The Most Cited US Patents in 2019

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Here at Paper Digest we love ranking things, so we are happy to publish this list of top 100 most-cited US patents in the year of 2019. When creating this list, we sorted all US patents based on the number of citations each of them received in the year of 2019.

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TABLE 1: The Most Cited US Patents in 2019

	TITLE	APPLICANT	ASSIGNEE	FILING DATE	GRANT DATE
1	Articulation assembly for surgical instruments		Ethicon Endo-Surgery, Inc.	1996-09-30	1998-01-06
2	Robotic surgical tool with ultrasound cauterizing and cutting instrument	Stephen C. Anderson et al.	Intuitive Surgical, Inc.	2002-04-18	2004-08-31
3	Surgical instrument		Ethicon Endo-Surgery, Inc.	1994-12-19	1997-05-27
4	Surgical stapling and cutting device	Kevin W. Smith et al.	ETHICON ENDO-SURGERY INC.	2006-09-29	2008-07-29
5	Self contained gas powered surgical apparatus		United States Surgical Corporation	1993-03-01	1994-05-17
6	Articulating surgical stapling instrument incorporating a two-piece E-beam firing mechanism	Frederick E. Shelton, IV et	ETHICON ENDO-SURGERY INC.	2004-09-30	2008-06-03

IBM v. Digital Doors, IPR2023-00971, 7,721,344
DigitalDoors EX2003

		al.			
7	Surgical stapling instrument having a single lockout mechanism for prevention of firing	Kevin Doll et al.	ETHICON ENDO-SURGERY INC.	2003-10-15	2008-06-03
8	Electrosurgical hemostatic device		Ethicon, Inc.	1993-07-22	1995-04-04
9	Multi-functional hand-held device	Steven Hotelling		2006-03-03	
10	Surgical instrument with a lateral-moving articulation control	Kenneth S. Wales	ETHICON ENDO-SURGERY INC.	2003-07-09	2006-01-03
11	Surgical stapling instrument having separate distinct closing and firing systems	Frederick E. Shelton, IV et al.	ETHICON ENDO-SURGER INC.	2003-05-20	2006-02-21
12	Camouflage of network traffic to resist attack	Li Shu et al.	THE CHARLES STARK DRAPER LABORATORY	2001-12-19	2007-01-30
13	Computer system and process for transferring multiple high bandwidth streams of data between multiple storage units and multiple applications in a scalable and reliable manner	Eric C. Peters et al.	Avid Technology, Inc.	1998-04-03	2002-04-16
14	Articulated surgical instrument for performing minimally invasive surgery with enhanced dexterity and sensitivity		Intuitive Surgical, Inc.	1997-05-16	1998-08-11
15	Multipoint touchscreen	Steve Hotelling et al.	APPLE INC.	2004-05-06	2010-02-16
16	Surgical instrument incorporating EAP blocking lockout mechanism	Frederick E. Shelton, IV et al.	ETHICON ENDO-SURGERY INC.	2005-06-21	2006-12-05
17	Surgical stapler instrument		Ethicon Endo-Surgery, Inc.	1994-02-03	1995-11-14
18	Surgical device for stapling and/or fastening body tissues		Olympus Optical Co., Ltd.	1993-05-14	1995-02-14
19	Surgical stapling instrument having an electroactive polymer actuated buttress deployment mechanism	Frederick E. Shelton, IV	ETHICON ENDO-SURGERY INC.	2005-07-14	2006-12-12
20	Surgical instrument having recording capabilities	Frederick E. Shelton, IV et al.	ETHICON ENDO-SURGERY INC.	2006-01-31	2010-12-07

21	Electronic lockouts and surgical instrument including same	Jeffrey S. Swayze et al.	ETHICON ENDO-SURGERY INC.	2006-01-31	2010-01-12
22	Surgical instrument having an articulating end effector	Geoffrey C. Hueil et al.	ETHICON ENDO-SURGERY INC.	2006-01-10	2010-03-02
23	Method and apparatus for integrating manual input	Wayne Westerman et al.	University of Delaware	1999-01-25	2001-11-27
24	Surgical stapling apparatus		United States Surgical Corporation	1997-09-23	1999-02-02
25	Motor-driven surgical cutting fastening instrument with tactile position feedback	Frederick E. Shelton, IV et al.	ETHICON ENDO-SURGERY INC.	2006-01-31	2008-09-09
26	Block-based communication in a communication services patterns environment	Michel K. Bowman-Amuah	Accenture LLP	1999-08-31	2003-05-27
27	Data security system and method with editor	Ron Redlich et al.		2004-11-26	
28	Surgical instrument having a removable battery	Frederick E. Shelton, IV et al.	ETHICON ENDO-SURGERY INC.	2006-01-31	2008-12-16
29	Pneumatically powered surgical cutting and fastening instrument with audible and visual feedback features	Frederick E. Shelton, IV et al.	ETHICON ENDO-SURGERY INC.	2006-08-02	2008-10-28
30	Motor-driven surgical cutting and fastening instrument with loading force feedback	Frederick E. Shelton, IV et al.	ETHICON ENDO-SURGERY INC.	2006-01-31	2008-08-26
31	Surgical stapler	Dominick L. Mastri et al.	TYCO HEALTHCARE GROUP LP	2006-03-23	2007-06-05
32	Method and apparatus for reliable and scalable distribution of data files in distributed networks	Vijay R. Basani et al.	Network Appliance Inc.	2000-04-07	2004-04-06
33	Computer system and process for transferring streams of data between multiple storage units and multiple applications in a scalable and reliable manner	Eric C. Peters et al.	Avid Technology, Inc.	2000-11-28	2002-09-10

34	Surgical instrument and method		Ethicon Endo-Surgery, Inc.	1996-09-16	1997-09-02
35	Methods and apparatus for performing transluminal and other procedures	Amir Belson		2006-09-14	
36	Surgical instrument having a feedback system	Frederick E. Shelton, IV et al.	ETHICON ENDO-SURGERY INC.	2006-01-31	2014-04-29
37	Endoscopic surgical system with sensing means		Ethicon, Inc.	1992-12-16	1995-01-24
38	Robotically-controlled surgical instruments	Frederick E. Shelton, IV	ETHICON ENDO-SURGERY INC.	2012-02-09	2014-09-02
39	Mesh tissue fasteners		Ethicon, Inc.	1983-06-20	1985-10-22
40	Motor-driven surgical cutting and fastening instrument with adaptive user feedback	Frederick E. Shelton, IV et al.	ETHICON ENDO-SURGERY INC.	2006-01-31	2010-08-10
41	Motor-driven surgical cutting and fastening instrument with user feedback system	Frederick E. Shelton, IV et al.	ETHICON ENDO-SURGERY INC.	2006-01-31	2010-08-03
42	Surgical stapling instrument incorporating a tapered firing bar for increased flexibility around the articulation joint	Frederick E. Shelton, IV et al.	ETHICON ENDO-SURGERY INC.	2003-07-09	2006-06-06
43	Surgical clamping mechanism		Ethicon Endo-Surgery, Inc.	1996-09-12	1998-09-29
44	Semiconductor device and manufacturing method thereof	Kengo Akimoto et al.	SEMICONDUCTOR ENERGY LABORATORY CO. LTD.	2006-09-21	2010-03-09
45	Method and system for managing distributed content and related metadata	Siew Young Sim et al.	INTEL CORP.	2001-10-26	2007-09-18
46	Surgical instrument incorporating an articulation mechanism having rotation about the longitudinal axis	Kenneth S. Wales et al.	ETHICON ENDO-SURGERY INC.	2003-07-09	2006-09-26
47	Surgical anastomosis stapling instrument		Ethicon, Inc.	1992-09-01	1993-04-27

48	Semiconductor device, manufacturing method, and electronic device	Toshinori Sugihara et al.		2004-06-14	
49	Surgical cutting instrument with improved closure system	Richard W. Timm et al.	ETHICON ENDO-SURGERY INC.	2007-06-18	2009-09-15
50	Method for operating a surgical instrument		Ethicon Endo-Surgery, Inc.	1995-05-17	1997-05-06
51	Endoscopic instrument having a torsionally stiff drive shaft for applying fasteners to tissue		Ethicon, Inc.	1993-07-15	1995-07-18
52	Surgical stapling instrument with mechanical mechanism for limiting maximum tissue compression	Todd Phillip Omaits et al.	ETHICON ENDO-SURGERY INC.	2006-09-29	2009-03-24
53	Drive interface for operably coupling a manipulatable surgical tool to a robot	Frederick E. Shelton, IV	ETHICON ENDO-SURGERY INC.	2012-02-09	2013-07-09
54	Surgical instrument with automatically reconfigurable articulating end effector	Frederick E. Shelton, IV et al.	ETHICON ENDO-SURGERY INC.	2008-05-21	2011-04-12
55	Surgical stapling instrument having a firing lockout for an unclosed anvil	Frederick E. Shelton, IV et al.	ETHICON ENDO-SURGERY INC.	2003-05-20	2006-12-05
56	Data security system and method for separation of user communities	Ron M. Redlich et al.	DIGITAL DOORS INC.	2001-12-06	2006-11-21
57	Robotic arm DLUs for performing surgical tasks	H. Jonathan Tovey et al.	United States Surgical Corporation	1998-06-18	2001-05-15
58	Method and apparatus for the secure distributed storage and retrieval of information		International Business Machines Corporation	1997-09-12	1999-11-23
59	Smart access to a dispersed data storage network	S. Christopher Gladwin et al.		2007-10-09	
60	POWERED SURGICAL STAPLING DEVICE	Michael A. Zemlok et al.	TYCO HEALTHCARE GROUP LP	2008-08-12	
61	Motor-driven surgical cutting and fastening instrument with articulatable end effector	Frederick E. Shelton, IV et al.	ETHICON ENDO-SURGERY INC.	2006-01-31	2009-08-04
62	Linear stapling mechanism with cutting means		Ethicon Inc.	1992-07-20	1994-05-03

63	Combined dissecting, cauterizing, and stapling device	Kenneth H. Mollenauer	Starion Instruments Corporation	2002-01-03	2003-08-05
64	Computer system having a virtual drive array controller		Compaq Computer Corporation	1995-12-21	1998-09-15
65	Recovery from failures within data processing systems	Robert Buxton et al.	LENOVO (SINGAPORE) PTE.LTD.	2003-10-22	
66	Surgical instrument with improvement safety lockout mechanisms		Richard-Allan Medical Industries, Inc.	1996-02-20	1998-06-09
67	Method for reducing database recovery time	Anagha Raipurkar et al.	UNISYS CORP.	2004-02-05	2007-05-22
68	Block based access to a dispersed data storage network	S. Christopher Gladwin et al.		2007-10-09	
69	Powered articulatable surgical cutting and fastening instrument with flexible drive member	Frederick E. Shelton, IV	ETHICON ENDO-SURGERY INC.	2008-10-15	2011-09-20
70	Data security system and method	Ron M. Redlich et al.	DIGITAL DOORS INC.	2001-07-27	2006-09-05
71	METHOD FOR PACKET-LEVEL FEC ENCODING, IN WHICH ON A SOURCE PACKET-BY-SOURCE PACKET BASIS, THE ERROR CORRECTION CONTRIBUTIONS OF A SOURCE PACKET TO A PLURALITY OF WILDCARD PACKETS ARE COMPUTED, AND THE SOURCE PACKET IS TRANSMITTED THEREAFTER	H. Lewis Wolfgang	Kencast, Inc.	2000-04-06	2003-08-19
72	Alignment of master and slave in a minimally invasive surgical apparatus	Gunter D. Niemeyer et al.	Intuitive Surgical, Inc.	1999-04-07	2002-04-02
73	Storage system and a storage management system	Kenta Shiga et al.	HITACHI LTD.	2004-10-21	
74	Robotically-controlled cable-based surgical end effectors	Frederick E. Shelton, IV	ETHICON ENDO-SURGERY INC.	2012-02-09	2014-08-12
75	Multi-dimensional data protection and mirroring method for micro level data	Robert Halford		2003-07-22	2006-09-05
76	System and method for a reserved memory area shared by all redundant storage controllers	Michael Henry Pittelkow et al.	XIOTECH CORP.	2002-06-28	2006-02-21
77	Automatic data collection device that receives data output instruction from data consumer	James T. Katsandres et	Intermec IP Corp.	1999-01-29	2002-03-12

		al.			
78	Parallel computer system including parallel storage subsystem including facility for correction of data in the event of failure of a storage		TM Patents, LP	1993-12-10	1999-11-16
79	Enhanced raid write hole protection and recovery		Digital Equipment Corporation	1995-10-13	1998-06-30
80	Method and apparatus for reconstructing data in object-based storage arrays	Manabu Kitamura		2005-01-13	
81	Robotically-controlled surgical end effector system with rotary actuated closure systems	Frederick E. Shelton, IV	ETHICON ENDO-SURGERY INC.	2012-02-09	2013-11-05
82	Surgical stapler comprising a staple pocket	James J. Bedi et al.	ETHICON ENDO-SURGERY INC.	2009-11-19	2012-03-27
83	Repositioning and reorientation of master/slave relationship in minimally invasive telesurgery	William C. Nowlin et al.	INTUITIVE SURGICAL OPERATIONS INC.	2006-03-15	2010-10-05
84	Data storage system and method by shredding and deshredding	Douglas R. de la Torre et al.	PEERIFY TECHNOLOGIES LLC	2002-09-03	2009-12-22
85	Fixed content distributed data storage using permutation ring encoding	Shaun Cutts et al.	ARCHIVAS INC.	2004-03-23	2007-07-03
86	System and method for data protection with multidimensional parity	Gregory Hagan Moulton et al.	Avamar Technologies, Inc.	2001-02-13	2004-11-30
87	Electromechanical driver device for use with anastomosing, stapling, and resecting instruments	Michael P. Whitman	Power Medical Interventions, Inc.	1999-06-02	2002-09-03
88	System and a method for defining transforms of memory device addresses	Boris Nikolaevich Vilkov et al.	Acuid Corporation Limited	1999-08-19	2002-04-02
89	Reliable array of distributed computing nodes			1999-12-02	2000-10-03
90	Distributed redundant database		Alcatel USA, Inc.	1996-05-02	1999-03-30
91	Scheme for information dispersal and reconstruction		The President and Fellows of Harvard College	1991-05-15	1996-01-16

92	Metadata management system for an information dispersed storage system	S. Christopher Gladwin et al.		2006-04-13	
93	System for rebuilding dispersed data	S. Gladwin et al.		2006-04-13	
94	System and methods for facilitating a linear grid database with data organization by dimension	Harold Correll	WAL-MART STORES INC.	2005-04-05	
95	Storage virtualization system and methods	Wayne Karpoff et al.	YOTTA YOTTA INC.	2005-01-05	
96	Media delivery using quality of service differentiation within a media stream	Sean Ramprashad		2003-11-12	
97	Data security system and method responsive to electronic attacks	Ron M. Redlich et al.	DIGITAL DOORS INC.	2001-12-06	2006-12-05
98	Method and apparatus for partitioning data for storage in a database	M. Cameron Watson et al.	NCR CORP.	2000-12-01	2006-07-18
99	System for protecting the transmission of live data streams, and upon reception, for reconstructing the live data streams and recording them into files	H. Lewis Wolfgang et al.	KENCAST INC.	2002-04-19	2006-04-04
100	System and method for maintaining consistent independent server-side state among collaborating servers	Daniel Scott Jorgenson	HEWLETT-PACKARD DEVELOPMENT CO. L.P.	2001-11-05	2006-04-04

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