



**الملكية الفكرية**  
**Intellectual Property**



Jan 01 201

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# Intellectual Property Importance

- IP is considered the official and legal way to protect and support innovation and ideas whether in industrial property or literary and artistic property.
- Industrial property and in particular ‘patents’ is considered one of the most important reasons for technology transfer and the economical and industrial development around the world.
- WIPO indicate that there is a huge increase in patents filing from 800,000 in early 80’s to more than 2,9 million in 2015 on Strong Growth From China; Demand Also Increased for Other Intellectual Property Rights.
- Innovators in China powered global patent applications to a new record in 2015, filing more than a million applications for the first time ever within a single year amid rising worldwide demand for intellectual property rights that undergird economic activity.

# PATENTS

## TOP 5 PATENT OFFICES



## HIGHEST APPLICATION GROWTH RATES

CHINA	+18.7% ↗
INDONESIA	+14.1% ↗
RUSSIAN FED.	+12.9% ↗
MEXICO	+12.0% ↗
AUSTRALIA	+10.2% ↗

APPLICATIONS FILED

**2.9 MILLION**  
+7.8%

PATENTS GRANTED

**1.2 MILLION**  
+5.2%

**1 Million+**

China is the first office to have received a million applications in a single year

## Plans of King Saud University

- Eight years ago KSU decided to become a top tier educational institution.
- Emphasis on research, science, innovation, inventions, patents which eventually evolved into Knowledge Exchange and technology transfer.
- KSU started taking actions to improve its faculty, student body, curriculum and infra structure to fulfill it's vision and mission to gain top rankings.

## History of Research Activities at KSU

- Historically, research at KSU has always followed the ‘publication only’ path.
- This path alone does not guarantee that the public will benefit from the innovative ideas developed at KSU.
- Very little of the work published by KSU constituents has found its way to the public in the form of tangible results or products.
- **The missing link is: transferring the technology developed at KSU to the public for the benefit of society.**
- KSU decided to establish Intellectual Property & Technology Licensing Program (IPTL) in order to become the channel through which KSU inventors can obtain all methods of support for protecting, marketing and transforming their inventions into commercial and industrial products.

# IPTL's Mission & Goals

## ***Mission:***

Facilitate patent registration and technology licensing for KSU staff and the public.

## ***Goals:***

- Protect intellectual property rights of the university.
- Serve society and contribute to the national economy through the introduction of solutions and innovations with high economic value.
- Promote the culture of innovation and increase awareness of its importance among KSU staff in specific and the public in general.

# Benefits to Inventors

## *Financial Rewards:*

- The inventor(s) will receive generous royalties for licensed inventions (60%).
- Up to 40% increase in monthly salary.

## *Other Benefits:*

- Recognition.
- Patents count towards academic promotion.
- Expansion of the inventor's contact with the industry, especially during the marketing, licensing, and commercialization phases.



# Technology Transfer Process

## Commercializing Government/University Research

- **Benefits to Government**

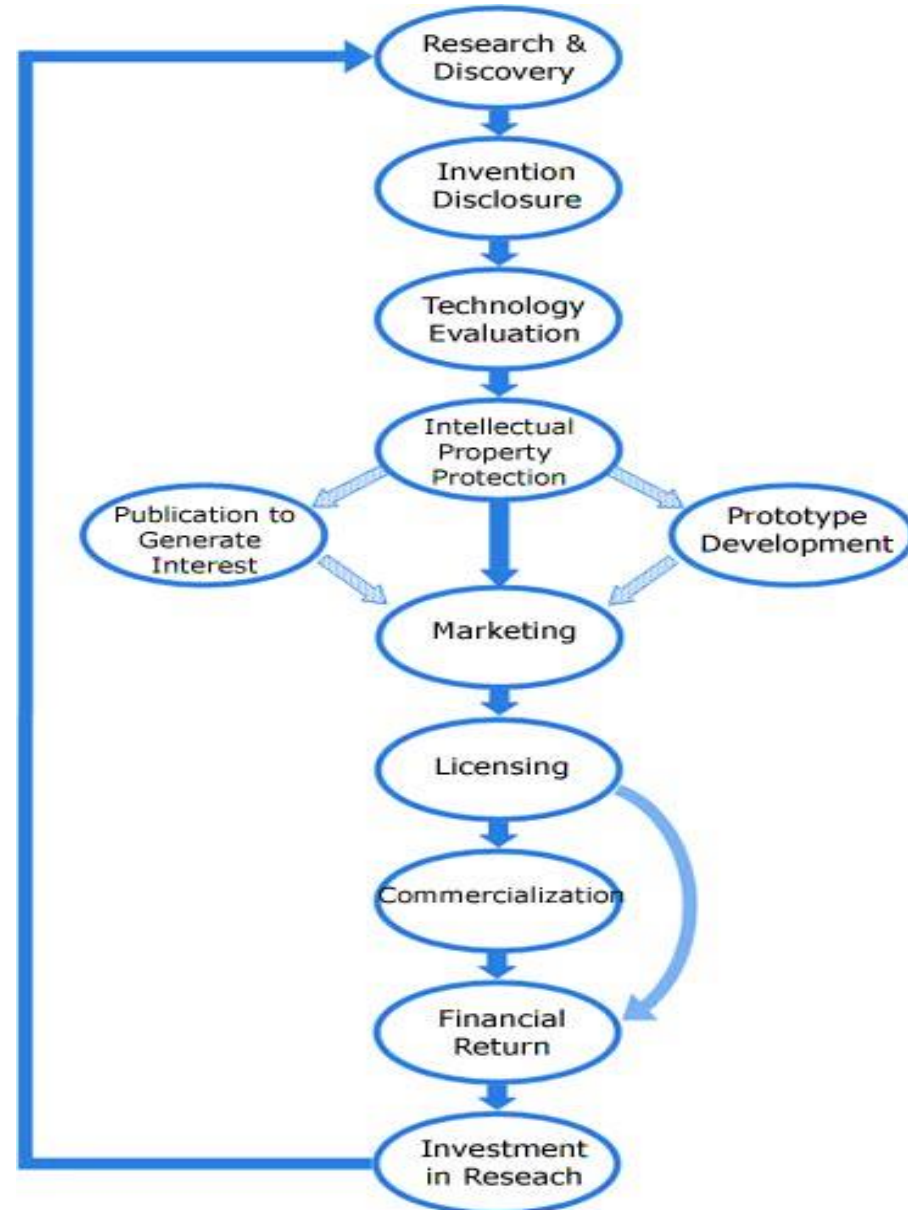
- Development of industrial capabilities
- Development of economic base (jobs/wealth)

- **Benefits to Universities**

- Royalties to fund research/other activities
- Justification for future government grants
- Improved reputation (attract faculty, students & donors)

- **Benefits to Industry**

- Access to excellent facilities and talent
- Ability to exploit research without upfront investment



# Patents & Technology Transfer

**Invention:** An idea developed by the inventor that results in a solution of a certain problem in the field of technology.

**Protection document:** The document granted by the SPO for one of the subject matters of protection. It may either be a **patent**, a certificate of layout design, a plant patent, **or a certificate of an industrial design.**

**Source;** Law of Patents, Layout Designs of Integrated Circuits, Plant Varieties, and Industrial Designs, (promulgated by Royal Decree No. M/27 of 29/5/1425H (July 17, 2004)).

[http://www.wipo.int/wipolex/en/text.jsp?file\\_id=1295](http://www.wipo.int/wipolex/en/text.jsp?file_id=1295)

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# The Criteria for Obtaining a Patent

A patent may be issued on an invention, in accordance with the provisions of this Law, if it is new, involves an inventive step, and capable of industrial application. The invention may be a product, a process or relates to either.

## ***Novelty:***

An invention is new if it is not anticipated by prior art. In this respect, prior art means all that is disclosed to the public anywhere by means of written or oral disclosure, by use or by any other way through which knowledge of the invention is realized. This has to be prior to the filing date of the patent application or the priority application. The disclosure of the invention to the public shall not count if it takes place during the priority period. The Regulations shall specify other cases of invention disclosure which do not fall within the meaning of prior art and the provisions governing temporary protection of inventions.

**Source;** Law of Patents, Layout Designs of Integrated Circuits, Plant Varieties, and Industrial Designs, (promulgated by Royal Decree No. M/27 of 29/5/1425H (July 17, 2004)).

# The Criteria for Obtaining a Patent

## ***Inventive Step:***

An invention is deemed to involve an inventive step if, with regard to prior art related to the patent application, it is not obvious to a person with ordinary skills in the art.

## ***Industrially applicable:***

An invention is deemed industrially applicable if it can be manufactured or used in any type of industry or agriculture, including handicrafts, fishing and services.

**Source;** Law of Patents, Layout Designs of Integrated Circuits, Plant Varieties, and Industrial Designs, (promulgated by Royal Decree No. M/27 of 29/5/1425H (July 17, 2004)).

# Patent Ownership

*Law of Patents, Layout Designs of Integrated Circuits, Plant Varieties, and Industrial Designs, (promulgated by Royal Decree No. M/27 of 29/5/1425H (July 17, 2004)).*

## Article Six:

- (a) The employer shall be the owner of the protection document, unless the work contract stipulates otherwise, where its subject matter results from the execution of a contract, or an obligation providing for exerting efforts to develop it, or if the employer proves that the employee would not have developed the subject matter of the protection had he not used facilities, means or data made available through his employment.
- (b) This shall be without prejudice to the employee's right to receive a special award to be agreed upon with the consent of both parties, or assessed by the Committee in light of the various circumstances of the contract of employment, and the economic importance of the subject matter of the protection. Any special agreement depriving the employee of this right shall be null and void.
- (c) An application for a protection document filed by the employee within two years from the date of termination of employment shall be deemed as if submitted during the employment.
- (d) The previous provisions shall apply to government employees.
- (e) If the subject matter of protection developed relates to national security, it shall be governed by the provisions stipulated in the Implementing Regulations.

# Patent Ownership

## *Intellectual Property and Technology Licensing Program Bylaws at King Saud University*

### **Article 20:**

KSU shall be the proprietor of all patents filed by inventors of its employees or students if they reach such inventions while practicing their regular functional or academic duties; or because of the financial, technical or material support granted to them directly by KSU or as a result of using KSU equipment, tools, labs, incubators or research chairs.

According to provisions of paragraph 2 of article 4 of these bylaws, any patents filed via the Program shall be KSU Property.

### **Article 21:**

Taking into consideration the provisions of article 20, KSU has the sole rights of property to the invention, and can exploit it commercially or industrially by all legal methods. KSU may, upon recommendation of University Council, assign all or some of such rights in return of money or free of charge.

### **Article 22:**

Inventor shall have the right of Property to his invention and all other indirect rights in the following cases:

If Program Management resolves to reject filing the invention, unless the rejection was due to negligence or deliberate default from the applicant.

If the inventor has accomplished his invention before joining KSU.

If the inventor proves to Program Management that he has accomplished his invention using his own resources and efforts, and did not get any financial, technical or material support from KSU.

# Where Do I Start?

- Fill an “Invention Disclosure” as soon as you think that you have a patentable and marketable idea.
- The Invention Disclosure is available at Inventors Portal by the IPTL site or online link at:

**[www.iptl.ksu.edu.sa](http://www.iptl.ksu.edu.sa)**

- You can also e-mail us at:

**[iptl@ksu.edu.sa](mailto:iptl@ksu.edu.sa)**

**NEW ..**

# **E-PATENT SYSTEM**



# E-PATENT SYSTEM

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# E-PATENT SYSTEM

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## بيانات الدخول

نتشرف بتسجيل سيادتكم فى "نظام الملكية الفكرية" بيانات الدخول الخاصة بك :  
هي

إسم المستخدم : hany.arab@hotmail.com

كلمة المرور : Ksnu41u

برجاء الدخول الى النظام عبر الرابط التالى

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Hany Hassan Abu Arab

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الملكية الفكرية  
Intellectual Property

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Title of Invention in Arabic

Title of Invention in English

Inventor Information (1)

Identity Type

Identity Card

Identity Number

222222222

Proof of identity Attachment

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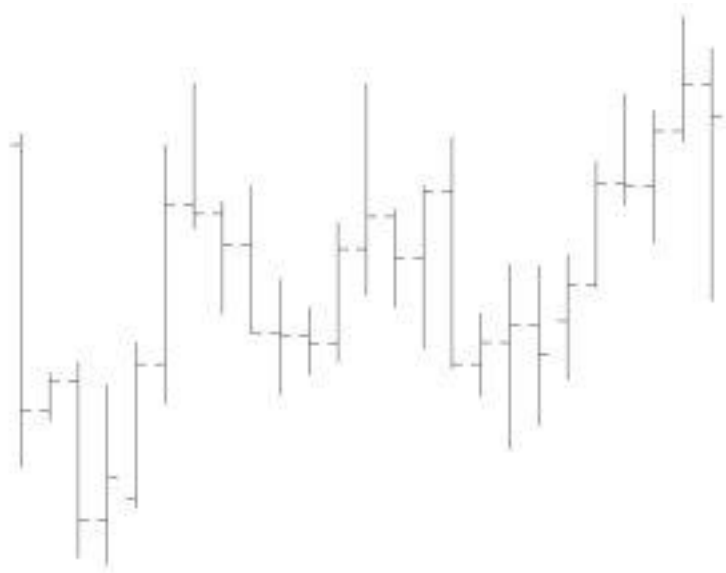
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**The Inventor(s) should fill the invention disclosure form, and he/she is kindly requested to provide full information about the invention including all the results and figures, and he/she should attach any other relevant documents and references with the invention. Then, SUBMIT.**





# Statistics & Results

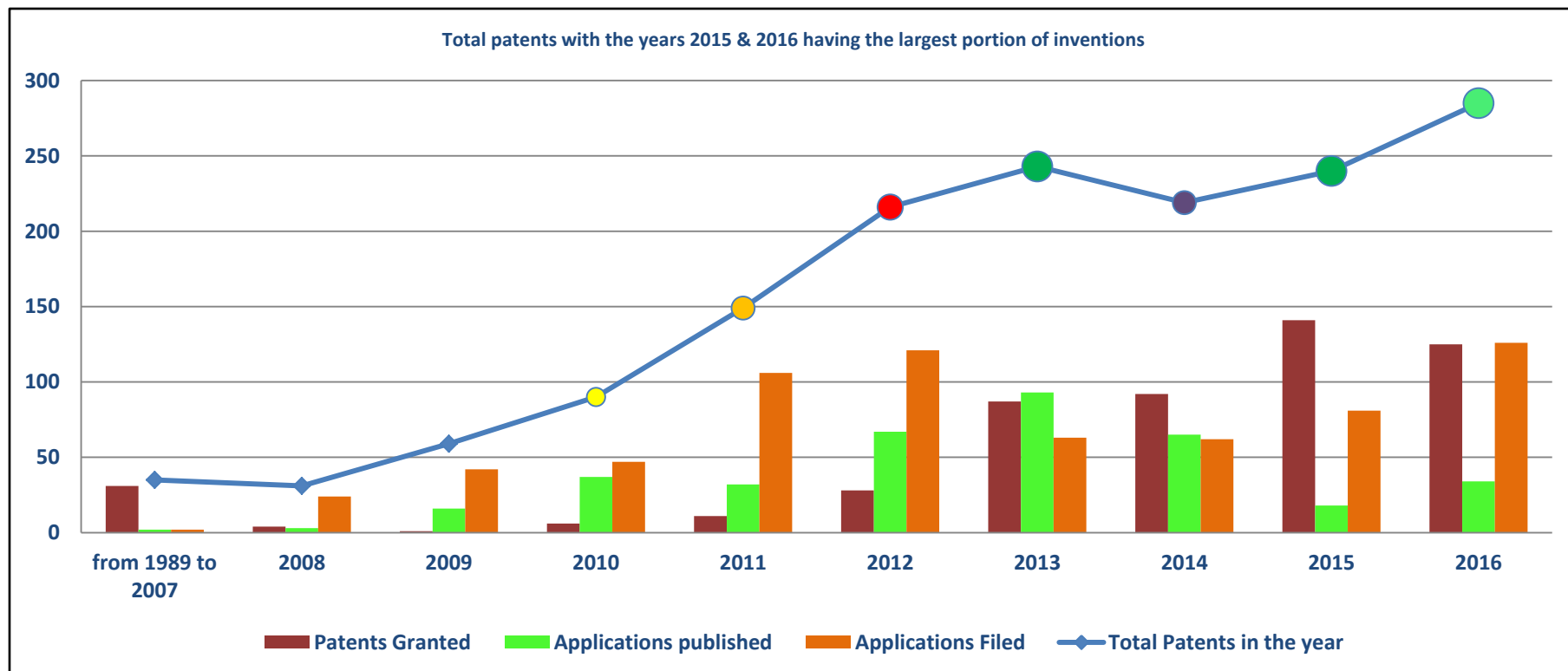


## Intellectual Property & Technology Licensing Program in brief statistics

- More than **819** patent applications filed in various patent offices.
- Average patent filing
  - 1988 – 2007 (**2,35** patent per year).
  - 2008 – 2016 (**92,41** patent per year).
- USPTO represents the largest share in the total number of patents with **350** patents, by about **42,73%** of the total KSU's patents.
- A higher ownership percentage of KSU to the patent rights to **94,01%** instead of **2,35%** before the establishment of the IPTL Program.

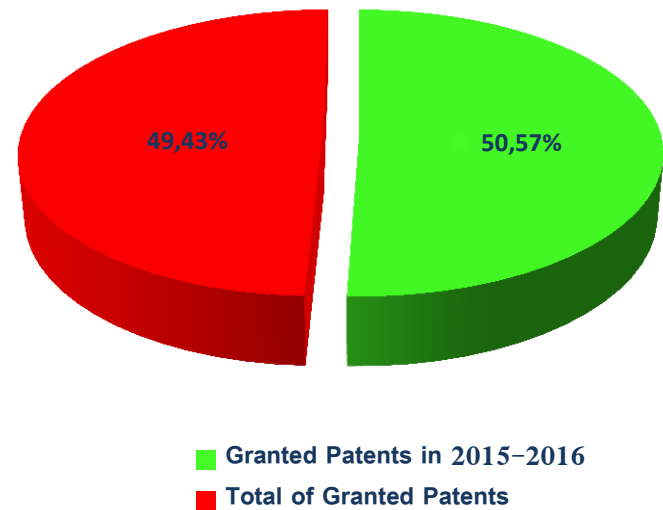
# Rate of Patent Filing Increased More Than Forty Fold

Total of Patents	The year									
	2008 <	2008	2009	2010	2011	2012	2013	2014	2015	2016
Granted Patents	031	004	001	006	011	028	087	092	141	125
Patent Applications Published	002	003	016	037	032	067	093	065	018	034
Patent Applications Filed	002	024	042	047	106	121	063	062	081	126
<b>TOTAL</b>	<b>035</b>	<b>031</b>	<b>059</b>	<b>090</b>	<b>149</b>	<b>216</b>	<b>243</b>	<b>219</b>	<b>240</b>	<b>285</b>



## A Big Leap for King Saud University in 2015 and 2016

- KSU was granted 266 patents, bringing the number of patents granted to KSU to 526 patents, which are distributed in Saudi Patent Office, GCCPO, and USPTO, as well as Canada, China, Japan and EPO with the validation in Germany, France and Great Britain.



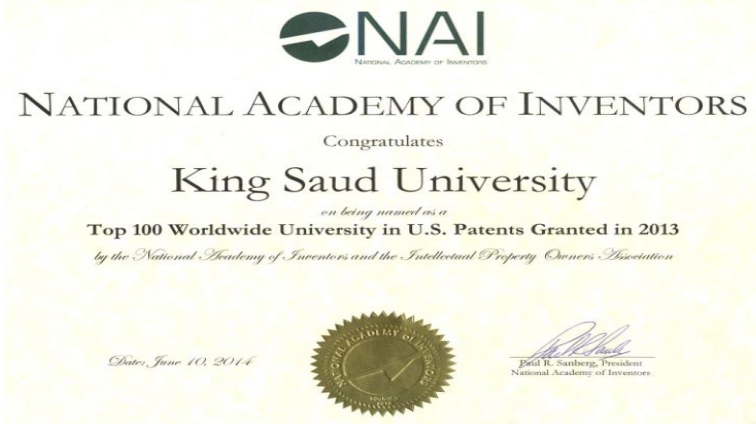
Hence, the 2015 and 2016 represents the highest rate of granted patents to KSU of up to 50,57% of the total of granted patents.

# KSU

## In the Top 50 Worldwide Universities Granted US Utility Patents

- KSU was ranked (49) in the top 100 worldwide universities granted US utility patents in 2015 with total (43) US utility patents, which already it was ranked (63) in 2014 with total (33) US utility patents. It was also that in 2013, KSU was ranked (74) with total (27) US utility patents.

- KSU will be among the top (40) worldwide universities granted patents with total (+60) US utility patents.



52	YEDA RESEARCH AND DEVELOPMENT CO., LTD.	41
53	UNIVERSITY OF MASSACHUSETTS	40
54	POSTECH ACADEMY-INDUSTRY FOUNDATION, INC.	39
55	ACADEMIA SINICA	37
56	KING ABDULAZIZ CITY FOR SCIENCE AND TECHNOLOGY (KACST)	37
57	KYOTO UNIVERSITY	37
58	UNION UNIVERSITY	36
59	NATIONAL CENTRAL UNIVERSITY	35
60	THE UNIVERSITY OF TOKYO	35
61	TRIESTE UNIVERSITY	34
62	THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY	34
63	MICHIGAN STATE UNIVERSITY	33
64	KING SAUD UNIVERSITY	33
65	UNIVERSITY OF ARKANSAS	32
66	UNIVERSITY OF KENTUCKY RESEARCH FOUNDATION, INC.	32
67	UNIVERSITY OF VIRGINIA ALUMNI PATENTS FOUNDATION, INC.	32
68	VALE UNIVERSITY	32
69	OHIO STATE UNIVERSITY/THE OHIO STATE UNIVERSITY RESEARCH FOUNDATION	32
70	ROYAL STATE UNIVERSITY RESEARCH FOUNDATION, INC.	31
71	UNIVERSITY OF SOUTH CAROLINA	31
72	WASHINGTON UNIVERSITY	31
73	FLORIDA STATE UNIVERSITY	30
74	TEXAS A&M UNIVERSITY	30
75	UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC.	30
76	UNIVERSITY OF MISSOURI	30
77	YOSUDA RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM	30
78	UNIVERSITY OF BRITISH COLUMBIA	29
79	UNIVERSITY OF KANSAS	28
80	OSAKA UNIVERSITY	28
81	UNIVERSITY OF CALIFORNIA, THE REGENTS OF	28
82	UNIVERSITY OF MARYLAND	28
83	NATIONAL CHENG KUNG UNIVERSITY	28
84	RESEARCH FOUNDATION OF STATE UNIVERSITY OF NEW YORK	28
85	UNIVERSITY OF TEXAS	28
86	UNIVERSITY OF UTAH RESEARCH FOUNDATION	28
87	UNIVERSITY OF MASSACHUSETTS	28
88	INSTITUTE OF MICROELECTRONICS, CHINESE ACADEMY OF SCIENCES	28
89	JOHNS HOPKINS UNIVERSITY	28
90	COLUMBIA UNIVERSITY	28
91	UNIVERSITY OF MICHIGAN	28
92	HARVARD COLLEGE, PRESIDENT AND FELLOWS	28
93	KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY	28
94	UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED	28
95	KING SAUD UNIVERSITY OF PETROLEUM AND MINERALS	28
96	PURDUE RESEARCH FOUNDATION	28
97	NATIONAL TONG HUI UNIVERSITY	28
98	CORNELL UNIVERSITY/CORNELL RESEARCH FOUNDATION, INC.	28
99	UNIVERSITY OF ILLINOIS	28
100	UNIVERSITY OF PENNSYLVANIA	28
101	UNIVERSITY OF WASHINGTON	28
102	UNIVERSITY OF SOUTH FLORIDA	28
103	UNIVERSITY OF CHICAGO/CHICAGO ARGONNE LLC	28
104	NORTHWESTERN UNIVERSITY	28
105	NEW YORK UNIVERSITY/FREEDMAN INSTITUTE OF NEW YORK UNIVERSITY	28
106	GEORGIA TECH RESEARCH CORP.	28
107	NATIONAL TAIWAN UNIVERSITY	27
108	UNIVERSITY OF CENTRAL FLORIDA	27
109	UNIVERSITY OF ROCHESTER	27
110	INDIANA UNIVERSITY RESEARCH AND TECHNOLOGY CORPORATION	27
111	RAMBAT AT TEL AVIV UNIVERSITY LTD.	27
112	UNIVERSITY OF SOUTHERN CALIFORNIA	27
113	UNIVERSITY OF MINNESOTA	27
114	THE REGENTS OF	27
115	SCIENCE & TECHNOLOGY CORPORATION AT ARGONNE LLC	27
116	KING SAUD UNIVERSITY	27
117	TRIESTE UNIVERSITY	27
118	INDUSTRY ACADEMIC COOPERATION FOUNDATION YONSEI UNIVERSITY	27

This report listing the Top 100 Worldwide Universities that received the most U.S. utility patents is published by the National Academy of Inventors and the Intellectual Property Owners Association. The methodology provided in the factsheet on the back of this U.S. Patent and Trademark Office. Patents reported are utility patents granted during the 2014 calendar year. When a patent is assigned to more than one address, credit is given to the first responsibility for the invention, and you have responsibility for that address combined with your university assignment in the future. Contact: [naiv@naiv-academy.com](mailto:naiv@naiv-academy.com)

Top 100 Worldwide Universities Granted U.S. Utility Patents in 2015		
1	UNIVERSITY OF CALIFORNIA, THE REGENTS OF	40
2	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	39
3	STANFORD UNIVERSITY	38
4	UNIVERSITY OF TEXAS	37
5	TSINGHUA UNIVERSITY	36
6	CALIFORNIA INSTITUTE OF TECHNOLOGY	35
7	MICHIGAN STATE UNIVERSITY	34
8	JOHNS HOPKINS UNIVERSITY	33
9	COLUMBIA UNIVERSITY	32
10	UNIVERSITY OF MICHIGAN	31
11	HARVARD COLLEGE, PRESIDENT AND FELLOWS	30
12	KOREA INSTITUTE OF SCIENCE AND TECHNOLOGY	29
13	UNIVERSITY OF FLORIDA RESEARCH FOUNDATION, INCORPORATED	28
14	KING SAUD UNIVERSITY OF PETROLEUM AND MINERALS	27
15	PURDUE RESEARCH FOUNDATION	26
16	NATIONAL TONG HUI UNIVERSITY	25
17	CORNELL UNIVERSITY/CORNELL RESEARCH FOUNDATION, INC.	24
18	UNIVERSITY OF ILLINOIS	23
19	UNIVERSITY OF PENNSYLVANIA	22
20	UNIVERSITY OF WASHINGTON	21
21	UNIVERSITY OF SOUTH FLORIDA	20
22	UNIVERSITY OF CHICAGO/CHICAGO ARGONNE LLC	19
23	NORTHWESTERN UNIVERSITY	18
24	NEW YORK UNIVERSITY/FREEDMAN INSTITUTE OF NEW YORK UNIVERSITY	17
25	GEORGIA TECH RESEARCH CORP.	16
26	NATIONAL TAIWAN UNIVERSITY	15
27	UNIVERSITY OF CENTRAL FLORIDA	14
28	UNIVERSITY OF ROCHESTER	13
29	INDIANA UNIVERSITY RESEARCH AND TECHNOLOGY CORPORATION	12
30	RAMBAT AT TEL AVIV UNIVERSITY LTD.	11
31	UNIVERSITY OF SOUTHERN CALIFORNIA	10
32	UNIVERSITY OF MINNESOTA	9
33	THE REGENTS OF	8
34	SCIENCE & TECHNOLOGY CORPORATION AT ARGONNE LLC	7
35	KING SAUD UNIVERSITY	6
36	TRIESTE UNIVERSITY	5
37	INDUSTRY ACADEMIC COOPERATION FOUNDATION YONSEI UNIVERSITY	4

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# Technology Licensing

- Composition Comprising Nanoparticles and a Method for the Preparation Thereof: This product is protected at the SPO, EPO and USPTO. It is distinguished among other products in the market because of its the low cost, safety, concentration, effectiveness and multi-purpose medical and industrial applications.
- KSU is at the final stage to sign a contract with a European company to license one of the IPs which is related to renewable energy technology.
- KSU will examine all of its IPs and then will support the eligible ones to enter the market using domestic and foreign assessment.
- KSU will try to accelerate the process of getting revenues from its IPs either by licensing them, selling them or transforming them to emerging companies which can form joint venture with domestic or foreign companies.



# THANK YOU

## Contact Info.

Please refer to IPTL'S BYLAWS and THE INVENTOR'S GUIDE available at:  
[iptl.ksu.edu.sa](http://iptl.ksu.edu.sa)

*Please contact IPTL on:*

- Phone: +966 11 469 3116 , +966 11 469 3117
- E-mail: [iptl@ksu.edu.sa](mailto:iptl@ksu.edu.sa)
- Website: [iptl.ksu.edu.sa](http://iptl.ksu.edu.sa)