

Patent landscaping in the sub-\$100 mobile device market in India

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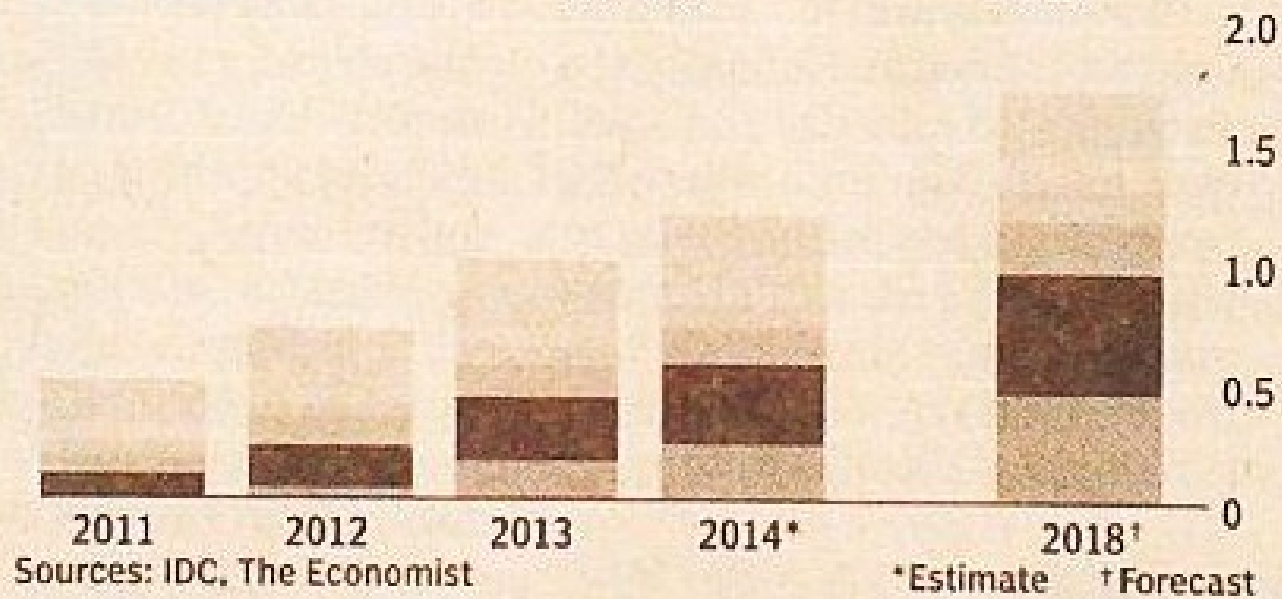
Centre for Internet and Society, Bengaluru

Global Congress on Intellectual Property and the
Public Interest, 2015

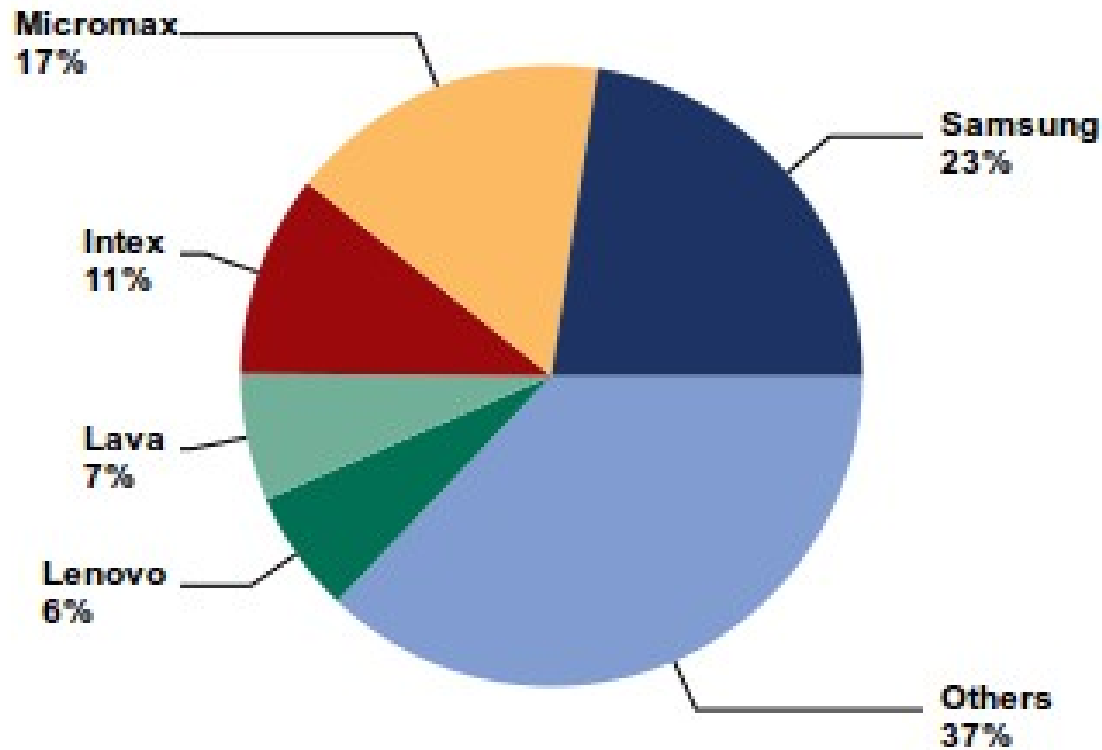
CHEAP AND CHEERFUL

Worldwide smartphone shipments, bn

Phone cost, \$



Smartphone Vendor Share in India, 2015Q2



Source : IDC AP Quarterly Mobile Phone Tracker, 2015Q2

SEP Infringement Litigation in India

- Ericsson v {Kingtech, Micromax, Gionee, Lava, iBall, Xiaomi}
- Sued all over 8 SEPs.
- Vringo v {ZTE, Asus}

The Taiwan Story

- Fabless IC companies located in Taiwan or China design chips while consulting the chip fabricators, based on physical and electrical design parameters.
- Fabless IC designing and manufacturing companies expect the assemblers or importers to pay royalties for their chips.

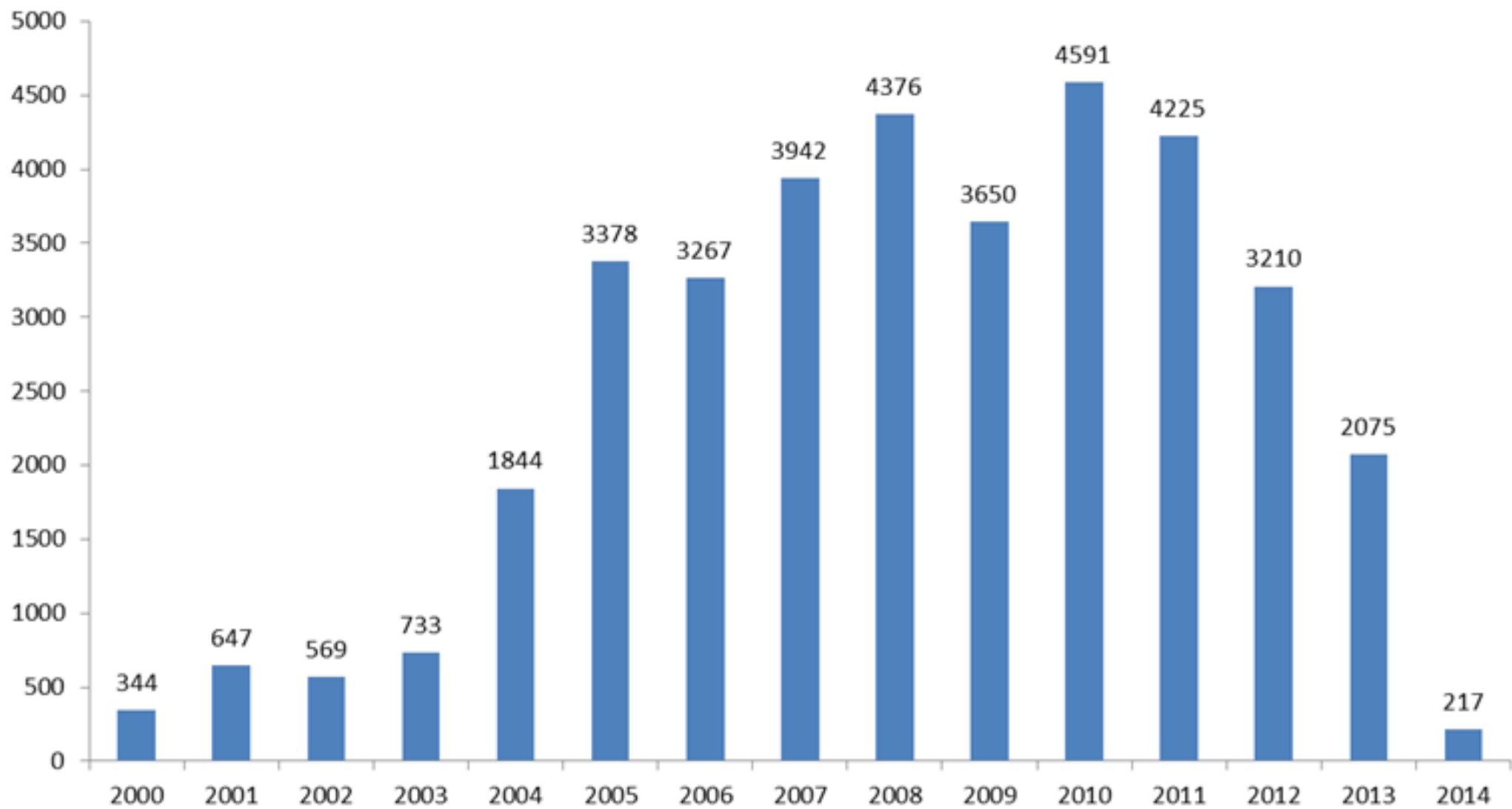
The China Story

- Turnkey solutions: “Buy a turnkey solution, open a factory, take a chassis [case], screw it all together, and sell it. This is what's driven the demand, and that's what created this low cost-market.”
- The million-dollar question: Have they paid royalties or licensing fees for the patents that apply to the mobile phones they manufacture?
- “Royalties or licensing fees are not explicitly paid by the phone manufacturer [OEM]...”

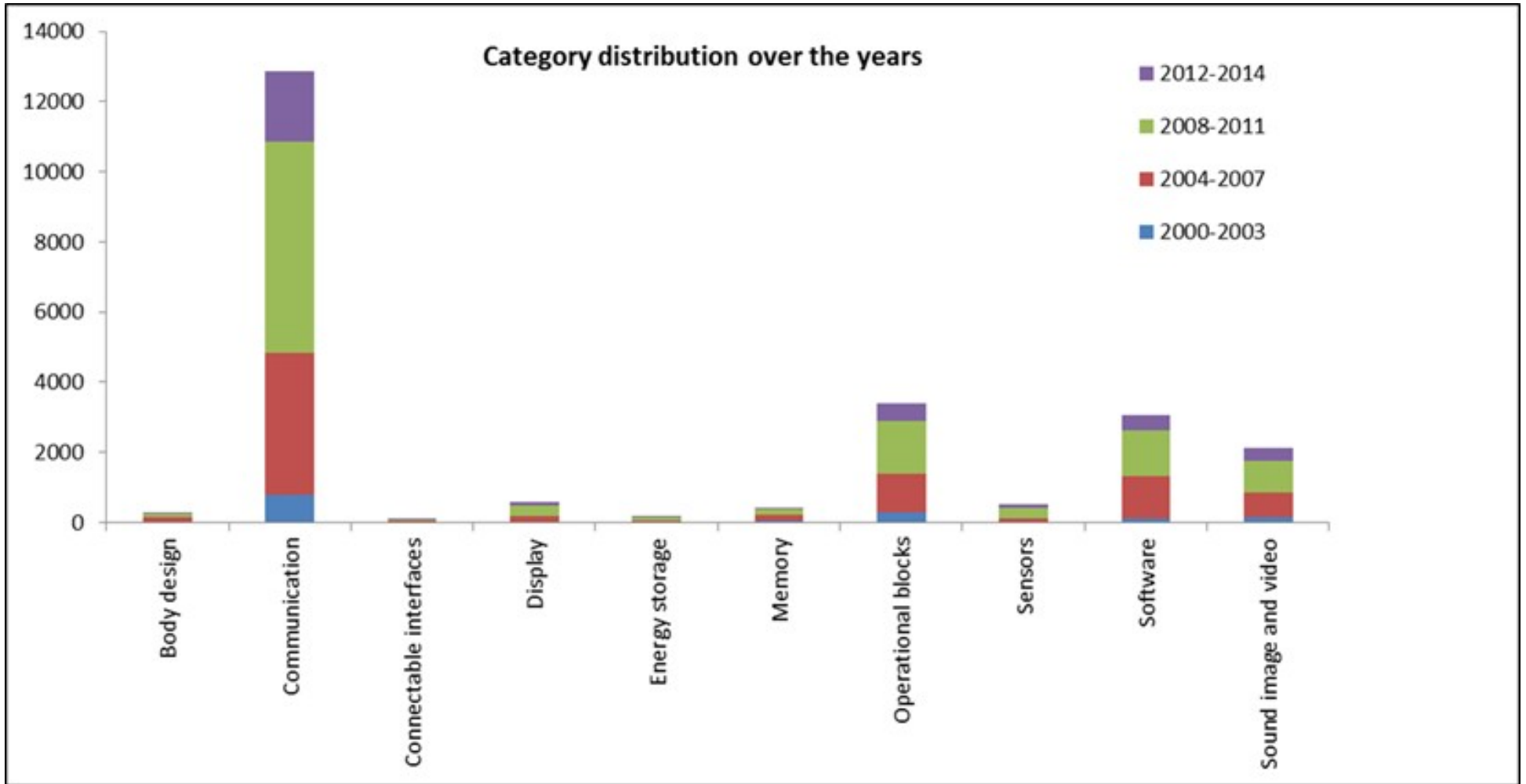
Patent Landscaping

- Patents and patent applications held by 50 different companies in India
- 4,000 live patents granted for different mobile phone technologies
- 19,500 patent applications at the Indian Patent Office
- Categories: Communication, Energy storage, Software, Display, and so on.
- Sub-categories
- User equipment, Infrastructure, both

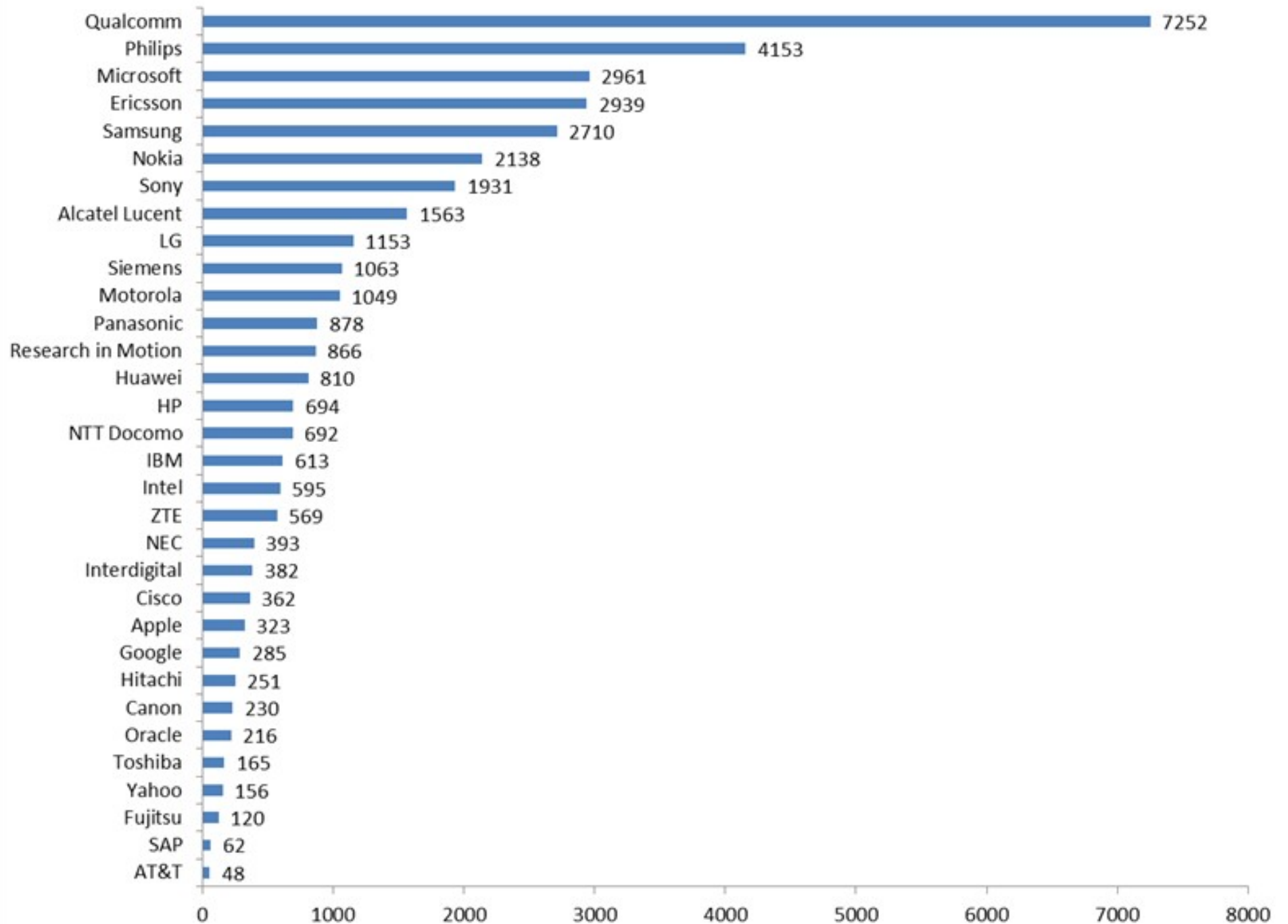
Filing trend



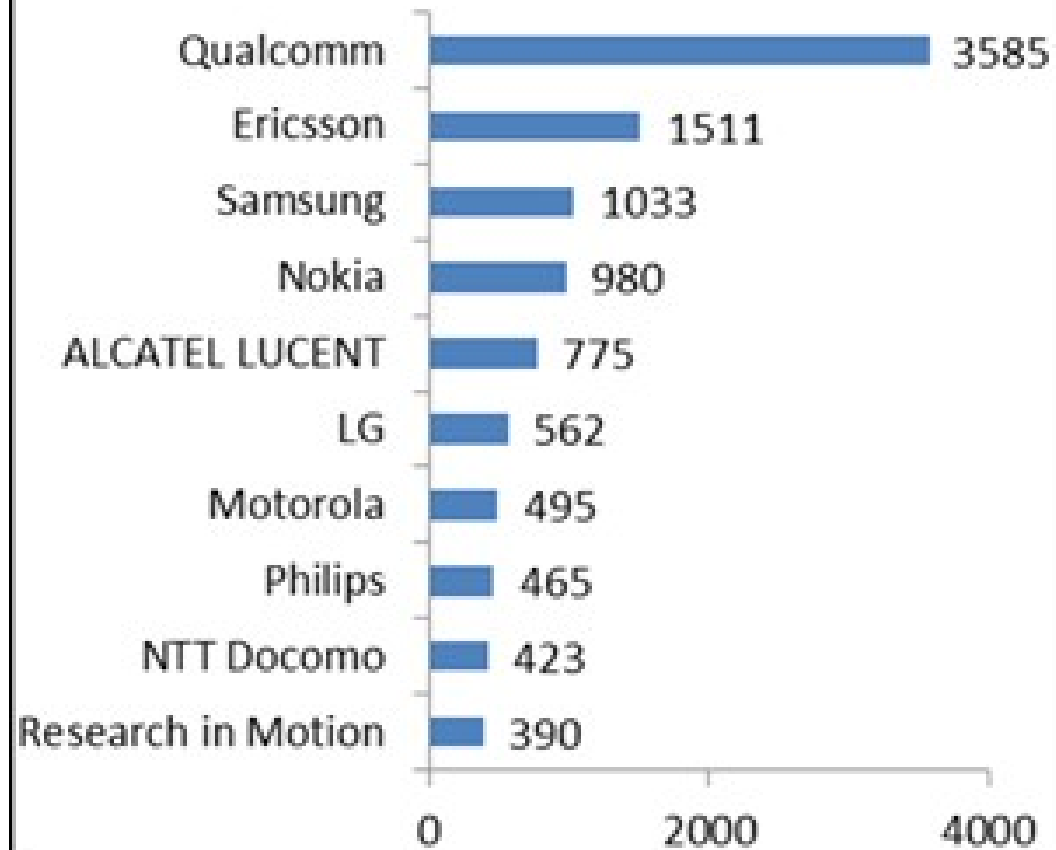
Categories	Number of patents and patent applications	Granted patents
Communication	12,857	2,378
Operational Blocks	3,407	729
Software	3,068	334
Sound image video	2,132	334
Display	599	46
Sensors	531	22
Memory	415	109
Body design	274	57
Energy Storage	175	21
Connecting interfaces	111	22



Top Assignees



Communication



For more: <http://cis-india.org/author/rohini>