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**BIWEEKLY  
REPORT**

**PATENT CLASS  
ANALYSIS 2022 US  
PATENT FILINGS**

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DECEMBER 2022

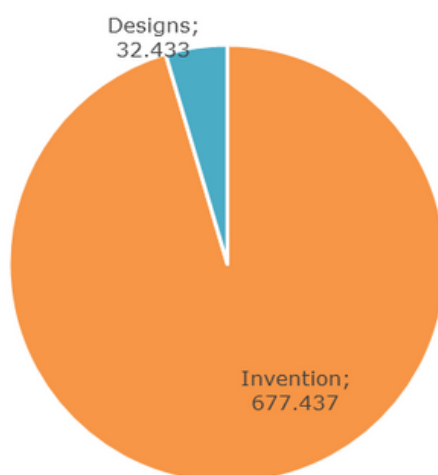
# INTRODUCTION

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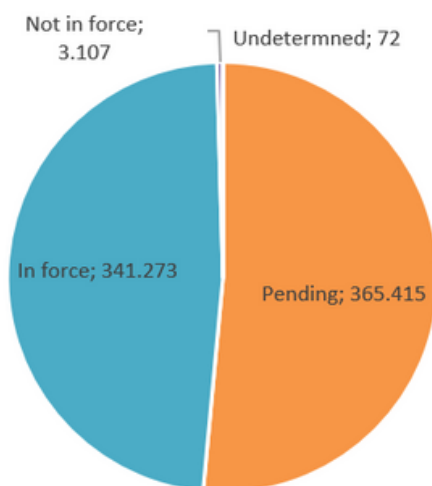
The patent application of the United States has always been one of the focuses of the world. So far, the United States has published more than 700,000 patents in 2022. What fields are these patents specifically related to? This report will be announced for you.

# GENERAL INFORMATION

As of December 12, 2022, the United States has published 709,870 patents this year, of which the vast majority are invention patents, accounting for 95.43% of the total volume of patents, and the remaining 4.57% are designs, as shown in **Figure 1**. At the same time, nearly half of the patents have been granted and are in force, while the other half are still pending, as shown in **Figure 2**.



**Figure 1 Patent types published in the United States in 2022**



**Figure 2 Legal status of Patent types published in the United States in 2022**

# GENERAL INFORMATION

In 2022, American patents are mainly come from the mainland, and Japan, China and South Korea is the countries with the largest number of patent applications besides the United States, as shown in **Figure 3**.

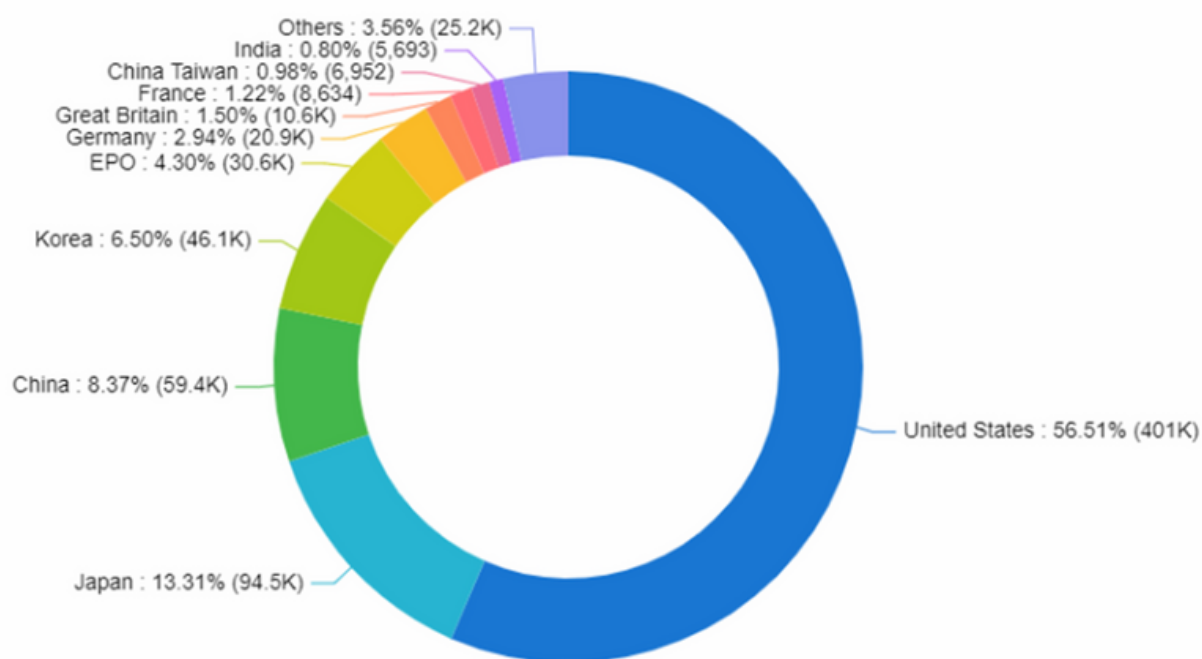


Figure 3 Top countries of origin

# PATENT CLASS ANALYSIS

## 1. TOP IPC

In general, the patents published by the United States in 2022 are mainly concentrated in the physical (IPC Section A) and electrical (IPC Section B) fields, and the number of patents is significantly higher than that in other fields, as shown in **Figure 4**. It reflects that the intellectual property competition in these two fields is more intense.

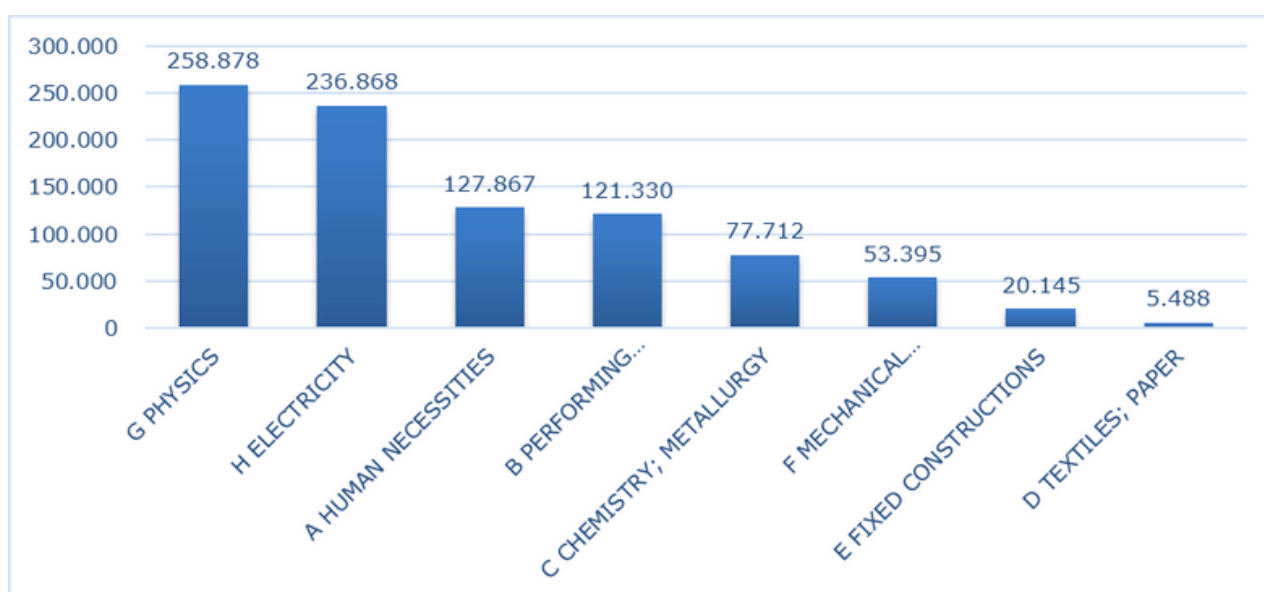


Figure 4 Patent applications in different IPC Sections

# PATENT CLASS ANALYSIS

From a more detailed view of the IPC technology field, the top 10 IPC classification numbers in the number of applications almost all come from the physical and electrical fields, among which the volume of patents for electronic digital data processing (IPC: G06F) is the largest, as shown in **Figure 5**.

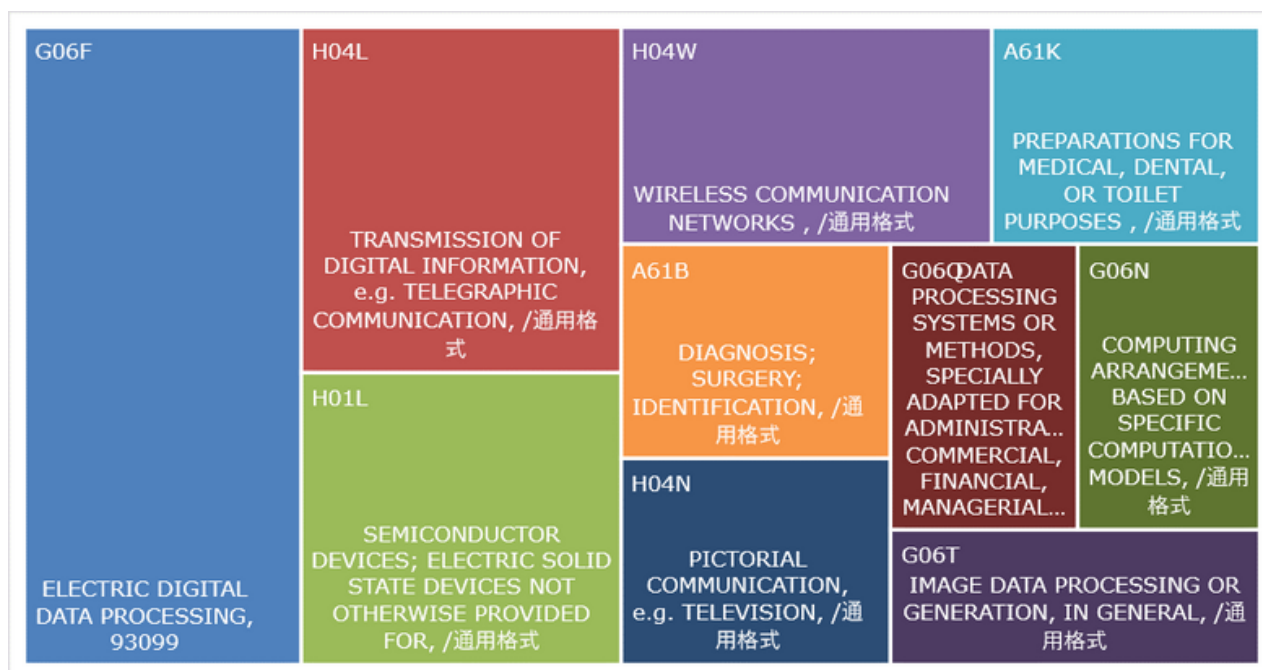
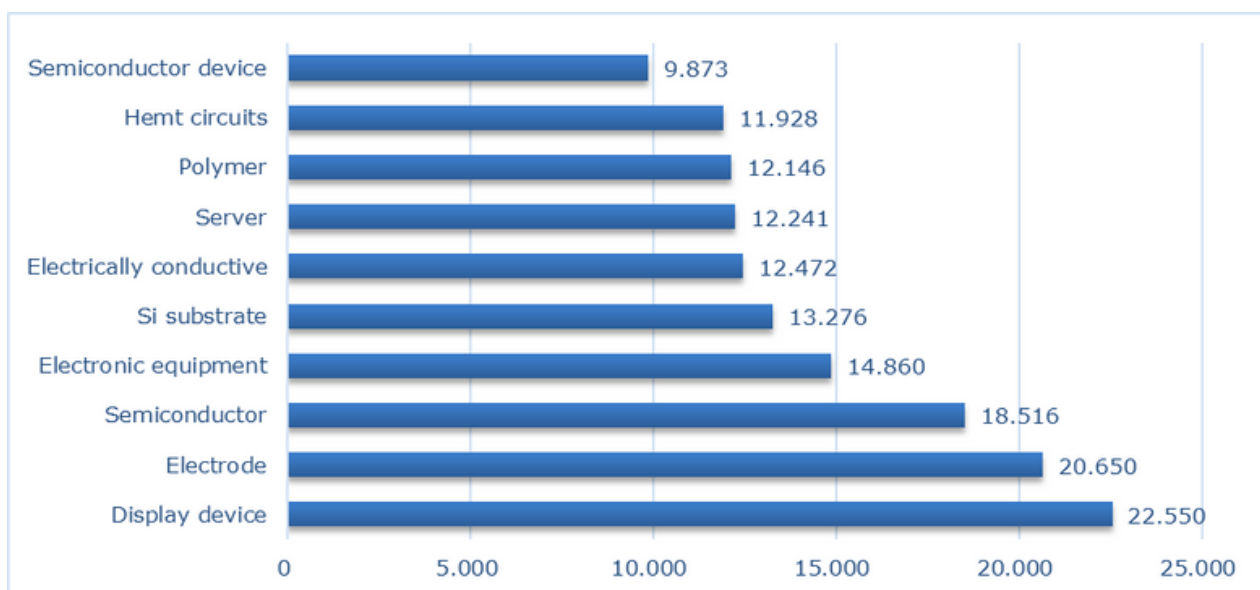


Figure 5 The top 10 IPC classification numbers

# PATENT CLASS ANALYSIS

## 2. TOP TECHNOLOGY TOPIC

From the perspective of specific technical topic, display devices, electrode and semiconductor are the technical topics with the largest volume of patents, followed by electronic devices, Si substrates, etc., and the top 10 technical topics belong to the high-tech field, as shown in **Figure 6**.

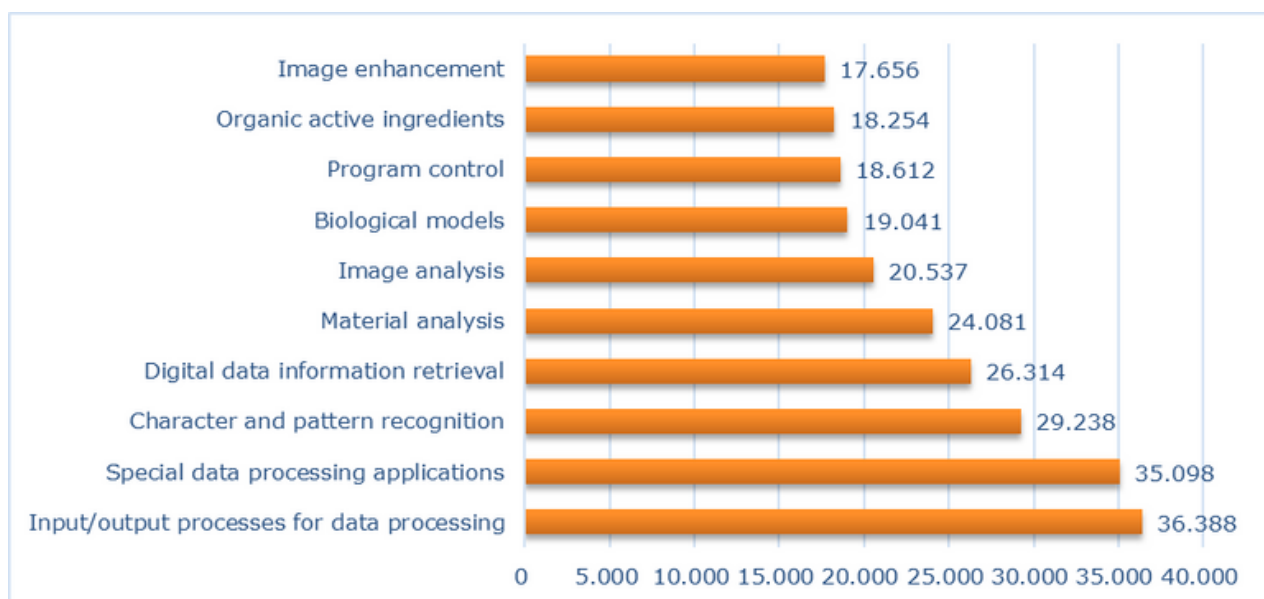


**Figure 6 The top 10 Technology Topics**

# PATENT CLASS ANALYSIS

## 2. TOP APPLICATION DOMAIN

From the perspective of application domain, the volume of patents used for data processing, character recognition, digital data information retrieval is the largest. At the same time, the volume of patents used in analytical materials, image analysis is also large, as shown in **Figure 7**.



**Figure 7** The top 10 Application Domains



# CONCLUSION

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In 2022, the number of patents published in the United States is still very large, and physics and electricity are the most concerned patent classes, whether from the perspective of IPC classification number, or from the perspective of technical topics or application domains.

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