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# BIWEEKLY REPORT

## PATENT PUBLICATION VOLUME DEVELOPMENT KOREA

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NOVEMBER 2022

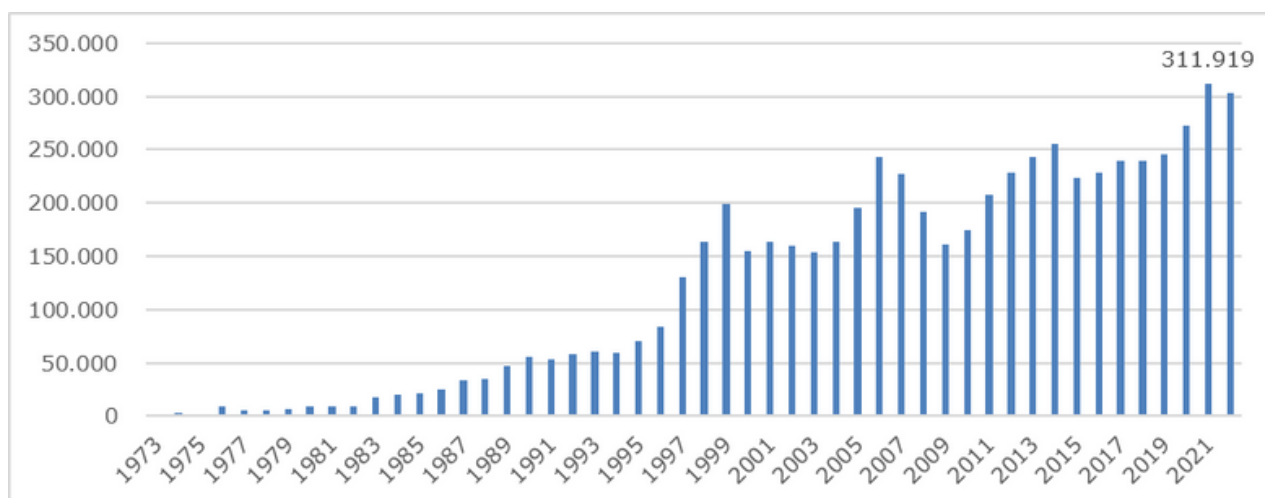
# INTRODUCTION

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Korea attaches great importance to the protection of intellectual property rights. Its original patent law dates back to 1908. Since then, Korea has amended and improved patent related laws and regulations for many times, effectively promoting the development of domestic patent industry. At the same time, Korea attaches great importance to the internationalization of patents. In 2021, according to the data released by WIPO, the international patent application submitted by Korea ranked fourth in the world.

# GENERAL INFORMATION

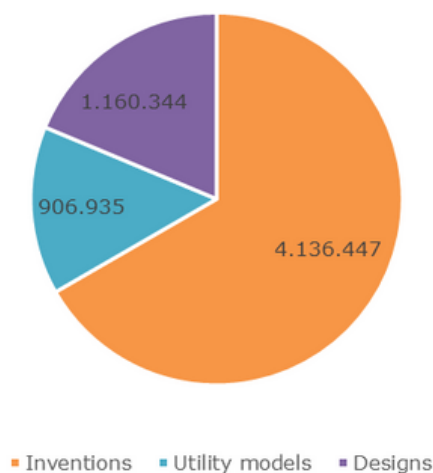
The number of patents published by Korea has generally maintained a steady growth trend, especially in recent years, even under the influence of the COVID-19, the number of patents published by Korea has continued to increase, and in 2021, the number of patents published by Korea exceeded 310,000 (as shown in **Figure 1**).



**Figure 1 Patent publication trend of Korea**

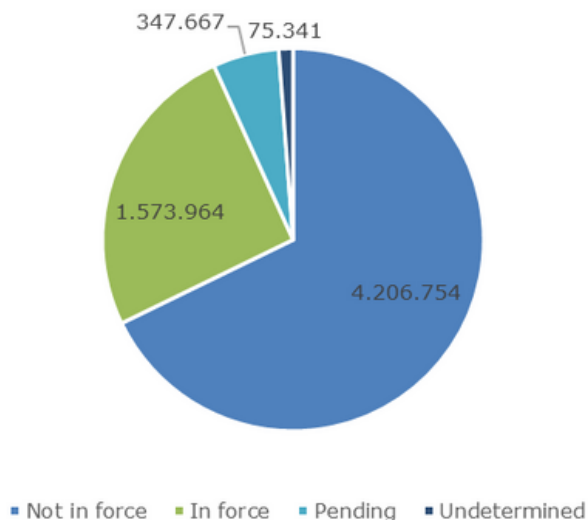
## GENERAL INFORMATION

Korea's patents are mainly invention patents, accounting for 66.7%. At the same time, it is interesting to note that Korea has a large number of designs, accounting for 14.6%, which is not the case in other countries such as Japan, China and the United States (as shown in **Figure 2**).



**Figure 2 Types of patents published by Korea**

At present, more than 1.5 million of the patents published in Korea are in force. At the same time, there are more than 400,000 patents pending or undetermined (as shown in **Figure 3**).



**Figure 3 Legal status of patents published by Korea**

# GEOGRAPHIC TERRITORIES

Korea's patents mainly come from the mainland, accounting for nearly 80%. Among other countries, Japan and the United States have applied for more patents in Korea, both accounting for 7% of the total number of Korean published patents (as shown in **Figure 4**).

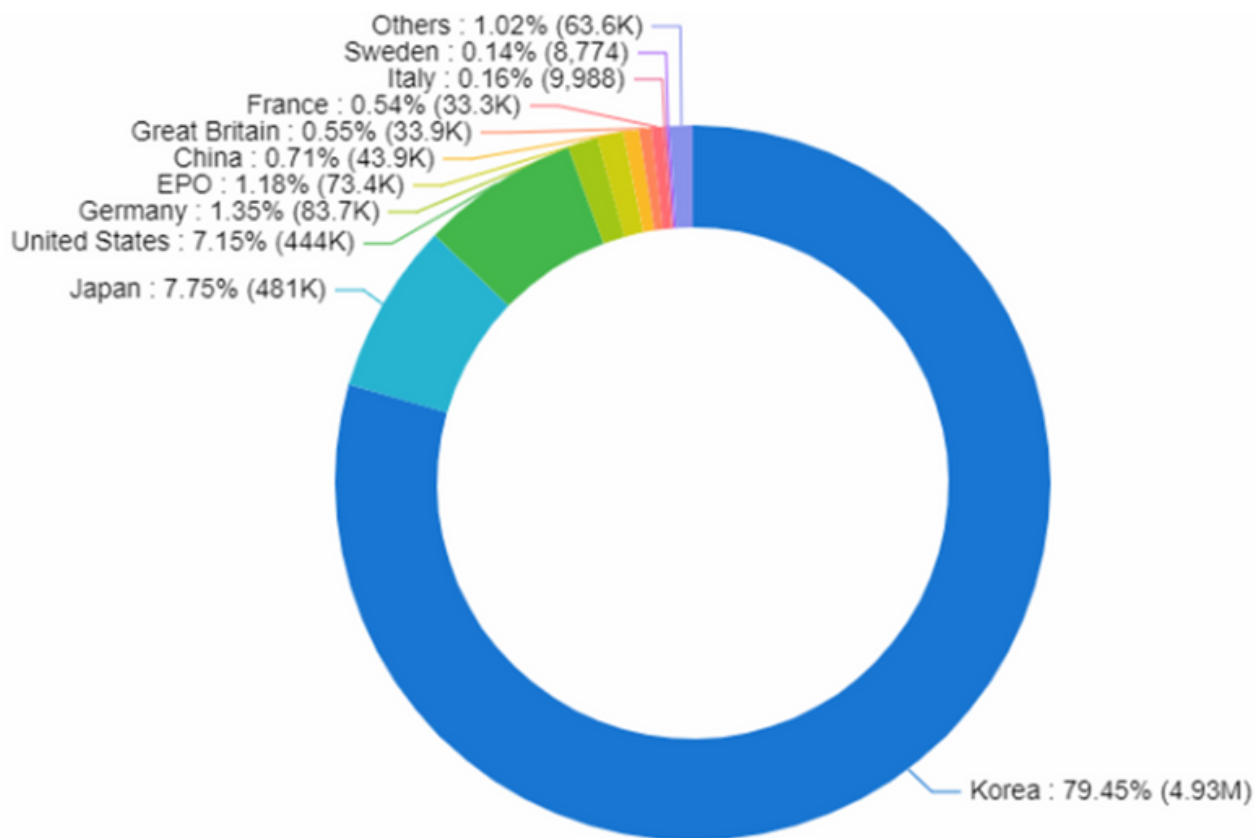
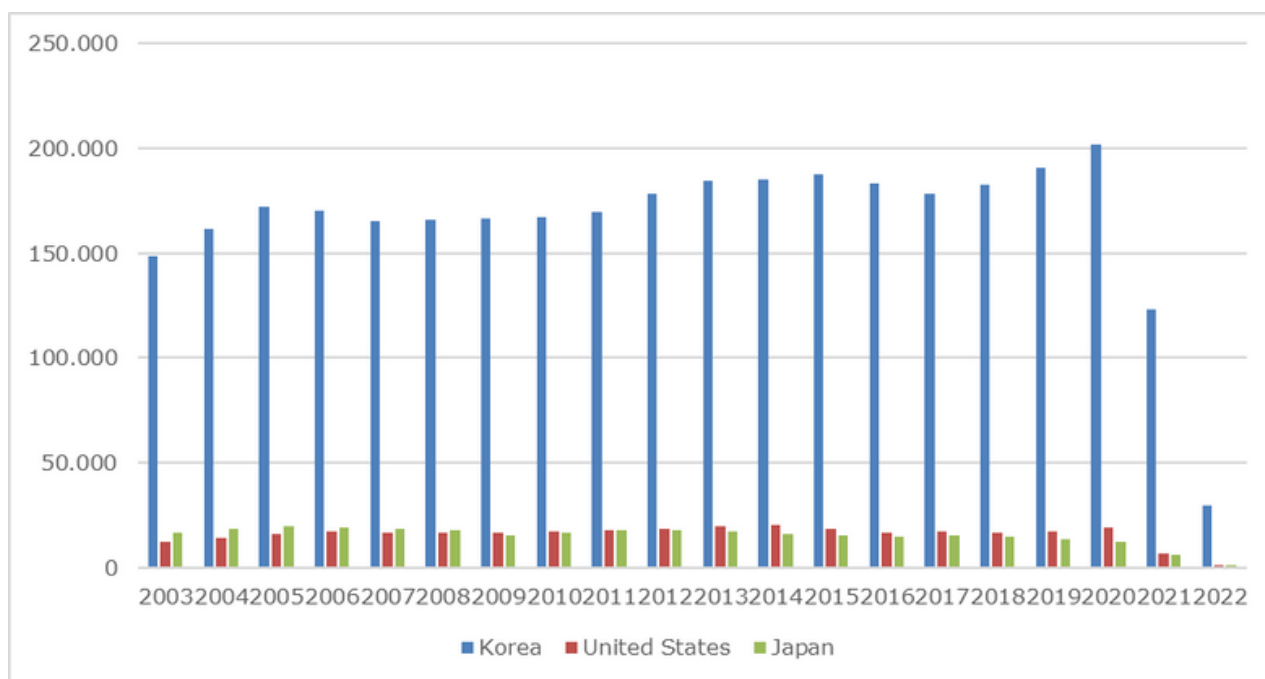


Figure 4 Top countries of origin

# GEOGRAPHIC TERRITORIES

Among the top countries of origin, the volume of patent applications from Korea has gradually increased, while the volume of patent applications from Japan and the United States is relatively stable (as shown in **Figure 5**).



**Figure 5 Patent application trend of top countries**

# KEY TECHNOLOGIES

Korea has the largest number of patents in semiconductor field and digital data processing and transmission field. It can be seen that Korea's patents pay more attention to cutting-edge technology (as shown in **Figure 6**).

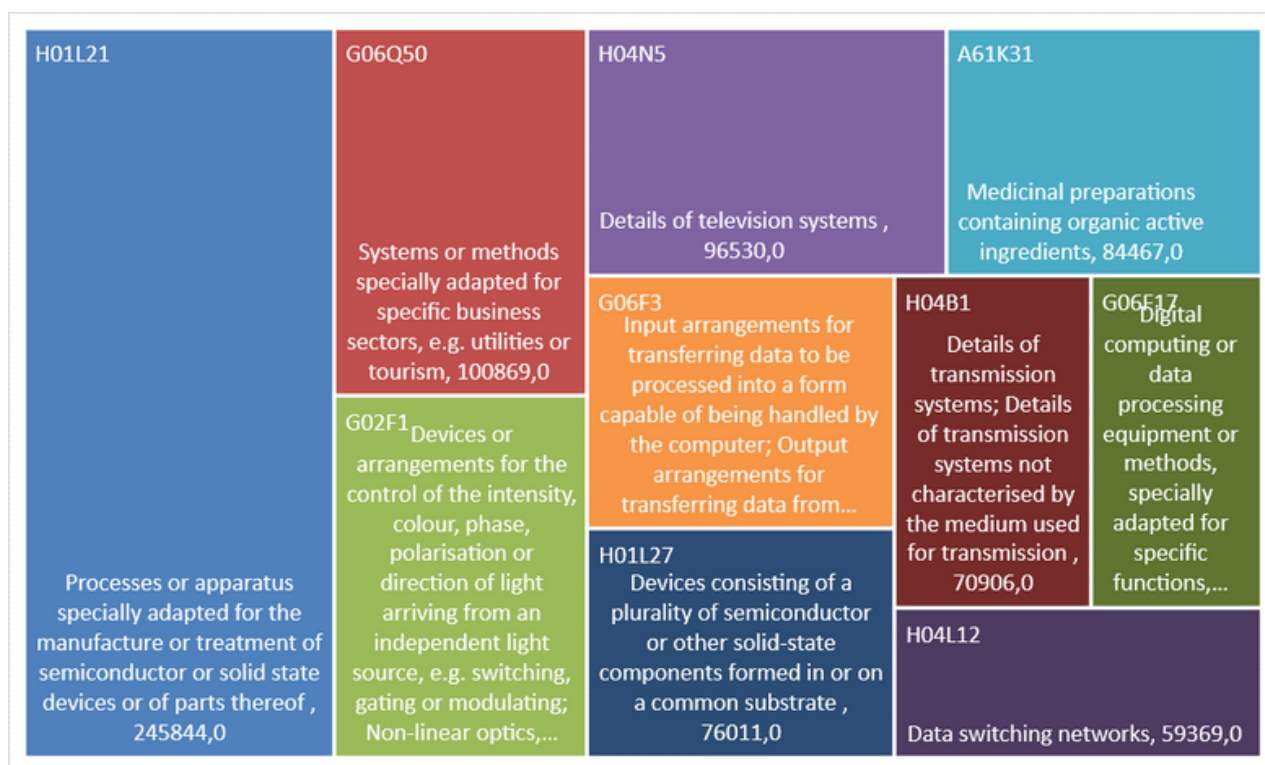
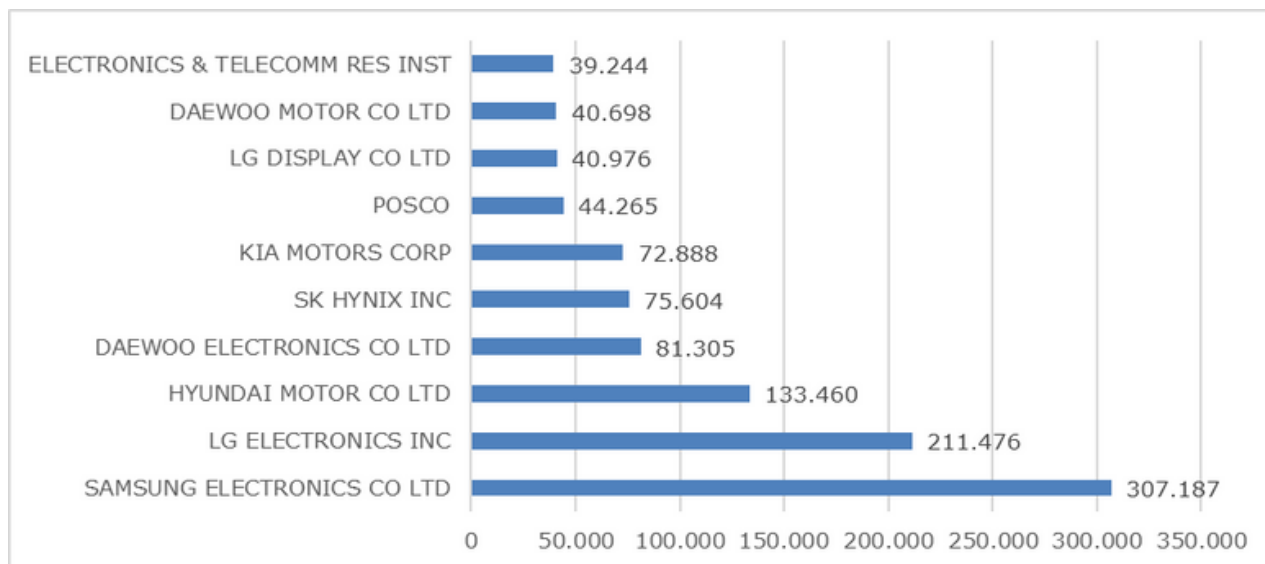


Figure 6 The top 10 IPC classification numbers

## STANDARDIZED CURRENT ASSIGNEES

Among the numerous applicants, Samsung Electronics holds the largest volume of patents, more than 300,000, followed by LG Electronics and Hyundai (as shown in **Figure 7**).

Through further analysis of the technical fields concerned by the main applicants, it is found that Samsung Electronics and SK Hynix pay the most attention to the production equipment and methods of semiconductors, LG Display Co., Ltd. has arranged the most patents in light source control, and LG Electronics has paid more attention to TV parts and signal transmission (as shown in **Figure 8**).



**Figure 7** The top 10 standardized current assignees

# STANDARDIZED CURRENT ASSIGNEES

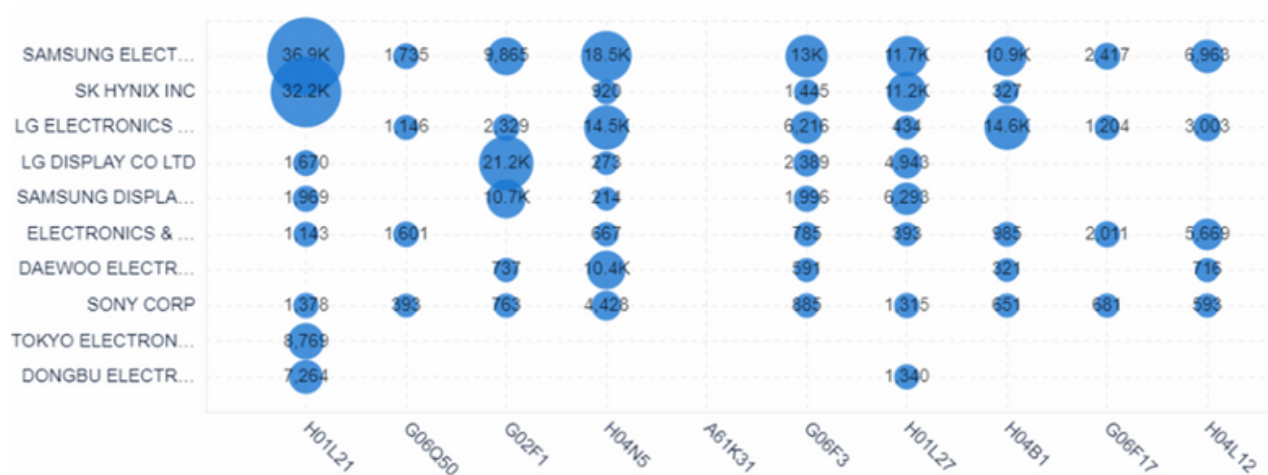


Figure 8 Technical fields concerned by main applicants

# CONCLUSION

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The volume of patents published by Korea has maintained a good growth trend, and has not been affected by the COVID-19. At the same time, the increase in the number of patents in Korea mainly comes from local applicants, of which Samsung Electronics, LG and Hyundai contributed the most.

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