

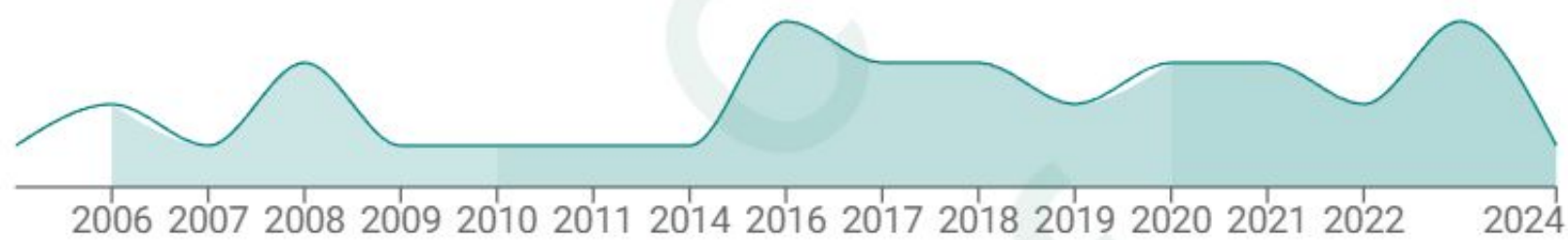
"NEUROPLASTICITY"

CREATED BY



First Date: 1997-08-12

First Patent: [5656669](#)



Top 10 CPC

A61N1-0456 (8 patents) - Specially adapted for transcutaneous electrical nerve stimulation [TENS]	A61N1-0551 (6 patents) - Spinal or peripheral nerve electrodes	G09B5-02 (5 patents) - Electrically-operated educational appliances (working with questions and answers [CPC: G09B7/00]; simulators [CPC: G09B9/00]; advertising or displaying in general [CPC: G09F]) with visual presentation of the material to be studied, e.g. using film strip	A61N1-025 (4 patents) - Digital circuitry features of electrotherapy devices, e.g. memory, clocks, processors
A63F13-10 (7 patents) - Video games, i.e. games using an electronically generated display having two or more dimensions -Control of the course of the game, e.g. start, progress, end	A61N1-36071 (6 patents) - Pain	G09B19-00 (4 patents) - Teaching not covered by other main groups of this subclass (teaching or practice apparatus for gun-aiming or gun-laying [CPC: F41G3/26])	
A61N1-0502 (6 patents) - Skin piercing electrodes	A61N1-0504 (5 patents) - Subcutaneous electrodes	A63F13-80 (4 patents) - Special adaptations for executing a specific game genre or game mode	

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PATENTS

#	Patent No	Pub. Date	Filed	Title	Inventors	Assignees
1	11944809	2024-04-02	2020-12-18	Systems and methods for treating shoulder pain related to subacromial impingement syndrome	Maria E Bennett; Joseph W Boggs, II; John Chae;	Spr Therapeutics, Inc.;
2	11638831	2023-05-02	2018-12-14	Treatment of psychiatric conditions such as resistant depression, bipolar disorder and/or major depressive disorder via application of repetitive transcranial magnetic stimulation with thyroid hormone treatment and/or quetiapine	Antonios Zamar;	The London Psychiatry Centre;
3	11617887	2023-04-04	2019-04-19	Systems and methods for brain stimulation for recovery from brain injury, such as stroke	Rajesh P N Rao; Jeffrey G Ojemann; Eberhard E Fetz; Chet T Moritz; Jeffrey Herron;	University of Washington and Seattle Children's Hospital Children's Research Institute;
4	11621355	2023-04-04	2020-07-28	Biomimetic 2D transistor for audiomorphic computing	Saptarshi Das; Sarbashis Das; Akhil Dodda;	The Penn State Research Foundation;
5	11602538	2023-03-14	2018-03-29	Prophylaxis and treatment of cognitive dysfunction and decline	Paul Adlard; Stuart Portbury;	The Florey Institute of Neuroscience and Mental Health;
6	11511105	2022-11-29	2019-05-20	Noninvasive cranial nerve therapy	Bashar Badran; Mark George; Doe Jenkins; Daniel Cook;	Musc Foundation for Research Development;
7	11507806	2022-11-22	2018-09-06	Parallel neural processor for Artificial Intelligence	Rohit Seth;	
8	11138496	2021-10-05	2018-09-27	Parallel neural processor for artificial intelligence	Rohit Seth;	
9	11083723	2021-08-10	2019-08-21	Use of roluperidone to treat negative symptoms and disorders, increase neuroplasticity, and promote neuroprotection	Remy Henri Luthringer;	Minerva Neurosciences, Inc.;
10	11058912	2021-07-13	2021-01-04	Adaptive device utilizing neuroplasticity for the rehabilitation of stroke victims	Brooke Dunefsky;	
11	10869999	2020-12-22	2018-12-10	Systems and methods for treating shoulder pain related to subacromial impingement syndrome	Maria E Bennett; Joseph W Boggs, II; John Chae;	Spr Therapeutics, Inc.;
12	10864347	2020-12-15	2018-06-21	Changing spoken language accent by presenting a training audio segment of a target accent while presenting a relaxing audio segment	Erfan Amidi;	
13	10758739	2020-09-01	2018-05-18	Restructuring neural pathways in the brain with a combination of transcranial therapies	Douglas Johnson; Max Kanarsky;	Multi Radiance Medical;
14	10485470	2019-11-26	2016-02-03	Early diagnosis and treatment of Alzheimer disease and mild cognitive impairment	Iftach Dolev; Hilla Fogel;	Quantalx Neuroscience Ltd;
15	10166384	2019-01-01	2017-11-27	Systems and methods for treating shoulder pain related to subacromial impingement syndrome	Maria E Bennett; Joseph W Boggs, II; John Chae;	Spr Therapeutics, Inc.;
16	10002544	2018-06-19	2017-02-01	Neuroplasticity games for depression	Michael M Merzenich; Chung-Hay Luk; Mor Nahum; Thomas Matthew Van Vleet;	Posit Science Corporation;
17	9911348	2018-03-06	2016-02-08	Neuroplasticity games	Michael M Merzenich; Hyun Kyu Lee; Chung-Hay Luk; Mor Nahum; Jyoti Mishra Ramanathan; Henry W Mahncke; Thomas Matthew Van Vleet; Travis William Wade; Peter Brendan Delahunt; Jefferson Arthur Dewey; Samuel Chungchi Chan; Gregory Michael Sabatini; Donald Kelly Richards; Wesley Marshall Jackson;	Posit Science Corporation;
18	9886866	2018-02-06	2016-02-08	Neuroplasticity games for social cognition disorders	Michael M Merzenich; Mor Nahum;	Posit Science Corporation;
19	9827412	2017-11-28	2016-07-05	Systems and methods for treating shoulder pain related to subacromial impingement syndrome	Maria E Bennett; Joseph W Boggs, II; John Chae;	Spr Therapeutics, Inc.;
20	9824602	2017-11-21	2016-02-08	Neuroplasticity games for addiction	Michael M Merzenich; Chung-Hay Luk; Mor Nahum; Jyoti Mishra Ramanathan; Thomas Matthew Van Vleet;	Posit Science Corporation;

PATENTS

#	Patent No	Pub. Date	Filed	Title	Inventors	Assignees
21	9601026	2017-03-21	2014-03-07	Neuroplasticity games for depression	Michael M Merzenich; Chung-Hay Luk; Mor Nahum; Thomas Matthew Van Vleet;	Posit Science Corporation;
22	9381343	2016-07-05	2014-11-10	Systems and methods for treating shoulder pain related to subacromial impingement syndrome	Maria E Bennett; Joseph W Boggs, II; John Chae;	Spr Therapeutics, Inc.;
23	9308445	2016-04-12	2014-03-07	Neuroplasticity games	Michael M Merzenich; Hyun Kyu Lee; Chung-Hay Luk; Mor Nahum; Jyoti Mishra Ramanathan; Thomas Matthew Van Vleet; Henry W Mahncke; Travis William Wade; Peter Brendan Delahunt; Jefferson Arthur Dewey; Samuel Chungchi Chan; Gregory Michael Sabatini; Donald Kelly Richards; Wesley Marshall Jackson;	Posit Science Corporation;
24	9308446	2016-04-12	2014-03-07	Neuroplasticity games for social cognition disorders	Michael M Merzenich; Mor Nahum;	Posit Science Corporation;
25	9302179	2016-04-05	2014-03-07	Neuroplasticity games for addiction	Michael M Merzenich; Chung-Hay Luk; Mor Nahum; Jyoti Mishra Ramanathan; Thomas Matthew Van Vleet;	Posit Science Corporation;
26	8886337	2014-11-11	2011-12-05	System and method for treating shoulder pain related to subacromial impingement syndrome	Maria E Bennett; Joseph W Boggs, II; John Chae;	Spr Therapeutics, Inc.;
27	8065012	2011-11-22	2007-08-06	Methods and apparatus for effectuating a lasting change in a neural-function of a patient	Andrew D Firlik; Jeffrey Balzer; Bradford Evan Gliner; Alan J Levy; Carlton B Morgan; Katrina S Firlik;	Advanced Neuromodulation Systems, Inc.;
28	7756584	2010-07-13	2002-09-27	Methods and apparatus for effectuating a lasting change in a neural-function of a patient	W Douglas Sheffield; Andrew D Firlik; Katrina S Firlik;	Advanced Neuromodulation Systems, Inc.;
29	7577481	2009-08-18	2006-02-15	Methods and apparatus for effectuating a lasting change in a neural-function of a patient	Andrew D Firlik; Jeffrey Balzer; Bradford Evan Gliner; Alan J Levy; Carlton B Morgan; Katrina S Firlik;	Advanced Neuromodulation Systems, Inc.;
30	7460911	2008-12-02	2004-12-03	System and method suitable for treatment of a patient with a neurological deficit by sequentially stimulating neural pathways using a system of discrete implantable medical devices	Gregoire Cosendai; Ytzhak Zilberman; Doug Kushner; Anne Marie Ripley; Ruth Turk; Jane Burrige; Scott V Notley; Ross Davis; Morten Hansen; Lee Jay Mandell; Joseph H Schulman; Robert Dan Dell; John C Gord;	Alfred E. Mann Foundation for Scientific Research;
31	7427666	2008-09-23	2006-11-21	Antibody directed against a ubiquitin-specific protease occurring in the brain	Tatsuo Suzuki; Qing Bao Tian;	Eisai R&d Management Co., Ltd.;
32	7349739	2008-03-25	2003-05-05	Method and apparatus for neurophysiologic performance	Jason D Harry; Stephen J Kleshinski; James B Niemi; Gregg R Draudt; Dirk Ahlgrim; James J Collins;	Afferent Corporation;
33	7157265	2007-01-02	2002-10-29	Ubiquitin-specific protease occurring in the brain and DNA encoding the same	Tatsuo Suzuki; Qing Bao Tian;	Eisai Company, Limited;
34	7146217	2006-12-05	2002-02-07	Methods and apparatus for effectuating a change in a neural-function of a patient	Andrew D Firlik; Alan J Levy; Bradford Evan Gliner;	Northstar Neuroscience, Inc.;
35	7010351	2006-03-07	2001-03-08	Methods and apparatus for effectuating a lasting change in a neural-function of a patient	Andrew D Firlik; Jeffrey Balzer; Bradford E Gliner; Alan J Levy; Carlton B Morgan;	Northstar Neuroscience, Inc.;
36	5656669	1997-08-12	1994-10-04	Restorative neuropharmacological agent for motor and speech disturbance	Katsuhiro Nishino;	Sumitomo Pharmaceuticals Company Limited;

INVENTORS

#	Name	Location	Patents	#	Name	Location	Patents
1	Michael M Merzenich	San Francisco, CA (US)	8	46	Max Kanarsky	Solon, OH (US)	1
2	Mor Nahum	San Francisco, CA (US)	8	47	Iftach Dolev	Zur Moshe, IL	1
3	Maria E Bennett	Beachwood, OH (US)	6	48	Hilla Fogel	Beit Dagan, IL	1
4	Joseph W Boggs, II	Chapel Hill, NC (US)	6	49	W Douglas Sheffield	Seattle, WA (US)	1
5	John Chae	Strongsville, OH (US)	6	50	Gregoire Cosendai	Cudrefin, CH	1
6	Chung-Hay Luk	Walnut Creek, CA (US)	6	51	Ytizhak Zilberman	Santa Clarita, CA (US)	1
7	Thomas Matthew Van Vleet	El Cerrito, CA (US)	6	52	Doug Kuschner	Santa Clarita, CA (US)	1
8	Andrew D Firlik	New Canaan, CT (US)	5	53	Anne Marie Ripley	Los Angeles, CA (US)	1
9	Jyoti Mishra Ramanathan	San Francisco, CA (US)	4	54	Ruth Turk	Farnham, GB	1
10	Bradford Evan Gliner	Sammamish, WA (US)	4	55	Jane Burrridge	Salisbury, GB	1
11	Alan J Levy	Bellevue, WA (US)	4	56	Scott V Notley	Southampton, GB	1
12	Jeffrey Balzer	Allison Park, PA (US)	3	57	Ross Davis	Melbourne Beach, FL (US)	1
13	Carlton B Morgan	Bainbridge Island, WA (US)	3	58	Morten Hansen	Valencia, CA (US)	1
14	Katrina S Firlik	New Canaan, CT (US)	3	59	Lee Jay Mandell	West Hills, CA (US)	1
15	Rohit Seth	Ontario, CA	2	60	Joseph H Schulman	Santa Clarita, CA (US)	1
16	Hyun Kyu Lee	South San Francisco, CA (US)	2	61	Robert Dan Dell	Valancia, CA (US)	1
17	Henry W Mahncke	San Francisco, CA (US)	2	62	John C Gord	Venice, CA (US)	1
18	Travis William Wade	San Francisco, CA (US)	2	63	Jason D Harry	Rumford, RI (US)	1
19	Peter Brendan Delahunt	San Mateo, CA (US)	2	64	Stephen J Kleshinski	Scituate, MA (US)	1
20	Jefferson Arthur Dewey	San Francisco, CA (US)	2	65	James B Niemi	West Kingstown, RI (US)	1
21	Samuel Chungchi Chan	Alameda, CA (US)	2	66	Gregg R Draudt	Stowe, MA (US)	1
22	Gregory Michael Sabatini	Richmond, CA (US)	2	67	Dirk Ahlgrim	Boston, MA (US)	1
23	Donald Kelly Richards	Lagunitas, CA (US)	2	68	James J Collins	Newton, MA (US)	1
24	Wesley Marshall Jackson	Daly City, CA (US)	2	69	Katsuhiro Nishino	Akita, JP	1
25	Tatsuo Suzuki	Matsumoto, JP	2				
26	Qing Bao Tian	Matsumoto, JP	2				
27	Antonios Zamar	London, GB	1				
28	Rajesh P N Rao	Seattle, WA (US)	1				
29	Jeffrey G Ojemann	Seattle, WA (US)	1				
30	Eberhard E Fetz	Seattle, WA (US)	1				
31	Chet T Moritz	Seattle, WA (US)	1				
32	Jeffrey Herron	Seattle, WA (US)	1				
33	Saptarshi Das	State College, PA (US)	1				
34	Sarbashis Das	State College, PA (US)	1				
35	Akhil Dodda	State College, PA (US)	1				
36	Paul Adlard	Coburg, AU	1				
37	Stuart Portbury	Essendon, AU	1				
38	Bashar Badran	San Ramon, CA (US)	1				
39	Mark George	Sullivans Island, SC (US)	1				
40	Doe Jenkins	Johns Island, SC (US)	1				
41	Daniel Cook	Charleston, SC (US)	1				
42	Remy Henri Luthringer	Geneva, CH	1				
43	Brooke Dunefsky	Irvington, NY (US)	1				
44	Erfan Amidi	Los Angeles, CA (US)	1				
45	Douglas Johnson	Brownstown, MI (US)	1				

ASSIGNEES

#	Name	Patents
1	Posit Science Corporation	8
2	Spr Therapeutics, Inc.	6
3	Advanced Neuromodulation Systems, Inc.	3
4	Northstar Neuroscience, Inc.	2
5	The London Psychiatry Centre	1
6	University of Washington and Seattle Children's Hospital Children's Research Institute	1
7	The Penn State Research Foundation	1
8	The Florey Institute of Neuroscience and Mental Health	1
9	Musc Foundation for Research Development	1
10	Minerva Neurosciences, Inc.	1
11	Multi Radiance Medical	1
12	Quantalx Neuroscience Ltd	1
13	Alfred E. Mann Foundation for Scientific Research	1
14	Eisai R&d Management Co., Ltd.	1
15	Afferent Corporation	1
16	Eisai Company, Limited	1
17	Sumitomo Pharmaceuticals Company Limited	1

ATTORNEYS

#	Name	Patents
1	Eric W. Cernyar	8
2	James W. Huffman	8
3	McDonald Hopkins LLC	6
4	Perkins Cole LLP	3
5	Morgan, Lewis & Bockius LLP	2
6	Melissa Acosta	2
7	Christopher S. L. Crawford	2
8	Choate, Hall & Stewart LLP	2
9	Heslin Rothenberg Farley & Mesiti P.C.	1
10	Dorsey&Whitney LLP	1
11	Buchanan Ingersoll & Rooney PC	1
12	Bozicevic, Field & Francis LLP	1
13	Paula A. Borden	1
14	Riverside Law LLP	1
15	Cooley LLP	1
16	Tarolli,Sundheim,Covell&Tummino LLP	1
17	Mark S Cohen	1
18	Pearl Cohen Zedek Latzer Baratz LLP	1
19	Craig Hoersten	1
20	Peter Lando	1
21	Romano; Malcolm J.	1
22	C. Hunter Baker	1
23	NixonPeabody, LLP	1
24	Donald R. Studebaker	1
25	Sughrue Mion Zinn MacPeak & Seas	1

LOCATIONS

#	Location	Patents
1	San Francisco, CA (US)	25
2	New Canaan, CT (US)	7
3	Beachwood, OH (US)	6
4	Strongsville, OH (US)	6
5	Seattle, WA (US)	6
6	Walnut Creek, CA (US)	6
7	El Cerrito, CA (US)	6
8	Chapel Hill, NC (US)	5
9	Sammamish, WA (US)	4
10	Bellevue, WA (US)	4
11	Matsumoto, JP	4
12	State College, PA (US)	3
13	San Mateo, CA (US)	3
14	Allison Park, PA (US)	3
15	Bainbridge Island, WA (US)	3
16	Santa Clarita, CA (US)	3
17	Ontario, CA	2
18	Los Angeles, CA (US)	2
19	South San Francisco, CA (US)	2
20	Richmond, CA (US)	2
21	Daly City, CA (US)	2
22	London, GB	1
23	Coburg, AU	1
24	Essendon, AU	1
25	San Ramon, CA (US)	1
26	Sullivans Island, SC (US)	1
27	Johns Island, SC (US)	1
28	Charleston, SC (US)	1
29	Geneva, CH	1
30	Irvington, NY (US)	1
31	Brownstown, MI (US)	1
32	Solon, OH (US)	1
33	Zur Moshe, IL	1
34	Beit Dagan, IL	1
35	Alameda, CA (US)	1
36	Lagunitas, CA (US)	1
37	Carrboro, NC (US)	1
38	Hayward, CA (US)	1
39	Piedmont, CA (US)	1
40	Cudrefin, CH	1
41	Farnham, GB	1
42	Salisbury, GB	1
43	Southampton, GB	1
44	Melbourne Beach, FL (US)	1
45	Valencia, CA (US)	1

#	Location	Patents
46	West Hills, CA (US)	1
47	Valancia, CA (US)	1
48	Venice, CA (US)	1
49	Rumford, RI (US)	1
50	Scituate, MA (US)	1
51	West Kingstown, RI (US)	1
52	Stowe, MA (US)	1
53	Boston, MA (US)	1
54	Newton, MA (US)	1
55	Ridgefield, CT (US)	1
56	Akita, JP	1

PATENT APPLICATION PUBLICATIONS

#	Pub. No	Filed	Title	Inventors	Assignees
1	20240130661	2023-12-21	VIRTUAL AND AUGMENTED REALITY DEVICES TO DIAGNOSE AND TREAT COGNITIVE AND NEUROPLASTICITY DISORDERS	Mayank Mehta;	
2	20240152209	2023-11-10	TREATMENT OF NEUROLOGICAL FUNCTIONING AND CONDITIONS USING COMPUTER-ASSISTED DUAL-TASK METHODOLOGY	Coleman Fung;	
3	20240082212	2023-09-08	USE OF MDMA FOR TREATMENT OF STRESS-RELATED DISORDERS	Glenn Short; Carrie Bowen; Srinivas Rao;	
4	20240197687	2023-06-28	METHODS OF TREATING NEUROINFLAMMATION AND INHIBITING MONOAMINE OXIDASE-A AND RESTORING/UPREGULATING/INCREASING IL-13 AND AND PGC-1 BY ADMINISTERING ORAL DOSAGE FORM CONTAINING MICRONIZED AND NONMICRONIZED PARTICULATE METAXALONE, ALGINIC ACID AND PROPYLENE GLYCOL ALGINATE	Francesco Squadrito; James Lukban; Ryan Hartung; Garrett Campbell;	Primus Pharmaceuticals, Inc.;
5	20230218916	2023-03-17	TREATMENT OF PSYCHIATRIC CONDITIONS SUCH AS RESISTANT DEPRESSION, BIPOLAR DISORDER AND/OR MAJOR DEPRESSIVE DISORDER VIA APPLICATION OF REPETITIVE TRANSCRANIAL MAGNETIC STIMULATION WITH THYROID HORMONE TREATMENT AND/OR QUETIAPINE	Antonios ZAMAR;	The London Psychiatry Centre;
6	20230191109	2022-11-29	NONINVASIVE CRANIAL NERVE THERAPY	Bashar Badran; Mark George; Doe Jenkins; Daniel Cook;	
7	20240226171	2022-05-04	COMPOSITION FOR PROMOTING NEUROREGENERATION, CONTAINING EXTRACELLULAR VESICLES DERIVED FROM THREE-DIMENSIONAL SPHEROIDAL CELL AGGREGATES	Eun Kim; Ji Sung; Eun Shin;	
8	20220296901	2022-03-18	PAIRING VAGUS NERVE STIMULATION WITH EMG-CONTROLLED FUNCTIONAL ELECTRICAL STIMULATION TO ENHANCE NEUROPLASTICITY AND RECOVERY	Eric Meyers; Michael Darrow; David Friedenberg; Lauren Wengerd;	
9	20220233546	2022-02-08	Neurologist Formulated Nocturnal Nootropic Founded on a Novel Theory of Brain Aging	Farah Fourcand;	
10	20220096455	2021-07-02	USE OF ROLUPERIDONE TO TREAT NEGATIVE SYMPTOMS AND DISORDERS, INCREASE NEUROPLASTICITY, AND PROMOTE NEUROPROTECTION	Remy LUTHRINGER;	
11	20230211162	2021-06-22	Non-Invasive Peripheral Nerve Stimulation for The Enhancement of Behavioral Therapy	Matthew Leonard; Edward Chang; William Schuerman; Bharath Chandrasekaran; Fernando Lucas;	
12	20210398678	2021-06-16	SYSTEMS AND METHODS FOR MONITORING FUNCTIONAL NEUROPLASTICITY	Nico Dosenbach; Dillan Newbold;	Washington University;
13	20230211157	2021-05-28	NONINVASIVE CRANIAL NERVE THERAPY	Bashar Badran; Mark George; Doe Jenkins; Daniel Cook;	
14	20210330255	2021-05-10	NEUROLOGICAL REHABILITATION AND TRAINING METHOD UTILIZING OCULOMOTOR, VISUAL AND/OR VESTIBULAR REHABILITATION TASKS ON SUBJECTS WITH PHARMACOLOGICALLY INDUCED NEUROPLASTICITY	John Schroeder; Robin Ashmore; Alexander Kiderman; Peter Doyle;	
15	20210217325	2021-03-25	SYSTEM OF IMPROVING NEUROPLASTICITY AND RECOVERY DURING OCCUPATIONAL, PHYSICAL, AND RELATED THERAPIES	Nicklas Pernblad; Abby Anderson; Martin McDonough;	
16	20210142880	2020-11-06	Method for real-time processing and presentation of audio signals for reducing sound hypersensitivity.	Nitin Bangera; Jeffrey Lewine;	
17	20200303057	2020-06-05	SYSTEM AND METHOD FOR DEVICE-BASED COGNITIVE DEVELOPMENT OR THERAPY	Vinay SINGH;	ORANGE NEUROSCIENCES CORPORATION;
18	20200129110	2019-10-24	FUNCTIONAL ANALYSIS OF HUMAN BRAIN USING FUNCTIONAL MAGNETIC RESONANCE IMAGING (FMRI) FOR ACUTE STRESS AND POST TRAUMATIC STRESS DISORDER (PTSD) MONITORING NEUROPLASTICITY	Carolyn Mountford; Marcus Gray;	Translational Research Institute Pty Ltd as trustee for Translational Research Institute Trust;
19	20200100692	2019-09-30	PORTABLE AND WEARABLE ELECTROMYOGRAPHIC BIOFEEDBACK FOR SPINAL CORD INJURY TO ENHANCE NEUROPLASTICITY	Ronald Cotton;	Rehabilitation Institute of Chicago d/b/a/ Shirley Ryan AbilityLab;
20	20180280809	2018-03-30	System of Improving Neuroplasticity and Recovery during Occupational, Physical, and Related Therapies	McDonough Martin; Nicklas Pernblad;	ShadowDraw Inc.;

PATENT APPLICATION PUBLICATIONS

#	Pub. No	Filed	Title	Inventors	Assignees
21	20180263536	2018-03-16	CHANGES IN AUDITORY EVOKED RESPONSES AS SIMPLE, RAPID BIOMARKERS FOR BLAST INJURY AND OTHER TRAUMATIC BRAIN INJURIES	Riyi Shi; Edward Bartlett; Jesyin Lai; Nicholas Race;	Purdue Research Foundation;
22	20180021315	2017-07-20	METHODS OF TREATING HEARING DISORDERS	Jinsheng Zhang; Shaowen Bao;	
23	20180221666	2017-05-09	SYSTEMS AND METHODS FOR OPTIMIZING TARGETED NEUROPLASTICITY	ROBERT RENNAKER, II; MICHAEL KILGARD; SETH HAYS;	THE BOARD OF REGENTS OF THE UNIVERSITY OF TEXAS SYSTEM;
24	20180000681	2016-07-01	Method for Treatment of Internal Disorders Via Activation of Dermatome Nervous Receptors	Gilbert Jaudy;	
25	20160321081	2016-04-25	Embedded systems of internet-of-things incorporating a cloud computing service of FPGA reconfiguration	Hyeung-Yun Kim; Paul Kim;	Other;
26	20160323143	2016-04-25	Method and apparatus for neuroplastic internet of things by cloud computing infrastructure as a service incorporating reconfigurable hardware	Hyeung-Yun KIM; Paul KIM;	Other;
27	20180008827	2016-02-03	DIAGNOSIS AND TREATMENT OF CHRONIC PAIN	Iftach DOLEV; Hilla FOGEL;	
28	20150024356	2014-07-18	APPARATUS AND METHOD FOR INDUCING NEUROPLASTICITY	Robert Hillyer; Claudie Gordon-Pomares;	
29	20140180184	2013-09-13	NEUROPLASTICITY VERTIGO TREATMENT DEVICE AND METHOD	James Duguid;	
30	20120253442	2012-04-03	METHODS AND APPARATUS FOR EFFECTUATING A LASTING CHANGE IN A NEURAL-FUNCTION OF A PATIENT	Bradford Gliner; Brad Fowler; Andrew Firlik; Jeffrey Balzer; Alan Levy; Kent Leyde;	
31	20130171139	2011-04-28	NCAM-VASE AND NEURODEGENERATION	Jane Saffell; Michael Delves; Alexandra Anderson;	
32	20100145427	2010-02-23	METHODS AND APPARATUS FOR EFFECTUATING A LASTING CHANGE IN A NEURAL-FUNCTION OF A PATIENT	Bradford Gliner; Brad Fowler; Andrew Firlik; Jeffrey Balzer; Alan Levy; Kent Leyde;	ADVANCED NEUROMODULATION SYSTEMS, INC.;

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