸附树脂从精母液中回收扑热息痛的方法，具体涉及一种用吸附树脂从扑热息痛生产工序中所产生的精母液中回收扑热息痛的方法。

背景技术

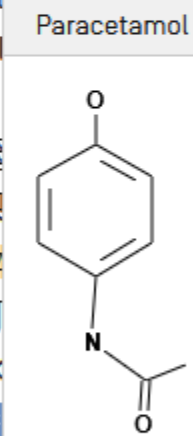
扑热息痛，商品名称有百服宁、必理通、泰诺、醋氨酚、对乙酰氨基苯酚等。该品国际非专有药名为Paracetamol。适用于缓解轻度至中度疼痛，如感冒引起的发热、头痛、关节痛、神经痛以及偏头痛、痛经等。它是最常用的非抗炎解热镇痛药，解热作用与阿司匹林相似，镇痛作用较弱，无抗炎抗风湿作用，是乙酰苯胺类药物中最好的品种，特别适合于不能服用羧酸类药物的病人。

对乙酰氨基苯酚的制作工艺为：

1、酰化。原料冰醋酸和对氨基苯酚在酰化反应釜内进行反应，反应结束后将釜内溶液进行冷却结晶处理，所得固体进行离心、干燥等操作后得到对乙酰氨基苯酚的粗品。

2、精制。经酰化所得的对乙酰氨基苯酚粗品中加入纯水、无水硫酸钠、重亚硫酸钠进行溶解，加入活性炭脱色处理，抽滤操作后将所得溶液进行冷却结晶、离心操作便得到对乙酰氨基苯酚精品。

从精制工序中返回到工艺流程中的母液便是本发明所述的精母液，每天产生的母液为400立方米。但采用母液返回工艺流程的方法目前，国内外对精母液的处理方法都是用蒸汽加热浓缩，结晶为固体母液的方法不但得到的扑热息痛纯度不高，而且能耗很大。我们可统计的蒸汽大约为90元人民币；每天除去套用的母液，其余360立方米水母液固体大约需要31500元，而且收率只有60%。按母液中的扑热息痛含量为1.5%计算，因此，一吨扑热息痛的成本就在接近10000元左右。因此，使用蒸汽法从生产扑热息痛的精母液中回收扑热息痛的方法存在成本高、收率低、纯度低、运行复杂的缺点。



发明内容

本发明为解决现有技术中的问题，提供一种用吸附树脂从精母液中回收扑热息痛的方法，它具有收率高、纯度高、运行简单、生产成本低等优点。

本发明一种用吸附树脂从精母液中回收扑热息痛的方法，包括以下步骤：

WIPO's Global Databases: what for?

- To get insights if a new IP right can be applied for
- To avoid infringing
- To obtain deep specific technical knowledge not available in other knowledge dissemination media
- To perform technological watch on new trends
- To acquire business knowledge about your competitors and possible partners (e.g. licensing options)
- To perform valuation of companies and build investment strategies in the stock market
- To find agents to help you in your IP journey
- To avoid doing business with companies infringing IP rights
- ...

A high-angle photograph of a person's hands writing in a spiral-bound notebook on a white desk. A silver laptop is open to the left. The person is wearing a dark grey sweater. The background is a plain, light-colored wall.

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WIPO IP Portal
Grégoire Bisson



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Unified navigation

The screenshot displays the WIPO IP Portal interface. At the top left, the text "WIPO IP PORTAL" is followed by a "MENU" button circled in red. To the right, there are links for "HELP", "ENGLISH" (with a globe icon), and "LOGIN". The WIPO logo is in the top right corner. Below the header is a search bar with the placeholder text "What are you looking for?", a magnifying glass icon, and a "CLOSE" button. The main content area is divided into three columns. The left column is a vertical navigation menu with categories: PATENTS, TRADEMARKS, DESIGNS, GEOGRAPHICAL INDICATIONS, TRADE SECRETS, CREATIVE WORKS, RESEARCH AND DATA, DIGITAL EVIDENCE, ASSISTANCE PROGRAMS, MEDIATION AND ARBITRATION, DOMAIN NAME DISPUTE RESOLUTION, and PAYMENTS. The middle column shows a sub-menu for "Search" with options: File & Manage, Inventor Assistance Program (IAP), Pay, IP Offices, and Statistics. The right column displays search results for "PATENTSCOPE", "WIPO Pearl", "IPC Green Inventory", and "IPC Publication". On the far right, there are three promotional boxes: "Current Account at WIPO", "WIPO PROOF", and "WIPO Lex".

WIPO IP PORTAL MENU

HELP ENGLISH LOGIN WIPO

What are you looking for? [Search] [CLOSE]

- PATENTS** >
 - Search** >
 - PATENTSCOPE**
Search among millions of patent documents.
 - WIPO Pearl**
Search multilingual scientific, technical and legal terms in 10 languages.
 - IPC Green Inventory**
Search for patent information relating to Environmentally Sound Technologies (ESTs).
 - IPC Publication**
Consult the official online version of the International Patent Classification (IPC) for classifying patent documents.
 - TRADEMARKS >
 - DESIGNS >
 - GEOGRAPHICAL INDICATIONS >
 - TRADE SECRETS >
 - CREATIVE WORKS >
 - RESEARCH AND DATA >
 - DIGITAL EVIDENCE >
 - ASSISTANCE PROGRAMS >
 - MEDIATION AND ARBITRATION >
 - DOMAIN NAME DISPUTE RESOLUTION >
 - PAYMENTS >
- File & Manage >
- Inventor Assistance Program (IAP) >
- Pay >
- IP Offices >
- Statistics >

Current Account at WIPO
Your WIPO financial account that simplifies your transactions with WIPO services

WIPO PROOF
Produce trusted digital evidence for your Intellectual assets.

WIPO Lex
Free of charge access to legal information on intellectual property (IP).

WIPO

Single sign-on

The image shows a screenshot of the WIPO IP Portal interface. At the top, there is a navigation bar with the following elements: 'WIPO IP PORTAL', 'MENU', 'HELP', 'ENGLISH', 'LOGIN' (highlighted with a red circle), and 'WIPO'. Below the navigation bar is a search bar with the placeholder text 'What are you looking for?' and a 'CLOSE' button. On the left side, there is a vertical menu listing various IP categories: PATENTS, TRADEMARKS, DESIGNS, GEOGRAPHICAL INDICATIONS, TRADE SECRETS, CREATIVE WORKS, RESEARCH AND DATA, DIGITAL EVIDENCE, ASSISTANCE PROGRAMS, MEDIATION AND ARBITRATION, DOMAIN NAME DISPUTE RESOLUTION, and PAYMENTS. The main content area displays a 'WELCOME TO THE WIPO IP PORTAL' message, followed by the instruction 'Login with your WIPO Account to access WIPO's online IP services'. Below this is a login form with two input fields: 'Username *' and 'Password *', and a blue 'Login' button. At the bottom of the form, there are three links: 'Create WIPO account', 'Forgot your username?', and 'Forgot your password?'. A red arrow points from the 'LOGIN' link in the top navigation bar to the login form.



Customizable dashboard of widgets

The screenshot displays the WIPO IP Portal's "MY DASHBOARD". At the top, the navigation bar includes "WIPO IP PORTAL", "MENU", "HELP", "105411- JOHN DOE", and notification icons. The dashboard is organized into several sections:

- GLOBAL BRAND DATABASE:** Includes a search bar and options for "Search" and "Saved Searches".
- PATENTSCOPE:** Features a dropdown menu (highlighted with a red circle), "Go to App", "How to use", and "Remove" options.
- MADRID MONITOR:** Shows "0 Watched IRNs" and a "Quick Search" field.
- MY FAVORITES:** Lists "ePCT [PATENTS]", "eHague [DESIGNS]", "Madrid Application Assistant [TRADEMARKS]", and "PATENTSCOPE [PATENTS]".
- WORLD CLOCK:** Displays times for "WED May 26" in "Switzerland" (10:39) and "Canada/Atlantic" (05:39).
- QUICK LINKS:** Lists "CIPO" and "USPTO" with an option to "Add a link or drag and drop a link."
- LATEST NEWS:** Shows news items like "WIPO Wire: World IP Day for Smaller Enterprises..." and "WIPO Wire: Tech Trends Reports Finds Big Growth in Assistive Technologies...".
- PAYMENT SUMMARY:** Shows "0 Unpaid" and "1 Basket".


Buttons for "Feedback" and "Manage widgets" are located in the top right corner of the dashboard area.

Personal messages inbox

WIPO IP PORTAL MENU HELP 105411- JOHN DOE   WIPO

MESSAGES INBOX

This is a centralized messaging system for WIPO IP Services. Click "Show list" to see the list of participating services and their start dates for centralized messaging. [Show list](#)

Search your messages 

All messages (5) ▾

	Mark as read	Mark as unread	Download as PDF	Download as XLS	Clear	Unselect	1/5 selected
<input type="checkbox"/>	Select all messages						
<input checked="" type="checkbox"/>	From: Current Account at WIPO [Payments] Your Monthly Current Account statement is available Your Monthly Current Account statement is available. Please contact us if you have any queries regarding this statement.					Status Change Info 09.04.2021	
<input type="checkbox"/>	From: Current Account at WIPO [Payments] Your Monthly Current Account statement is available Your Monthly Current Account statement is available. Please contact us if you have any queries regarding this statement.					Status Change Info 10.09.2020	
<input type="checkbox"/>	From: Current Account at WIPO [Payments] Credentials Keep your Current Account's username and password [which we sent you at the opening of your Current Account]. You will still need them to process online payments.					27.11.2019	

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