

## **IBM Breaks Records to Top U.S. Patent List for 25th Consecutive Year**

### **IBM Inventors Receive Record 9,043 Patents in 2017 in Areas such as Artificial Intelligence, Cloud, Blockchain, Cybersecurity and Quantum Computing**

**ARMONK, NY - 09 Jan 2018:** IBM (NYSE: [IBM](#)) inventors received a record 9,043 patents in 2017, marking the company's 25th consecutive year of U.S. patent leadership and crossing the 100,000-patent milestone. The new patents were granted to a diverse group of more than 8,500 IBM researchers, engineers, scientists and designers in 47 different U.S. states and 47 countries.

"For the past 25 years, IBM's patent leadership has changed the way the world works with advancements critical to the modern era of computing," said Ginni Rometty, IBM chairman, president and CEO. "Today, nearly half of our patents are pioneering advancements in AI, cloud computing, cybersecurity, blockchain and quantum computing – and all are aimed at helping our clients create smarter businesses."

As more and more enterprises conduct business on the cloud, IBM inventors received in 2017 more than 1,900 cloud patents, including a patent for a system that uses unstructured data about world or local events to forecast cloud resource needs. The system can monitor data sources – including news feeds, network statistics, weather reports and social networks – to identify where and how cloud resources should be allocated to meet demand.

Another set of innovations helps solve one of artificial intelligence's current limits: lack of personalization, which can hinder how AI communicates with people. Among the industry-leading 1,400 AI patents IBM inventors were granted in 2017 is a patent for a system that can help AI analyze and mirror a user's speech patterns to improve communication between AI and humans.

IBM inventors also received 1,200 cybersecurity patents, including one for technology that enables AI systems to turn the table on hackers by baiting them into email exchanges and websites that expend their resources

and frustrate their attacks. It could substantially reduce the security risks associated with “phishing” emails and other attacks.

IBM inventors also patented significant inventions in emerging areas like quantum computing, including a new way for improving a quantum computer's ability to acquire and retain information – otherwise known as signal readout fidelity. This can lead to efficiency in the components necessary to build a quantum computing system.

Other patented innovations from IBM inventors in 2017 include:

- A machine learning system designed to shift control between an autonomous vehicle and a human driver as needed, such as in an emergency.
- A method that leverages blockchain technology to reduce the number of steps involved in settling transactions between multiple business parties, even those that are not trusted and might otherwise require a third-party clearinghouse to execute.
- A technique that automatically elevates the security protection of a mobile device when it determines that device is located far from its owner and is likely under someone else's control.

This year's milestone builds on more than 105,000 U.S. patents granted to IBM from 1993 to 2017. IBM inventors have received patents for such transformative ideas as secure credit card transactions, guiding the visually-impaired using RFID, the world's fastest supercomputers and earthquake detectors. <https://www.research.ibm.com/patents/#patents-through-the-years>

For more information about IBM's patent and innovation leadership, see [www.research.ibm.com/patents/](http://www.research.ibm.com/patents/)

*\* 2017 patent data sourced from IFI CLAIMS Patent Services: <http://www.ificlaims.com>*

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