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# VEPACHEDU EDUCATIONAL FOUNDATION

## The Andhra Journal of Industrial News

### IP and Industry News

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#### **BRICKs and G7**

Brazil, Russia, India, China and South Korea—the BRICK nations—have repeatedly been noted for their growing influence in the global economy and research landscape, and are often referred to as "emerging." In 1973, about two-thirds of the nearly 400,000 research publications indexed by Thomson Reuters Web of Knowledge had an author in one of the G7 countries. Today, this has changed dramatically. Four times as many documents—more than 1.75 million journal publications—are being indexed, and barely half will have a G7 author. The volume of publications with at least one G7 author may have trebled over that period, but the volume on which no G7 country is represented has gone up six-fold. A significant part of that change is attributable to rapid research growth in BRICK nations.

A Thomson Reuters study finds that China and South Korea have made larger investments, produced more published research and filed a greater number of patent applications over the past decade than the rest of the group. The strong culture of intellectual property protection and broad-based economic growth

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in these nations has resulted in more literature citations, on par with some European Union countries. The research also unveiled that each BRICK nation has its own, unique profile. For example, while South Korea is prominent in materials and computer science, Brazil's focus is on agriculture, plant and animal sciences.

Following are some key observations in the report:

**China's and South Korea's R&D Investments Soar:** Industrial confidence, as measured by the total percentage of business spending on R&D, in China and South Korea has reached new highs. Between 2000 and 2010, China saw its total business expenditure on R&D grow from 59.96% of gross national expenditure on R&D to 74.45%. South Korea had an even higher level of business investment in R&D, reaching 74.8% of gross national R&D expenditure by 2010.

**China, South Korea Contribute to Global Patent Surge:** In 2010, China and South Korea accounted for 84 percent of all BRICK patent filings, helping to drive overall growth of 14.9 percent in patent filings worldwide over the five years between 2006 and 2010. Not only did China file the most patents globally (526,412), but it has shown double digit year-on-year growth since 2009, ultimately reflecting six times as many patents as it filed a decade ago.

**BRICKs Increase Scientific Research:** In 2000, China produced roughly 25,000 research papers per year. In 2011, its output exceeded 150,000: a 600 percent increase. With this increase comes high academic value as well. In 2010, China filed over 1,000 papers that were cited in the top one percent for their subject.

**Russia Excels in Physical Sciences:** Scientific literature output in Russia is most active in the fields of physics, space science and geosciences, with physics leading in the area of the most citations to scientific literature as well. In terms of patent innovation, Russia is most active in the field of nucleonics, a reflection of its dependence on nuclear energy.

**India Leads in Pharmaceutical Innovation; Brazil in Petroleum and Agriculture Chemicals:** Of all the BRICK nations, India is by far the leader in terms of pharmaceutical patent activity, with

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approximately twice as much activity as the next closest BRICK country, Russia. Brazil is most active in petroleum-related and agricultural chemical patents, outpacing all other BRICK nations in these areas.  
<http://sciencewatch.com/sites/sw/files/sw-article/media/grr-brick.pdf>

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#### **Artificial Pancreas**

Israeli researchers just released the findings from an overnight trial of their artificial pancreas system at three different camps for youngsters with type 1 diabetes. The artificial pancreas system was able to maintain better [blood sugar levels](#), and helped prevent dangerous overnight drops in blood sugar levels, compared to an insulin pump and a continuous glucose monitor, according to the study.

Type 1 diabetes is an autoimmune disease in which the body's immune system turns against healthy cells. In type 1 diabetes, the immune system attacks beta cells in the pancreas, effectively destroying the body's ability to produce the hormone insulin. Insulin helps metabolize carbohydrates from food and fuels the body's cells.

Insulin can't be replaced with a pill. It must be injected with a shot or delivered by a pump that uses a tiny catheter inserted under the skin. This catheter must be changed every few days. The problem with both techniques is that people have to estimate how much insulin they'll need based on the foods they eat and how much activity they'll be doing.

An artificial pancreas could potentially solve those problems by taking over the decision-making process and applying sophisticated computer algorithms to decide how much insulin is needed at any given moment. But, it has to be able to continuously detect patients' blood sugar levels and know whether the levels are trending up or down. There also has to be a piece of the device that holds and delivers insulin. Right now, most artificial pancreas devices, including the one tested in this study, use already-available insulin pumps and continuous glucose monitors. Such monitors measure blood sugar levels every few minutes with a sensor that's inserted under the skin, and send the results to a transmitter.

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#### **Top 10 Medical Device Company**

The list of 2012's top 10 device companies in terms of revenue, as compiled by [EvaluateMedTech](#), illustrates those year-over-year gains and struggles. For many of the top companies, medical devices generate only a piece of their overall revenue.

- 10 Boston Scientific
- 9 Stryker
- 8 Philips
- 7 Abbott Laboratories
- 6 GE Healthcare
- 5 Covidien
- 4 Roche
- 3 Medtronic
- 2 Siemens
- 1 Johnson & Johnson

<http://www.fiercemedicaldevices.com/signup?sourceform=Viral-Tynt-FierceMedicalDevices-FierceMedicalDevices>

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#### **Patent Term Calculator**

The United States Patent and Trademark Office does not calculate expiration dates for patents. In response to patent owner and public inquiry, the USPTO is providing a downloadable patent term calculator (beta version) as a resource to help the public estimate the expiration date of a patent. The calculator can be used to estimate the expiration dates of utility, plant, or design patents. The calculator contains prompts to enter specific information related to the patent in order to help in estimating expiration dates. This information can be obtained from USPTO's online systems, links to which are provided below. [http://www.uspto.gov/patents/law/patent\\_term\\_calculator.jsp](http://www.uspto.gov/patents/law/patent_term_calculator.jsp)

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#### **The IP Awareness Assessment Tool**

The IP Awareness Assessment Tool enables users to measure and increase their awareness of IP issues, relevant to their creative projects and business goals. Users answer a comprehensive set of questions

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regarding IP, after which the tool provides a set of training resources tailored to specifically identified needs. The tool is available on USPTO's website at [www.uspto.gov/inventors/assessment/](http://www.uspto.gov/inventors/assessment/).

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Om! Asatoma Sadgamaya, Tamasoma Jyotirgamaya, Mrityorma Amritamgamaya, Om Shantih, Shantih,  
Shantih!

(Aum! Lead the world from wrong path to the right path, from ignorance to knowledge, from mortality to immortality, and peace!)

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