

Patent Landscape Report on Assistive Devices and Technologies for Visually and Hearing Impaired Persons

Hearing and Vision Impairment Assistive Technologies: Results

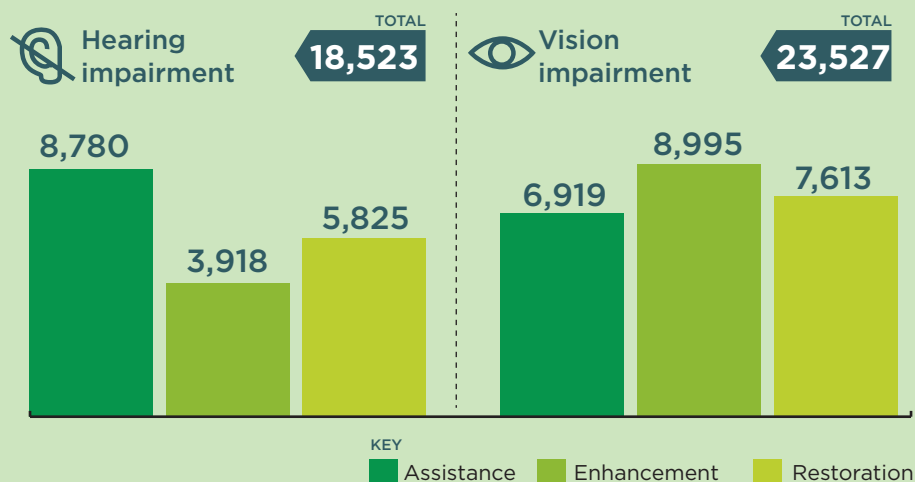
35,251 Relevant patent documents identified



30% Were filed between 2007 and 2011.

This means hearing and vision assistive technology is a major growth market.

Basic concepts for hearing and vision assistive technologies: Assistance, Enhancement, Restoration



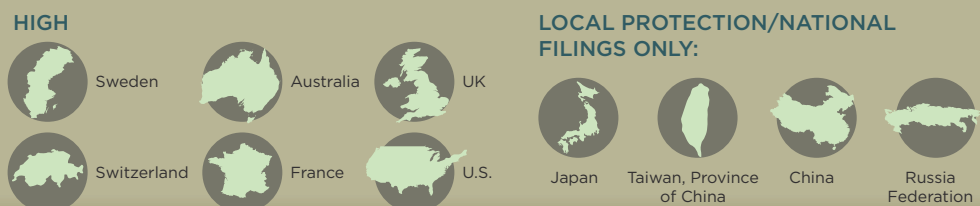
Patent Filing Strategies

68.4% Patent applications filed in just one jurisdiction (mainly case of Japan, Russia and China).

8% were filed in two jurisdictions.

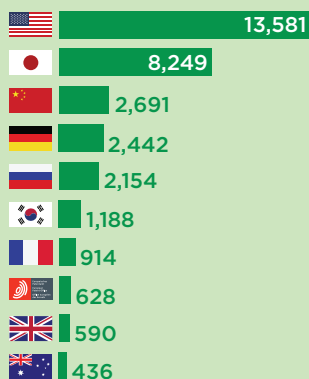
11.4% were filed in five or more jurisdictions.

Commercialization Potential

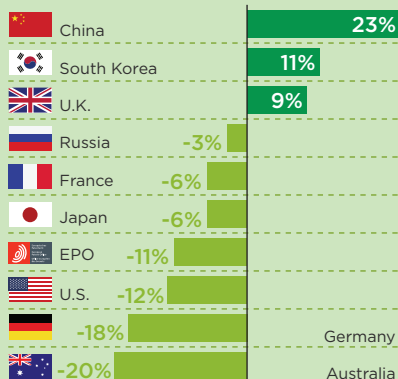


Geographic Distribution

Major offices of first patent filing



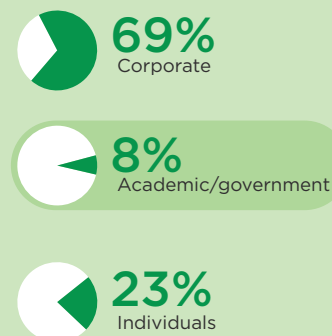
Compound annual growth/decline trends in patent activity between 2007 and 2011



Major Patent Applicants Profile and Portfolios

The biggest part of the technology portfolio is composed of corporate entities.

Technology portfolio makeup

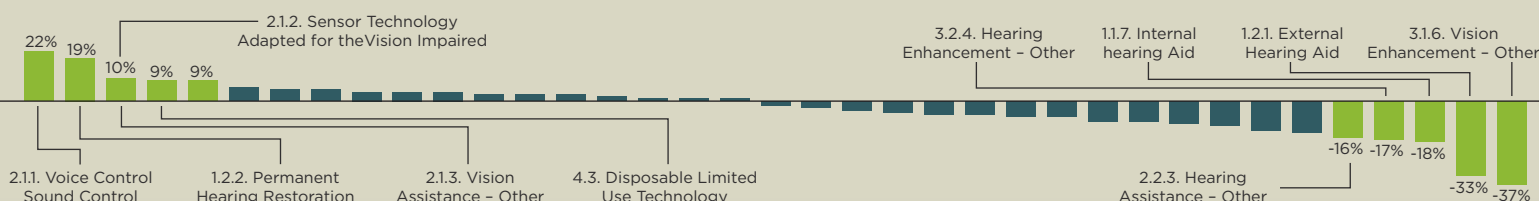


25% of identified inventions came from 38 large entities, with 100 or more patent applications each.

Top 10 patent holders:	Total Inventions
Novartis	575
Panasonic	545
Siemens	540
Abbott	518
Choclear	434
Valeant	419
Nuance	345
Advanced Bionics	341
Fyodorov Eye Microsurgery Complex	289
Johnson & Johnson	279

Recent Innovation Trends

Change in technical categories, 2007-2011



Enabling Technologies Facilitating Access to Published Works

Category	Technology	Count
Assistance	Touch Tactile Haptic Technology	704
	Sensor Technology adapted for the Vision Impaired	108
	Voice Control Sound Control	225
	Color Brightness Enhancement	22
Enhancement	Display Information	907
	Electric Electronic Stimulation	108
	Image Encoding Translation	320
	Spatial Resolution Vision Quality	255

