
FUTURE PATENT WARS

Beyond the Smartphone Battles and Bloodbath

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Dolcera

January 28, 2015



IP Analytics

Internet
Services &
Products

Maximising
IP Value

Computer
Technology

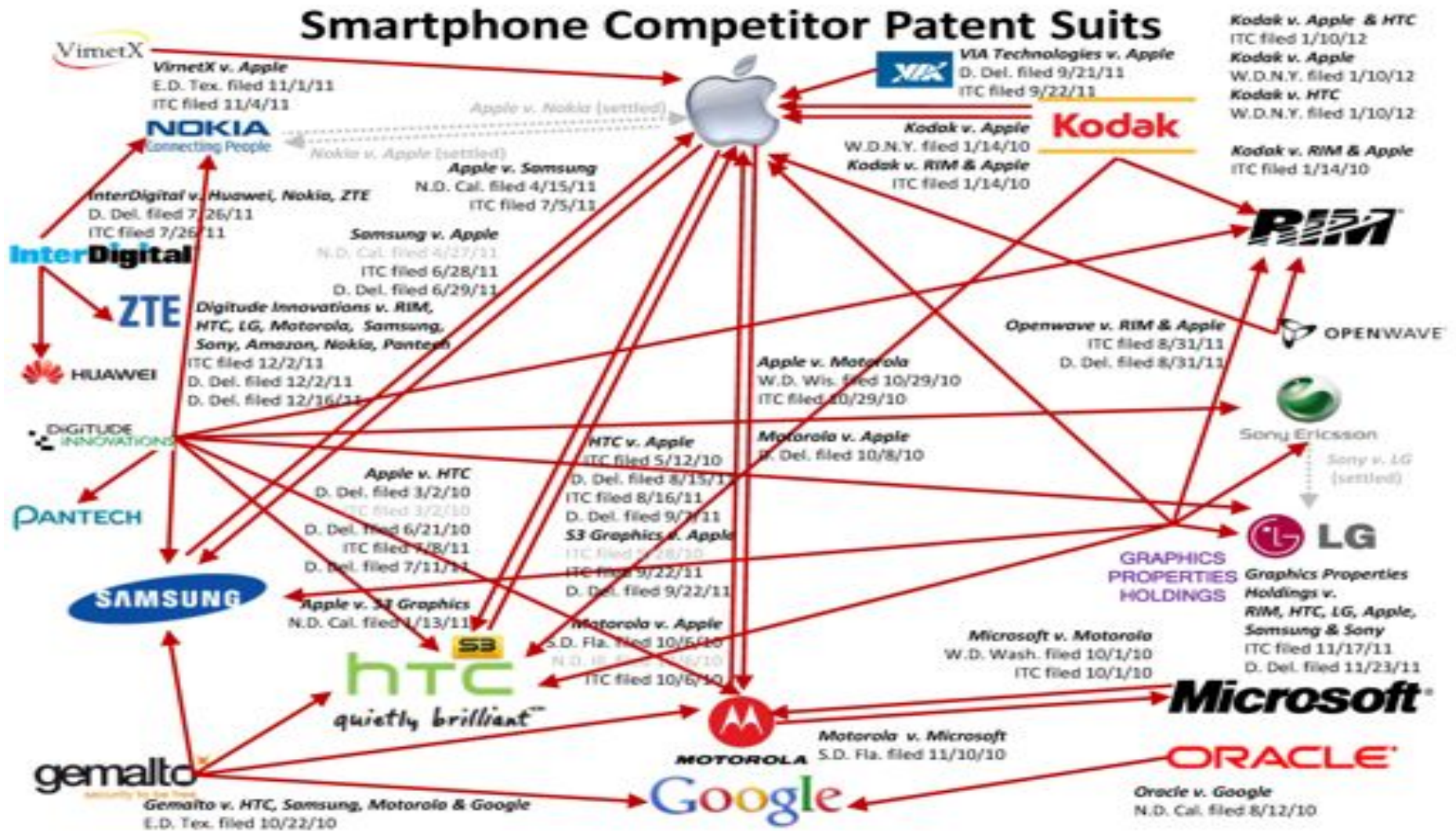
Diverse
Electronics

- The following slides have been developed by Dolcera's IP and market analytics teams using our proprietary analytics platform
- We will summarize a few key quantitative parameters we see correlating well with spikes in patent lawsuits

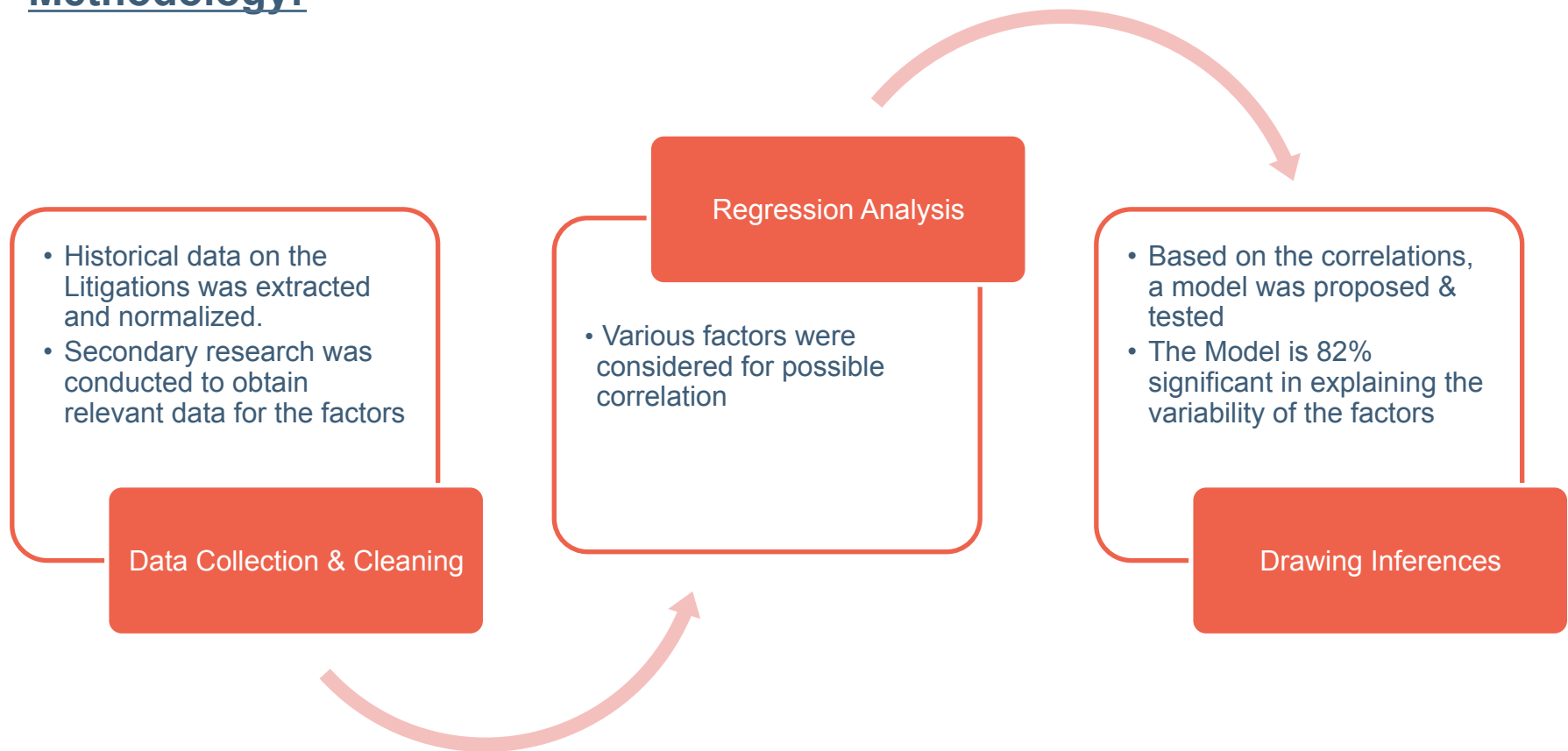
Boring definition – Patent wars are efforts by major technology players using patents to increase or secure market share

Real definition – Patent wars are a complex techno-legal battleground where major global forces combat for supremacy as the world watches

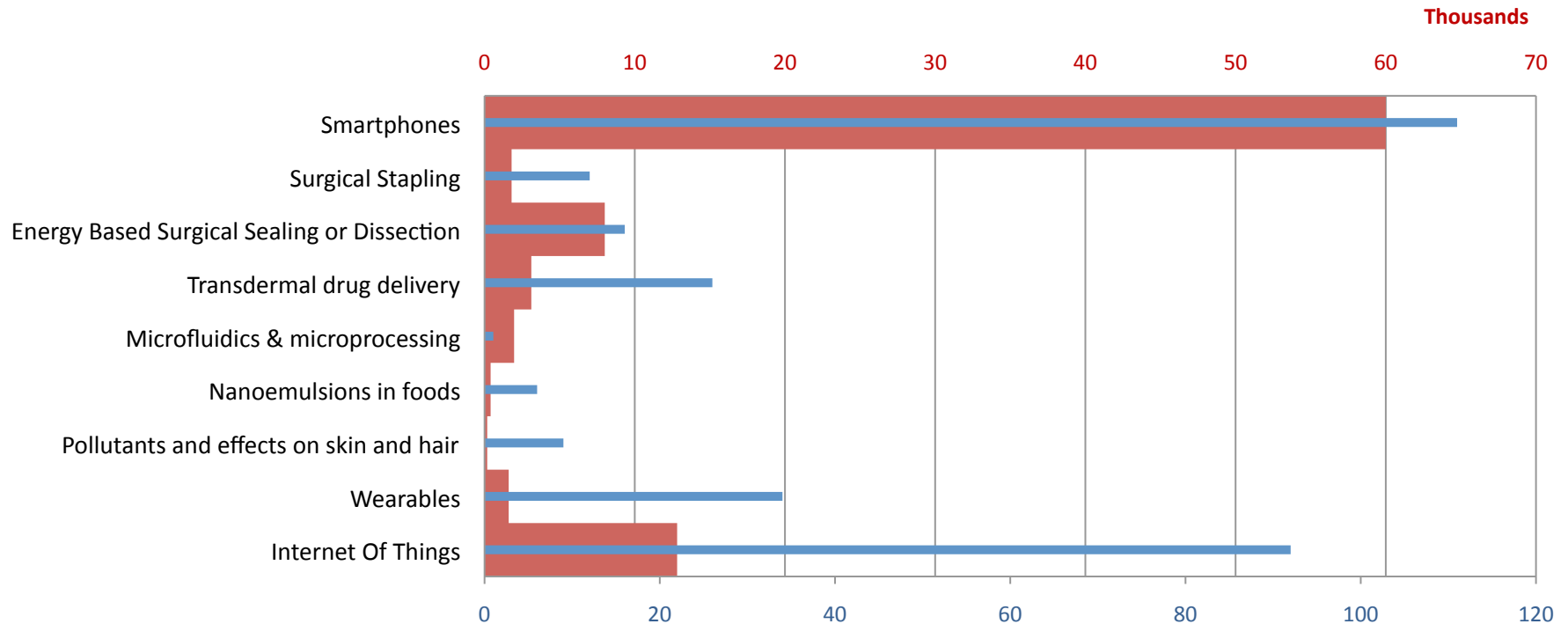
“The only thing more exciting than a patent war is the upcoming season of House of Cards”



Methodology:



Lawsuits vs Patents – Filing Dates: 2000 - 2014



	Internet Of Things	Wearables	Pollutants and effects on skin and hair	Nanoemulsions in foods	Microfluidics & microprocessing	Transdermal drug delivery	Energy Based Surgical Sealing or Dissection	Surgical Stapling	Smartphones
■ Number of patents	12821	1607	177	403	1967	3113	8003	1800	60000
■ Number of lawsuits	92	34	9	6	1	26	16	12	111

Considered Influencing Factors

No of patents

Revenue (in millions USD)

R&D Spend (in millions USD)

Hype Cycle

Non Practicing Entities

Operating Company

Individual inventors

Research Centers & Universities

Regression Analysis

Significant Factors



No of patents

R&D Spend(in millions USD)

Hype Cycle

NPE

Operating Company

The no. of lawsuits in area was found dependent on the factors as below:

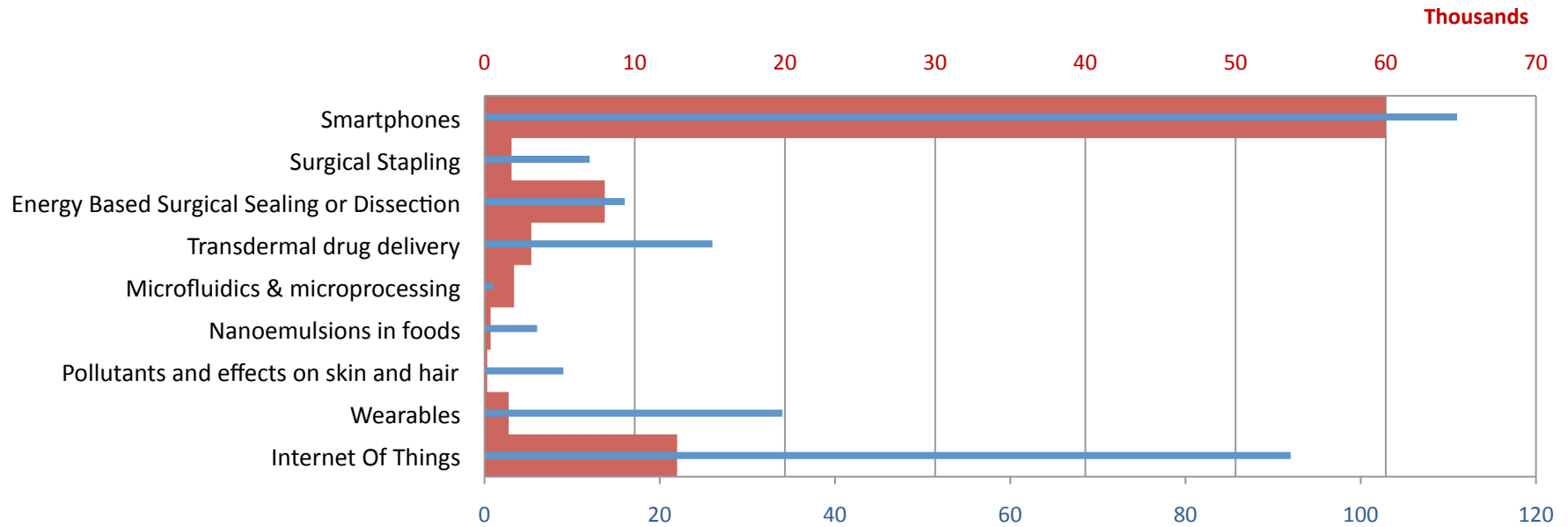
No of lawsuits =

$$\begin{aligned} & - 1.027 + 0.0072 * \text{No of patents} \\ & + 0.0011 * \text{R\&D Spend (in Millions)} \\ & - 0.0103 * \text{Hype Cycle} \\ & - 0.0009 * \text{NPE} \\ & + 0.0055 * \text{Operating Company} \end{aligned}$$

Interactive Dashboard : [Sensitivity Analysis](#)

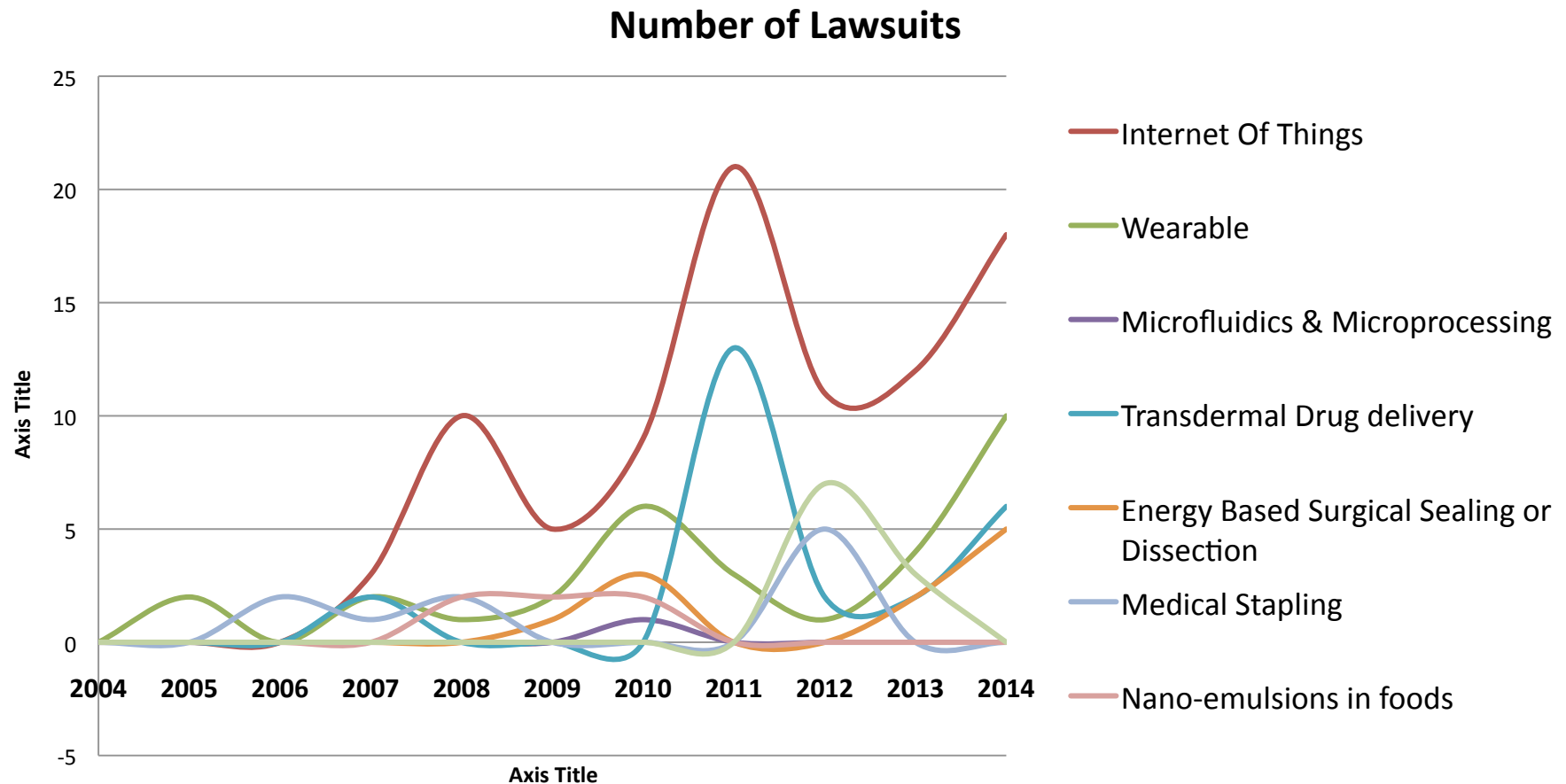


Lawsuits vs Patents – Filing Dates: 2000 - 2014



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Direct Correlation between patent count & litigation



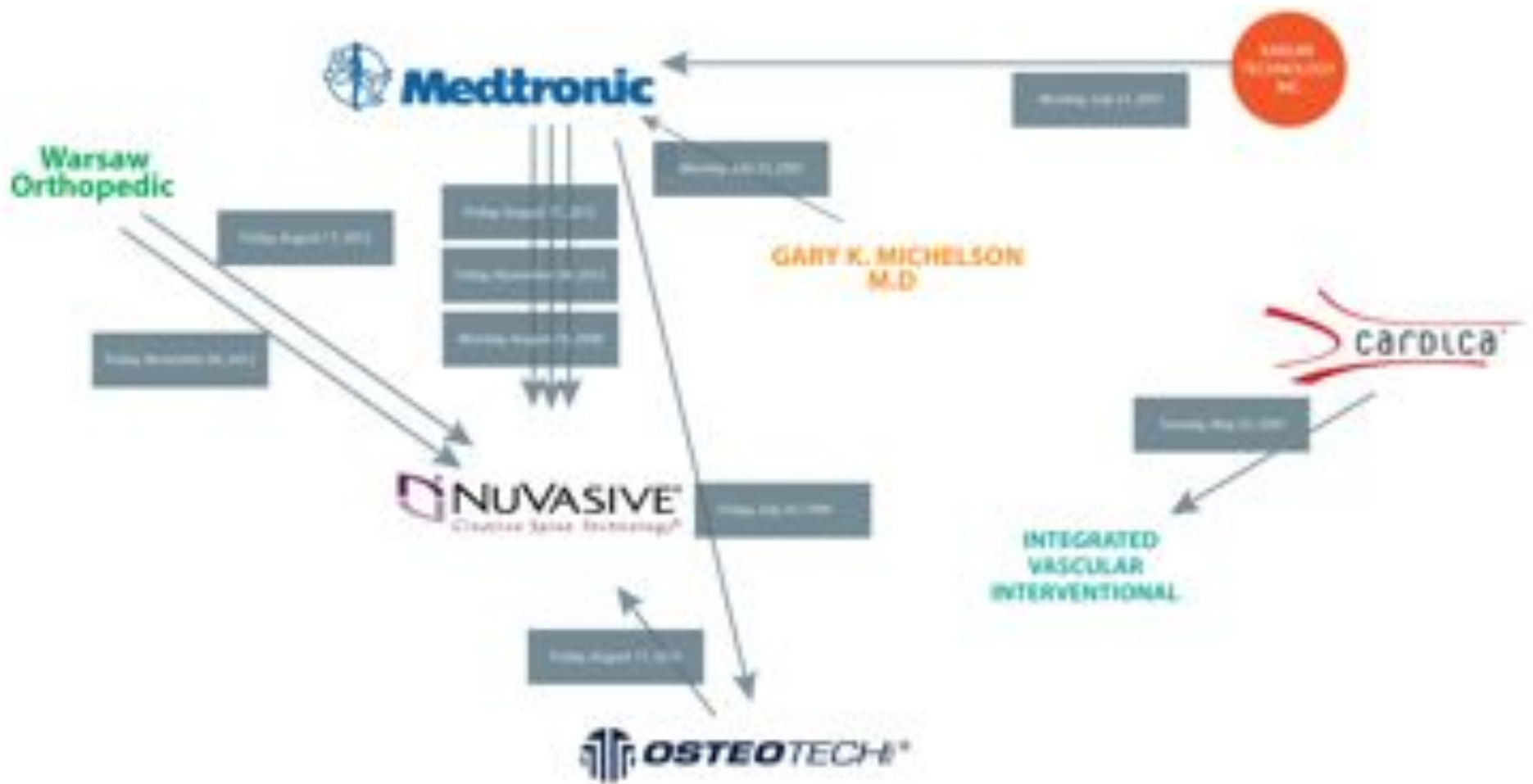
Patent lawsuits in Wearables/IOT started before the Hype



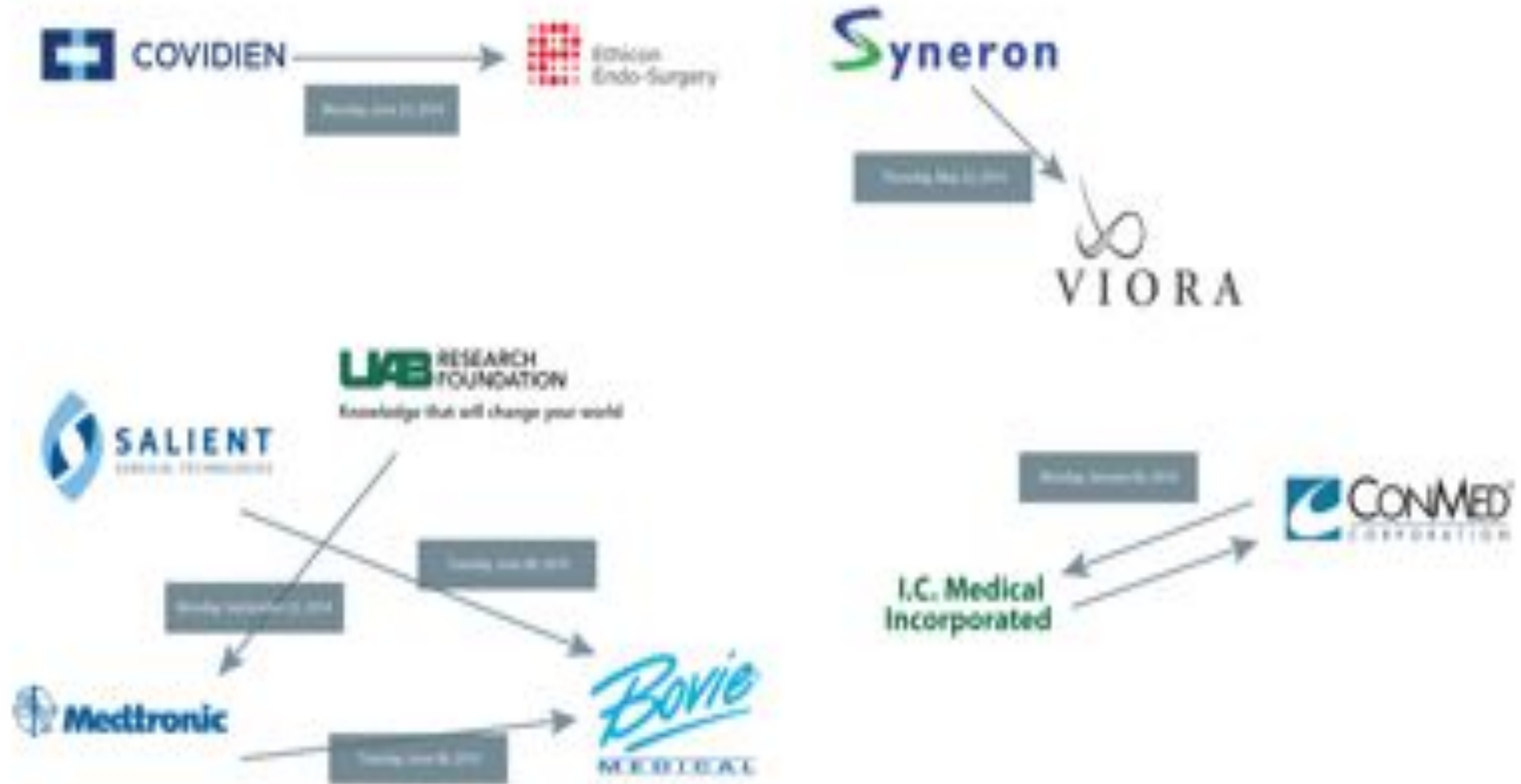
Low patent count, Medium R&D spend, Low Hype, Low NPEs



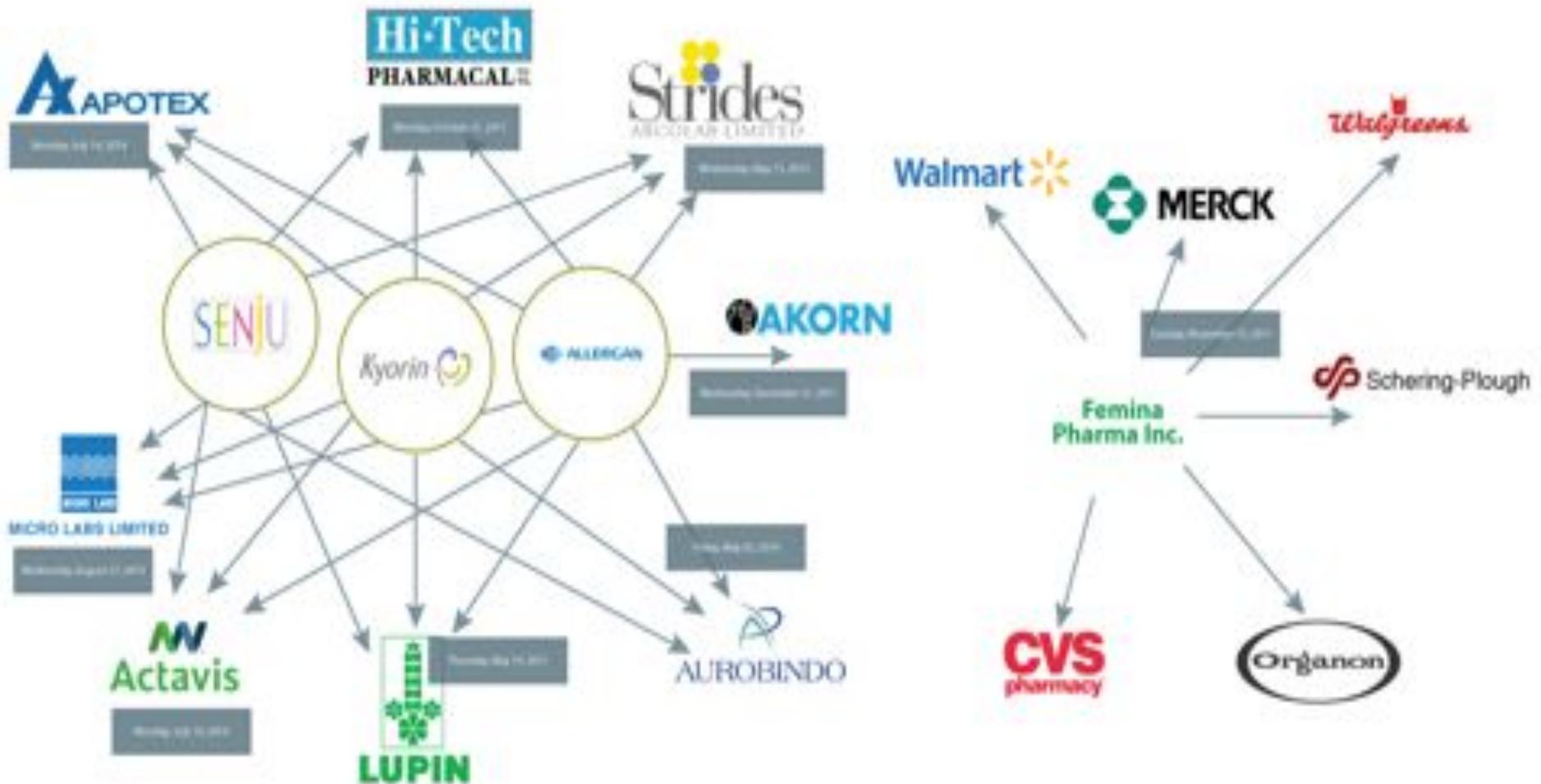
Low patent count, Medium R&D spend, Low Hype, No NPEs



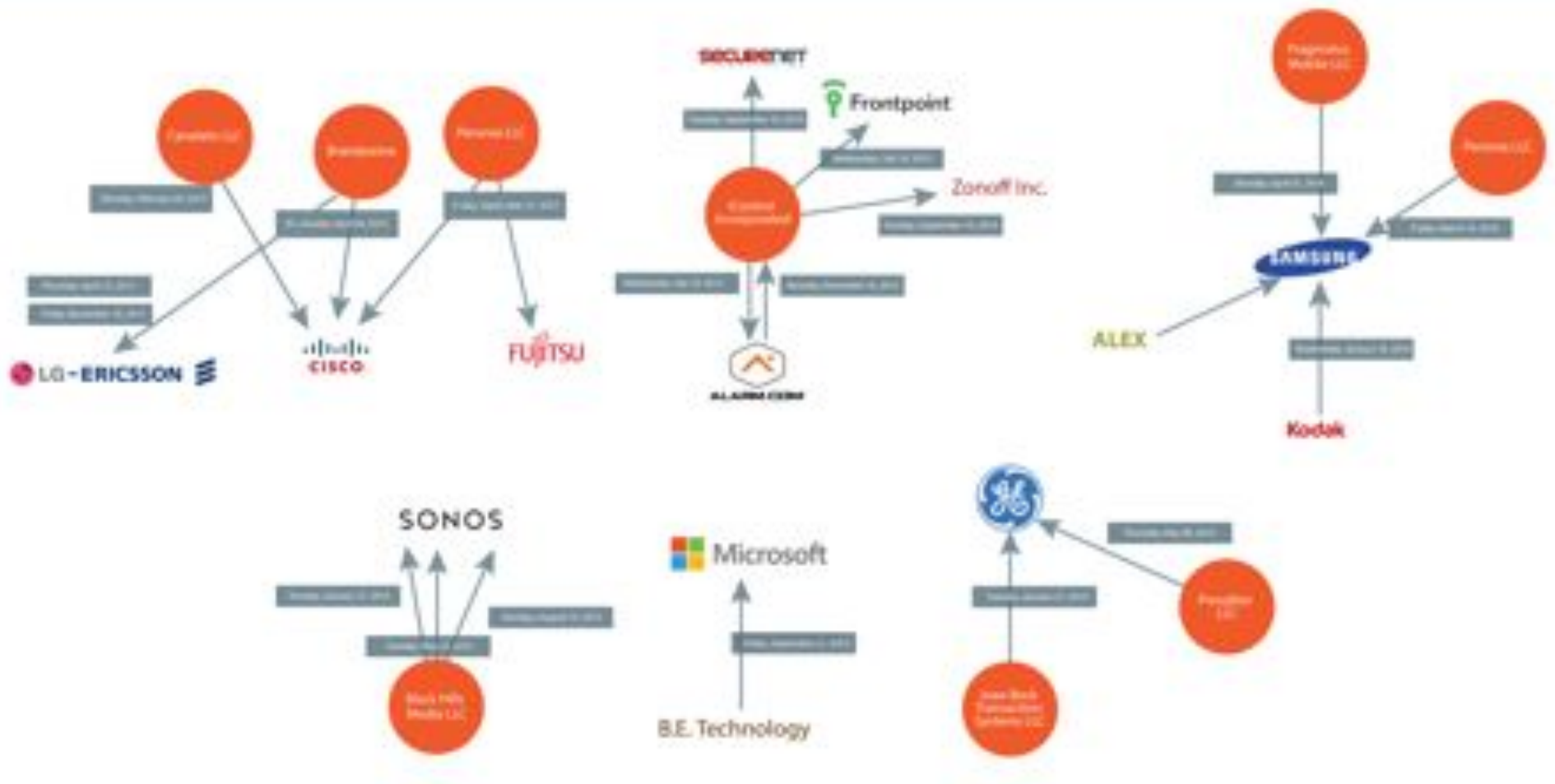
Medium Patent Count, High R&D spend, Low Hype, Low NPEs



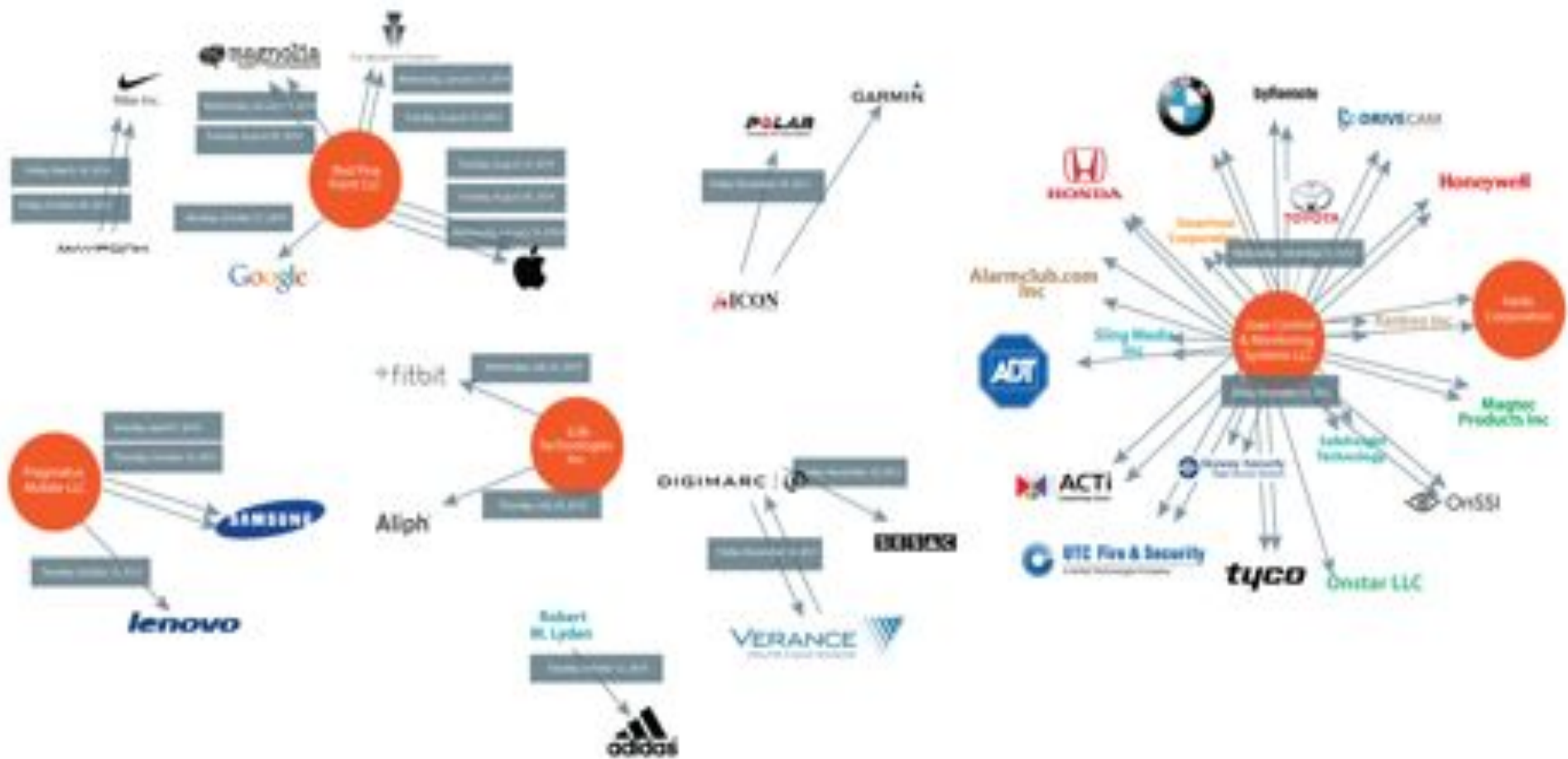
High Patent Count, High R&D spend, Low Hype, Low NPEs



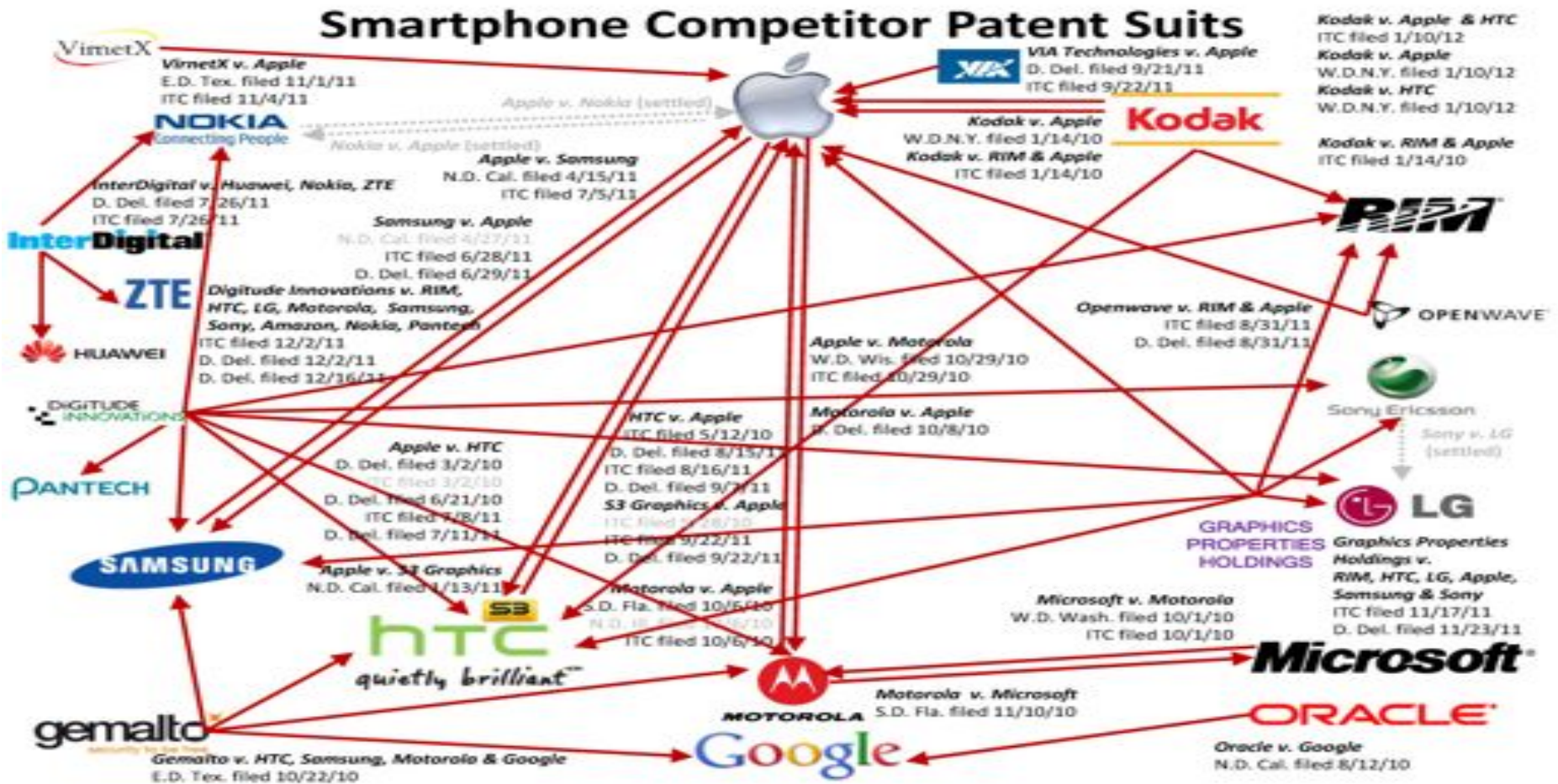
High Patent Count, High R&D spend, Low Hype, Low NPEs



High Patent Count, High R&D spend, High Hype, High NPEs



High Patent Count, High R&D spend, High Hype, High NPEs



High Patent Count, High R&D spend, High Hype, High NPEs

Technology Area	Plaintiff		Defendant	
Internet Of Things	Brandywine Communications, Penovia, LVL Patent Group, B.E. Technology, Microsoft	25%	Samsung, Cisco, Microsoft, Nokia, LG	25%
Wearable	Red Pine Point , Pragmatus Mobile, PhatRat Technology, Digimarc, Icon Health	46%	Samsung, Apple, Lenovo, Nike, Motorola	38%
Smartphones	Motorola, Apple, Nokia, Interdigital, Ericsson	67%	Apple, HTC, Samsung, Microsoft, Motorola	70%
Transdermal Drug delivery	Senju Pharmaceutical, Allergan, Kyorin Pharmaceutical, Femina Pharma	98%	Apotex, Lupin, Actavis, Aurobindo Pharma, Hi-Tech Pharmacal Co.	79%
Energy Based Surgical Sealing or Dissection	Boston Scientific, Bovie Medical, ConMed , Cook , Ethicon Endo-Surgery	50%	Boston Scientific, Covidien Sales, ConMed, L.C. Medical, Mako Surgical	37%
Medical Stapling	Medtronic, Warsaw Orthopedic, Osteotech, Cardica	91%	Nuvasive, Medtronic, Osteotech, Integrated Vascular Interventional Tech., Total	100%
Nano-emulsions in foods	Elan Pharma International, Fournier Laboratories Ireland	100%	Teva Pharmaceuticals USA, Ranbaxy Laboratories, Impax Laboratories, Lupin, Biovail Labs	77%
Pollutants and Effects on skin & hair	Allergan, Duke University	100%	Watson Pharma, Apotex, Hi-Tech Pharmacal, Sandoz, Total	94%

The smartphone patent wars were in a way unique in HighTech

Thank You!!

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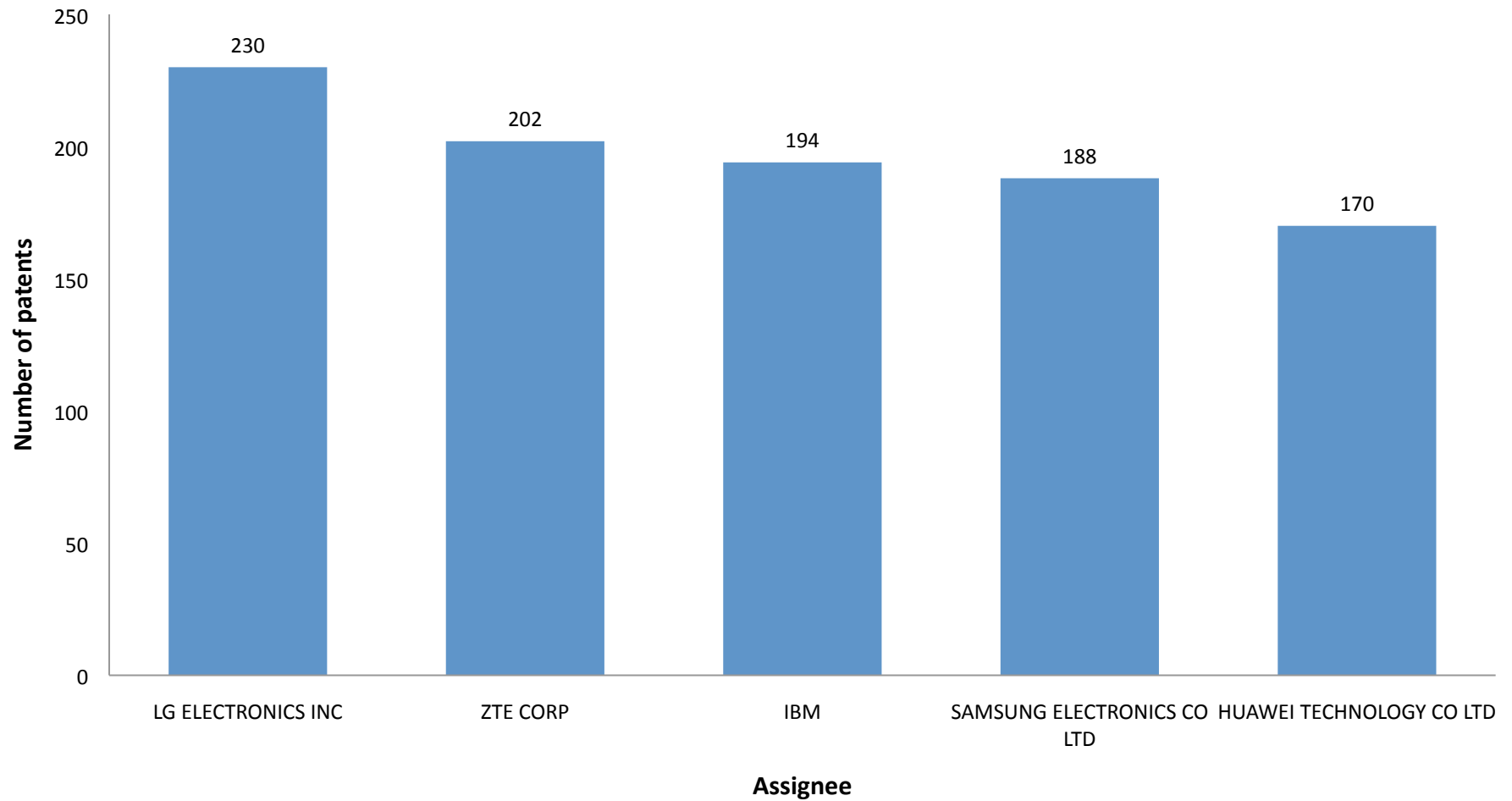
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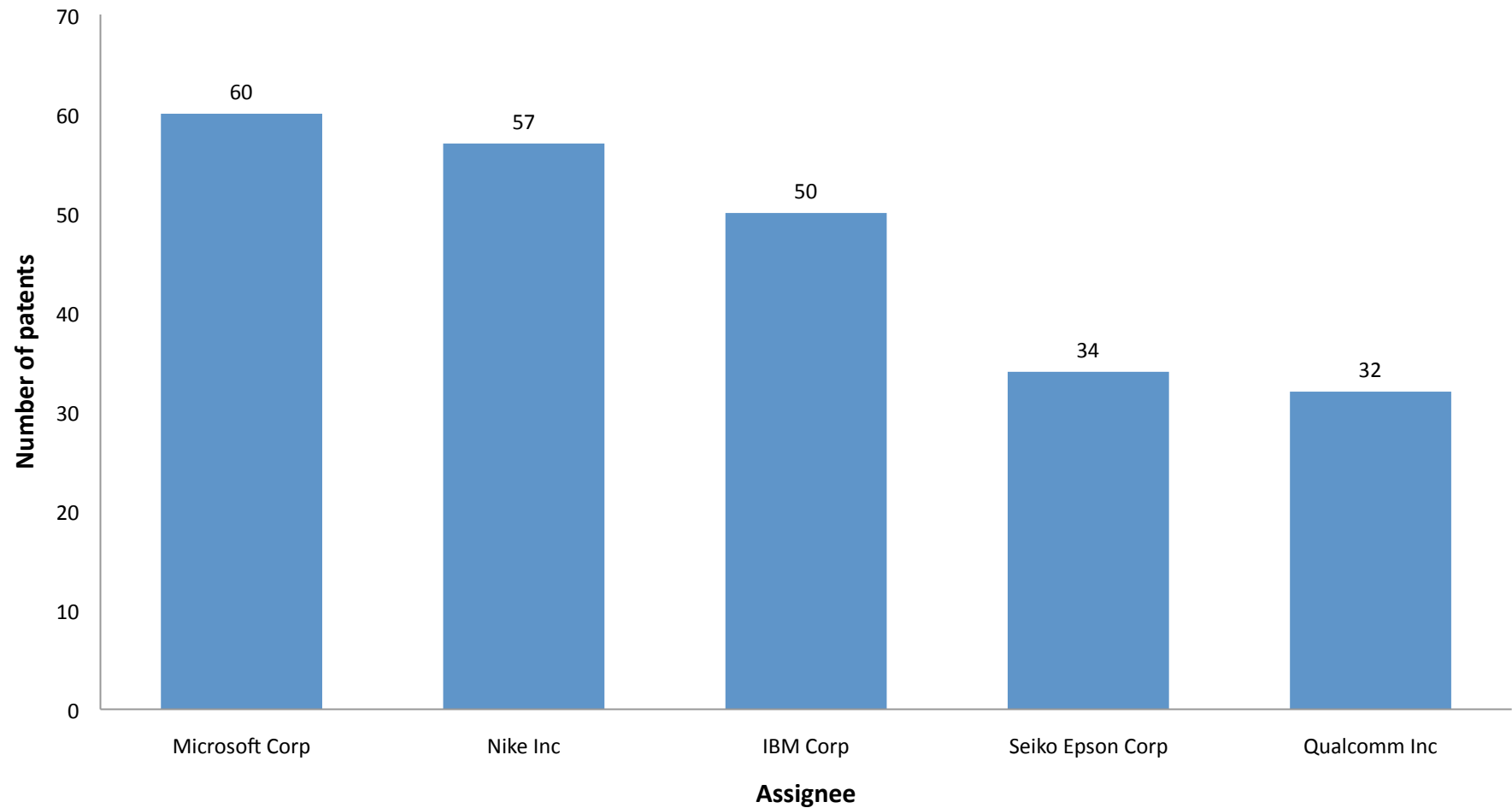
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Appendix

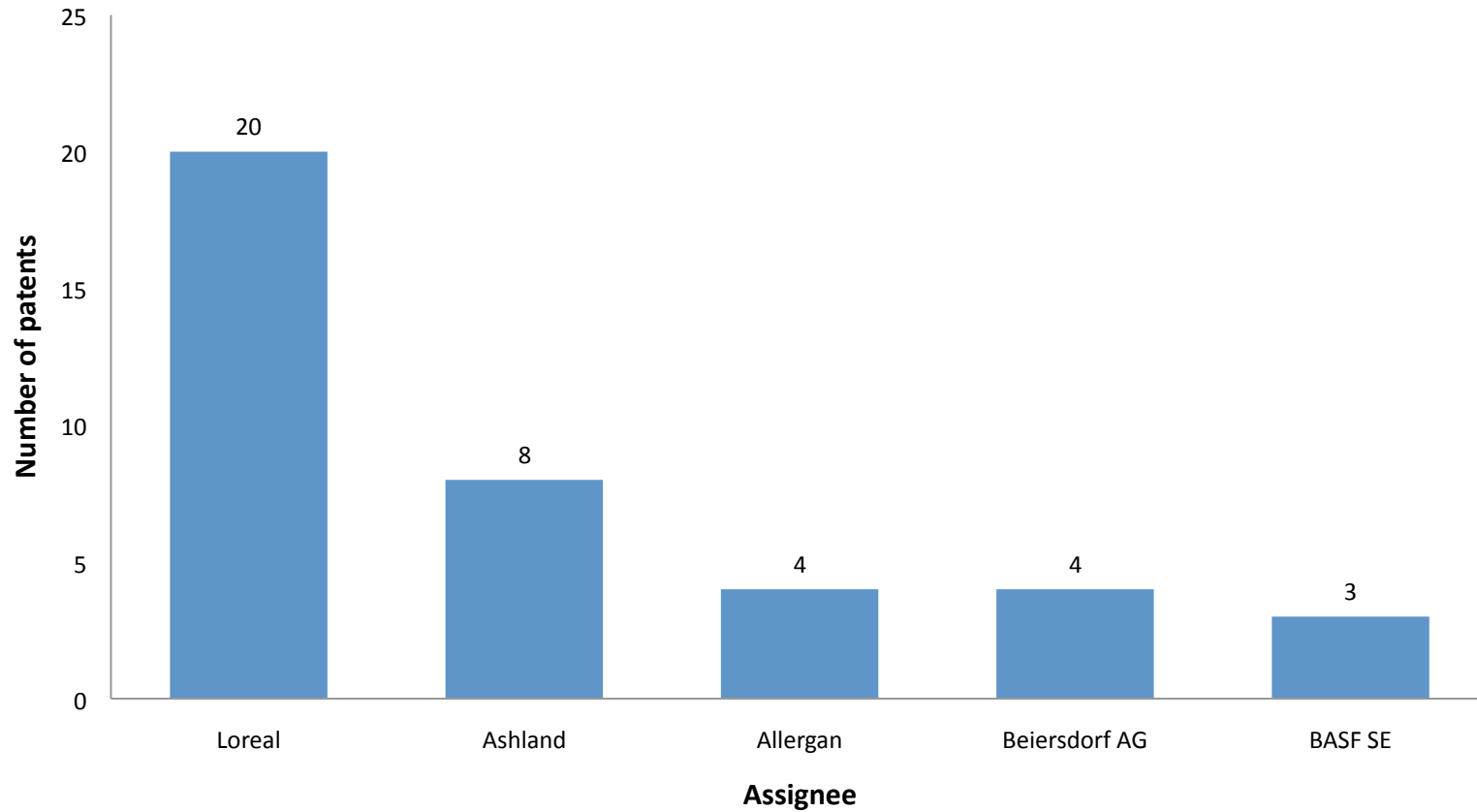
Internet of Things - Top 5 Assignees



Wearable Technology - Top 5 Assignees

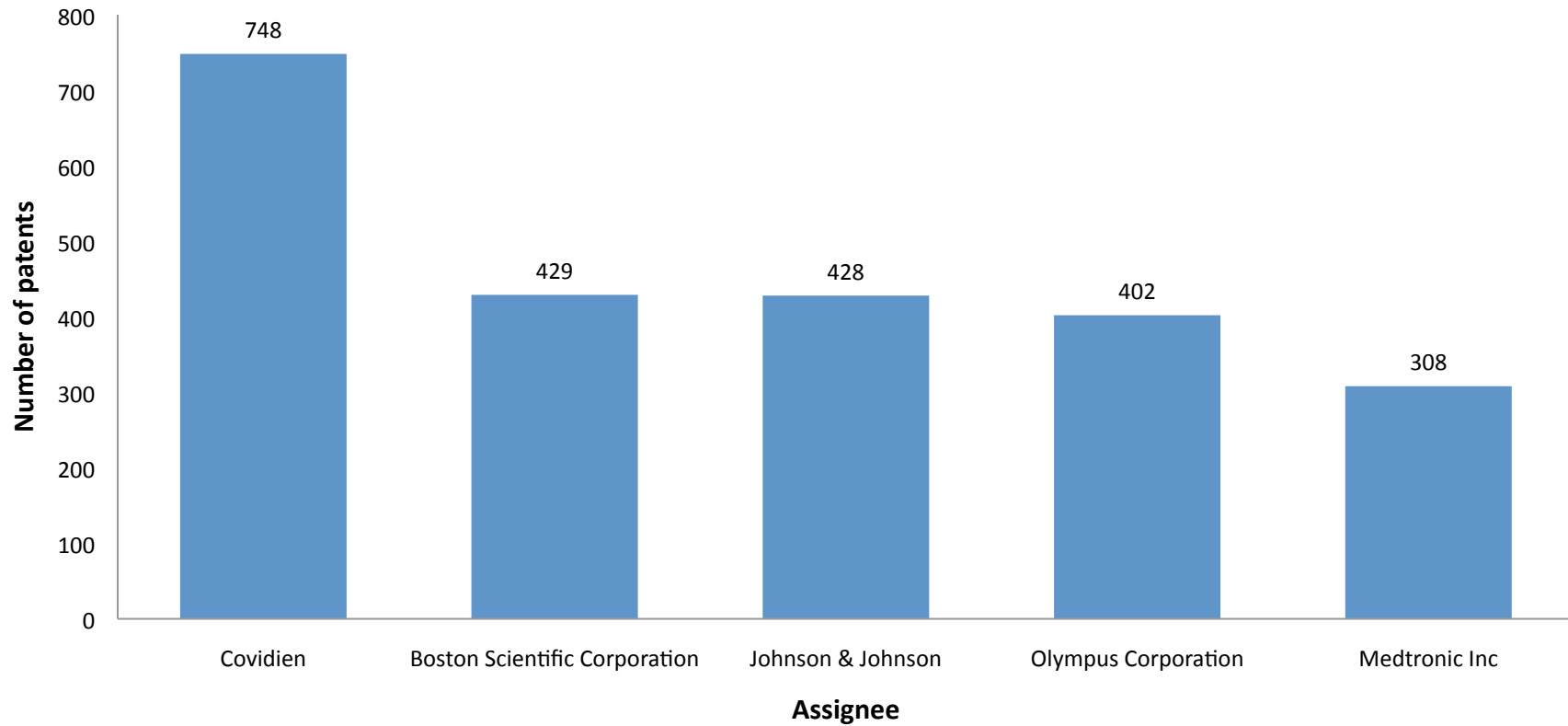


Pollutants and Effects on Skin & Hair - Top 5 Assignees

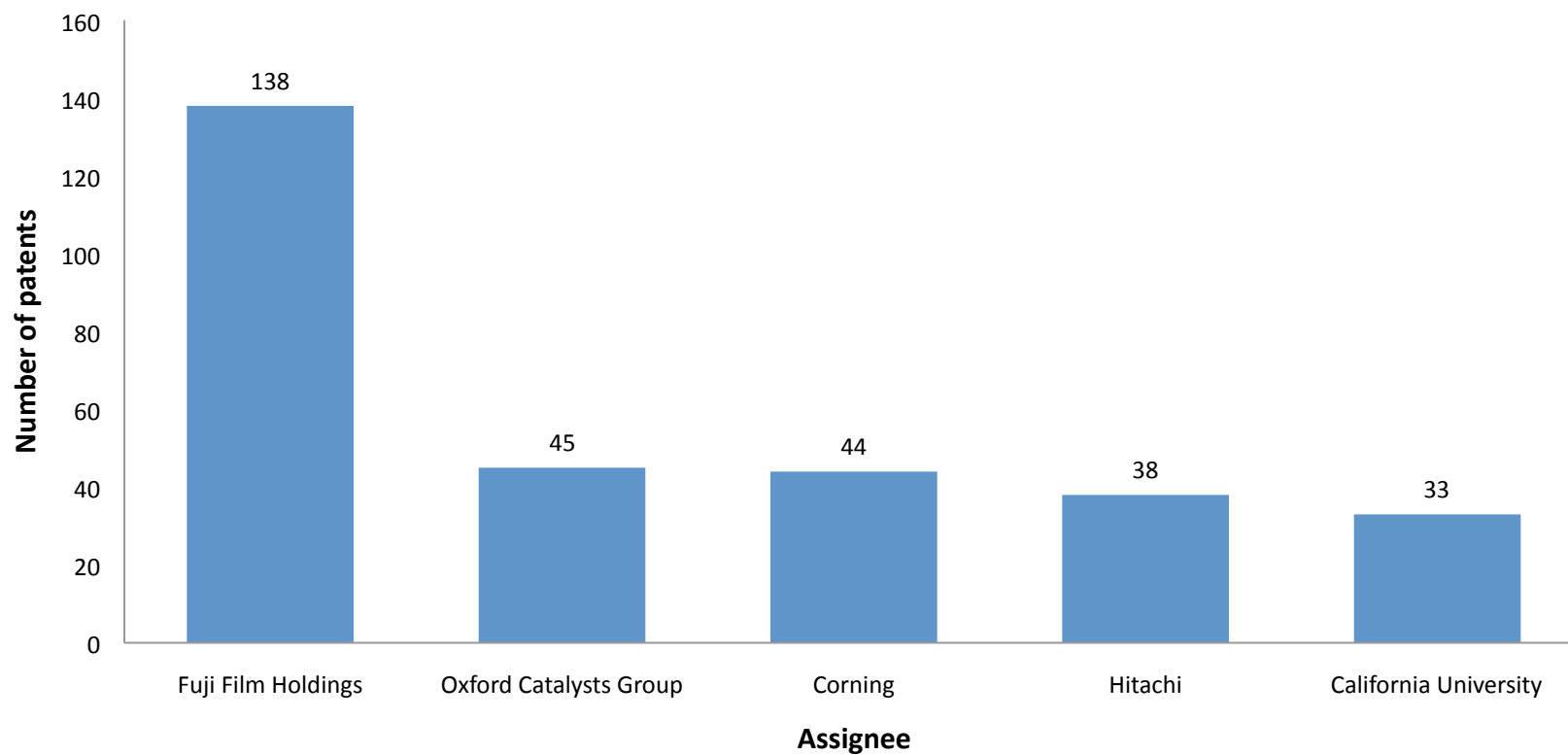


Dolcera Energy Based Surgical Sealing or Dissection

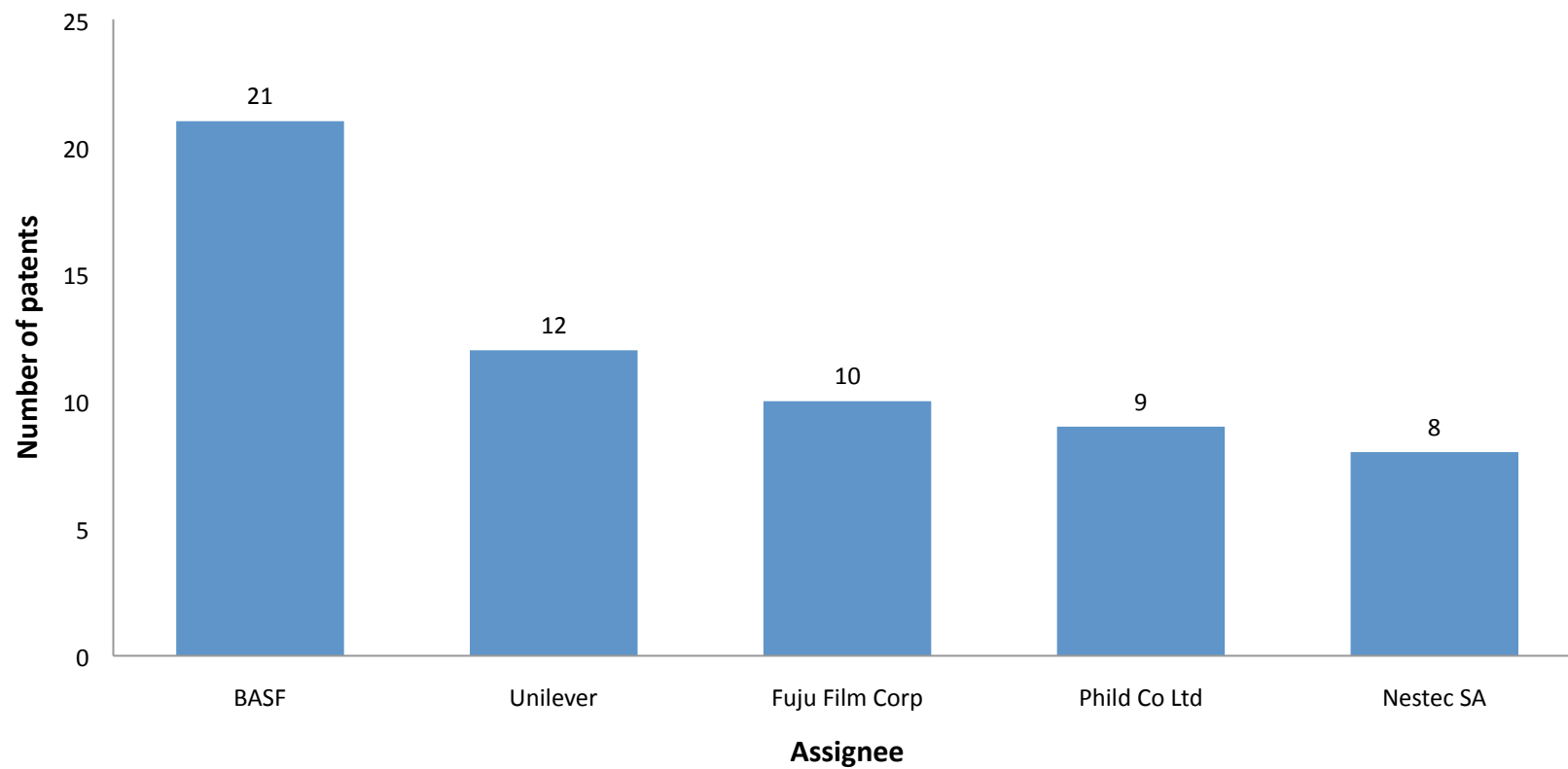
Energy Based Surgical Sealing or Dissection - Top 5 Assignees



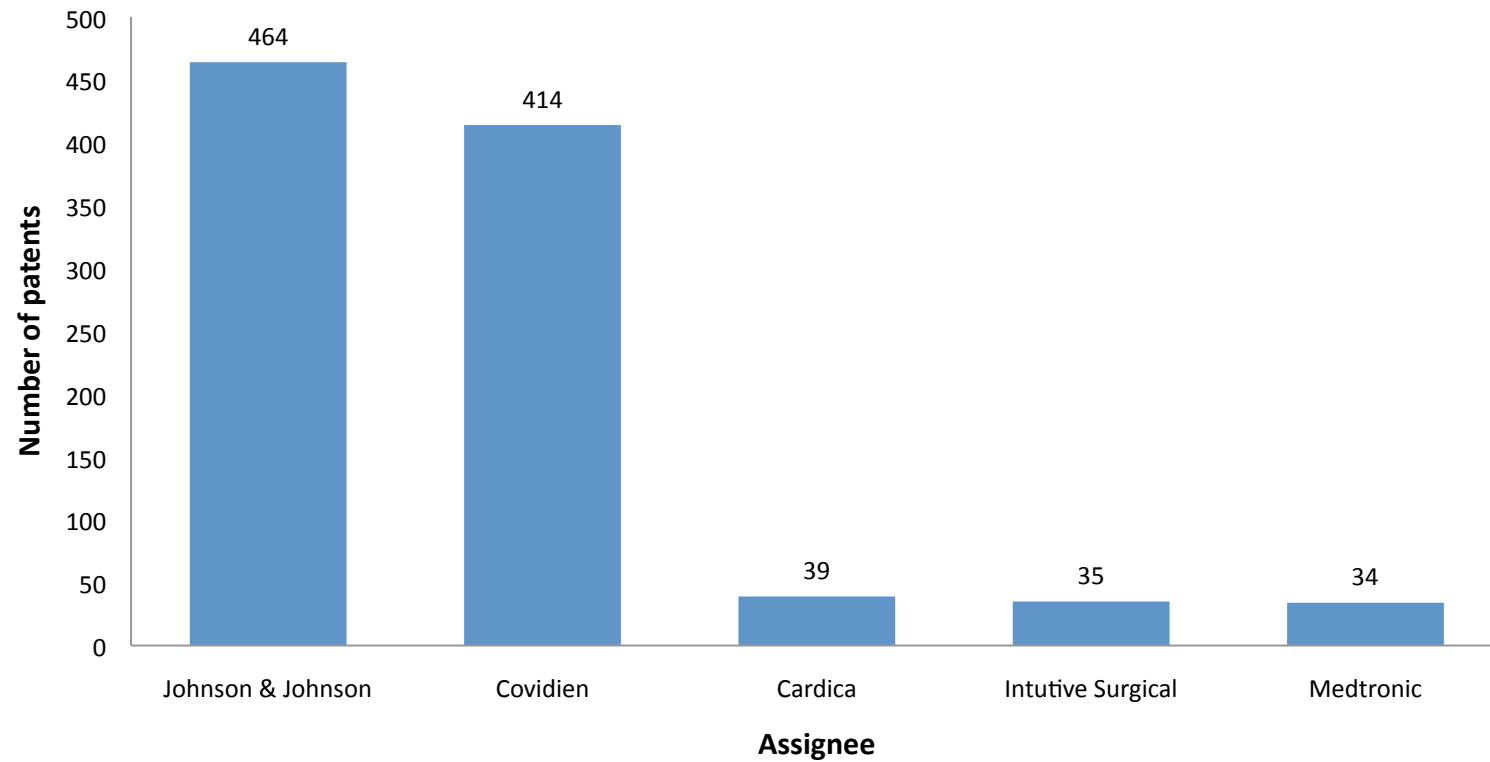
Microfluidics & Microprocessing - Top 5 Assignees



Nanoemulsions in Foods - Top 5 Assignees



Surgical Stapling - Top 5 Assignees



Transdermal Drug Delivery - Top 5 Assignees

