U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	Application Number		16038279		
	Filing Date		2018-07-18		
INFORMATION DISCLOSURE	First Named Inventor		Bonutti		
STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Art Unit				
(Notion Submission under or or N 1.00)	Examiner Name				
	Attorney Docket Number	er	7804-A18-012Y-17 (ids14)		

U.S.PATENTS Remove									Remove	
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue D	ate	Name of Pate of cited Docu	entee or Applicant ment	Releva	Columns,Lines wh ant Passages or Ro s Appear	
	1									
If you wisl	h to ado	additional U.S. Pater	t citatio	n inform	ation pl	ease click the	Add button.		Add	
			U.S.P	ATENT	APPLIC	CATION PUBL	LICATIONS		Remove	
Examiner Initial*	I CITO NO I		Kind Code ¹	Publication Date		Name of Patentee or Applicant of cited Document		Releva	Columns,Lines wh ant Passages or Ro s Appear	
	1									
If you wisl	h to add	additional U.S. Publis	hed Ap	plication	citation	n information p	lease click the Add	d button	Add	
				FOREIG	N PAT	ENT DOCUM	ENTS		Remove	
Examiner Cite Foreign Document Country Number³ Code²i			•	Kind Code ⁴	Publication Date	Name of Patented Applicant of cited Document	e or V F	Pages,Columns,Lii where Relevant Passages or Relev Figures Appear	T5	
	1									
If you wisl	h to add	l additional Foreign Pa	tent Do	cument	citation	information pl	ease click the Add	button	Add	'
			NON	-PATEN	IT LITE	RATURE DO	CUMENTS		Remove	
Examiner Initials* Cite No Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.								n T5		



Application Number		16038279
Filing Date		2018-07-18
First Named Inventor	Bonut	tti
Art Unit		
Examiner Name		
Attorney Docket Number		7804-A18-012Y-17 (ids14)

1	A Safe Robot System for Craniofacial Surgery, D. ENGEL, J. RACZKOWSKY, H. WORN, May 21-26, 2001, Proceedings of the 2001 IEEE, International Conference on Robotics and Automation, pp. 2020-2024, 5 pages	
2	A Computer and Robotic Aided Surgery System for Accomplishing Osteotomies, J. L. MOCTEZUMA, F. GOSSE, H.J. SCHULTZ, First International Symposium on Medical Robotics and Computer Assisted Surgery, September, 1994, pp. 31-35, 6 pages	
3	A Constraint-Based God-object Method for Haptic Display, C.B. ZILLES and J. K. SALISBURY, 1995 IEEE, pp. 146-151, 6 pages	
4	A Literature Review: Robots in Medicine, HSIA, T.C.; MITTELSTADT, B., June, 1991, Vol. 10, Issue 2, pp. 13-22, 10 pages	
5	A Novel Approach to Computer Assisted Spine Surgery, LUTZ P. NOLTE, LUCIA J. ZAMORANO, ZHAOWEL JLANG, QINGHAI WANG, FRANK LANGLOTZ, ERICH ARM, HEIKO VISARIUS, Proceedings of the First International Symposium on Medical Robotics and Computer Assisted Surgery, Vol. 2, Workshop [Part I & II] Session VI, September, 1994, pp. 323-328, 7 pages	
6	A review of robotics in surgery, B. DAVIES, Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2000, pp. 129-140, 13 pages	
7	A Robotized Surgeon Assistant, T. WANG, M. FADDA, M. MARCACCI, S. MARTELLI, P. DARIO and A. VISANI, pp. 852-868, 8 pages	
8	A Steady-Hand Robotic System for Microsurgical Augmentation, RUSSELL TAYLOR, PAT JENSEN, LOUIS WHITCOMB, AARON BARNES, RAJEST KUMAR, DAN STOIANOVICI, PUNEET GUPTA, ZHENGXIAN WANGE, EUGEN DEJUAN and LOUIS KAVOUSSI, The International Journal of Robotics Research, 1999, Vol. 18, pp. 1201-1210, 11 pages	
9	A Stereotactic/Robotic System for Pedicle Screw Placement, JULIO J. SANTOS-MUNNÉ, MICHAEL A. PESHKIN, SRDJAN MIRKOVIC, S. DAVID STULBERG, THOMAS C. KIENZLE III, 1995, Interactive Technology and the New Paradigm for Hardware, pp. 326-333, 8 pages	
10	A Surgical Robot for Total Hip Replacement Surgery, Proceedings of the 1992 IEEE, International Conference on Robotics and Automation, May, 1992, pp. 606-611, 6 pages	
11	Accuracy Study on the Registration of the Tibia by Means of an Intramedullary Rod in Robot-Assisted Total Knee Arthroplasty, G. VAN HAM, J. BELLEMANS, K. DENIS, L. LABEY, J. VANDER SLOTEN, R. VAN AUDEKERCKE, G. VAN DER PERRE, J. DE SCHUTTER, , 46th Annual Meeting, Orthopaedic Research Society, March, 2000, pp. 450, 1	



Application Number		16038279
Filing Date		2018-07-18
First Named Inventor	Bonut	tti
Art Unit		
Examiner Name		
Attorney Docket Number		7804-A18-012Y-17 (ids14)

12	Accuracy Validation in Image-Guided Orthopaedic Surgery, DAVID SIMON, R.V. O'TOOLE, MIKE BLACKWELL, F. MORGAN, ANTHONY M. DIGIOIA, AND TAKEO KANADE, Proceedings of the Second International Symposium on Medical Robotics and Computer Assisted Surgery, 1995, pp. 185-192, 8 pages	
13	ACROBOT - Using Robots and Surgeons Synergistically in Knee Surgery, BL DAVIES, KL FAN, RD HIBBERD, M. JAKOPEC and SJ HARRIS, Mechatronics in Medicine, July, 1997, pp. 173-178, 6 pages	
14	Active compliance in robotic surgery – the use of force control as a dynamic constraint, B.L. DAVIES, S. J. HARRIS, W. J. LIN, R. D. HIBBERD, R. MIDDLETON and J.C. COBB, Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 1997 Vol. 211, pp. 285-292; 9 pages	
15	Active Stiffness Control of a Manipulator in Cartesian Coordinates, J. KENNETH SALLSBURY, IEEE, 1980, pp. 95-100, 7 pages	
16	An Image-directed Robotic System for Hip Replacement Surgery, RUSSELL H. TAYLOR, HOWARD A. PAUL, BRENT D. MITTELSTADT, WILLIAM HANSON, PETER KAZANZIDES, JOEL ZUHARS, EDWARD GLASSMAN, BELA L. MUSITS, BILL WILLIAMSON, WILLIAM L. BARGAR, October, 1990, pp. 111-118, 7 pages	
17	An Integrated CAD-Robotics System for Total Knee Replacement Surgery, KIENZLE, T.C., III, 1993, IEEE, pp. 889-894, 6 pages	
18	Architecture of a Surgical Robot, P. KAZANZIDES, J. ZUHARS, B. MITTELSTADT, B. WILLIAMS, P. CAIN, F. SMITH, L. ROSE, B. MUSITS, 1992 IEEE, pp. 1624-1629, 6 pages	
19	Autonomous Suturing using Minimally Invasive Surgerical Robots, HYOSIG KANG and JOHN T. WEN, Proceedings of the 2000 IEEE, September, 2000, pp. 742-747, 6 pages	
20	Biomechanics for Preoperative Planning and Surgical Simulations in Orthopaedics, ROBERT V. O'TOOLE III, BRANISLAVE JARAMAZ, ANTHONY M. DIGIOIA III, CHRISTOPHER D. VISNIC and ROBERT H. REID, Comput. Biol. Med., March, 1995, Vol. 25, No. 2 pp. 183-191, 8 pages	
21	Clinical Introduction of the Caspar System Problems and Initial Results, C.O.R. GRUENEIS, R.H. RICHTER, F.F. HENNIG, Abstracts from CAOS, 1999, pp. 160, 1 page	
22	Comparative Tracking Error Analysis of Five Different Optical Tracking Systems, R KHADEM, C C YEH, M SADEGHITEHRANI, M R BAX, J A JOHNSON, J N WELCH, E P WILKINSON, R SHAHIDI, Computer Aided Surgery Vol. 5, 2000, pp. 98-107	



Application Number		16038279
Filing Date		2018-07-18
First Named Inventor	Bonut	tti
Art Unit		
Examiner Name		
Attorney Docket Number		7804-A18-012Y-17 (ids14)

23	Comparison of Relative Accuracy Between a Mechanical and an Optical Position Tracker for Image-Guided Neurosurgery, ROHLING R, MUNGER P, HOLLERBACH JM, PETER T., J Image Guid Surg., 1995;1(1), pp. 30-34, 4 pages	
24	Computer Assisted Knee Replacement, SCOTT L. DELP, PH.D., S. DAVID STULBERG, MD, BRIAN DAVIES, PH.D. FREDERIC PICARD, MD and FRANCOIS LEITNER, PH.D., Clinical Orthopaedics, September, 1998, Vol. 354, pp. 49-56; 8 pages	
25	Computer Assisted Orthopaedic Surgery Image Guided and Robotic Assistive Technologies, ANTHONY M. DIGIOIA, BRANISLAV JARAMAZ, and B. COLGAN, Clinical Orthopaedics and Related Research, No. 354, September, 1998, pp. 8-16, 9 pages	
26	Computer Assisted Planning for Total Knee Arthroplasty, CVRMed-MRCAS'97, M. FADDA, D. BERTELLI, S. MARTELLI, M. MARCACCI, P. DARIO, C. PAGGETTI, D. CARAMELLA, D. TRIPPI, 1997, pp. 619-628, 10 pages	
27	Computer Assisted Spine Surgery: a technique for accurate transpedicular screw fixation, S LAVALLÉE, Proceedings of the First International Symposium on Medical Robotics and Computer Assisted Surgery, Vol. 2, Workshop [Part I & I] Session VI, September, 1994, pp. 315-322, 9 pages	
28	Computer-assisted and robotics surgery, BRIAN DAVIES, International Congress and Symposium Series 223, 1997, pp. 71-82; 12 pages	
29	Computer-Assisted Knee Arthroplasty at Rizzoli Institutes, M. FADDA, Proceedings of the First International Symposium on Medical Robotics and Computer Assisted Surgery, September, 1994, pp. 26-30, 6 pages	
30	Concepts and methods of registration for computer-integrated surgery, E. BAINVILLE, I. BRICAULT, P. CINQUIN, AND S. LAVALLÉE, Computer Assisted Orthopedic Surgery ("CAOS"), LP. Nolte and R. Ganz, Eds., pp. 15-34, Hogrefe & Huber, Seattle, Wash, USA, 1999; 22 pages	
31	CRIGOS A Compact Robot for Image-Guided Orthopedic Surgery, GUIDO BRANDT, ANDREAS ZIMOLONG, LIONAL CARRAT, PHILIPPE MERLOZ, HANS-WALTER STAUDTE, STEPHANE LAVALLEE, KLAUS RADEMACHER and GUNTER RAU, December, 1999, IEEE Transactions on Information Technology in Biomedicine, Vol. 3, No. 4, pp. 252-260, 9 pages	
32	Development of a Robotic Surgical Assistant, YRJÖ LOUHISALMI and Tatu Leinonen, 1994 IEEE, pp. 1043-1044, 2 pages	
33	Development of a Surgical Robot for Cementless Total Hip Arthroplasty, PAUL HA, BARGAR WL, MITTLESTADT B, MUSITS B, TAYLOR RH, KAZANZIDES P, ZUHARS J, WILLIAMSON B, HANSON W. Clinical Orthopaedics and Related Research. December, 1992, pp. 57-66: 10 pages	



Application Number		16038279
Filing Date		2018-07-18
First Named Inventor Bonut		tti
Art Unit		
Examiner Name		
Attorney Docket Number		7804-A18-012Y-17 (ids14)

34	Digital surgery the future of medicine and human-robot symbiotic interaction, RONY A. ABOVITZ, Industrial Robot: An International Journal, Vol. 28, Number 5, 2001, pp. 401-405, 5 pages	
35	EasyGuide Neuro, ein neues System zur bildgefuhrten Planung, Simulation und Navigation in der Neurochirurgie, TH. SCHMIDT und W. HENTSCHEL, 1995, Biomedizinische Technik, Band 40, Erganzungsband 1, pp. 233-234; 2 pages	
36	Ein Robotersystem für craniomaxillofaciale chirurgische Eingriffe, J. RACZKOWSKY, J. MÜNCHENBERG, I. BERTOVIC, C. BURGHART, Informatik Forsch. Entw., 1999, pp. 24-35, 12 pages	
37	EndoBot: A Robotic Assistant in Minimally Invasive Surgeries, HYOSIG KANG and JOHN T. WEN, IEEE, 2001, pp. 2032-2037, 6 pages	
38	Experiences with Robotic Systems for Knee Surgery, S. J. HARRIS, W. J. LIN, K. L. FAN, R. D. HIBBERD, J. COBB, R. MIDDLETON, B. L. DAVIES, CVRMed-MRCAS'97, Lecture Notes in Computer Science Volume 1205, 1997, pp. 757-766; 10 pages	
39	Force Control for Robotic Surgery, S.C. HO, R.D. HIBBERD, J. COBB and B.L. DAVIES, ICAR, 1995, pp. 21-32, 12 pages	
40	Frameless Neuronavigation in Modern Neurosurgery, SPETZGER U, LABORDE G, GILSBACH JM, Minim. Invas, Neurosurg., 1995, Vol. 38, pp. 163-166, 4 pages	
41	Haptic information displays for computer-assisted surgery, A.E. QUAID and RONY A. ABOVITZ, Robotics and Automation, 2002 Proceedings ICRA '02. IEEE International Conference on Robotics And Automation, 2092, Vol. 2, op. 2092-2097, 6 pages	
42	Human-Interactive Medical Robotics, RONY A. ABOVITZ, M.S., Computer Assisted Orthopedic Surgery ("CAOS"), 2000, pp. 71-72, 2 pages	
43	mage-Guided Manipulator Compliant Surgical Planning Methodology for Robotic Skull-Base Surgery, WAN SING NG; MING YEONG TEO; YONG-CHONG LOH; TSENG TSAI YEO, Medical Imaging and Augmented Reality, 2001 IEEE, op. 26-29, 4 pages	
44	ntra-operative Application of a Robotic Knee Surgery System, S. J. HARRIS, M. JAKOPEC, J. COBB, B. L. DAVIES, Medical Image Computing and Computer-Assisted Intervention – MICCAI'99, Lecture Notes in Computer Science Volume 1679, 1999, pp. 1116-1124; 9 pages	



DOCKET

Explore Litigation Insights



Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time** alerts and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.

