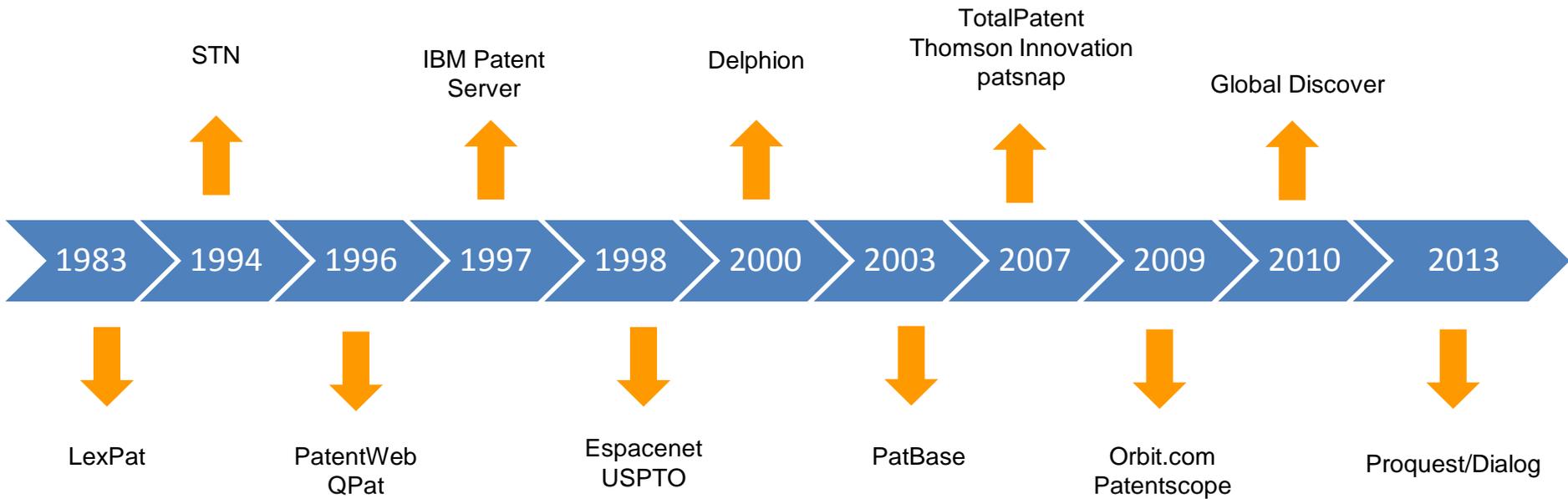


First Level Patent Information

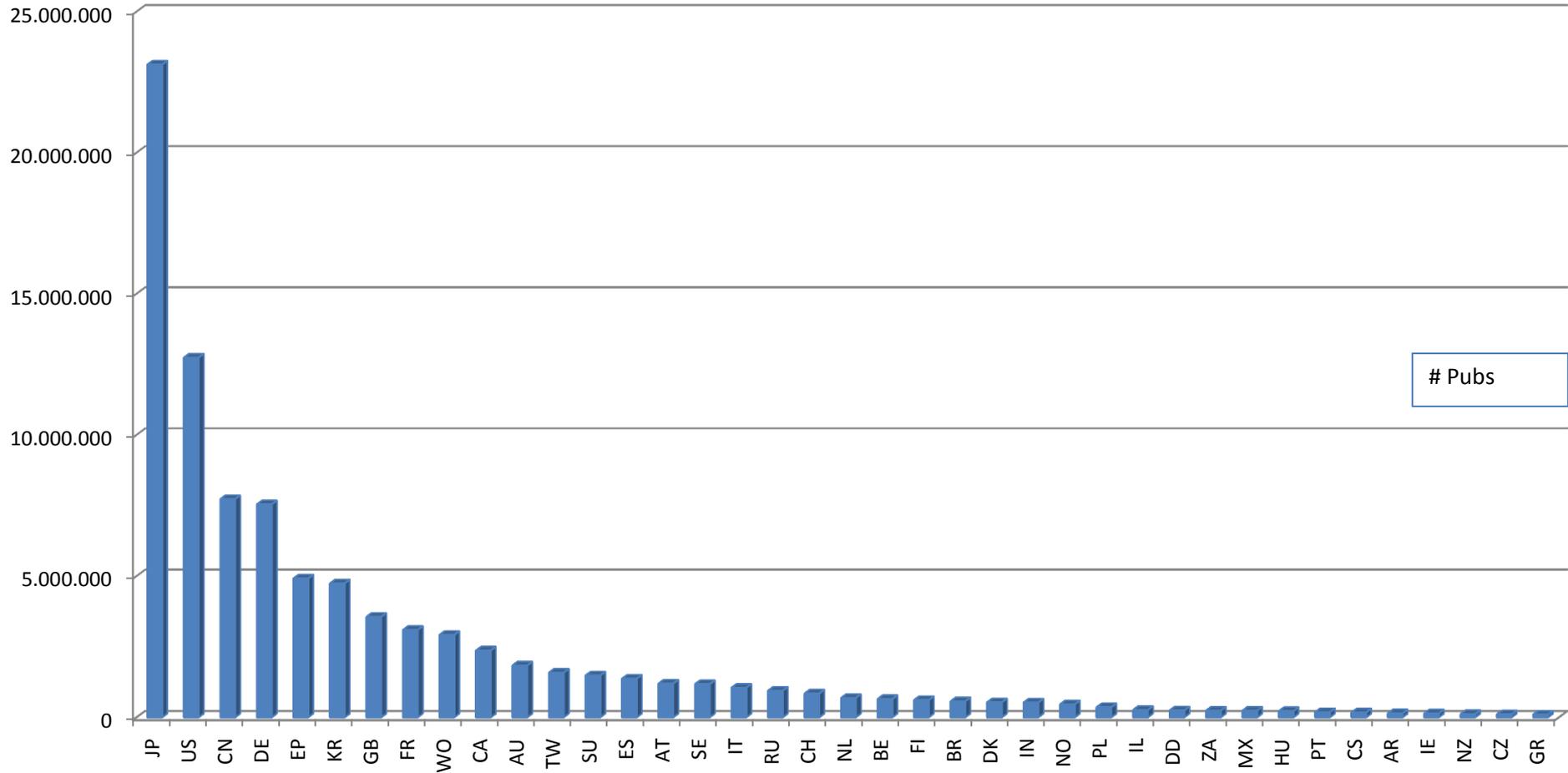
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- Adding further **value** to **Full Text**
- The **3 Ls!**
- Questions **Please!**

- Past **30 years** has seen a **revolution** in the need for **first level data**
- After a **slow** start – rapid **growth** in and **availability** of **full text** databases
- Similarly, **increase** in the number of patent information **vendors**
- **More** authorities now publishing **front files**
- **Few** publish complete **back files**
- Almost **no comprehensive** “official” full text **collections** exist
- Some **countries** and **regions** are greatly **under represented**



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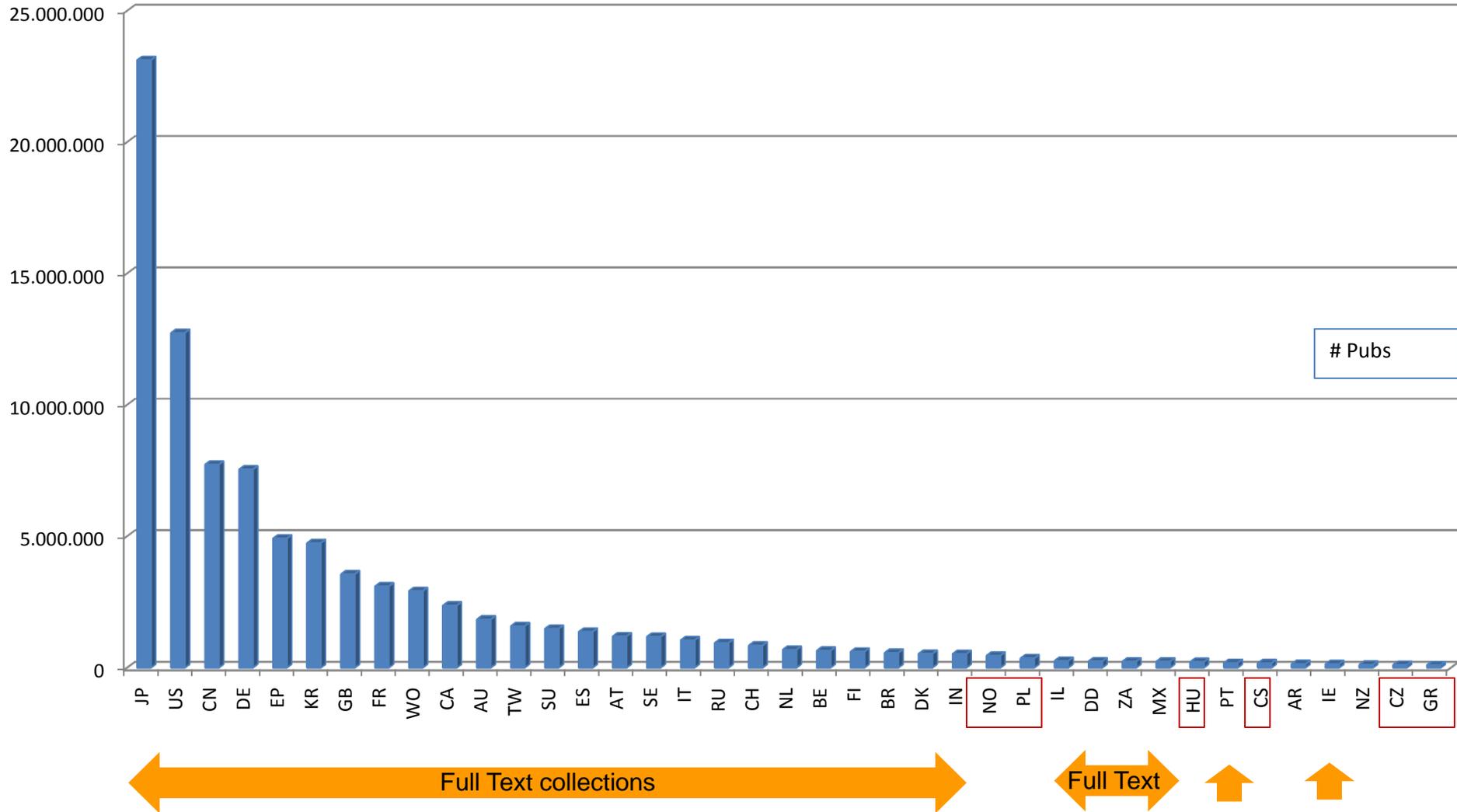


Full Text collections

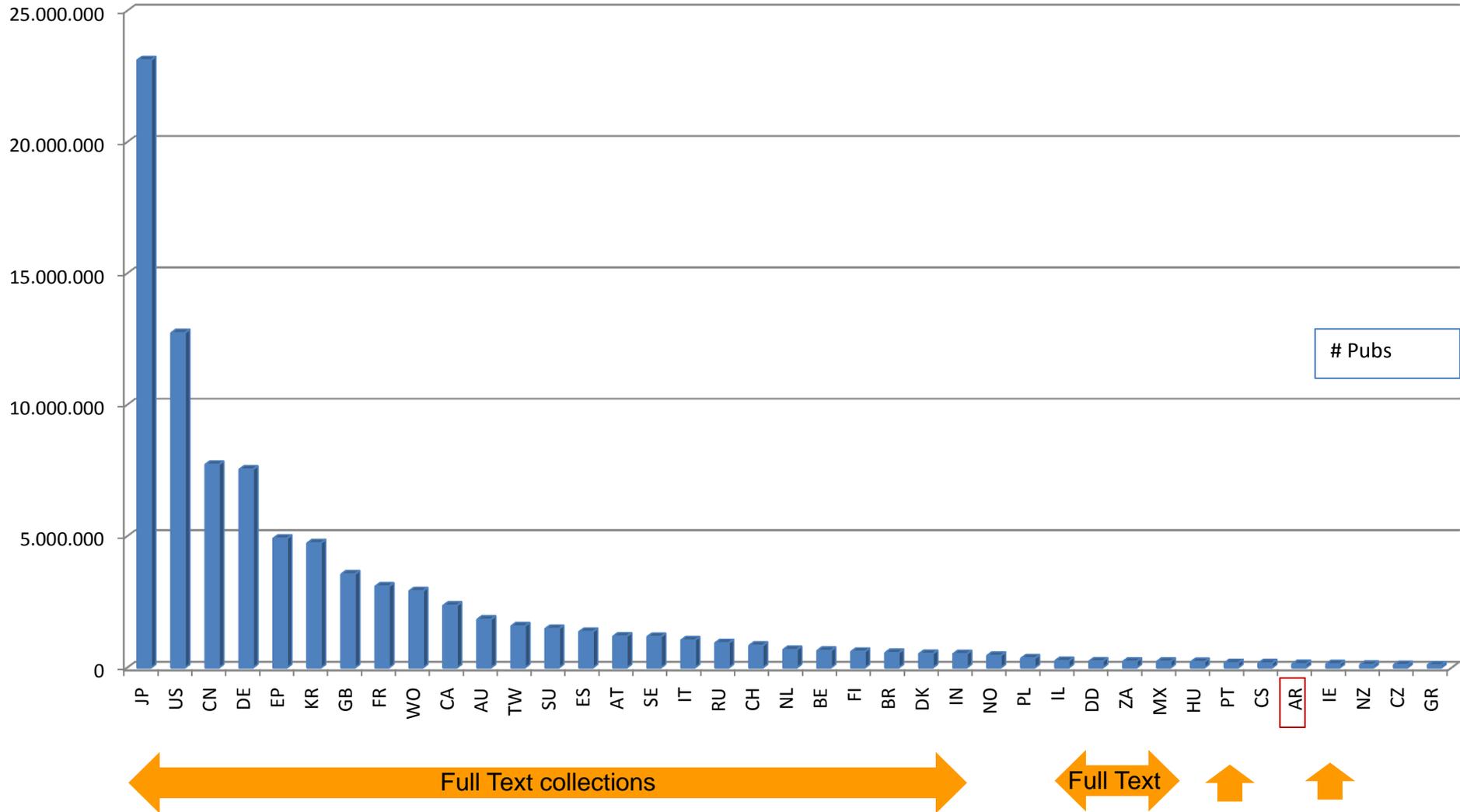
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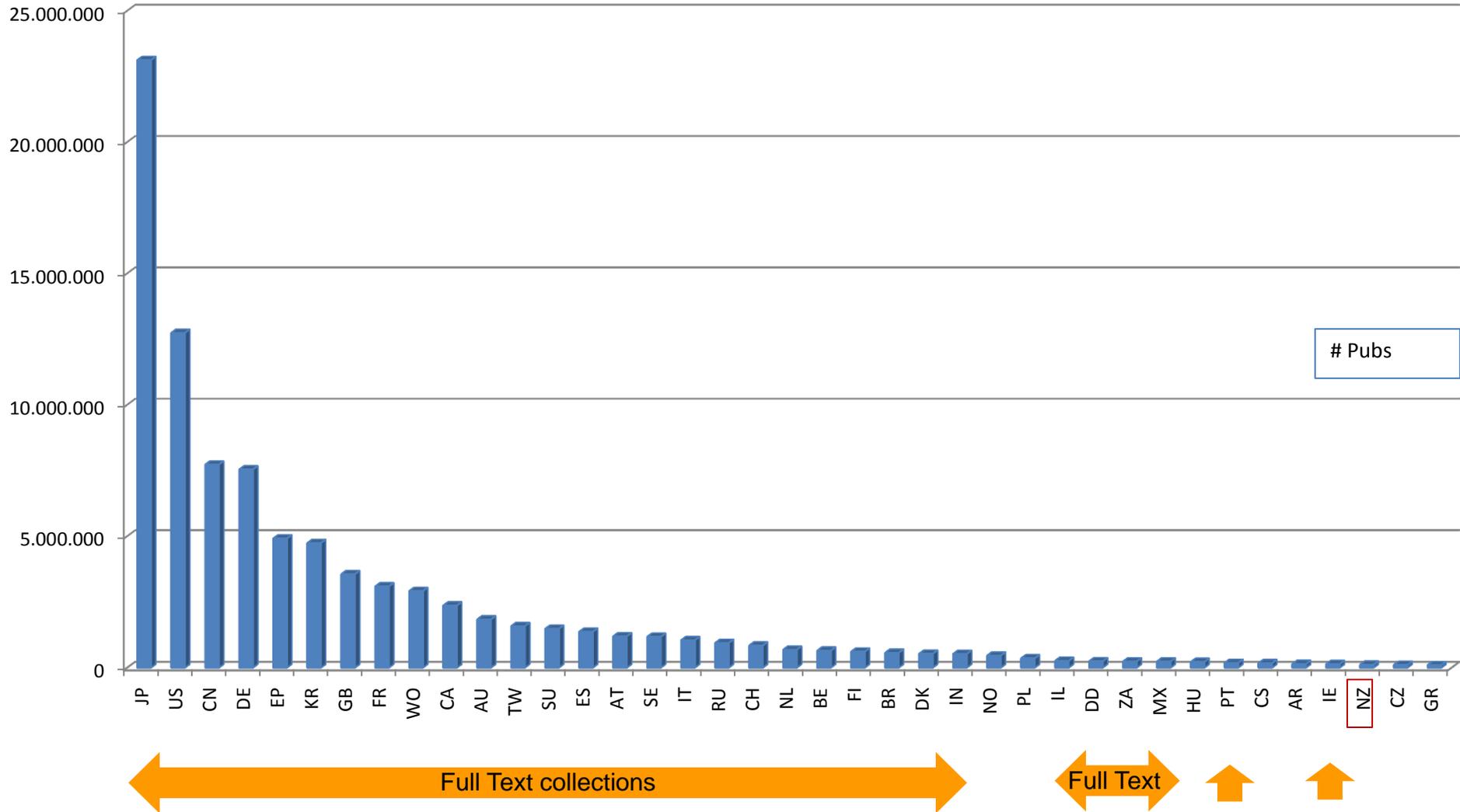
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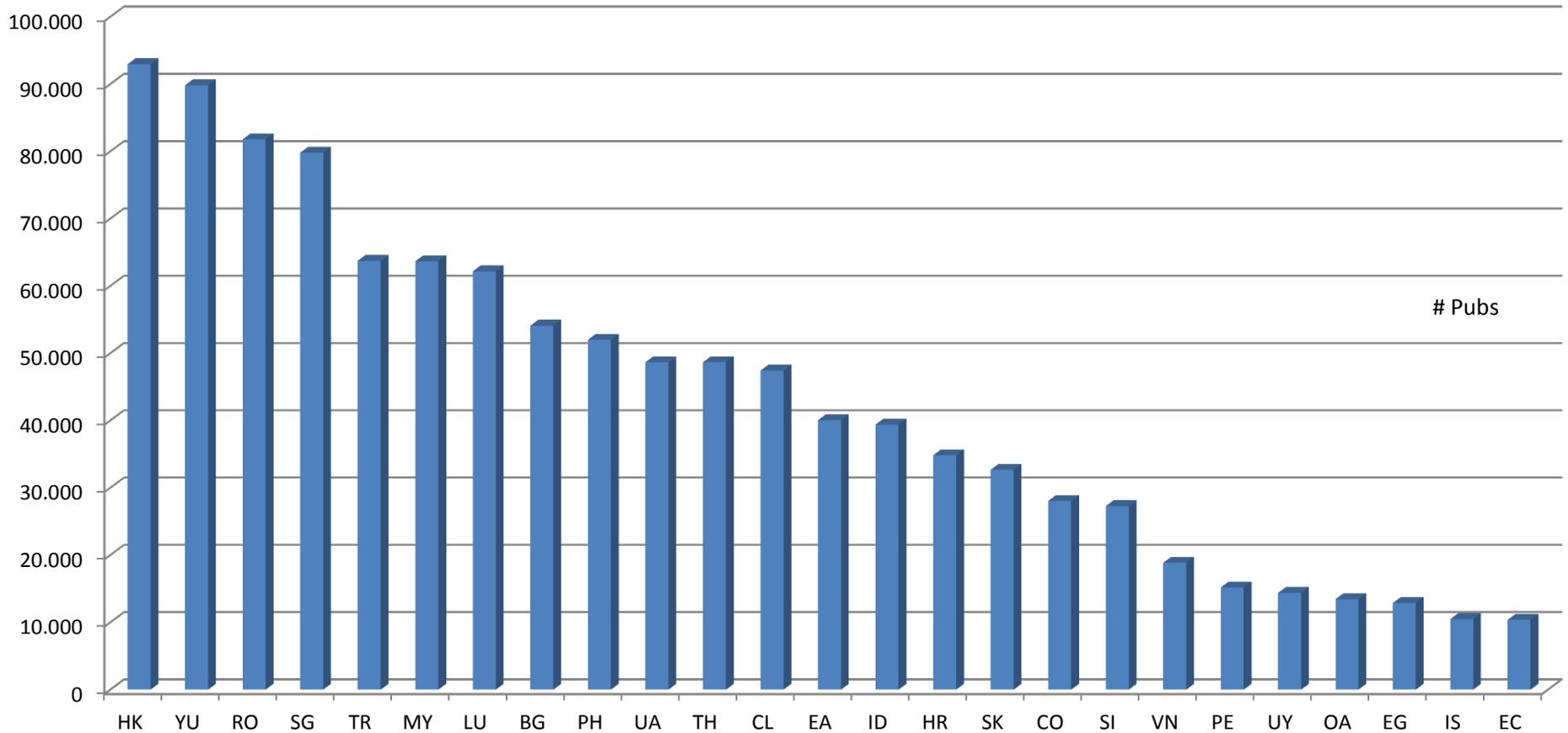


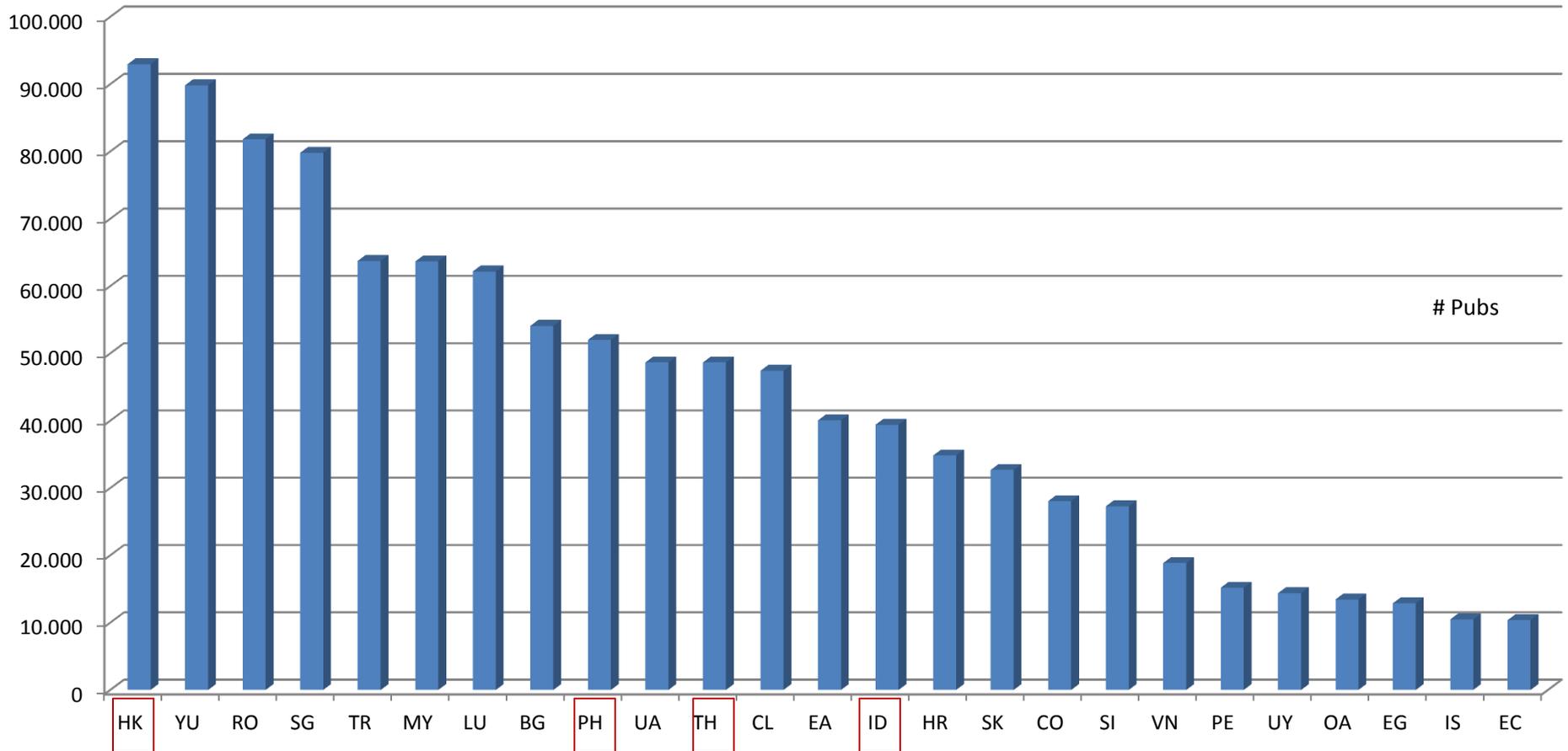
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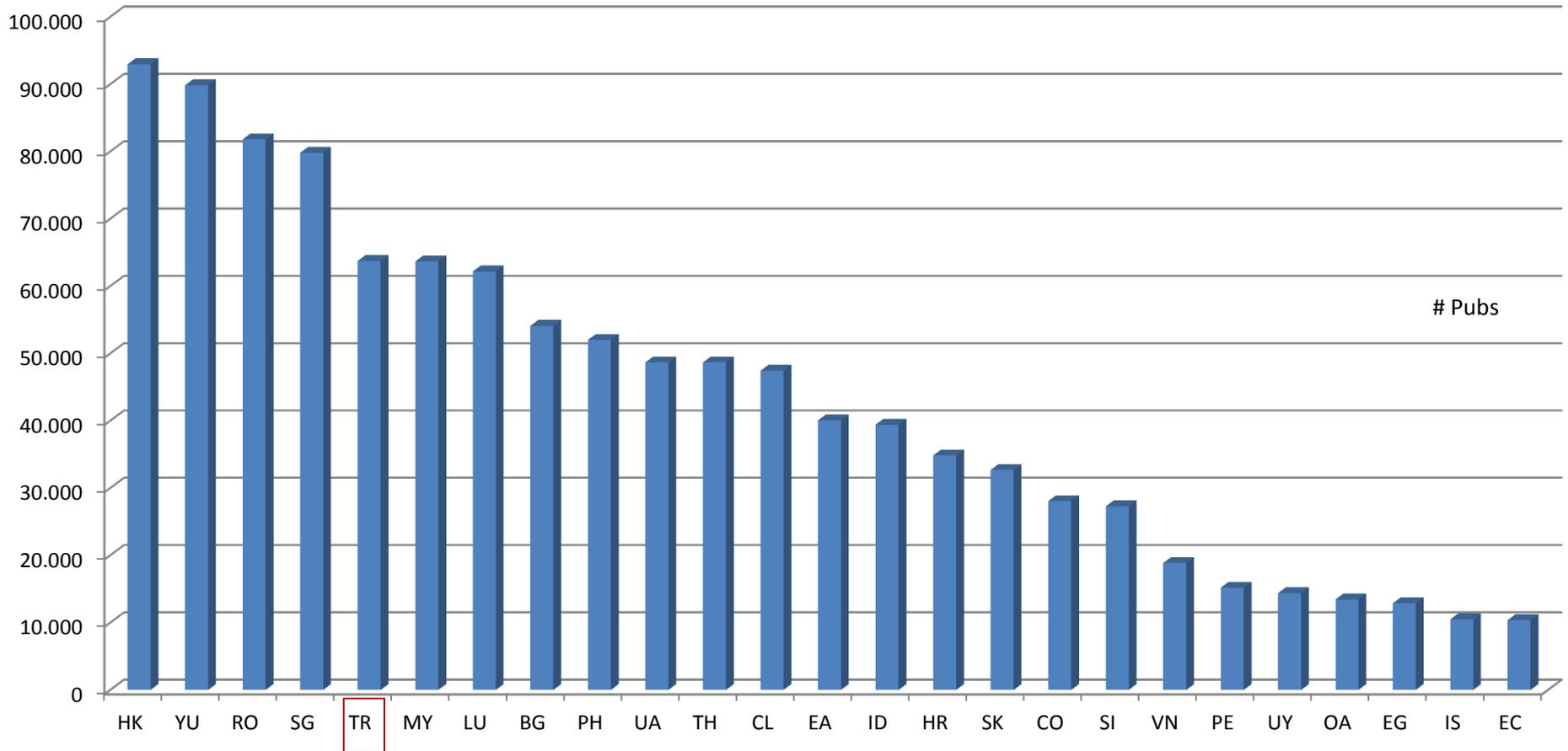


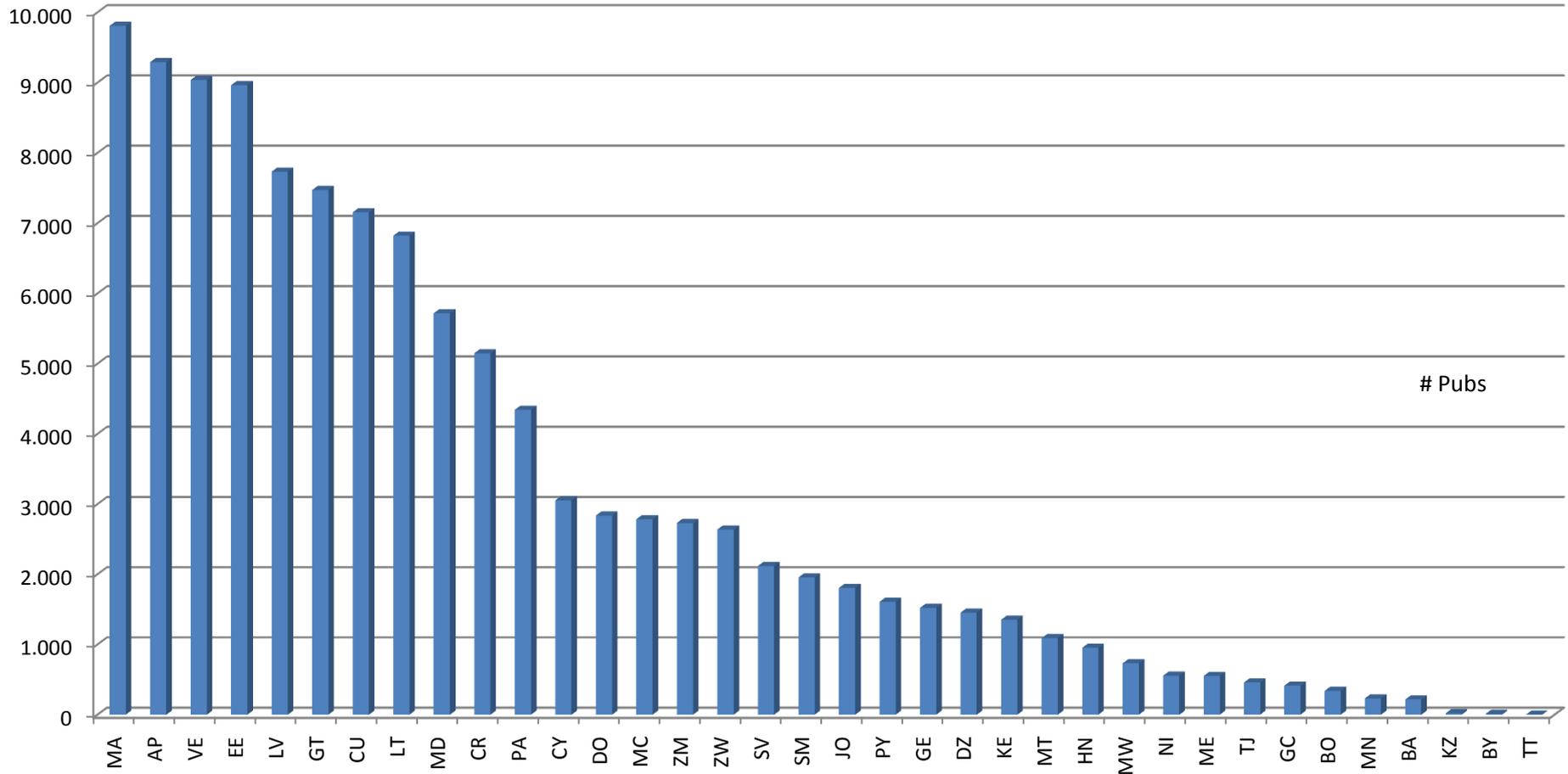
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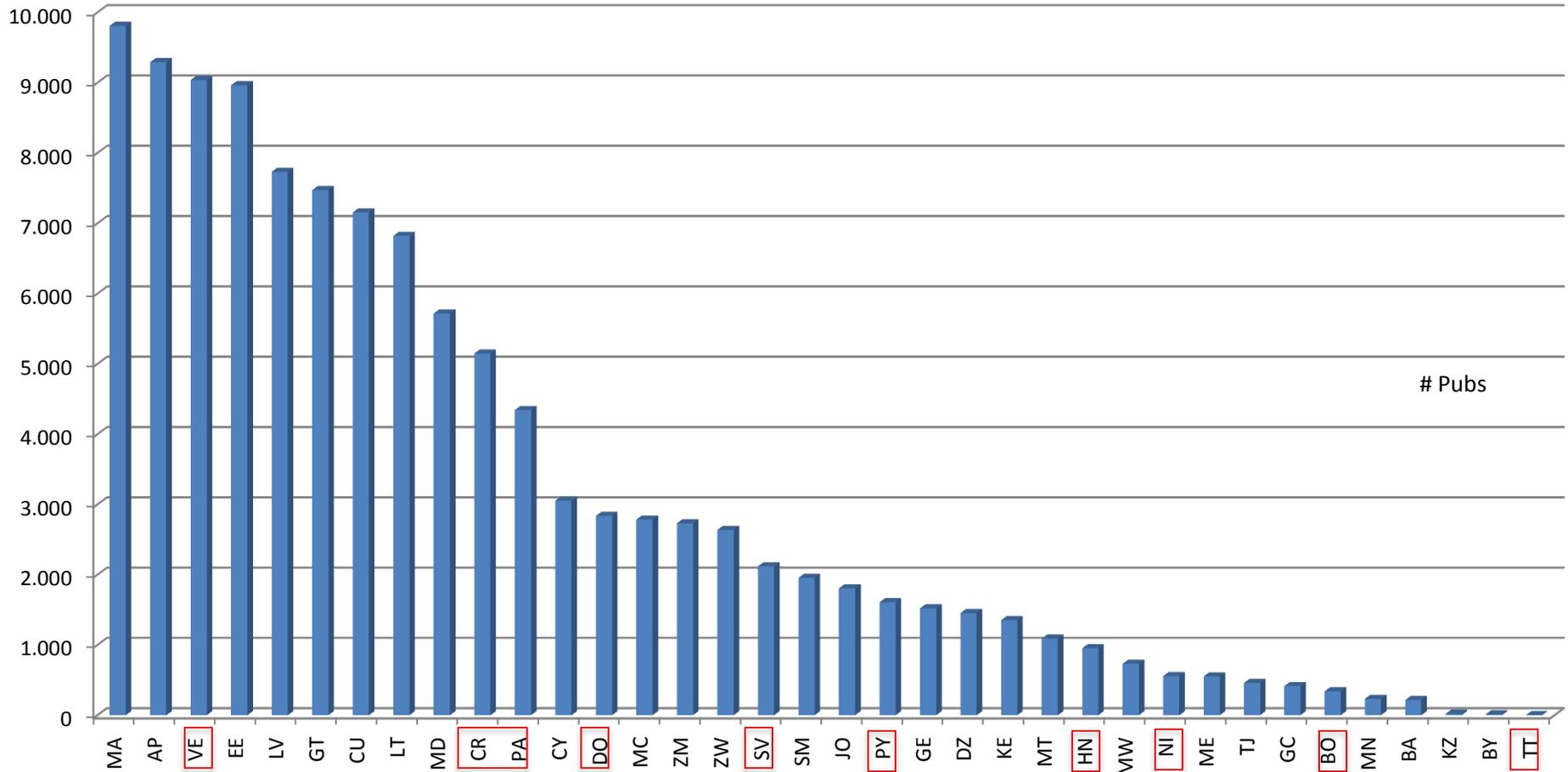




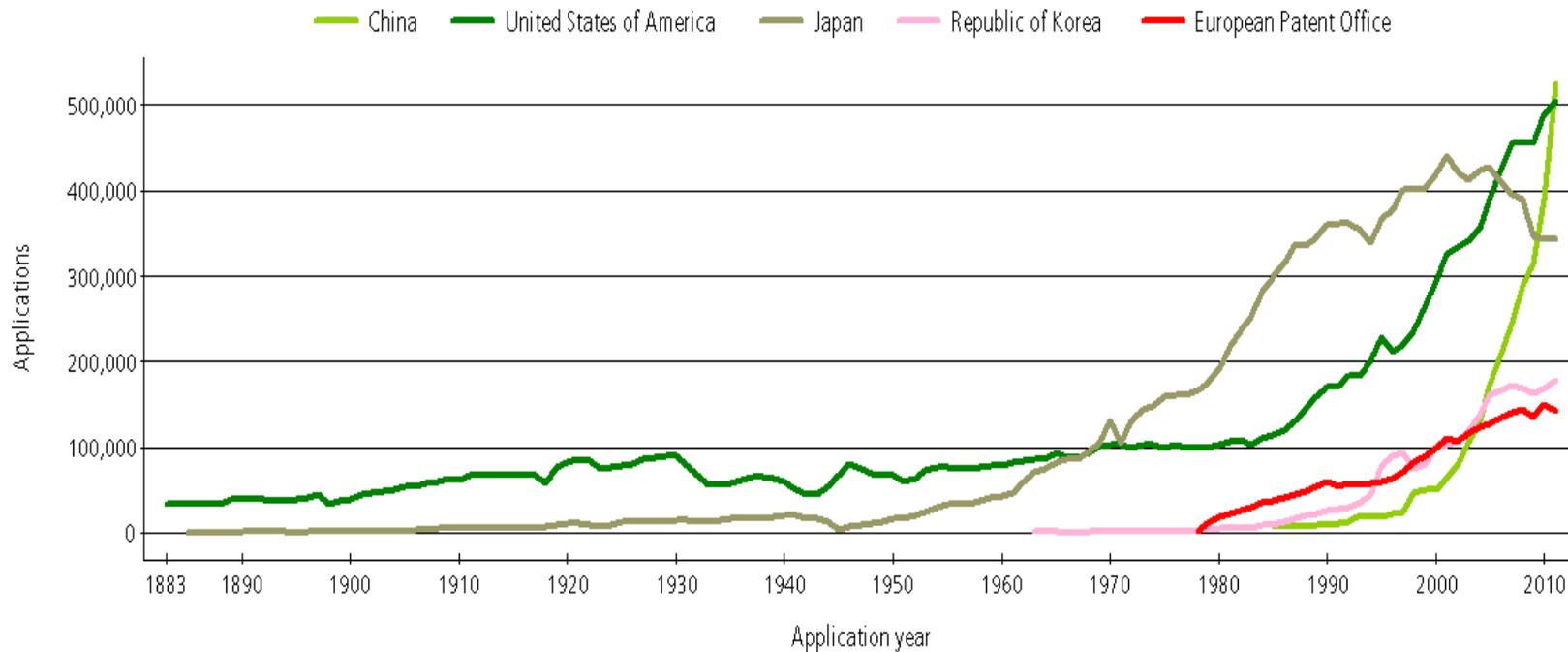








Trend in patent applications for the top five offices



You wait ages for a
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along ...



You wait ages for a
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... then **3 or 4** appear at
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Title: plastic and bicycle

Title or abstract: hair

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Publication number: WO2008014520

Application number: DE19971031696

Priority number: WO1995US15925

Enter one or more dates or date ranges

Publication date: yyyyymmdd

Enter name of one or more persons/organisations

Applicant(s): Institut Pasteur

Inventor(s): Smith

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Refine search → Results → CN2578211 (Y)

CN2578211 (Y)

Bibliographic data

Description

Claims

Mosaics

Original document

Cited documents

Citing documents

INPADOC legal status

INPADOC patent family

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Bibliographic data: CN2578211 (Y) — 2003-10-08

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Dual-driving bicycles

Page bookmark [CN2578211 \(Y\) - Dual-driving bicycles](#)

Inventor(s): LIU ZHENGMING [CN] ±

Applicant(s): LIU ZHENGMING [CN] ±

Classification: - international: **B62K3/00; B62M23/00**; (IPC1-7): B62K3/00; B62M23/00

- cooperative:

Application number: CN2002270417U 20021029

Priority number(s): CN2002270417U 20021029

Abstract of CN2578211 (Y)

Translate this text into

Bulgarian **patenttranslate** powered by EPO and Google

The utility model provides a dual-driving bicycle, which is provided with a front wheel, a back wheel, a back wheel shaft, a front bicycle handle, a middle shaft and a support beam, wherein, a back drive shaft and the back wheel shaft are arranged on the same axis. An inner clutch and an outer clutch are arranged on the middle shaft. The utility model has the advantages of safe traveling, flexibility, alternative drive for two-person drive and independent front drive and back drive and has no more occupation of road areas. A bicycle body is slightly longer than that of a traditional bicycle. The utility model can be used for two persons and a single person.



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Full Text Office: All

China patent collection now available

Results 1-10 of 1,118 for Criteria:ALLTXT:(Dual-driving bicycles) Office(s):all Language:EN Stemming: true

prev 1 2 3 4 5 6 7 8 9 10 next Page: 1 / 112 Go >

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Analysis

Sort by: Relevance View: All List Length: 10

No	Ctr	Title	PubDate	Int.Class	Appl.No	Applicant	Inventor
1.	CN	101985307 - Speed change and electricity generation electric dual-purpose bicycle	16.03.2011	B62M 7/12	201010183028.5	Zhu Yongzhang	Zhu Yongzhang

The invention relates to a speed change and electricity generation electric dual-purpose bicycle belonging to the field of vehicles. Particularly, in the part of a center shaft of the bicycle, on the basis of a speed increase device on the center shaft of the bicycle, a flywheel worm speed reducer is installed on the center shaft at the left side of a speed increaser, a dual-chain speed change device is installed on a circular pipe of a center wheel at the right side and an output seat, and a big belt wheel of a dual-chain speed change output seat is connected with a generator through belt transmission. In operation, the rotation speed of a motor can reach 2000-3000 revolutions through the speed increaser, the generator can generate electricity, a manual driving process and an electric driving process can be carried out solely, and the speed of the dual-chain speed change device can be changed. In addition, the invention also provides the following series products: single-chain speed change, dual-chain speed change, electric and electricity generation type bicycles, electric and electricity generation control type dual-purpose bicycles, single-chain and single-speed bicycles and chain shifting type bicycles. The bicycle of the invention has simple structure and low cost.

China Patent Collection Added to WIPO PATENTSCOPE; Search System Surpasses 32 Million Records

Geneva, September 20, 2013
PR/2013/744

WIPO has added China's national patent collection to the searchable PATENTSCOPE database, pushing the service past the 30 million record mark and increasing it to 34 national and regional patent collections. With the addition of about 3 million documents from China, WIPO's PATENTSCOPE now includes some 32.5 million records that users can search for information about new technologies, which are often cutting-edge. PATENTSCOPE provides access to international Patent Cooperation Treaty applications in full text format on the day of publication. The information may be searched by entering keywords, names of inventors or applicants, or classification codes. "The addition of the patent collection from the People's Republic of China is another big step forward for PATENTSCOPE, which is a unique world-wide service for players in the global race to conceive and commercialize new technologies. It offers a fresh, important perspective on the workings of one of the world's most-dynamic economies."

PATENTSCOPE users now have access to English-language bibliographic data of Chinese patents and patent applications from 1985 through 1995 and from 1996 onwards the submissions include 415,829 patent applications, the most of any country in the world for the second year running.

Print

Query History

Limit to Date Range

Start Date

End Date

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Facets

Kind Code

Y (13)

Publication Year

2003 (13)

Inventor (Top 10)

- Batch Jianjun (1)
- Batch Master (1)
- Batch Purity Just (1)
- Blue bead (1)
- Chestnut Flower (1)
- Coating Xingguo (1)
- Gold Guangchang (1)
- Le Xiufeng (1)
- Networking Huaying (1)
- Nie Sealing (1)

IPC Code (Top 10)

- B62K3/00 (3)
- A61G5/00 (2)
- A63C17/20 (1)
- B62J11/00 (1)
- B62J23/00 (1)
- B62K17/00 (1)
- B62K27/00 (1)
- B62K27/00B60K1/04 (1)

13 Results for Dual-driving bicycles

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kind_code:"Y" date_publ:[2003-01-01T00:00:00Z TO 2003-12-31T23:59:59Z]

Patent	ID	Published	Print
1 Spoke motor speed regulation control device	CN2590277Y 02250183.5	Dec 3, 2003 Dec 11, 2002	
2 The structure of power scooter	CN2589324Y 02242320.6	Dec 3, 2003 Jul 31, 2002	
3 The natural gas and liquefied petroleum gas motorcycle, the vehicle steel cylinder using alcohol indicator	CN2577254Y 02261531.8	Oct 1, 2003 Nov 13, 2002	
4 The reciprocating pulling entraining type manpower driving device	CN2577000Y 02256940.5	Oct 1, 2003 Oct 14, 2002	
5 Gravity driving the bicycle pedal	CN2570159Y 02274939.X	Sep 3, 2003 Aug 24, 2002	
6 Dual drive wheelchair	CN2569786Y 02238918.0	Sep 3, 2003 Jun 10, 2002	
7 Television and computer protection mirror	CN2565041Y 02264371.0	Aug 6, 2003 Sep 12, 2002	
8 A folding bicycle	CN2564460Y 02253055.X	Aug 6, 2003 Sep 6, 2002	
9 Novel bicycle	CN2564459Y 02252756.7	Aug 6, 2003 Sep 4, 2002	
10 The multifunctional bicycle for rain dual - purpose and umbrella	CN2564456Y 02278843.3	Aug 6, 2003 Aug 17, 2002	
11 Novel semi-automatic street vacuum cleaner	CN2558694Y 02229928.9	Jul 2, 2003 Mar 28, 2002	
12 Application of force slide and walking dual -purpose shoe	CN2558416Y 02233361.4	Jul 2, 2003 Apr 28, 2002	



IMAGE 1 OF 7

Abstract

The utility model discloses a folding bicycle. The object of the invention is to provide a foldable bicycle, which may be constant on the pedal speed, in case that the traveling speed of the vehicle does not decrease, reduce the wheel. The technical proposal of the utility model is: A folding bicycle, which after driving wheel disk, a driving gear, a rear bracket, the central support and standing Beam, a beam, a front fork tubes and handle belt hull and a folding bicycle body is provided with a secondary transmission device in the driving wheel disk and rear driving wheels; Two-stage transmission device includes a second gearwheel, small wheels and secondary small shaft; The gearwheel and secondary small wheels are integral dual wheels, and mounted on the secondary small central shaft; The secondary small shaft is fixed on the support, and two ends of the secondary small shaft is provided with a shaft, a foldingThe driving wheel disk and secondary small wheels are connected by a primary drive chain; And the driving gear and second gearwheel is connected by a secondary drive chain. The utility model is light in weight, after being folded, the volume is small, can be along, which is very convenient.

Highlights

Abstract:

"...The utility model discloses a folding **bicycle**. The object of the invention is to provide a foldable **bicycle**, which may be constant on the pedal speed, in case that the traveling speed of the vehicle does not decrease, reduce the wheel. The technical proposal of the utility model is: A folding **bicycle**, which after **driving** wheel disk, a **driving** gear, a rear bracket, the central support and standing Beam, a beam, a front fork tubes and handle belt hull and a folding **bicycle** body is provided with a secondary transmission device in the **driving** wheel disk and rear **driving** wheels; Two-stage transmission device includes a second gearwheel, small wheels and secondary small shaft; The gearwheel and secondary small wheels are integral **dual** wheels, and mounted on the secondary small central shaft; The secondary small shaft is fixed on the support, and two ends of the secondary small shaft is provided with a shaft, a foldingThe **driving** wheel disk and secondary small wheels are connected by a primary **drive**..."

Disclosures:

"...Invention content The object of the invention is to provide a foldable **bicycle**, which may be constant on the pedal speed, in case that the traveling speed of the vehicle does not decrease, reduce the wheel. In order to achieve the object, the utility model adopts the following technical proposal: A folding **bicycle**, which after **driving** wheel disk, a **driving** gear, a rear bracket, the central support and standing Beam, a beam, a front fork tubes and handle belt hull and a folding **bicycle** body is provided with a secondary transmission device in the **driving** wheel disk and rear **driving** wheels; Two-stage transmission device includes a second gearwheel, small wheels and secondary small shaft; The gearwheel and secondary small wheels are integral **dual** wheels, and mounted on the secondary small central shaft; The secondary small shaft is fixed on the support, and two ends of the



Patents

English Chinese

双驱自行车

CN 2578211 Y

ABSTRACT

本发明提供一种双驱自行车, 它有前车轮、后车轮、后轮轴、前车架、中轴及支撑梁, 后驱动轴与后轮轴安装在同一轴心线上, 中轴上安装内离合器及外离合器, 它具有行驶安全、灵活、行驶中不多占道路面积, 双人骑车时可交替驱动, 前后驱动分别独立, 车身比传统自行车稍长, 可供双人骑车也可供单人骑车的优点。

Publication number CN2578211 Y
 Publication type Grant
 Application number CN 02270417
 Publication date Oct 8, 2003
 Filing date Oct 29, 2002
 Priority date Oct 29, 2002
 Inventors 刘争鸣
 Applicant 刘争鸣
 Classifications (2), Legal Events (2)

External Links: SIPO, Espacenet

DESCRIPTION

双驱自行车

技术领域

本发明新型涉及人力车, 是一种可以双人驱动的自行车。

本发明新型为实现上述目的, 通过以下技术方案实现: 它有前车轮、后车轮、后轮轴、前车架、中轴及支撑梁, 后驱动轴与后轮轴安装在同一轴心线上, 中轴上安装内离合器及外离合器, 后轮轴中间开设透孔, 后驱动轴安装在后轮轴的中间透孔内, 后车轴上方安装移动式车座, 支撑梁上安装折叠式车把, 折叠式车把与移动式车座之间安装导向支承杆, 中轴上安装滚动轴承, 前车轮直径小于后车轮直径。

本发明新型具有如下优点: 行驶安全、灵活、行驶中不多占道路面积, 双人骑车时可交替驱动, 前后驱动分别独立, 车身比传统自行车稍长, 可供双人骑车也可供单人骑车。

CLASSIFICATIONS

International Classification B62M23/00, B62K3/00

LEGAL EVENTS

Date	Code	Event	Description
Dec 28, 2012	C17	Cessation of patent right	
Oct 8, 2003	C14	Granted	



Patents

English Chinese

Dual-driving bicycles

CN 2578211 Y

ABSTRACT

The utility model provides a dual-driving bicycle, which is provided with a front wheel, a back wheel, a back wheel shaft, a front bicycle handle, a middle shaft and a support beam, wherein, a back drive shaft and the back wheel shaft are arranged on the same axis. An inner clutch and an outer clutch are arranged on the middle shaft. The utility model has the advantages of safe traveling, flexibility, alternative drive for two-person drive and independent front drive and back drive and has no more occupation of road areas. A bicycle body is slightly longer than that of a traditional bicycle. The utility model can be used for two persons and a single person.

Publication number CN2578211 Y
 Publication type Grant
 Application number CN 02270417
 Publication date Oct 8, 2003
 Filing date Oct 29, 2002
 Priority date Oct 29, 2002
 Inventors 刘争鸣
 Applicant 刘争鸣
 Classifications (2), Legal Events (2)
 External Links: SIPO, Espacenet

DESCRIPTION translated from Chinese

Dual drive bicycle

Technology

The utility model relates to a rickshaw, is a way to double-driven bicycles.

The utility model relates to achieve the above object, the following technical solution: it is a front wheel, rear wheels, rear axle, the front steering wheel, the central axis and the support beam, after the drive shaft and the rear axle mounted on the same axis line, the install the inner and outer clutch shaft clutch. Middle of the rear axle hole opened, the rear driveshaft installed in the middle of the rear axle through hole. Mounted above the rear wheels removable seat. After installation support beam folding handlebars, folding handlebars and removable seat is installed between the guide support bars. Installed in the shaft bearings. Front wheel diameter smaller than the diameter rear wheels.

The utility model has the following advantages: with secure, flexible, moving more than accounted for the road area, double drive can be alternately driven, front and rear driven separately, the body is slightly longer than traditional bicycles, cycling also available for double single ride car.

CLAIMS (6) translated from Chinese

1 dual drive bicycle, which has front wheels (20), the rear wheel (21), rear axle (22), the front steering wheel (23), the central axis (24) and the support beam (25), characterized in that: after drive shaft (13) and the rear axle (22) mounted on the same axis line, the central axis (24) is installed on the inner clutch (9) and the outer clutch (8).

(2) as claimed in claim 1, wherein the dual drive bicycle, characterized in that: the rear axle (22) via an intermediate opening, after the drive shaft (13) mounted on the rear axle (22) through the hole in the middle.

3 according to claim 1, wherein the dual drive bicycle, characterized in that: the rear wheel (21) mounted mobile above the seat (3).

As claimed in claim 1, wherein the dual drive bicycle, characterized in that: a support beam (25) installed on the folding steering wheel (1), a foldable steering wheel (1) with the mobile seat (3) between the installation guide support bar (2).

5 according to claim 1, wherein the dual drive bicycle, characterized in that: the axis (24) mounted on the bearing (6).

As claimed in claim 1, wherein the dual drive bicycle, characterized in that: the front wheel (20) smaller in diameter than the rear wheel (21) in diameter.

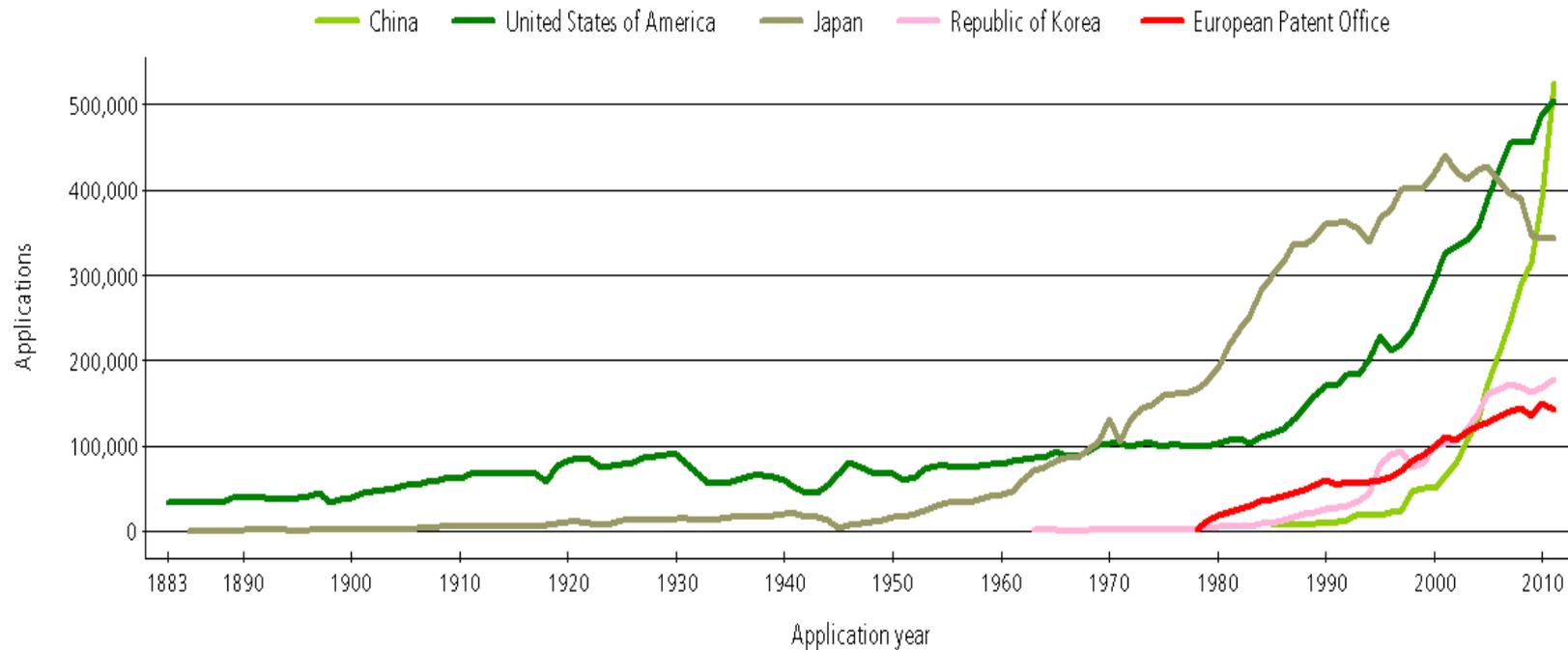
CLASSIFICATIONS

International Classification B62M23/00, B62K3/00

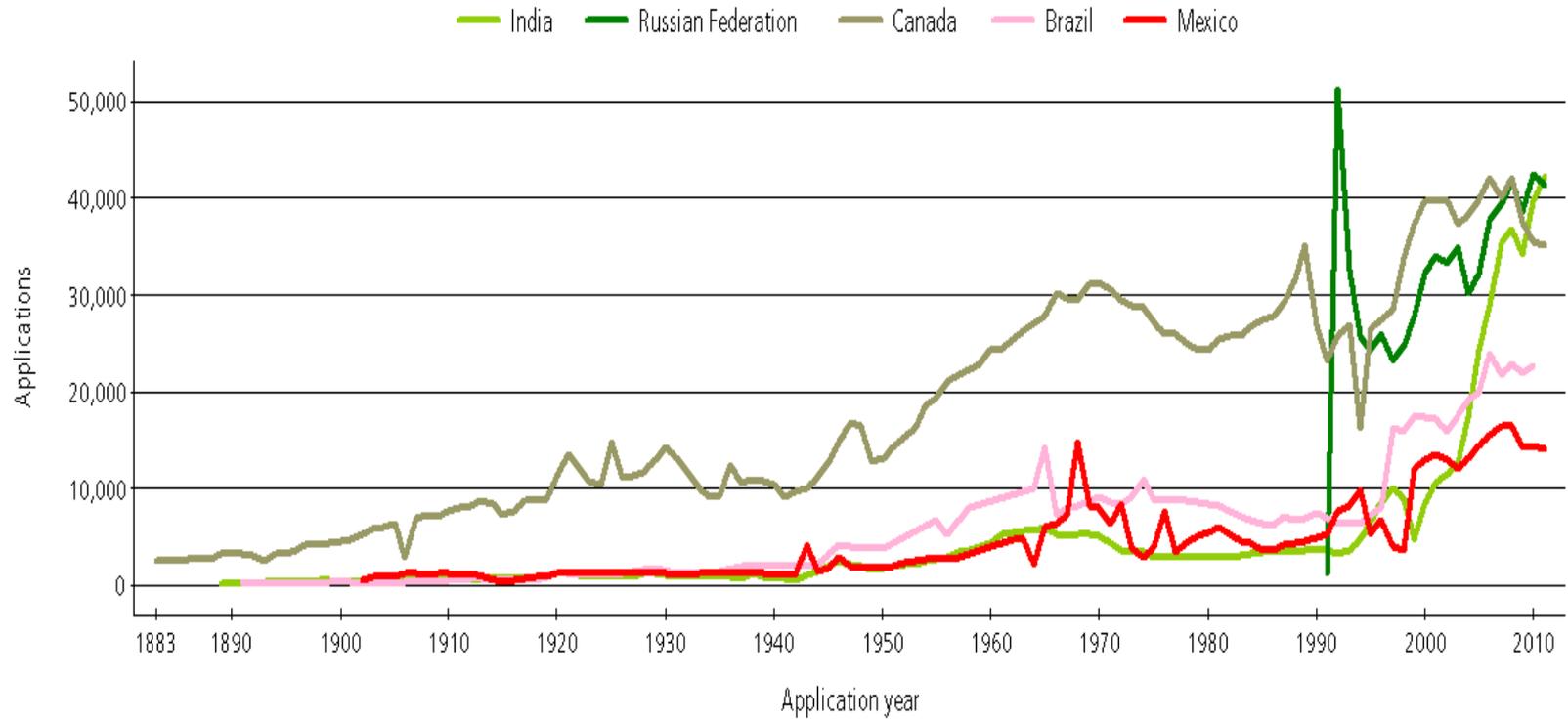
LEGAL EVENTS

Date	Code	Event	Description
Dec 28, 2012	C17	Cessation of patent right	
Oct 8, 2003	C14	Granted	

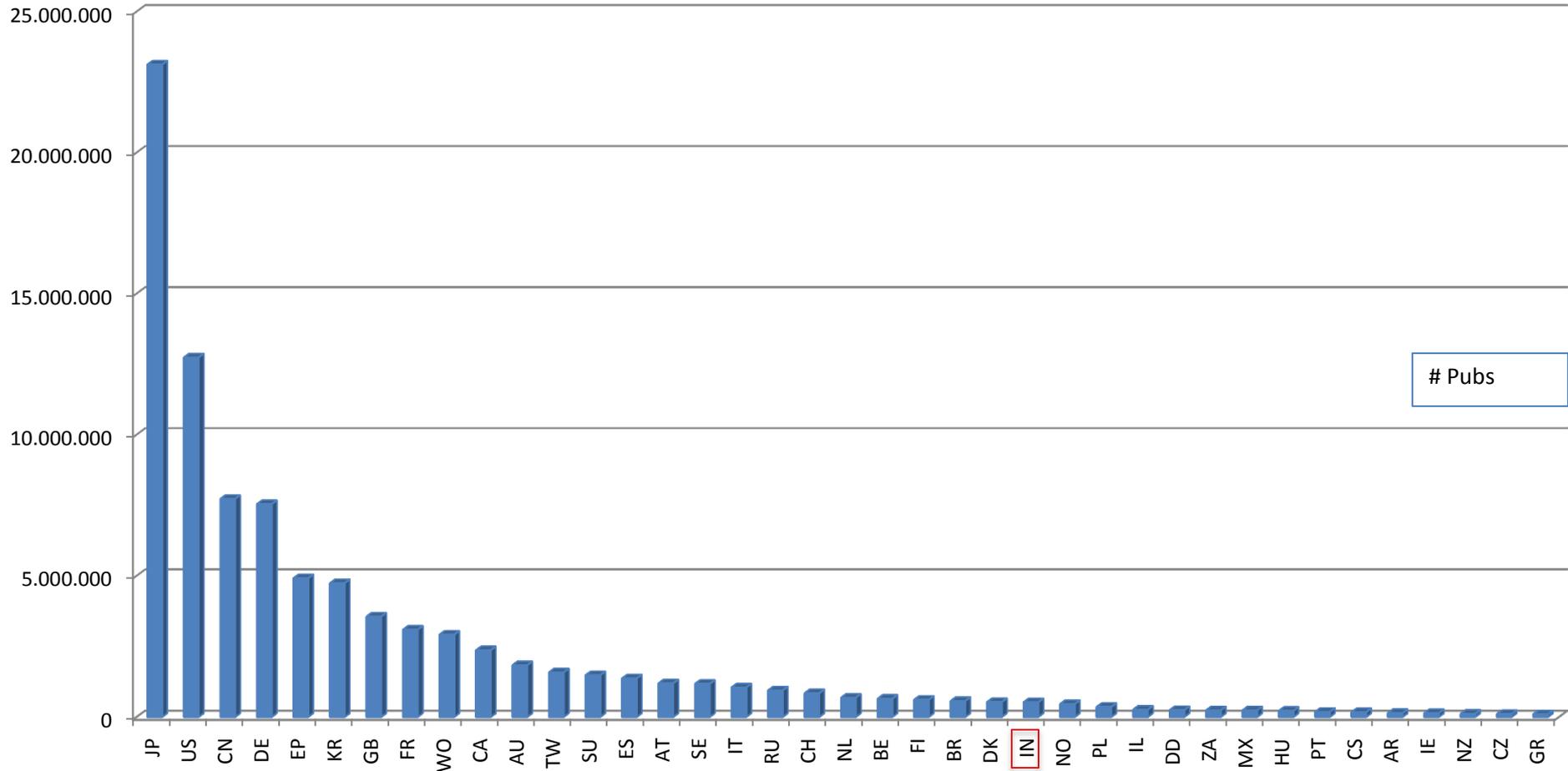
Trend in patent applications for the top five offices



Trend in patent applications for selected offices



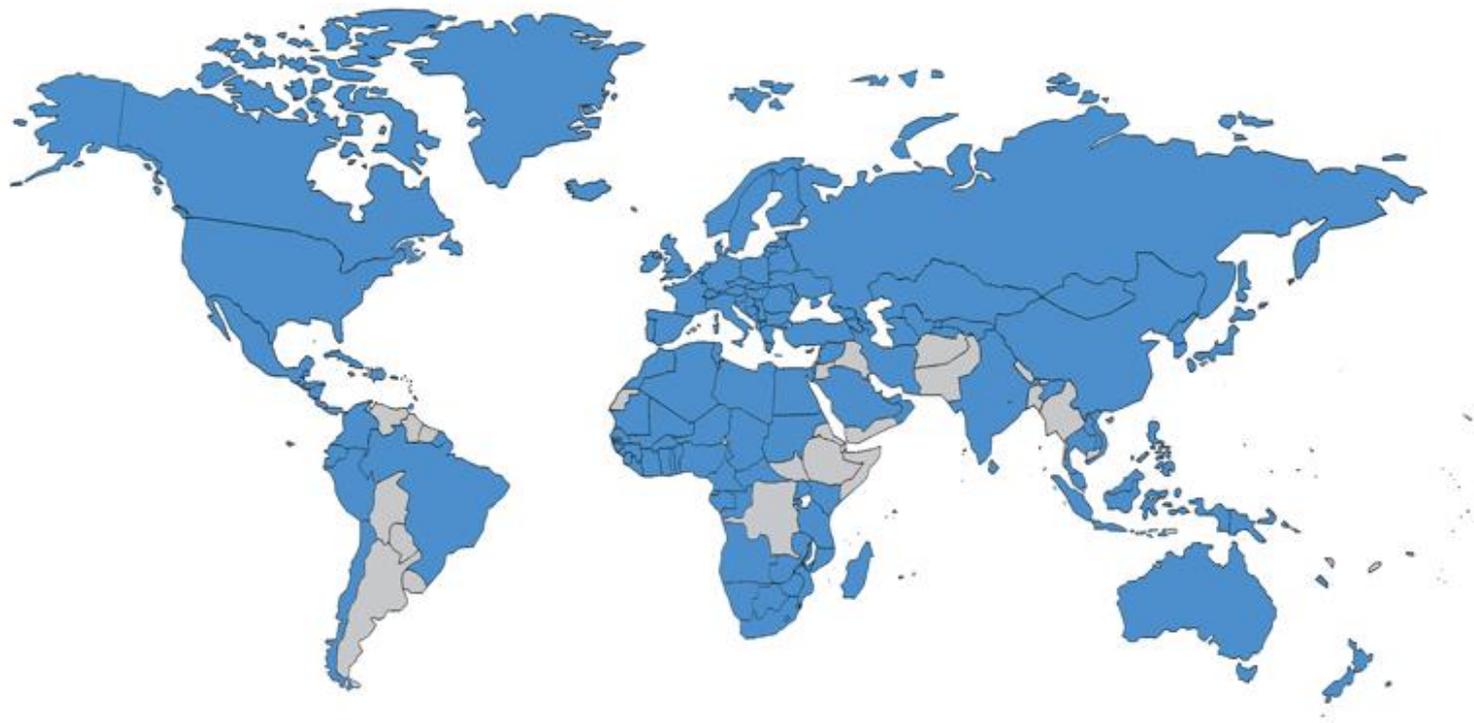
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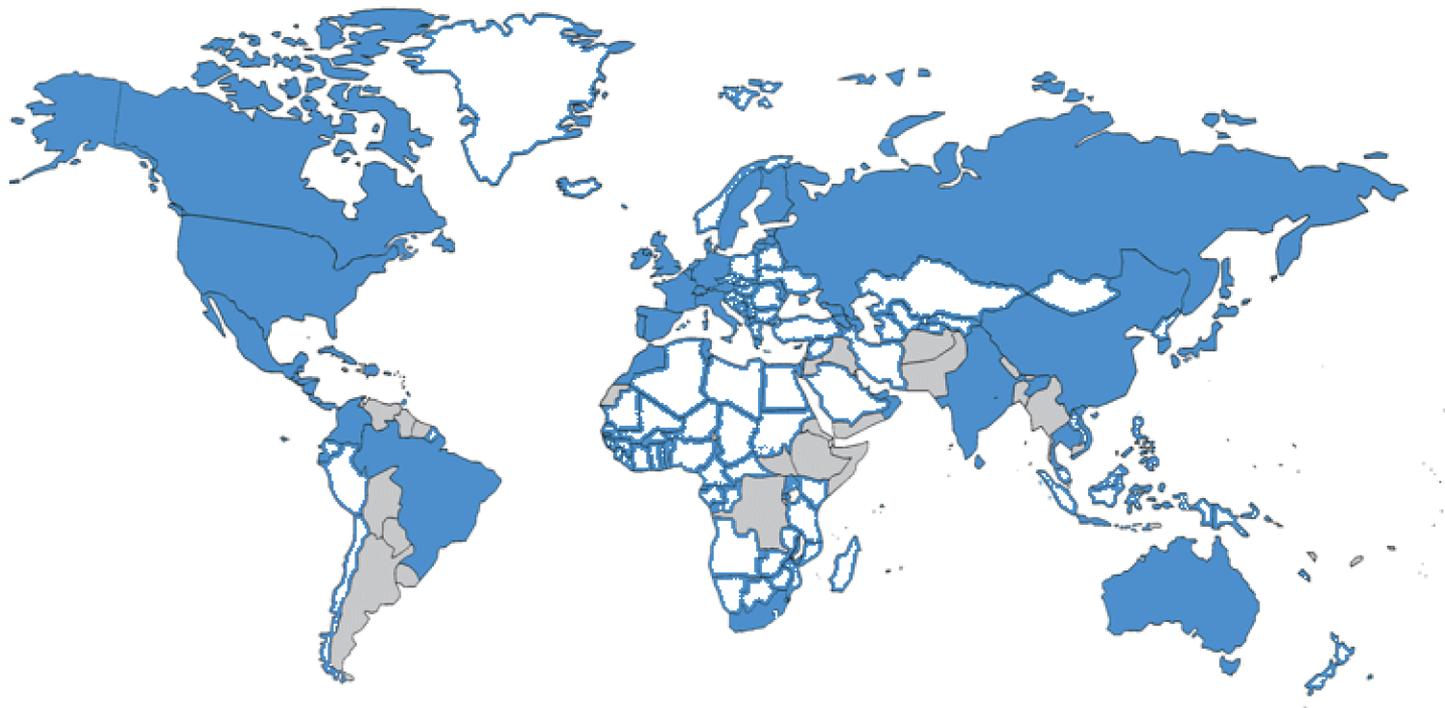
Full Text collections

Full Text

The PCT now has 148 Contracting States



Only one-third are available as Full Text



- Legal Status data is an **important component of patent information**
 - Legal status data needs to be **up-to-date and correct**
- Two major **primary** sources of legal status data:
 - Patent Gazettes
 - **Status** can **change** from day to day
 - Registers
 - More **up-to-date**
- WIPO 2011 Survey
 - Availability of **legal status** data from **primary** sources
 - **87 replies** received
 - Conclusion:
 - Where the patent system is already operational for a considerable time (some 40 countries), **the access to legal status information is mostly sufficient**
- The **accessibility** of the information **doesn't mean easy** access:
 - Need to visit **different on-line databases** to perform a global search
 - Need to understand **different definitions of legal events** in different jurisdictions
 - Need for a **fee payment** to access legal status data in some countries
 - Different **interfaces and languages** of national on-line registers



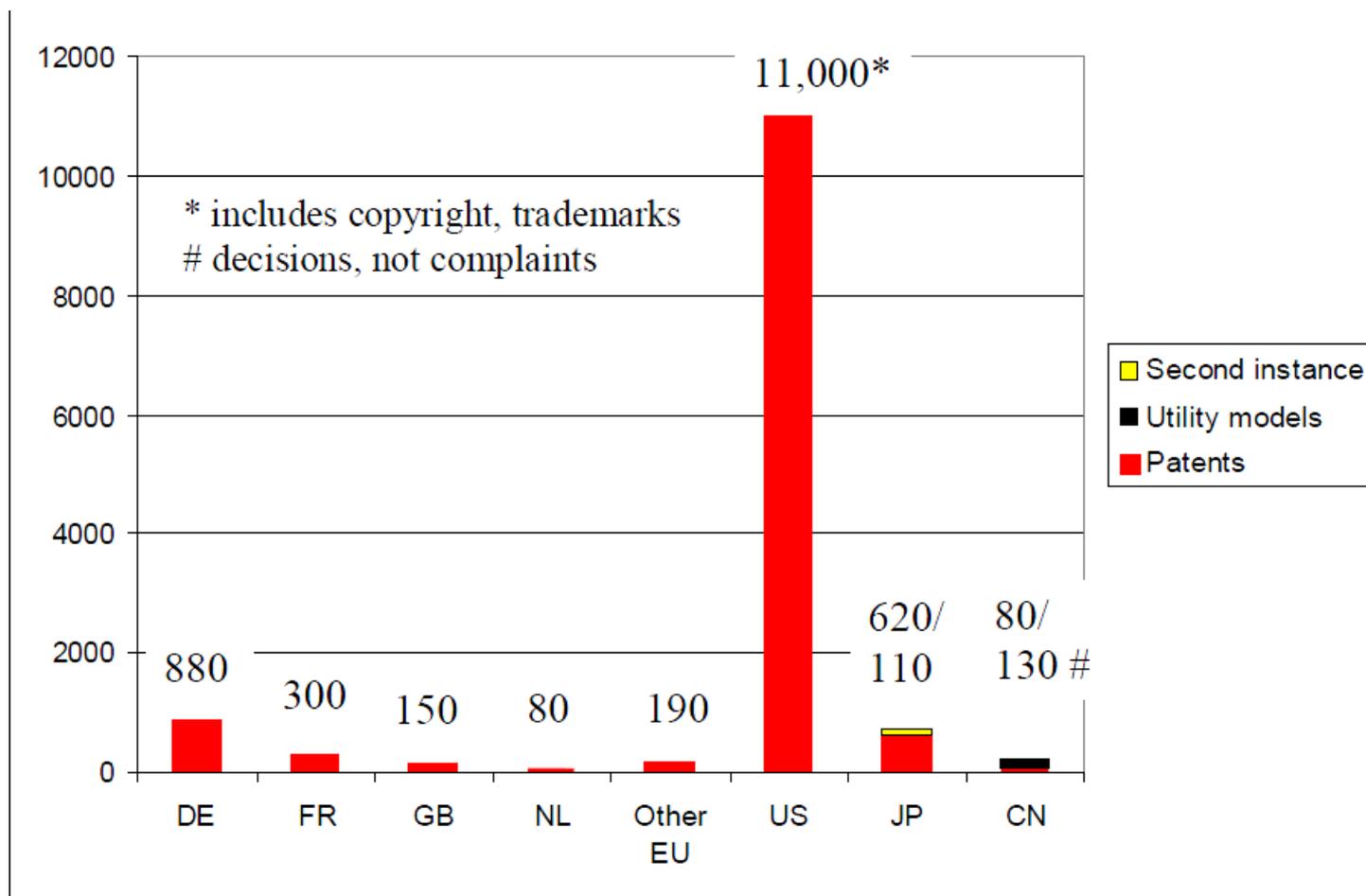
- 74 countries **patent legislation** explicitly provides for a **national patent register**
 - Not the case in **12 countries**
 - 5 of the 74 **countries** have replied that the register is **not yet operational**
 - **10 countries** have replied that they have **no register**
- **Internet access** is possible for **47** of the 76 operational registers.
 - Not the case for **29 registers**
 - For **21 registers** information can be obtained by submitting a written request
- **Update frequency**
 - Of the **47** online registers, 33 are updated **daily**; **7** are updated **weekly**; **2** are updated **every second week**; **5** are updated **monthly**
 - **2** are updated at **non-periodical** intervals
 - Of the **33** gazettes majority published **every month**
 - **22** gazettes are published **weekly**; others **bi-weekly** (6), **bi-monthly** (6) or **quarterly** (6)
- **73** IPOs would be able to **share** published legal status information **with WIPO**
 - **61** would share with other IPOs
 - **5** share only with WIPO
 - **Only 43** would **share with commercial providers**
 - **Only 14** of the 43 **do** exchange data

- Secondary sources of legal status information:
 - Advantages
 - Combined with **patent family** information
 - Disadvantages
 - **Delay in publication** and the **lack of some data** from primary sources
- INPADOC
 - Legal status data from **57 (64) authorities**
 - The number of items and **diversity** and **reliability** of data reported from each IPO **varies**
 - Processing incurs **delays in availability**
 - **2 days to 3 months** depending on the primary source
- WIPO's PATENTSCOPE
 - Includes legal events of the **PCT international phase** and the entry into the **national phase**
 - Information provided **only on a voluntary basis** from **selected** PCT Member States
- Conclusion:
 - Large **variety** of data
 - **Different** legal **definitions**
 - INPADOC records **each legal event** reported from a particular country with a **different code**
 - **Several thousand** different types of legal status data
 - **Standardization** or use of unified codes is **highly desirable**
 - Overwhelming **need** for a **comprehensive, uniform database** of **Legal Status** patent information



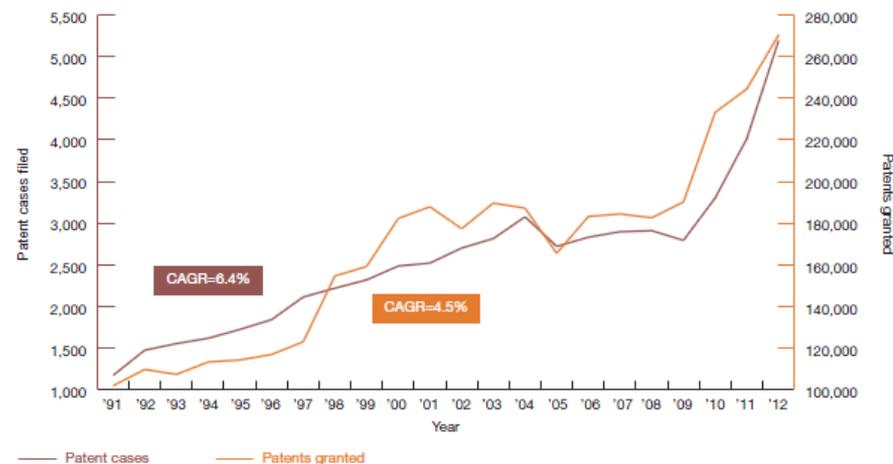
- **Ultimate responsibility** for trying patent cases **resides with courts** not Patent Offices
- Often **no single national**, let alone international or supranational **jurisdictions**
 - Parts of the **UK** responsibility resides with **Intellectual Property Enterprise Court, The Patents Court, England and Wales Court of Appeal** and ultimately the **Supreme Court**
 - In **Scotland** - Scottish **Courts Service** and **Courts of Session**
- **Germany** infringement cases filed at specially-created patent litigation divisions in the civil chambers of 12 regional courts:
 - In practice, **Düsseldorf, Mannheim** and **München**
- **French** patent cases are filed at civil chambers of designated “**specialised**” district courts
- In the **US**, major patent cases are heard at **District Courts**
 - Circuit **Courts of Appeal**
 - **Supreme Court**
- **Japan**
 - Tokyo (**specialist IP division** for E. Japan, infringement actions)
 - Osaka (**specialist IP division** for W. Japan, infringement actions)
- **China**
 - Beijing, Macau, Hong Kong, Chengdu, Guangzhou, Hangzhou, Shanghai, Nanjing and Hefei
- **European Union**
 - **Unified Patent Court**





- PWC Patent Litigation Study 2013 saw continued growth in patent actions filed and patents granted:
 - The annual number of patent actions filed has increased at an overall compound annual growth rate (CAGR) of 6.4 % since 1991
 - The number of patent actions filed in the US reached 5,189 in 2012—the highest number of annual filings ever recorded
 - 2012 continued the trend of high correlation between patent cases filed and patents granted by the USPTO.

Chart 1. Patent case filings and grants



Years are based on September year-end.

Sources: US Patent and Trademark Office: Performance & Accountability Report and US Courts: Judicial Facts & Figures

- Patent Office **hearings** or Court **orders** may result in **amendments to specifications** and/or **claims**
 - **Re-publication** by the national patent office may be **late or not at all**
- A **patent** which has been **tested in court** may be **perceived** as **stronger** than one which has not
 - Even if an **action failed**, it is **worth knowing** that it took place
- **Primary sources** of information:
 - **Dockets**, court diaries, transcripts, supporting documentation, **judgements**
 - **Scattered** sources, **variable** formats, **poorly** indexed, if at all
 - **Language** of proceedings
 - Comprehensive?
- **Secondary sources**:
 - Journals, **law reports**, commentaries
 - Some **consolidated sources** are more **standardised**, although still **poorly** indexed
 - Often a **common language** but usually **selective coverage**
 - **Only** applicable if **case went to trial**
- **Numerous fee-based** and some **free** online **resources**
 - Mostly covering **US cases only** e.g. **LexisNexis Courtlink**
 - **Some** claim to cover **international** but nowhere near **comprehensive**

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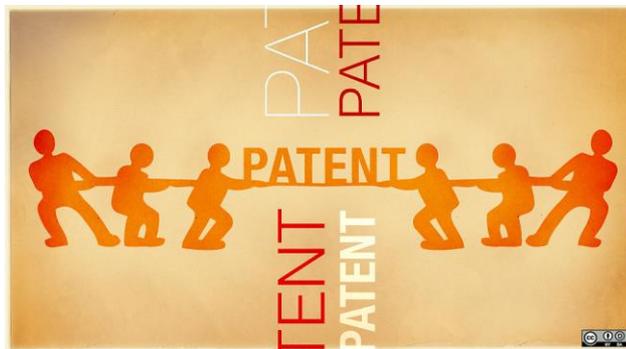
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- Why **Licensing** is in the news and of increasing **importance** to **patent searchers**
- **Trials**, especially those around **mobile devices**, are hitting the **news** everyday
- **Most** law suits concern alleged patent **infringement**
- But **some** involve the terms of so-called “**FRAND Licenses**”
 - “**Fair, Reasonable And Non-Discriminatory**”
- **Normal** for **companies** to have to **agree** to **licensing** a **patent** in **FRAND** terms
 - To **become part** of a **standards body** approved technical standard
- A **company** obtaining a **patent** covering the **implementation** of a **standard** able to **exert** significant **leverage** over the **market** for products that **implemented the standard**
- Companies **sometimes** have **different views** of what constitutes **FRAND**
 - **Lack of agreement** has led to an **increasing** number of **litigation** claims
 - **Motorola** fined **\$14.5 million** for failing to license **Standard Essential Patent (SEP)**, covering wireless and video technology, used in **Microsoft’s** games console **under FRAND** terms



- WIPO Survey
 - “The **availability** of **licensing** information is **limited** in most countries”
 - “Surprisingly, **57 registers** also disclose **information** related to **licenses**
 - The **range** of license **information** is quite **diverse** and appears to include **compulsory, exclusive** and **non-exclusive licenses**
- Assignment
 - An **assignment** involves the **sale** and **transfer** of **ownership** of the patent by the assignor to the **assignee**
 - This **transfer** of ownership is **permanent** and **irrevocable**
 - **Some** good patent **assignment databases (US, CA)** exist
- Licensing
 - Licensing **occurs** when a licensor **grants exploitation rights** over a patent to a licensee
 - A **license** is also a **legal contract**
 - **Sets** out the **terms** upon which the exploitation **rights** are granted
 - Being a contract, **the failure to comply** with terms may lead to the **termination** of the **license**
 - A **license** is therefore **revocable**
- With a few **notable exceptions**, good **licensing databases** are **rare!**

- Despite the huge growth, task is far from completed
- Need to improve coverage, quality and timeliness of existing full text databases
- Better coverage of Latin America, ASEAN, Middle East and African countries
- Comprehensive, timely and consistent coverage of Legal Status data should be achievable
- Considerable challenge but also scope to improve access to Litigation and Licensing information
- The next 5 years promises to be every bit as exciting as the previous 30!

- **Eric van Stegeren: LexisNexis**
 - LNU Content Repository Statistics
- **Stephen Adams: Magister Ltd**
 - Various Presentations and Personal Discussions
- **Michael Blackman: World Patent Information**
 - Various articles – Elsevier B.V.