

2008

# **BOLIVEN PATENTS TOP 25**

Innovation And Patent Leaders In The U.S. For 2008

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## **ABOUT BOLIVEN**

Boliven is an invitation-only trusted community for leading innovators, where top inventors, patent professionals, and technology entrepreneurs connect with the patent information and professionals they need to innovate and to succeed. Founded in 2007, Boliven's growing membership now includes leading inventors, IP law partners, technology licensing directors and professionals, and venture investors from among the Fortune 100, top 20 law firms, top 25 research universities, and leading technology-focused venture capital firms in the United States. Visit us at [www.boliven.com](http://www.boliven.com)

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## Report Overview

The 2008 Boliven Patents Top 25 Report offers scientists and inventors; technology entrepreneurs, investors, and executives; and patent and licensing professionals a quick summary of the most important inventors, companies, patents, and technology areas appearing in U.S. patents granted during the year 2008. Compiled with Boliven's easy-to-use patent search and analytics tools, the report provides a snapshot of some of the most innovative people and institutions in the United States during the year 2008. This report may be copied in whole or in part with attribution.

## Our Methodology

The Boliven Patents Top 25 Report was compiled in less than one day with Boliven's easy-to-use patent search and analytics technologies. After employing the same tools our members use to develop the initial lists, Boliven team members took care to de-duplicate entries to arrive at more accurate listings. Our listings may differ slightly from those compiled by other database or information service providers that use slightly different de-duplication methodologies. If you discover errors or omissions in this report, please send us an email to [service@boliven.com](mailto:service@boliven.com). We would be happy to correct them.

## The Leaders by Category

The 2008 Boliven Patents Top 25 Report compiles the top assignees, inventors, agents, examiners, most referenced patents, as well as a number of other Top 25 Lists relevant to key decision-makers.

1. **Top Assignees (All patents):** Samsung Electronics Co., Ltd.
2. **Top Assignees (Utility only):** IBM
3. **Top Assignees (Design only):** Samsung Electronics, Ltd.
4. **Top Assignees (Plant only):** Syngenta Seeds B.V.
5. **Top Assignees with Most Expiring Patents:** Hitachi, Ltd.
6. **Top Assignees (Universities Only):** The Regents of the University of California
7. **Top Inventors (Assignee):** Kia Silverbrook (Silverbrook Research Pty Ltd.)
8. **Top Patent Agents:** Oblon, Spivak, McClelland, Maier & Neustadt, P.C.
9. **Top Examiners:** Ian Simmons
10. **Most Cited Patents:** Mutant dwarfism gene of petunia, Assignee: Goldsmith Seeds, Inc., Inventors: Mary Hunsperger and Mathilde Holtrop
11. **Top U.S. Classifications:** 435/6, Chemistry: Molecular Biology and Microbiology – involving nucleic acid

## Top Assignees (All Patents)

Rank	Assignee	# Patents
1	Samsung Electronics Co., Ltd.	4,188
2	International Business Machines Corporation (IBM)	4,107
3	Microsoft Corporation	2,292
4	Canon Kabushiki Kaisha	2,077
5	Intel Corporation	1,754
6	Sony Corporation	1,684
7	Matsushita Electric Industrial Co., Ltd.	1,651
8	Kabushiki Kaisha Toshiba	1,600
9	Fujitsu Limited	1,484
10	Hewlett-Packard Development Company, L.P.	1,433
11	Hitachi, Ltd.	1,322
12	Seiko Epson Corporation	1,268
13	Micron Technology, Inc.	1,243
14	LG Electronics Inc.	1,000
15	General Electric Company	911
16	Infineon Technologies AG	839
17	Ricoh Company, Ltd.	816
18	Honda Motor Co., Ltd.	785
19	Nokia Corporation	760
20	Texas Instruments Incorporated	753
21	Cisco Technology, Inc.	716
22	Siemens Aktiengesellschaft	702
23	Broadcom Corporation	639
24	Toyota Jidosha Kabushiki Kaisha	615
25	Sharp Kabushiki Kaisha	613

## Top Assignees (Utility Only)

Rank	Assignee	# Patents
1	International Business Machines Corporation	4,088
2	Samsung Electronics Co., Ltd.	3,436
3	Canon Kabushiki Kaisha	2,059
4	Microsoft Corporation	2,011
5	Intel Corporation	1,754
6	Kabushiki Kaisha Toshiba	1,553
7	Fujitsu Limited	1,484
8	Matsushita Electric Industrial Co., Ltd.	1,474
9	Sony Corporation	1,459
10	Hewlett-Packard Development Company, L.P.	1,383
11	Hitachi, Ltd.	1,307
12	Micron Technology, Inc.	1,238
13	Seiko Epson Corporation	1,222
14	General Electric Company	902
15	Infineon Technologies AG	839
16	Ricoh Company, Ltd.	801
17	LG Electronics Inc.	798
18	Texas Instruments Incorporated	753
19	Cisco Technology, Inc.	702
20	Siemens Aktiengesellschaft	678
21	Honda Motor Co., Ltd.	648
22	Broadcom Corporation	637
23	Nokia Corporation	602
24	Silverbrook Research Pty Ltd	598
25	Sharp Kabushiki Kaisha	589

## Top Assignees (Design Only)

Rank	Assignee	# Patents
1	Samsung Electronics Co., Ltd.	733
2	Microsoft Corporation	281
3	Wolverine World Wide, Inc.	251
4	Sony Corporation	225
5	LG Electronics Inc.	202
6	Nike, Inc.	191
7	Matsushita Electric Industrial Co., Ltd.	177
8	The Procter & Gamble Company	171
9	Toyota Jidosha Kabushiki Kaisha	169
10	Nokia Corporation	158
11	Black & Decker Inc.	138
12	Honda Motor Co., Ltd.	137
13	The Goodyear Tire & Rubber Company	125
14	Kohler Co.	110
15	J. Choo Limited	103
16	Karsten Manufacturing Corporation	91
17	Ford Global Technologies, LLC	89
18	Hon Hai Precision Industry Co., Ltd.	88
19	Beifa Group Co., Ltd.	86
20	Cheng Uei Precision Industry Co., Ltd.	83
21	Hannspree, Inc.	75
22	Liberty Hardware Mfg. Corp.	75
23	Minka Lighting, Inc.	69
24	3M Innovative Properties Company	64
25	Acushnet Company	60

## Top Assignees (Plant Only)

Rank	Assignee	# Patents
1	Syngenta Seeds B.V.	69
2	Ball Horticultural Company	53
3	Yoder Brothers Inc.	46
4	Klemm + Sohn GmbH + Co. KG	43
5	Suntory Flowers Limited	42
6	Terra Nova Nurseries, Inc.	33
7	CP Delaware, Inc.	22
8	Jackson & Perkins Wholesale, Inc.	20
9	Fides B.V.	19
10	Bonza Botanicals Pty., Ltd.	18
11	Capitol Green Investments Ltd.	18
12	Verwer Dahlias B.V.	18
13	Sakata Seed Corporation	17
14	The Paul Ecke Ranch 15	15
15	Poulsen Roser A/S	14
16	Amerinova Properties LLC	13
17	Goldsmith Seeds Europe B.V.	13
18	Florfis AG	12
19	Goldsmith Seeds, Inc.	12
20	Future Plants Licentie B.V.	11
21	Kerry's Bromeliad Nursery, Inc.	11
22	Roses Forever ApS	11
23	Weeks Wholesale Rose Grower, Inc.	11
24	Danziger "Dan" Flower Farm	10
25	Plant 21 LLC	10

## Top Assignees with Most Expiring Patents

Rank	Assignee	# Patents
1	Hitachi Ltd.	1,234
2	Kabushiki Kaisha Toshiba	1,029
3	Mitsubishi Denki Kabushiki Kaisha	952
4	Canon Kabushiki Kaisha	916
5	General Electric Company	826
6	Fuji Photo Film Co., Ltd.	822
7	Eastman Kodak Company	724
8	U.S. Philips Corporation	662
9	International Business Machines Corporation	631
10	Siemens Aktiengesellschaft	516
11	Motorola, Inc.	484
12	NEC Corporation	477
13	Bayer Aktiengesellschaft	474
14	Westinghouse Electric Corp.	459
15	Ciba-Geigy Corporation	413
16	The Dow Chemical Company	401
17	Minnesota Mining and Manufacturing Company	396
18	Sony Corporation	389
19	General Motors Corporation	386
20	Texas Instruments Incorporated	385
21	Minolta Camera Kabushiki Kaisha	384
22	Sharp Kabushiki Kaisha	382
23	Matsushita Electric Industrial Co., Ltd.	378
24	BASF Aktiengesellschaft	373
25	Honda Giken Kogyo Kabushiki Kaisha 360	373

## Top Assignees (Universities Only)

Rank	Assignee	# Patents
1	The Regents of the University of California	252
2	Massachusetts Institute of Technology	228
3	The Board of Trustees of the Leland Stanford Junior University	137
4	California Institute of Technology	115
5	Wisconsin Alumni Research Foundation	99
6	Board of Regents, The University of Texas System	88
7	The Regents of the University of Michigan	78
8	The Johns Hopkins University	68
9	Cornell Research Foundation, Inc.	60
10	Tsinghua University	60
11	The Trustees of Columbia University in the City of New York	55
12	President and Fellows of Harvard College	50
13	The Board of Trustees of the University of Illinois	49
14	Board of Trustees of Michigan State University	48
15	The Trustees of the University of Pennsylvania	45
16	University of Florida Research Foundation, Inc.	44
17	University of Washington	44
18	University of Southern California	41
19	North Carolina State University	40
20	Regents of the University of Minnesota	39
21	Duke University	38
22	The Penn State Research Foundation	35
23	University of South Florida	34
24	Korea Advanced Institute of Science and Technology	33
25	Northwestern University	33

## Top Inventors

Rank	Inventor	Assignee	# Patents
1	Kia Silverbrook	Silverbrook Research Pty Ltd	577
2	Chang-Hwan Hwang	Samsung Electronics Co., Ltd.	248
3	Shunpei Yamazaki	Semiconductor Energy Laboratory Co., Ltd.	208
4	Chang-Soo Lee	Samsung Electronics Co., Ltd.	174
5	Austin Gurney	Genentech, Inc.	167
6	William Wood	Genentech, Inc.	167
7	Audrey Goddard	Genentech, Inc.	165
8	Paul Godowski	Genentech, Inc.	157
9	Paul Lapstun	Silverbrook Research Pty Ltd	140
10	Victoria Smith	Genentech, Inc.	119
11	Manon Belley	Wolverine World Wide, Inc.	103
12	Kyung-geun Lee	Samsung Electronics Co., Ltd.	102
13	Akira Nakazawa	Silverbrook Research Pty Ltd	89
14	Leonard Forbes	Micron Technology, Inc.	88
15	Hideo Ando	Kabushiki Kaisha Toshiba	79
16	David Thompson	American Signature, Inc.	79
17	Simon Robert Walmsley	Silverbrook Research Pty Ltd	79
18	Martin F. Dean	Wolverine World Wide, Inc.	78
19	Garry Raymond Jackson	Silverbrook Research Pty Ltd	78
20	Mark Smith	Yoder Brothers, Inc.	76
21	Yun-Lung Chen	Hon Hai Precision Industry Co., Ltd.	74
22	Xiaojian Chen	Karsten Manufacturing Corporation	71
23	Jung-wan Ko	Samsung Electronics Co., Ltd.	69
24	Colin Watanabe	Genentech, Inc.	69
25	Beom-Ku Han	Samsung Electronics Co., Ltd.	64

## Top Patent Agents

Rank	Patent Agent	# Patents
1	Oblon, Spivak, McClelland, Maier & Neustadt, PC	3,809
2	Sughrue Mion, PLLC	3,154
3	Birch, Stewart, Kolasch & Birch, LLP	2,695
4	Oliff & Berridge, PLC	2,437
5	Harness, Dickey & Pierce, PLC	1,676
6	Staas & Halsey LLP	1,610
7	Fish & Richardson PC	1,585
8	Fitzpatrick, Cella, Harper & Scinto	1,567
9	Foley & Lardner LLP	1,552
10	Blakely, Sokoloff, Taylor & Zafman LLP	1,511
11	Townsend and Townsend and Crew LLP	1,498
12	McDermott Will & Emery LLP	1,410
13	Banner & Witcoff, Ltd.	1,406
14	Finnegan, Henderson, Farabow, Garrett & Dunner, LLP	1,396
15	Nixon & Vanderhye PC	1,371
16	Brinks Hofer Gilson & Lione	1,137
17	Buchanan Ingersoll & Rooney PC	1,010
18	Wenderoth, Lind & Ponack, LLP	944
19	Cantor Colburn LLP	936
20	Young & Thompson	897
21	Kenyon & Kenyon LLP	832
22	Antonelli, Terry, Stout & Kraus, LLP	799
23	Westerman, Hattori, Daniels & Adrian, LLP	765
24	Crowell & Moring LLP	763
25	Frederick Telecky, Jr.	747

## Top Patent Examiners

Rank	Examiner	# Patents
1	Ian Simmons	1,502
2	Cathron Brooks	1,450
3	Stella Reid	1,056
4	Robert Spear	961
5	Caron Veynar	878
6	Louis Zarfaz	853
7	Holly Baynham	811
8	Jeffrey Asch	629
9	Philip Hyder	625
10	Antoine Davis	609
11	Kent Bell	597
12	Robert Delehanty	567
13	Robin Webster	547
14	Prabhakar Deshmukh	530
15	Elizabeth Albert	525
16	Raphael Barkai	519
17	Sandra Snapp	514
18	Daniel Bui	506
19	Mitchell Siegel	503
20	T. Chase Nelson	480
21	Stacia Cadmus	476
22	Charles Rademaker	471
23	Dominic Simone	470
24	Jennifer Rivard	463
25	Freda Nunn	452

## Most Cited Patents

Rank	Document Number	Document Title	Assignee	Inventors	# Citations
1	US5523520	Mutant dwarfism gene of petunia	Goldsmith Seeds Inc.	Mary Hunsperger, Mathilde Holtrop	179
2	US5536637	Method of screening for cDNA encoding novel secreted mammalian proteins in yeast	Genetics Institute, Inc.	Kenneth Jacobs	134
3	US5892900	Systems and methods for secure transaction management and electronic rights protection	InterTrust Technologies Corp.	Karl Ginter, Victor Shear, Olin Sibert, Francis Spahn, David M. Van Wie	127
4	US4683202	Process for amplifying nucleic acid sequences	Cetus Corporation	Kary Mullis	126
5	US5172338	Multi-state EEprom read and write circuits and techniques	Sandisk Corporation	Sanjay Mehrotra, Eliyahou Harari, Winston Lee	117
6	US5661506	Pen and paper information recording system using an imaging pen	SIA Technology Corporation	Mohamed Lazzouni, Mohamed Yousaf, Rizwan Qureshi, Naveed Nazir	115
7	US5852434	Absolute optical position determination	No assignee (on face of the patent)	Oral Sekendur	114
8	US5794207	Method and apparatus for a cryptographically assisted commercial network system designed to facilitate buyer-driven conditional purchase offers	Walker Asset Management Limited Partnership	Jay S. Walker, Bruce Schneier, James A. Jorasch	113
9	US5960411	Method and system for placing a purchase order via a communications network	Amazon.com, Inc.	Peri Hartman, Jeffrey P. Bezos, Shel Kaphan, Joel Spiegel	111

10	US5570315	Multi-state EEPROM having write-verify control circuit	Kabushiki Kaisha Toshiba	Tomoharu Tanaka, Gertjan Hemink	108
11	US6046935	Semiconductor device and memory system	Kabushiki Kaisha Toshiba	Ken Takeuchi, Tomoharu Tanaka	108
12	US4683195	Process for amplifying, detecting, and/or-cloning nucleic acid sequences	Cetus Corporation	Kary B. Mullis, Henry A. Erlich, Norman Arnheim, Glenn T. Horn, Randall K. Saiki, Stephen J.Scharf	107
13	US6011725	Two bit non-volatile electrically erasable and programmable semiconductor memory cell utilizing asymmetrical charge trapping	Saifun Semiconductors, Ltd.	Boaz Eitan	106
14	US6076734	Methods and systems for providing human/computer interfaces	Interval Research Corporation	Thomas J. Dougherty, S. Joy Mountford, Jesse L. Dorogusker, James H. Boyden, Philip A. van Allen, Daniel E. Cummings, Brygg A. Ullmer	106
15	US6222762	Multi-state memory	Sandisk Corporation	Daniel C. Guterman, Yupin Kawing Fong	106
16	US5692073	Formless forms and paper web using a reference-based mark extraction technique	Xerox Corporation	Todd A. Cass	105
17	US5643826	Method for manufacturing a semiconductor device	Semiconductor Energy Laboratory Co., Ltd.	Hisashi Ohtani, Akiharu Miyanaga, Takeshi Fukunaga, Hongyong Zhang	103

18	US5652412	Pen and paper information recording system	SIA Technology Corp.	Mohamed Lazzouni, Ali Seyed Kazeroonian, Dariush Gholizadeh, Omar Ali	103
19	US5477012	Optical position determination	No assignee (on face of the patent)	Oral F. Sekendur	101
20	US4864618	Automated transaction system with modular printhead having print authentication feature	Wright Technologies, L.P.	Christopher B. Wright, Stephen Bristow	100
21	US5051736	Optical stylus and passive digitizing tablet data input system	International Business Machines Corporation	William E. Bennett, Stephen J. Boies, Anthony R. Davies, Karl-Friedrich Etzold, Todd K. Rodgers	99
22	US5710887	Computer system and method for electronic commerce	Broadvision	Raman Chelliah, Jason S. Cornez, Carl Dellar, Stephen Harrison, John A. Hempe, Chih-Cheng Hsu, Eric J. Golin, Charles A. Price, Neal S. Rutta, Thomas A. Wood, Wayne K. Yamamoto	98
23	WO9950787	Cross-network functions via linked hardcopy and electronic documents	Xerox Corp.	Marc Dymetman, Max Copperman	98
24	WO9949504	Projection exposure method and system	Nikon Corp.	Yoshio Fukami, Nobutaka Magone	97
25	GB2306669	Manual entry interactive paper and electronic document handling and processing system	Ricoh KK	Gregory J. Wolff, David G. Stork	96

## Top U.S. Classifications

Rank	Classification Code	Classification Name	# Patents
1	435/6	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY - Involving nucleic acid	1,039
2	530/350	CHEMISTRY: NATURAL RESINS OR DERIVATIVES; PEPTIDES OR PROTEINS; LIGNINS OR REACTION PRODUCTS THEREOF - PROTEINS, I.E., MORE THAN 100 AMINO ACID RESIDUES	950
3	435/320.1	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY - VECTOR, PER SE (E.G., PLASMID, HYBRID PLASMID, COSMID, VIRAL VECTOR, BACTERIOPHAGE VECTOR, ETC.) BACTERIOPHAGE VECTOR, ETC.)	908
4	709/224	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTICOMPUTER DATA TRANSFERRING - Computer network monitoring	887
5	709/203	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTICOMPUTER DATA TRANSFERRING - Client/server	828
6	536/23.1	ORGANIC COMPOUNDS - DNA or RNA fragments or modified forms thereof (e.g., genes, etc.)	791
7	709/223	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTICOMPUTER DATA TRANSFERRING - COMPUTER NETWORK MANAGING	780
8	707/3	DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA STRUCTURES - Query processing (i.e., searching)	749
9	435/69.1	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY - Recombinant DNA technique included in method of making a protein or polypeptide	689
10	D8	TOOLS AND HARDWARE	676
11	707/10	DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA STRUCTURES - Distributed or remote access	668
12	D14/138	RECORDING, COMMUNICATION, OR INFORMATION RETRIEVAL EQUIPMENT - Mobile telephone type (i.e., cellular or cordless unit with provision for initiation or reception of telephone calls)	663
13	707/102	DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA STRUCTURES - Generating database or data structure (e.g., via user interface)	626
14	709/217	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTICOMPUTER DATA TRANSFERRING - REMOTE DATA ACCESSING	607
15	435/7.1	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY - Using a micro-organism to make a protein or polypeptide	606
16	370/401	MULTIPLEX COMMUNICATIONS - Bridge or gateway	584

		between networks	
17	709/219	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTICOMPUTER DATA TRANSFERRING - Accessing a remote server	561
18	514/2	DRUG, BIO-AFFECTING AND BODY TREATING COMPOSITIONS - Peptide containing (e.g., protein, peptones, fibrinogen, etc.) DOAI	558
19	707/104.1	DATA PROCESSING: DATABASE AND FILE MANAGEMENT OR DATA STRUCTURES - Application of database or data structure (e.g., distributed, multimedia, image)	556
20	370/352	MULTIPLEX COMMUNICATIONS - Combined circuit switching and packet switching	541
21	705/26	DATA PROCESSING: FINANCIAL, BUSINESS PRACTICE, MANAGEMENT, OR COST/PRICE DETERMINATION - Electronic shopping (e.g., remote ordering)	540
22	370/338	MULTIPLEX COMMUNICATIONS - Contiguous regions interconnected by a local area network	525
23	358/1.15	FACSIMILE AND STATIC PRESENTATION PROCESSING - Communication	521
24	435/325	CHEMISTRY: MOLECULAR BIOLOGY AND MICROBIOLOGY - ANIMAL CELL, PER SE (E.G., CELL LINES, ETC.); COMPOSITION THEREOF; PROCESS OF PROPAGATING, MAINTAINING OR PRESERVING AN ANIMAL CELL OR COMPOSITION THEREOF; PROCESS OF ISOLATING OR SEPARATING AN ANIMAL CELL OR COMPOSITION THEREOF; PROCESS OF PREPARING A COMPOSITION CONTAINING AN ANIMAL CELL; CULTURE MEDIA THEREFORE	498
25	709/227	ELECTRICAL COMPUTERS AND DIGITAL PROCESSING SYSTEMS: MULTICOMPUTER DATA TRANSFERRING - COMPUTER-TO-COMPUTER SESSION/CONNECTION ESTABLISHING	494