

Samsung and TSMC become the biggest patent filers of the US in 2024 - Analysis of 730,000 Patents by GreyB

A record 730,000 patents in 2024 highlight US innovation, with leading companies driving advancements in AI, semiconductors, and sustainability.

SINGAPORE, SINGAPORE, SINGAPORE, January 27, 2025 /EINPresswire.com/ -- GreyB, a leader in intellectual property analysis, has released its comprehensive study of [US patent trends for 2024](#). The study reveals a dynamic year for innovation.



Approximately 730,000 patents were published, and 351,000 patents were granted in the United States. Samsung Electronics emerged as the top innovator, with 14,716 patents, followed by TSMC with 9,026.



Nearly 42% of U.S. patents are filed by foreign companies, proving the U.S. isn't just a market—it's a global hub where the world's most important innovations are safeguarded."

*Geetika Dube - Manager
Insights;Gate*

Key Insights from the Analysis

1. Leading Companies and Countries

- Samsung, Qualcomm, Apple, and Huawei demonstrate strong patent portfolios across diverse technology domains.

- US-based companies led patent filings, followed by innovators from Japan, China, and South Korea.

2. Contributions by SMEs

SMEs played a pivotal role in innovation, contributing to AI, advanced materials, and biotech, driving significant innovation. Notable SMEs, including Kepler Computing, Onno Technologies, Convida Wireless, and Advanced Micro Devices (AMD), focused on niche technologies and

sustainable advancements, collectively accounting for over 10% of patent filings.

3. Academic Contributions by Universities

Universities accounted for a significant share of patents in emerging fields, ensuring continued progress in R&D. The leading institutions include MIT, Stanford University, and Caltech. Their contributions spanned semiconductor innovation, data processing, and pharmaceutical advancements.

4. Which Law Firms Driving Patent Prosecutions

Patent law firms played an instrumental role in securing intellectual property rights. Firms such as Fish & Richardson, Finnegan, and Knobbe Martens led the way in patent prosecutions. Their expertise ensured the efficient handling of high-value patents, particularly in semiconductor devices, AI, and battery technologies.

5. Technology Focus

The top technology areas for 2024 patents include:

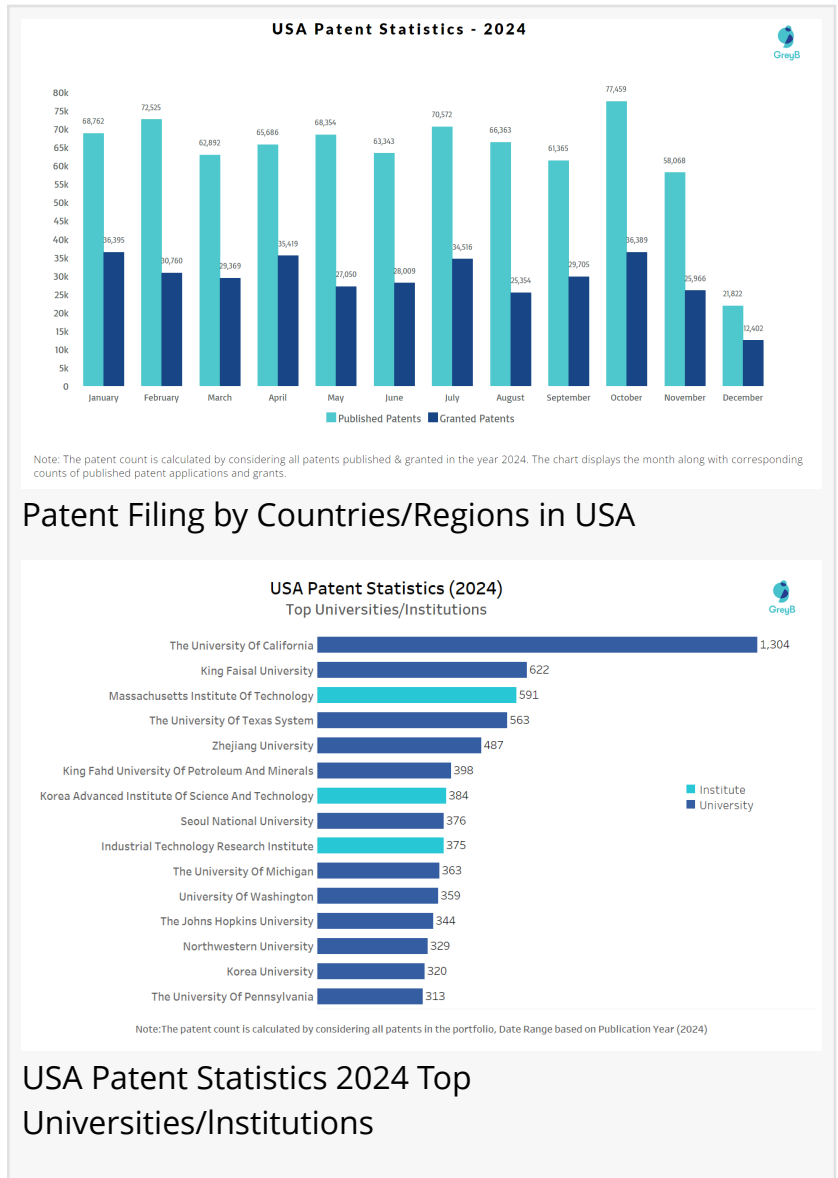
- Semiconductor Devices
- Battery Cell and Electrical Batteries
- AI-driven Data Processing Applications
- Pharmaceutical Active Ingredients

6. Spotlight on Female Innovators

A special spotlight is placed on female inventors who contributed significantly in 2024. Key figures include Xiaoxia Zhang from Qualcomm, with 539 patents, Molly Anderson from Apple, with 63 patents, and Diana Maamari, also from Qualcomm, with 47 patents. These women are shaping advancements in AI, biodegradable materials, and advanced electronics.

Industry Implications

The trends emphasize the growing role of SMEs, universities, and law firms in advancing US



USA Patent Statistics 2024 Top Universities/Institutions

innovation. With increasing attention to sustainability, advanced materials, and AI, sectors like healthcare, automotive, and consumer electronics continue to benefit from these contributions.

About GreyB

[GreyB Services](#) is a global pioneer in intellectual property solutions. Leveraging cutting-edge machine intelligence and human expertise, GreyB empowers global organizations to mitigate risks, secure patent litigation victories, and identify opportunities for innovation that align with business objectives.

Recognized for its pivotal role in high-stakes scenarios—including citations by the USPTO and EPO, as well as landmark cases like the Oppo-Nokia SEP dispute — GreyB offers specialized expertise in technology scouting, competitive benchmarking, freedom-to-operate assessments, and IP-based business strategy.

Read the whole analysis of [United States Patents](#) 2024

Deepak Kumar

GreyB

deepak.kumar@greyb.com

Visit us on social media:

[X](#)

[LinkedIn](#)

This press release can be viewed online at: <https://www.einpresswire.com/article/779634571>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable in today's world. Please see our Editorial Guidelines for more information.

© 1995-2025 Newsmatics Inc. All Right Reserved.