

## Bose Corporation : Portfolio Report

### Introduction

Headquartered in Framingham, Massachusetts, Bose Corporation is a privately-held American firm that engineers, researches, develops, and markets audio equipment worldwide. The company is best known in the industry as a producer of high-end audio products.<sup>[1]</sup>

The company was founded by Amar Bose in 1964. With its very first product, the Bose 901 speakers, the company showcased its innovativeness by offering a unique way of projecting sound compared to other conventional speakers. In later years, Bose developed a wide range of products that enable consumers to listen to music in novel ways. In 2005, the company's brand name was among the most trusted by US consumers in a market study done by Forrester Research.<sup>[1]</sup>

The company's major product offerings include consumer and professional audio systems, noise cancelling headphones, micro Bluetooth speakers, automobile sound systems, loudspeakers, combat vehicle crewman headsets, tactical headsets, and ride systems.<sup>[2]</sup>

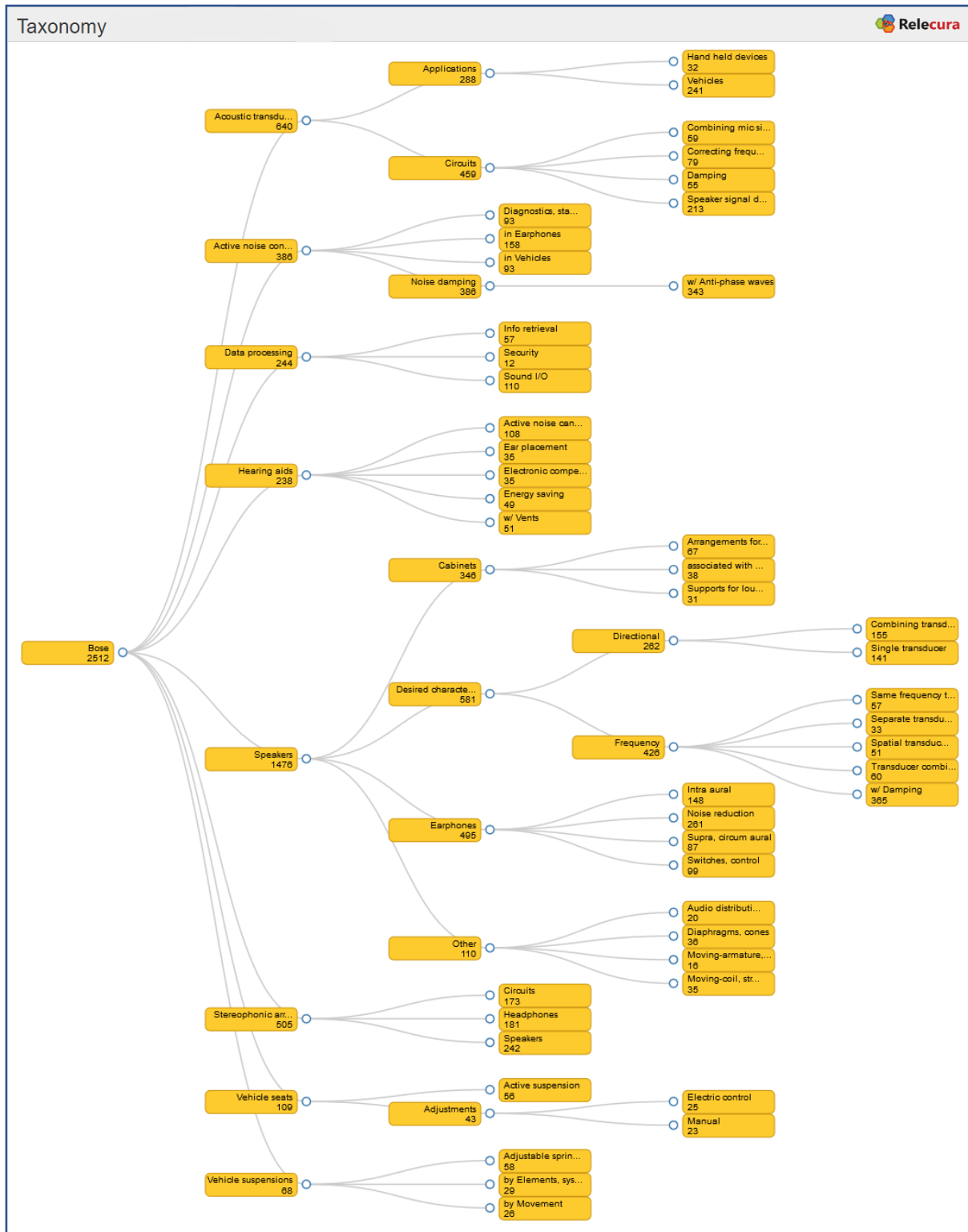
As of 2017, Bose employed more than 8000 people and its revenue was US\$ 3.8 billion.<sup>[3]</sup> This report takes a closer look at the patents in Bose's portfolio that are currently in force. It includes a portfolio taxonomy and provides insights into various aspects of the overall portfolio.

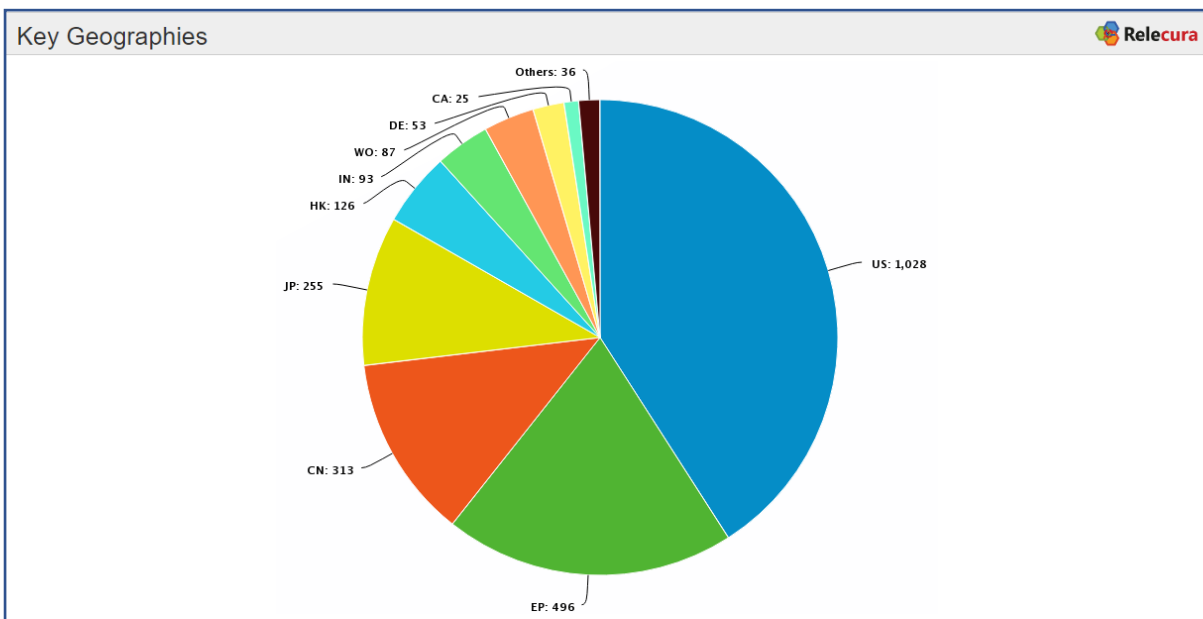
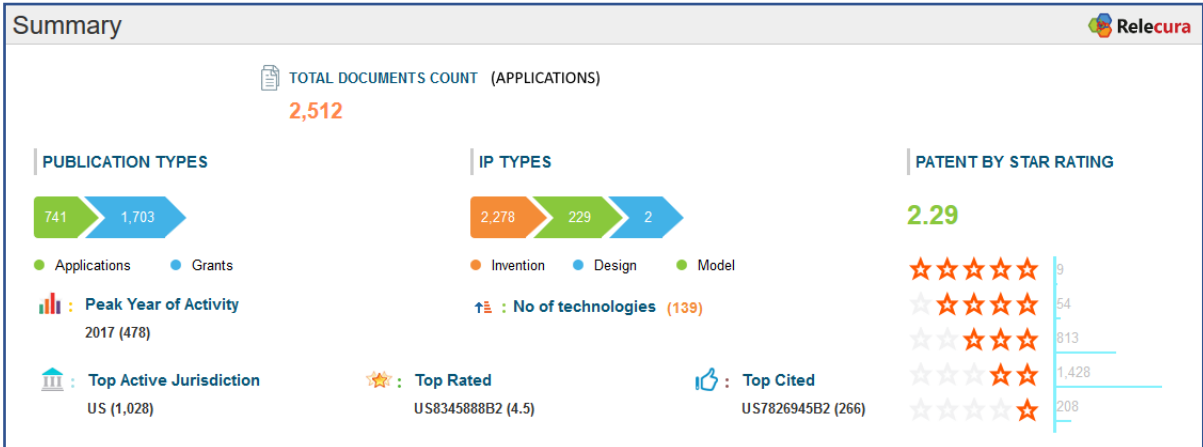
### Contents

- Taxonomy
- Summary
- Portfolio trends
- Key geographies
- Key technologies
- Evolution of key technologies
- Analysis of key technologies
- Patent quality
- Key patents
- Top forward citing (FC) assignees
- Technology focus of FC assignees
- Topic Map - Concepts

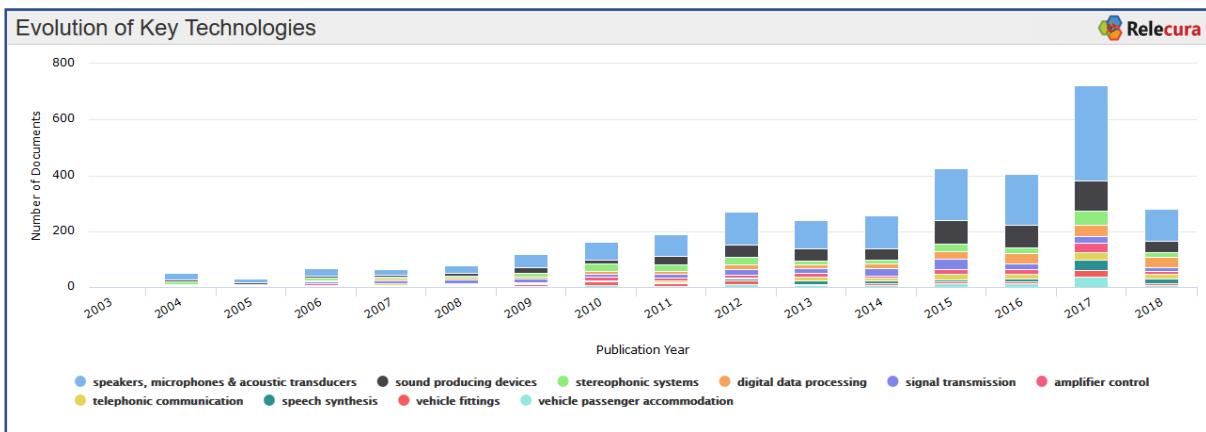
### Sources

- [1. Bose Corporation \(Wikipedia\)](#)
- [2. Company Overview: Bose Corporation \(Bloomberg\)](#)
- [3. Bose Annual Report 2017 \(Bose.com\)](#)

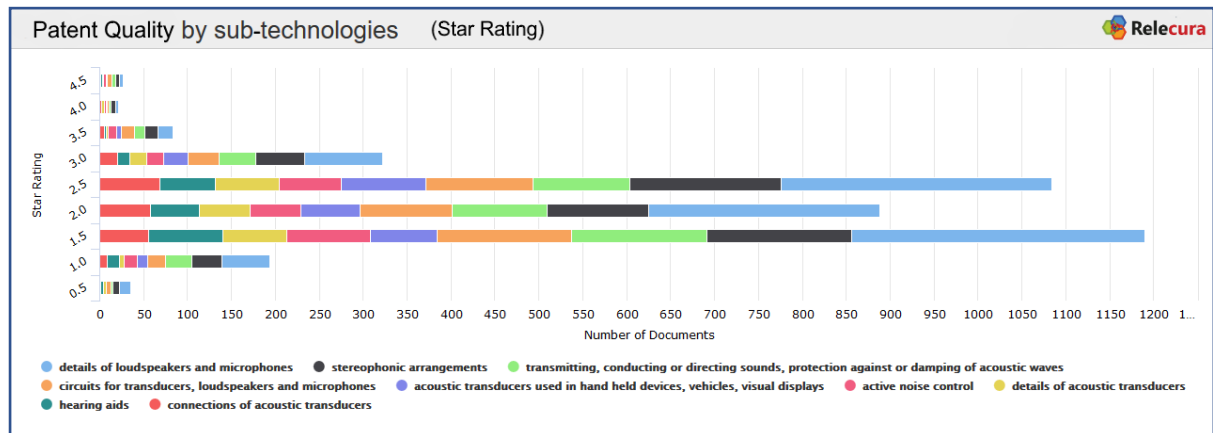




Key Technologies		Relecura
Technologies	Number of applications	
Speakers, microphones, acoustic transducers	1,472	
Sound producing devices	544	
Stereophonic systems	275	
Digital data processing	244	
Signal transmission	234	
Amplifier control	145	
Telephonic communication	122	
Speech synthesis	120	
Vehicle fittings	119	



Analysis of Key Technologies				Relecura
Technologies	Applications	Grants	Sub Technologies	Geographies
speakers, microphones & acoustic transducers	439	992	details of loudspeakers and microphones (1086) , stereophonic arrangements (574) , circuits for transducers, loudspeakers and microphones (462) , transmitting, conducting or directing sounds, protection against or damping of acoustic waves (370) , acoustic transducers used in hand held devices, vehicles, visual displays (288)	US (607) , EP (300) , CN (194) , JP (143) , HK (82)
sound producing devices	148	378	transmitting, conducting or directing sounds, protection against or damping of acoustic waves (464) , details of loudspeakers and microphones (354) , active noise control (274) , circuits for transducers, loudspeakers and microphones (190) , stereophonic arrangements (154)	US (194) , EP (110) , JP (82) , CN (77) , HK (36)
stereophonic systems	62	196	control and indication of sound (194) , stereophonic arrangements (169) , acoustic transducers used in hand held devices, vehicles, visual displays (126) , circuits for transducers, loudspeakers and microphones (125) , multiple channel stereo systems (118)	US (114) , EP (56) , CN (34) , JP (26) , HK (18)
digital data processing	111	125	digital interface arrangements (150) , function specific digital computer (97) , stereophonic arrangements (86) , details of loudspeakers and microphones (82) , circuits for transducers, loudspeakers and microphones (63)	US (123) , EP (46) , JP (18) , WO (18) , CN (16)
signal transmission	47	177	details of transmission systems (173) , details of loudspeakers and microphones (123) , stereophonic arrangements (95) , transmitting, conducting or directing sounds, protection against or damping of acoustic waves (86) , circuits for transducers, loudspeakers and microphones (84)	US (106) , EP (50) , JP (22) , HK (21) , CN (19)

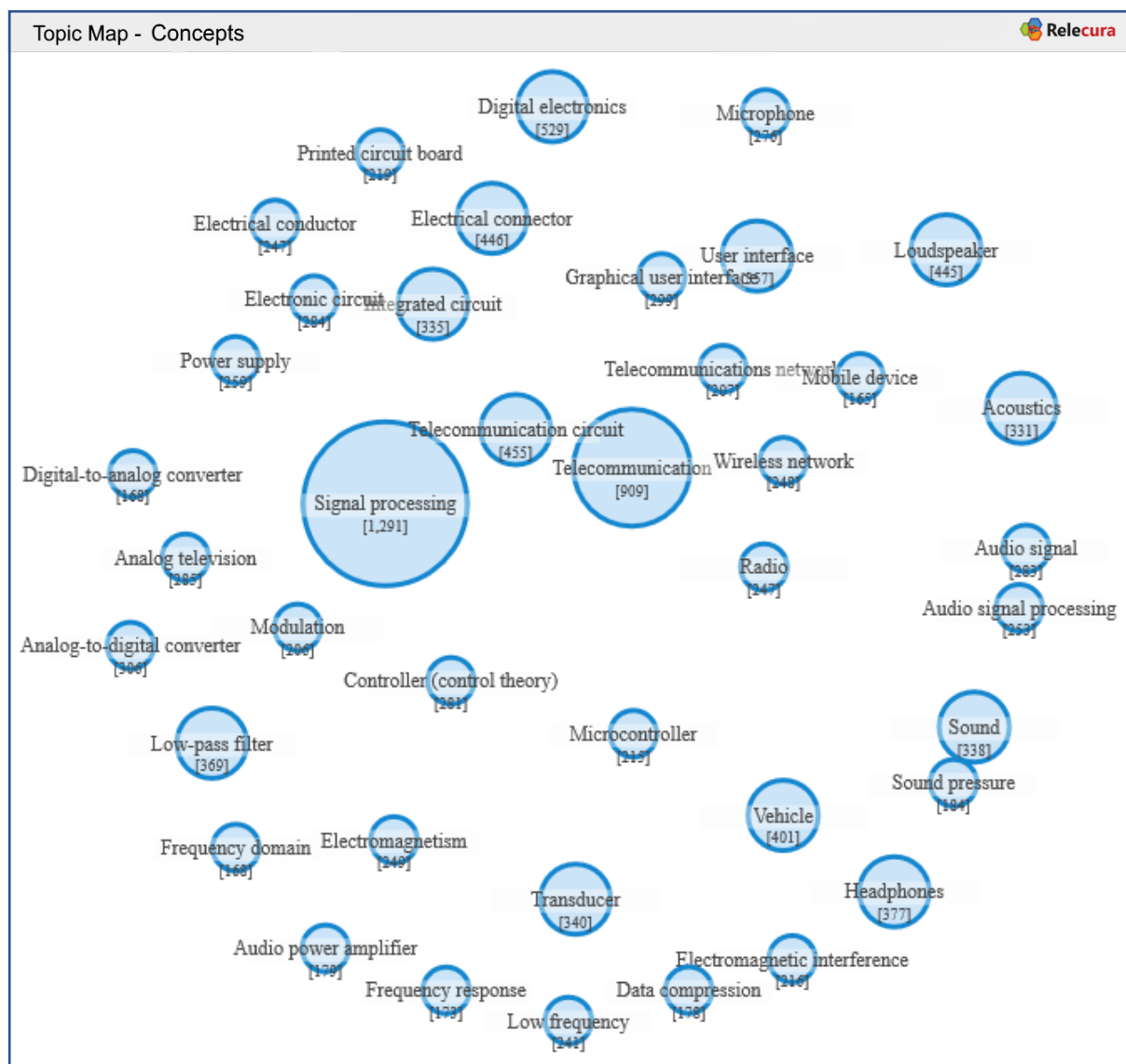
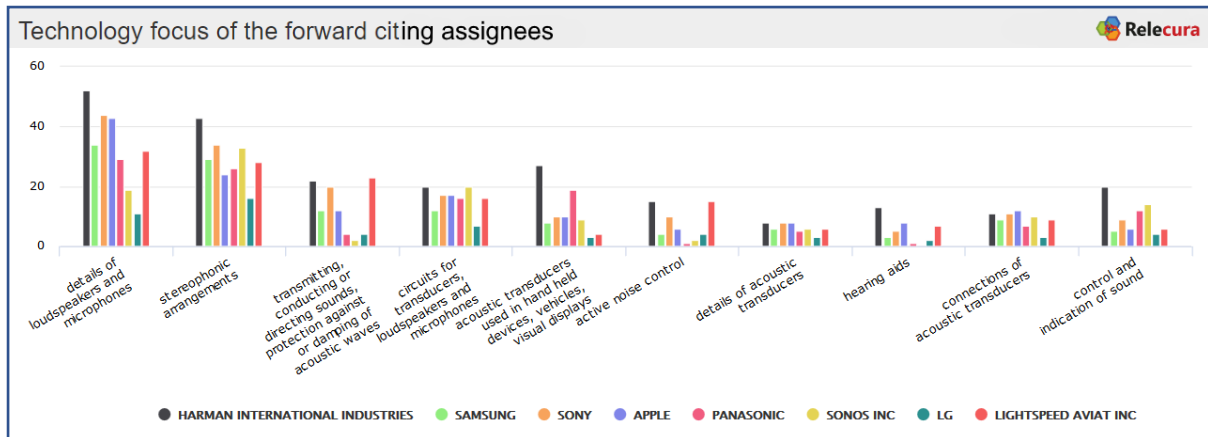


### Key Patents in portfolio

Publication No.	Title	Inventor	Filing Date	Star Rating	#Fwd Citations
US8315405B2	Coordinated ANR reference sound compression	Pericles Nicholas Bakalos, Ricardo F. Carreras	2010-03-30	4.5	98
US9253561B2	Orientation-responsive acoustic array control	Eric J. Freeman, John Joyce	2011-04-14	4.5	66
US8934647B2	Orientation-responsive acoustic driver selection	John Joyce, Eric J. Freeman	2011-04-14	4.5	87
US8184822B2	ANR signal processing topology	Ricardo F. Carreras, Daniel M. Gauger, Jr., Marcel Joho	2009-04-28	4.5	107
US8934655B2	Orientation-responsive use of acoustic reflection	John J. Breen, Richard J. Carbone, Eric J. Freeman	2011-04-14	4.5	87

### Top Forward Citing Assignees

FC Assignees	Number of applications
<b>HARMAN INTERNATIONAL</b>	132
<b>SAMSUNG</b>	113
<b>SONY</b>	106
<b>APPLE</b>	91
<b>PANASONIC</b>	74
<b>SONOS INC</b>	74
<b>LG</b>	60
<b>LIGHTSPEED AVIATION</b>	50



[Click here](#)

To set up your Relecura account

## Disclaimer

This document is provided for information purposes only and the contents hereof are subject to change without notice. This document, including the information and analysis and any opinion or recommendation, is neither legal advice nor intended for investment purposes. This document is not warranted to be error-free, nor subject to any other warranties or conditions, whether expressed orally or implied in law, including implied warranties and conditions of merchantability or fitness for a particular purpose. Relecura Inc. specifically disclaims any liability with respect to this document and no contractual obligations are formed either directly or indirectly by this document.

## About Relecura

Relecura is a full-stack cognitive cloud platform that provides custom intelligence and reports on patent portfolios, technologies and companies. It does this by capturing and organizing the knowledge from various document repositories (patents, scientific literature) and subject matter experts in a flexible and collaborative manner, into a knowledge-base.

Relecura offers IP analytics tools and a custom enterprise platform to corporations, law firms, IP services firms, R&D organizations and academic institutions. The enterprise platform integrates the discovery and analysis of public documents with internal company documents. Relecura also has an API to help create custom tools for IP and business intelligence.