

MARKET STUDY ON

WIRELESS AUDIO OUTPUT DEVICES



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WIRELESS TECHNOLOGY

Wireless Technology refers to technology that allows us to *communicate without using cables or wires*

With Wireless Technologies, people and other entities can communicate over *very long distances*

The term wireless communication was introduced in the *19th century* and wireless communication technology has developed over the subsequent years .

WIRELESS TECHNOLOGY

- ◇ *Wireless Communication Technology* is one of the most important mediums of transmission of information from one device to other devices.
- ◇ In this technology, the information can be transmitted through the air *without requiring any cable or wires or other electronic conductors*, by using electromagnetic waves like IR, RF, satellite, etc.
- ◇ In the present days, the wireless communication technology refers to a variety of wireless communication devices and technologies ranging from *smart phones to computers, tabs, laptops, Bluetooth Technology, printers*

WIRELESS AUDIO OUTPUT DEVICES

WIRELESS AUDIO DEVICE

- ◇ Wireless audio device as the name suggest, uses *wireless connectivity* to stream and play music and other audio
- ◇ A *wireless audio system* offers connectivity, expandability, flexibility, and convenience.
- ◇ Wireless audio devices use wireless platforms, such as *Bluetooth, radio frequency, infrared, Wi-Fi, SKAA, and airplay* for streaming music from audio-enabled devices to wireless output systems

WIRELESS AUDIO DEVICE MARKET

Wireless Audio Device Market

The global wireless audio devices market is expected to witness high growth potential over the next five years owing to a surge in demand for infotainment systems .

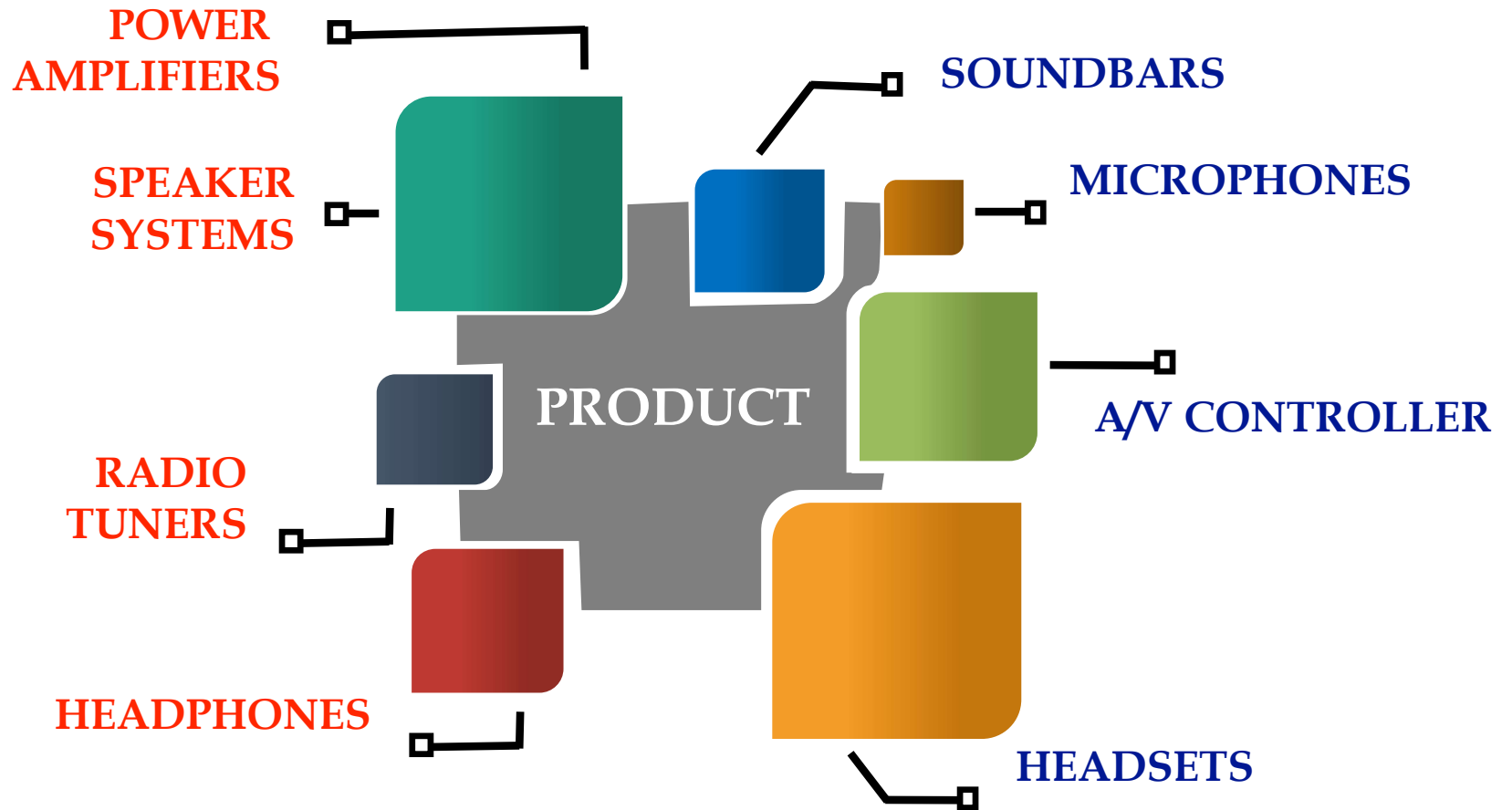
The wireless audio device market size is projected to grow from USD 57.3 billion in 2020 to USD 134.2 billion by 2025

The demand for sound-bars, microphones, speakers, and headphones has considerably increased over the last five years which has significantly bolstered the market

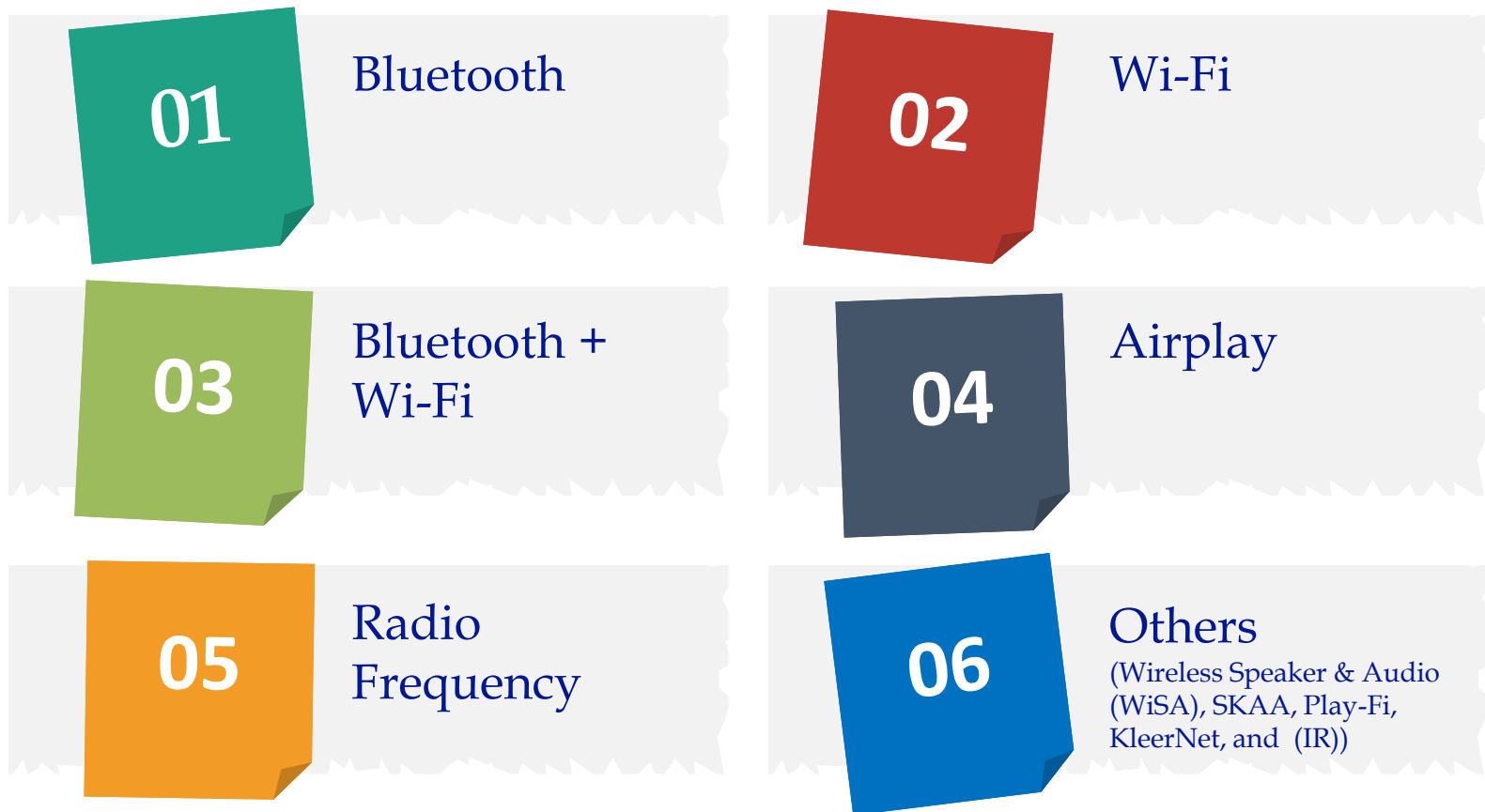
A wireless audio device offers more flexibility and connectivity as compared to its wired counterpart. Increasing consumer applications equipped with wireless devices has opened up new avenues in the industry

The major drivers of the wireless audio devices market are high expenditure on semiconductor for wireless devices, increasing requirement for mobility, advancement in technologies, and introduction of innovative devices

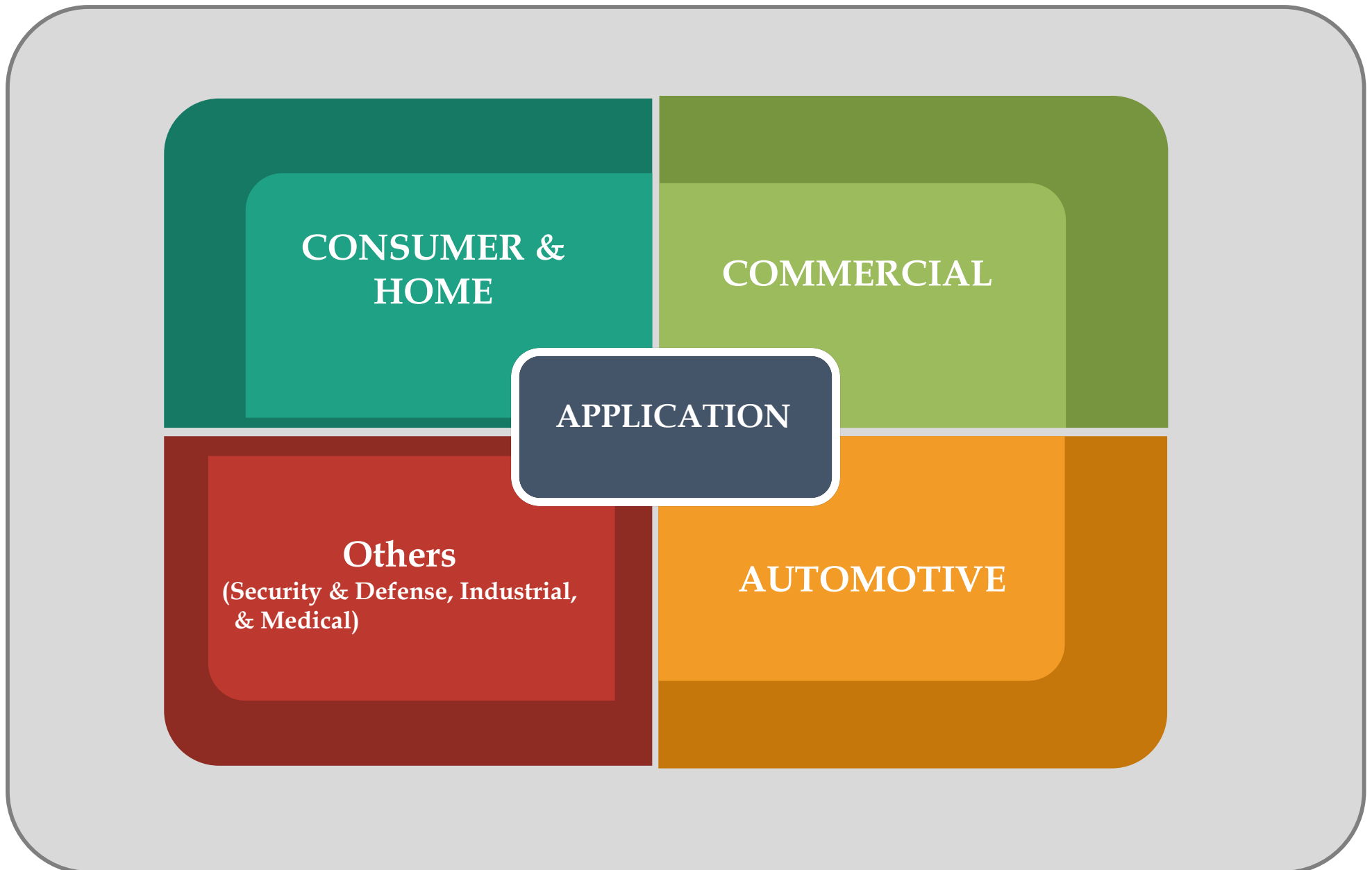
WIRELESS AUDIO DEVICES - BY PRODUCT



WIRELESS AUDIO DEVICES - BY TECHNOLOGY



WIRELESS AUDIO DEVICES - BY APPLICATION

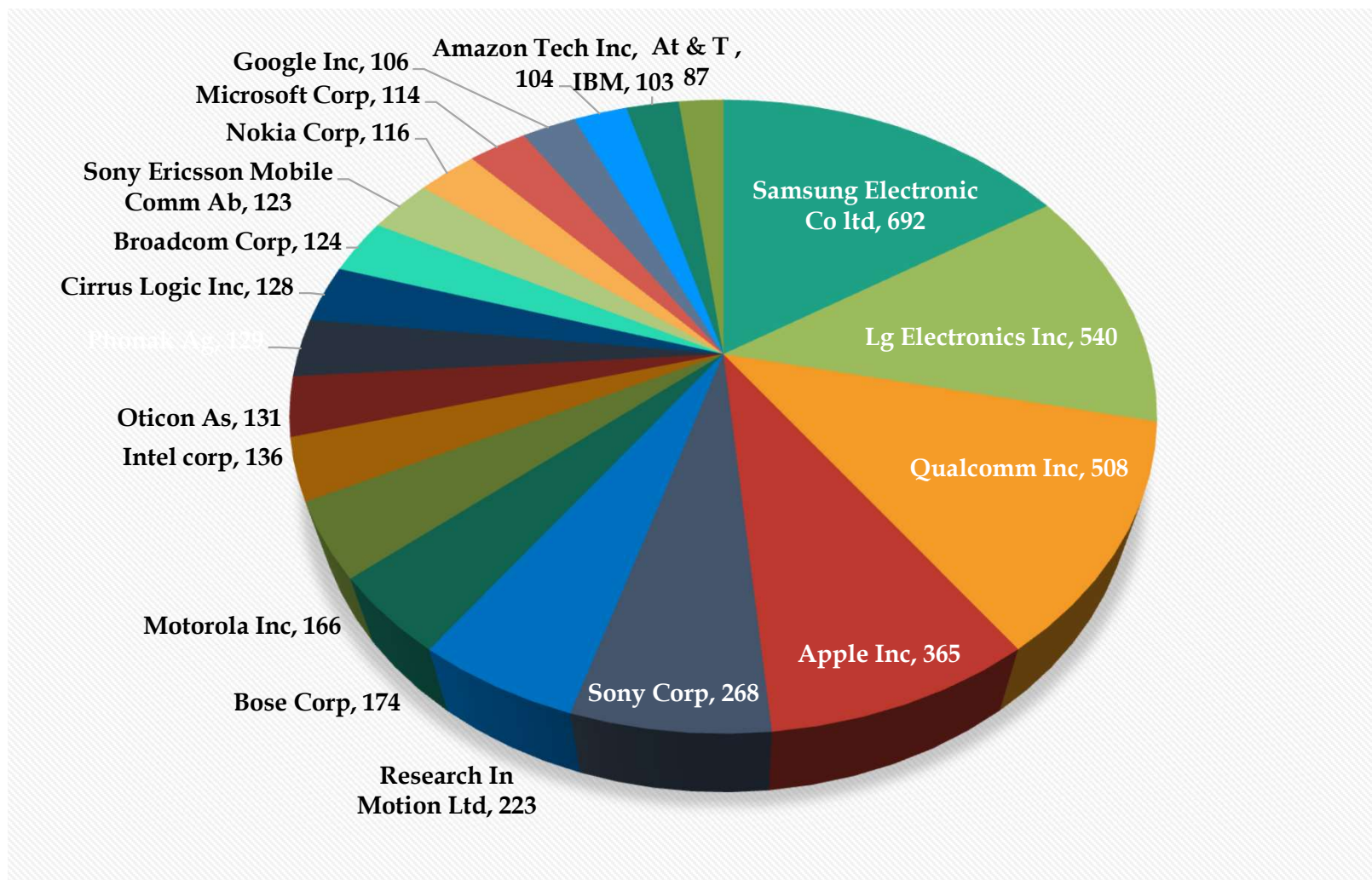


PATENT STUDY ON WIRELESS AUDIO OUTPUT DEVICES

In this Patent Study, we aimed at

- *Market Leaders* in Wireless Audio Devices
- Top *Inventors*
- *Potential Market* for Wireless Audio Devices
- Patent *Publication trends* till 2019
- Which are the *Jurisdictions top players* aimed at
- Top *CPC* classification codes

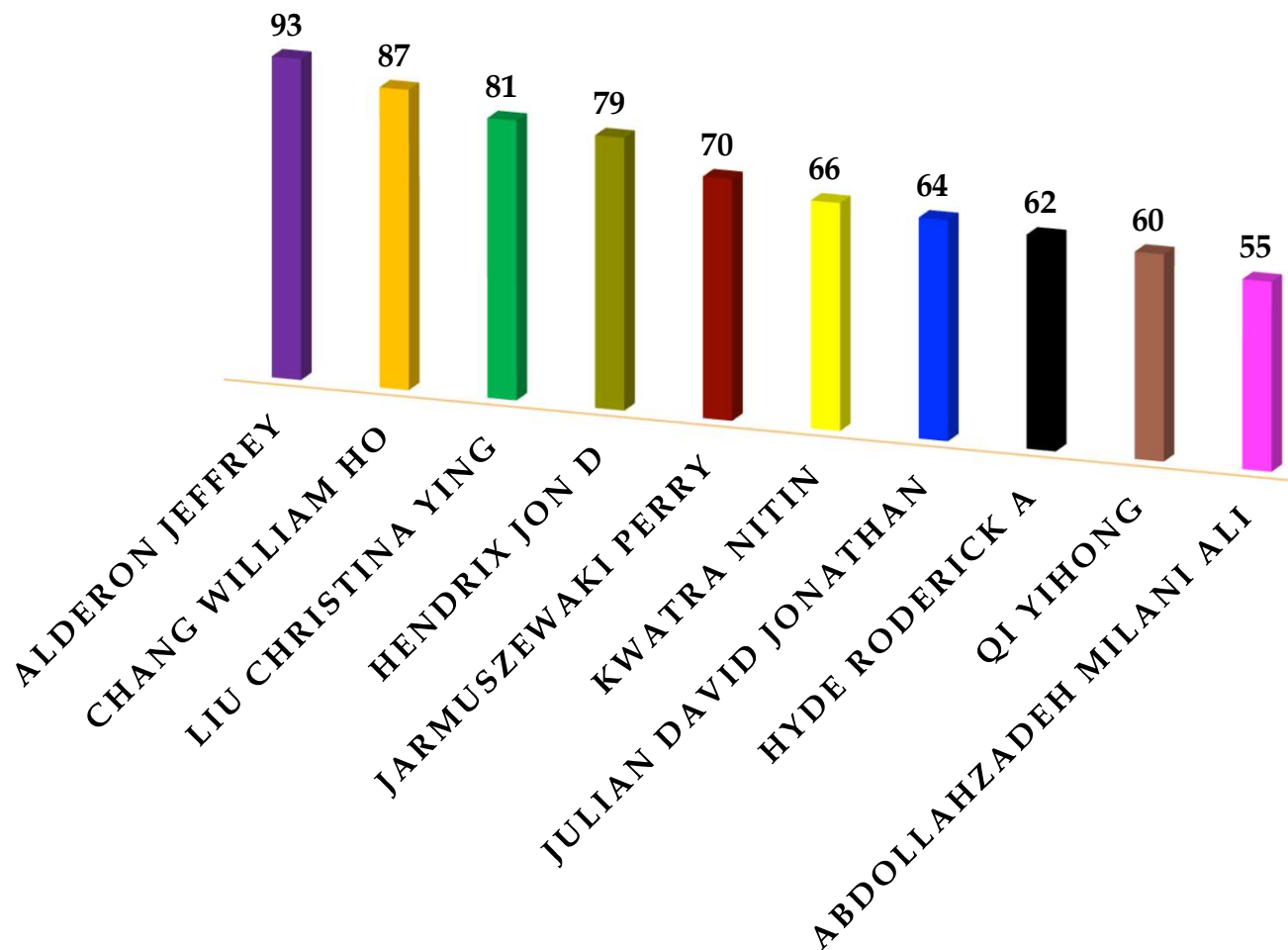
TOP PLAYERS (DOCUMENT COUNT)



The wireless audio device market is highly fragmented as several players are entering the market

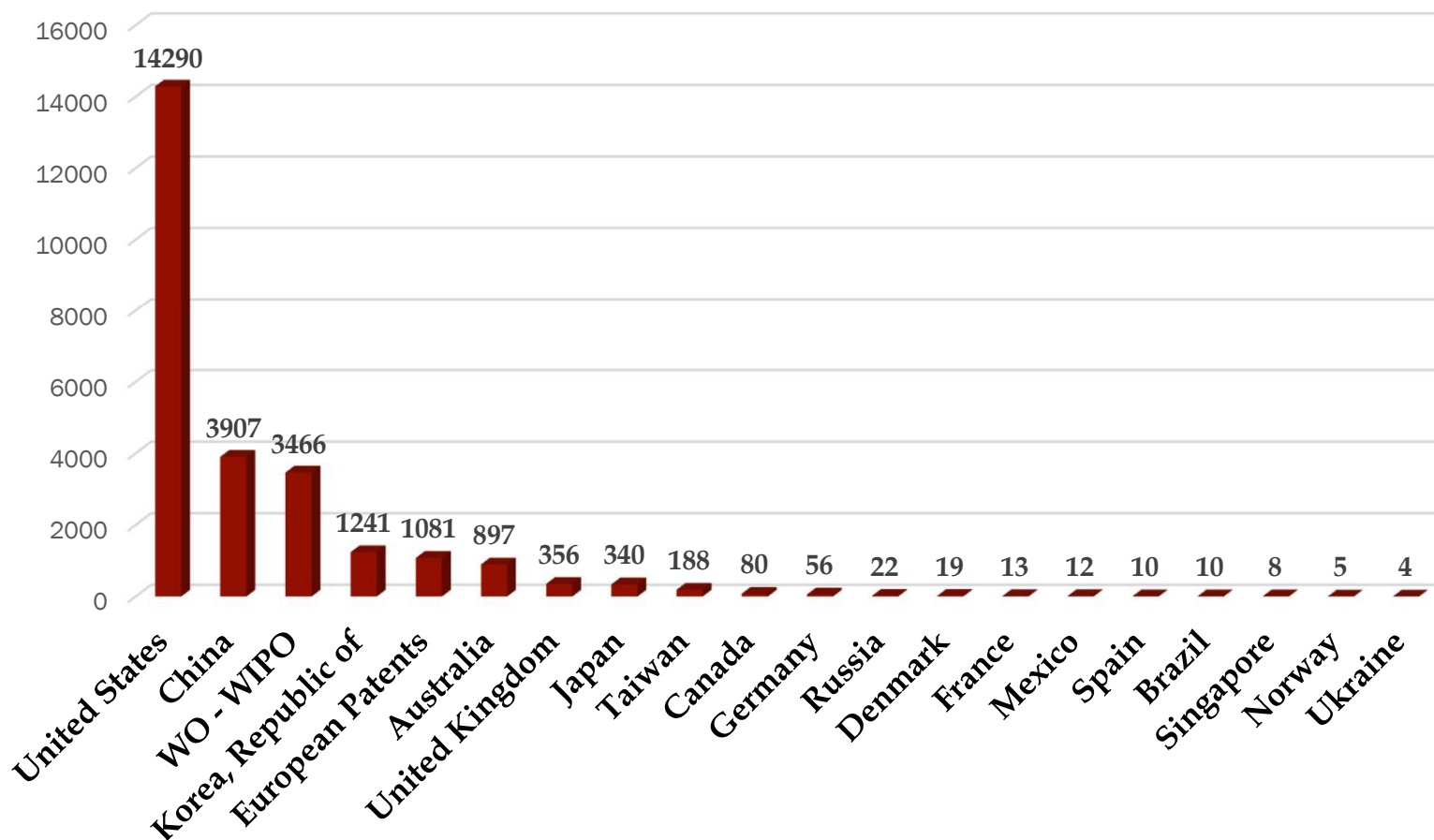
- ❖ The market is highly competitive with many players having IP share.
- ❖ Some of the key players include Samsung, LG, Qualcomm, Apple, Sony, RIM, Bose etc.

TOP INVENTORS (DOCUMENT TYPE)



Alderon Jeffrey seen as most active inventor in this domain followed by Chang William and Liu Christina

COUNTRY WISE DISTRIBUTION (DOCUMENT COUNT)



USA appears to be the potential market where most of the Patent filing activity observed

- ❖ China is a potential competitor for US followed by Korea, EP and Australia in terms number of patent filings.
- ❖ Overall Asia-Pacific region appears to be the fastest growing market for Wireless audio device, where most of the manufacturing and selling happening

PUBLICATION TRENDS (DOCUMENT COUNT)



Steady growth Observed in terms of patent publications, especially from 2006 onwards

❖ Number of patent publications peaked in 2018 (All references are reduced to One member per family).

TOP CPC BASED CLASSIFICATION CODES (DOCUMENT COUNT)

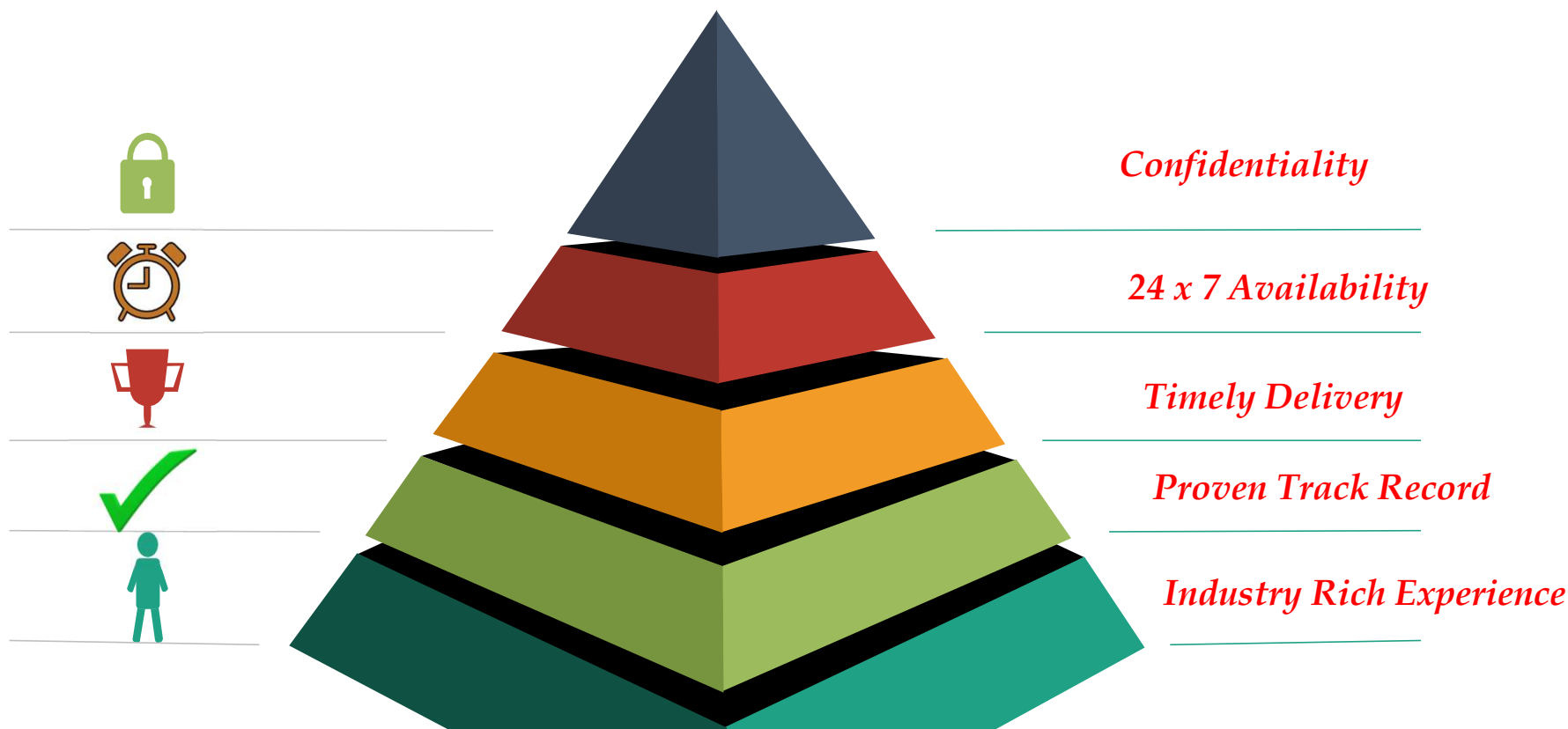
H04R2420/07	1034	Applications of wireless loudspeakers or wireless microphones
H04M1/7253	485	Using a two-way short-range wireless interface
H04M1/6066	471	including a wireless connection
H04N21/43637	451	Involving a wireless protocol, e.g. Bluetooth or wireless LAN IEEE 802.11; arrangements for wireless networking or broadcasting of information in indoor or near-field type systems H04B10/114 ; wireless local area data switching networks H04W ; flow control in wireless networks H04W28/10
H04W4/80	408	Services using short range communication, e.g. near-field communication [NFC], radio-frequency identification [RFID] or low energy communication
H04R25/554	339	Using a wireless connection, e.g. between microphone and amplifier or using Tcoils
H04R5/033	331	Headphones for stereophonic communication details thereof, e.g. relating to batteries, cables or control elements H04R1/10
H04M2250/02	327	Including a Bluetooth interface
H04R5/04	327	Circuit arrangements, e.g. for selective connection of amplifier inputs/outputs to loudspeakers, for loudspeaker detection, or for adaptation of settings to personal preferences or hearing impairments combinations of amplifiers H03F3/68 ; stereophonic systems H04S
H04R1/1041	323	Mechanical or electronic switches, or control elements switches in general H01H

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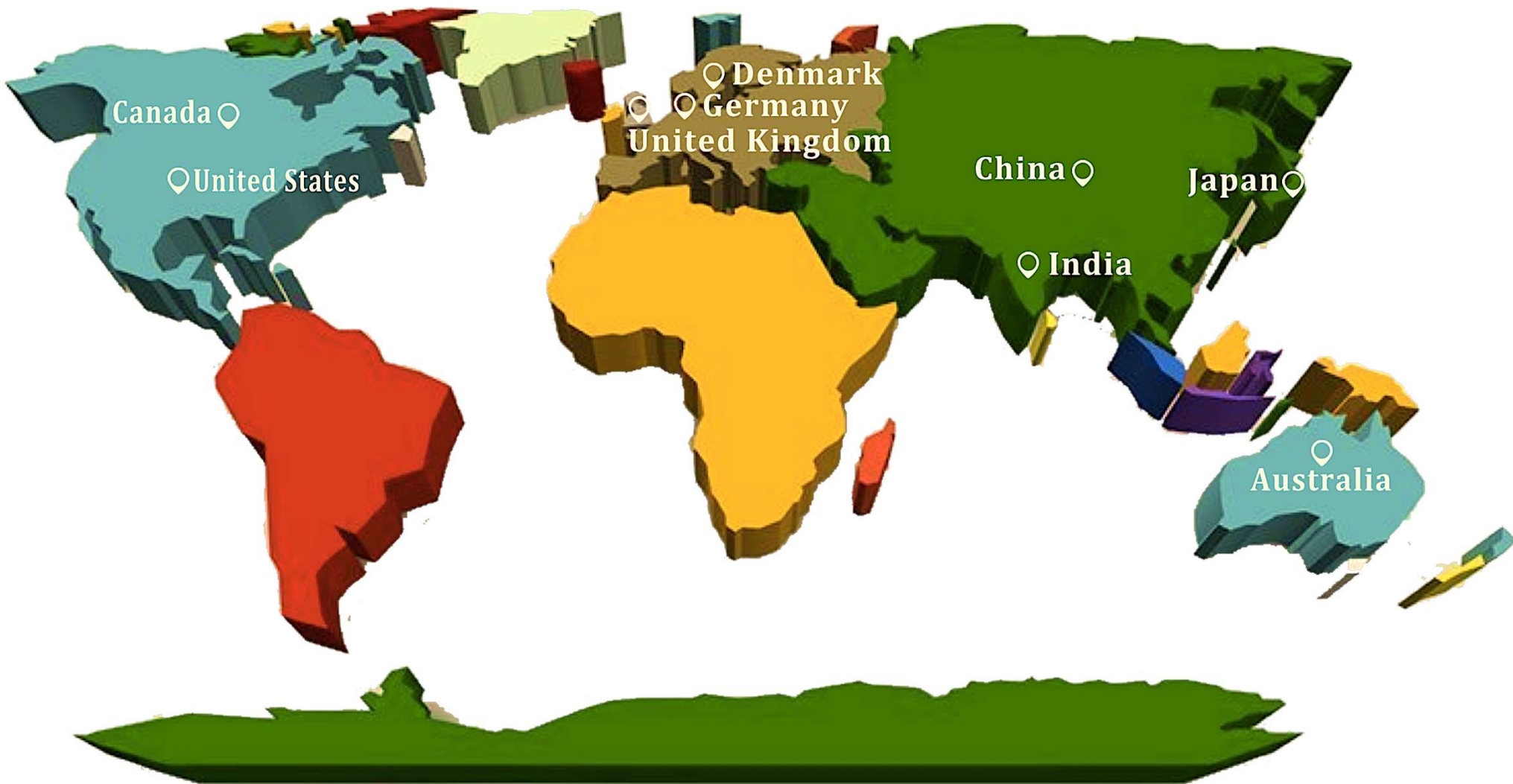


450+ 
*Drafting; Filing & Office Action
Response*

5000+ 
Search & Analysis

65000+ 
Drawings

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