Patent Recipients July 1, 2020 to June 30, 2021

111 U.S. patents were issued to the University of South Florida

Inventors	Patent #	Title	Date Granted
Charles Nofsinger Summer Decker Jonathan Ford William Lee Charli Regel Mahmoud Dweik	10,702,372	Reversible Anchoring Devices	July 7, 2020
Tyagi Ramakrishnan Kyle Reed	10,702,402	Position/Weight-Activated Knee Locking Mechanism	July 7, 2020
Hana Torary-Jain	10,709,759	Self-Replicating Cell Selective Gene Delivery Compositions, Methods, and Uses Thereof	July 14, 2020
Peter Mouton Dmitry Goldgof Lawrence Hall Baishali Chaudhury	10,713,787	System and Method for Automated Stereology of Cancer	July 14, 2020
Murat Karabacak Gokhan Mumcu Huseyin Arslan	10,714,836	Hybrid MIMO Architecture Using Lens Arrays	July 14, 2020
Gangaram Ladde Olusegun Otunuga Nathan Ladde	10,719,578	Local Lagged Adapted Generalized Method of Moments Dynamic Process	July 21, 2020
Niketa Patel	10,724,097	Methods and Compositins for Diagnosos and Management of Diabetes and Metabolic Syndrome	July 28, 2020

Inventors	Patent #	Title	Date Granted
Vijaykumar Sutariya Anjali Hirani Yashwant Pathak	10,729,663	Nanoparticles in Thermoreversible Gels for Enhanced Therapeutics	August 4, 2020
Edwin Weeber Lisa Zhao Melinda Peters	10,729,744	Reelin Rescues Cognitive Function	August 4, 2020
Juan Del Valle Lindsey Shaw	10,730,913	Antimicrobial Analogues of Gramicidin S	August 4, 2020
Christina-Anne Lahiff Kyle Reed Seok Kim Tyagi Ramakrishnan	10,736,765	Knee Orthosis with Variable Stiffness and Damping	August 11, 2020
Jianfeng Cai Yan Shi	10,738,082	One-Bead-Two-Compound Macrocyclic Library and Methods of Preparation and Use	August 11, 2020
Juan Del Valle Lindsey Shaw	10,738,085	Antimicrobial Analogues of Gramicidin S	August 11, 2020
Manoj Ram Yogi Goswami Lee Stefanakos	10,739,620	Solid State Touchchromic Device	August 11, 2020
Jin Cheng Said Sebti	10,744,148	Methods of Treating Breast Cancer That Overexpress AKT Kinase	August 18, 2020
Simon Bello Eugenia Correa Christopher Passaglia	10,744,298	User-Controlled Urination Managegment System	August 18, 2020
Sasith Rajasooriya Chris Tsokos Pubudu Kaluarachchilage	10,754,959	Non-Linear Stochastic Models for Predicting Exploitability	August 25, 2020

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Christopher Passaglia Sharad Malavade	10,758,408	Tethered Eye Cannula and Method of Use	September 1, 2020
Vijaykumar Sutariya Umesh Jinwal	10,758,520	Glutathione-Coated Nanoparticles for Delivery of MKT-077 Across the Blood-Brain Barrier	September 1, 2020
Cesario Borlongan Paul Sanberg	10,765,706	Method of Stem Cell Delivery into the Brain During Chronic Disease Using Blood Brain Barrier Permeabilizers	September 8, 2020
Umesh Jinwal Vijaykumar Sutariya	10,765,755	Perparation and Characterization of Methylene Blue Nanoparticles for Alzheimer's disease and Other Tauopathies	September 8, 2020
Norma Alcantar Wen Zhao Sarina Ergas	10,766,790	Ammonia Removal in Freshwater and Saltwater Systems	September 8, 2020
Jaya Padmanabhan	10,772,847	Combinational Fendiline Formulations and Uses Thereof	September 15, 2020
Kathleen Halasz Yashwant Pathak Vijaykumar Sutariya	10,772,843	Nanoparticles For Treatment of Posterior Segment Ocular Diseases and Conditions	September 15, 2020
Jin Cheng Said Sebti	10,780,104	Compostions Including Triciribine and Epidermal Growth Factor Receptor Inhibitor Compounds or Salts Thereof and Methods of Use Thereof	September 22, 2020
Yu Sun	10,789,543	Functional Object-Oriented Networks for Manipulation Learning	September 29, 2020
Frank Vrionis Kamran Aghayev Sabrina Gonzalez Blohm James Doulgeris	10,792,083	Bone Fusion System	October 6, 2020
Dominic D'Agostino Shannon Kesl	10,792,268	Methods of Sustaning Dietary Ketosis and its Effects on Lipid Profile	October 6, 2020

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Richard Heller Kenneth Ugen	10,792,375	Method for the Treatment of Malignancies	October 6, 2020
Jianfeng Cai Ma Su Alekhya Nimmagadda Peng Teng	10,793,526	Hydantoin Derivative Compounds, Methods of zuse and Methods of Treatment	October 6, 2020
David Morse Josef Vagner Mark McLaughlin Robert Gillies Amanda Huynh Michael Doligalski	10,793,595	Toll-Like Receptor 2 Ligands and Methods of Making and Using Thereof	October 6, 2020
Frank Vrionis Kamran Aghayev Sabrina Gonzalez Blohm James Doulgeris	10,799,367	Transdiscal Compression-Distraction Screw To Replace Interbody Fusions In The Lumbar Spine	October 13, 2020
Santosh Aditham Nagarajan Ranganathan	10,805,316	Systems and Methods for Detecting Attacks in Big Data Systems	October 13, 2020
James Turkson Said Sebti Wayne Guida Man Lun Yip Nicholas Lawrence Harshani Lawrence Benjamin Greedy	10,806,712	Small Molecule Inhibitors of STAT3 With Anti-tumor Activity	October 20, 2020

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Huntington Potter Timothy Boyd Heather Lawrence Jim	10,806,772	Methods of Treating Cognitive Impairment	October 20, 2020
Juan Sanchez-Ramos Vasyl Sava Shijie Song Said Sebti	10,813,913	Small Molecules that Mimic or Antogonize Actions of Granulocyte Colony-Stimulating-Factor	October 27, 2020
Subhra Mohapatra Shyam Mohapatra Mark Howell Rajesh Nair	10,813,935	Methods and Compositions for Treating Drug Resistance in Cancer	October 27, 2020
Chad Dickey Bo Zhang Laura Blair	10,814,015	Transgenic Mouse Model for Conditional FKBP51 Expression and Related Methods	October 27, 2020
Mark Jaroszeski Richard Heller	10,814,129	Tartgeted Delivery of Molecules Using Impedance-Based Monitoring at Elevated Temperatures	October 27, 2020
Bill Baker Thushara Diyabalange James McClintock Charles Amsler	10,815,212	Cytotoxin Compounds and Methods of Isolation	October 27, 2020
Carmelina Gemma Paula Bickford Kevin Nash Josh Morganti Adam Bachstetter	10,815,285	Recombinant Adeno-Associated Virus-Mediated Expression of Neuroinflammatory and Neurodegenerative Diseases	October 27, 2020

Inventors	Patent #	Title	Date Granted
David Zaiden Thomas Weller John Grandfield Gokhan Mumcu	10,819,321	Switchable Active Balanced-to-Unbalanced Phase Shifter	October 27, 2020
Jonathan Sabbagh Chad Dickey	10,821,107	Inhibitors of the FKBP51 Protein From a High-Throughput Drug Screen and Methods of Use	November 3, 2020
Robert Gillies Robert Gatenby Natarajan Raghunand John Arrington Olya Stringfield Yoganand Balagurunathan Lawrence Hall	10,827,945	Radiologically Identified Tumor Habits	November 10, 2020
Ghadh Alzamzmi Dmitry Goldgof Yu Sun Rangachar Kasturi Terri Ashmeade	10,827,973	Machine-Based Infants Pain Assessment Tool	November 10, 2020
Denise Cooper Ryan Kirchoffer Robert Sparks Wayne Guida	10,828,304	Compositions and Methods for White to Beige Adipogenesis	November 10, 2020
Jun Tan Roland Shytle Jinhua Wen Darrell Sawmiller	10,828,312	Lithium Cholesterol, Compositions, Including, but not limited to Lithium Cholesterol Sulfate Compositions and Methods of Treatment for Alzheimer's Disease and Neurological Disorders	November 10, 2020

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Jianfeng Cai Chuanhai Cai	10,836,793	Compounds for the Treatment of Neurodegenerative Diseases	November 17, 2020
Dominic D'Agostino Jay Dean Raffaele Pilla Patrick Arnold	10,842,767	Use of Ketone Esters for Prevention of CNS Oxygen Toxicity	November 24, 2020
Michael Zaworotko Heather Clarke Arora Kapildev Padmini Kavuru Roland Shytle Twarita Pujari Lissette Marshall Tien Ong	10,842,797	Nutraceutical Co-Crystal Compositions	November 24, 2020
Nathan Crane Justin Nussbaum	10,843,415	Projection Material Processing System and Associated Method of Use	November 24, 2020
Nawa Pokhrel Chris Tsokos	10,848,515	Predictive Model for Overall Network Security Risk	November 24, 2020
Ali Demir Ismail Uysal Huseyin Arslan	10,849,526	System and Method for Bio-Inspired Filter Banks for a Brain-Computer Interface	December 1, 2020
Catherine Biasse Daniel Miller Amber Lynn Gatto	10,849,767	Orthotic Grippers	December 1, 2020
Niketa Patel Robert Sparks Wayne Guida	10,849,896	Sortilin-Binding Small Molecules for Increasing Glucose Uptake	December 1, 2020

Inventors	Patent #	Title	Date Granted
Venkat Bhethanabotla Thomas Weller Roger Tipton John Bentley Eduardo Rojas	10,852,479	Digital Fabrication of a Small Diameter Polymer Optical Waveguide	December 1, 2020
Manoj Ram Yogi Goswami Lee Stefanakos	10,854,352	Conducting Films and Methods for Forming Them	December 1, 2020
Niketa Patel Paula Bickford	10,857,187	Exosomes From Human Adipose-Derived Stem Cells for the Treatment of Brain Injury	December 8, 2020
Dominic D'Agostino Shannon Kesl	10,864,184	Metabolic Therapy for Wound Healing	December 15, 2020
Yu Chen Orville Pemberton Adam Renslo Priyadarshini Jaishankar	10,864,222	Beta-Lactamase Inhibitors, Formulations, and Uses Thereof	December 15, 2020
Yogi Goswami Elias Stefanakos Yangyang Zhang	10,864,294	Enhancement of Photocatalytic Effect with Surface Roughness in Photocatalytic Reactors	December 15, 2020
Michael Zaworotko Naga Duggirala Adam Smith Doug Shytle	10,870,665	Organic Anion Lithium Ionic Cocrystal Compounds and Compositions	December 22, 2020
Sekuk Kose Weize Yu	10,873,446	False Key-Controlled Aggressive Voltage Scaling	December 22, 2020

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Daniel Yeh Robert Bair Omur Ozcan George Dick Jorge Calabria Matthew Woodham	10,875,802	Portable Wastewater Treatment Systems	December 29, 2020
Yao Liu Zhuo Lu Ian Markwood Dakun Shen	10,878,186	Content Masking Attacks Against Information-Based Services and Defenses Thereto	December 29, 2020
Richard Gitlin Nabeel Sulleman	10,880,731	System and Method for Enhanced Diversity and Network Coding (EDC-NC)	December 29, 2020
Zhixin Miao Lingling Fan	10,884,060	Dynamic Parameter Estimation of Generators	January 5, 2021
Lilia Woods Troy Stedman	10,895,421	Thermoelectric Flow Cloaking Via Metamaterials	January 19, 2021
Ramiro Ramirez Marcia Golmohamadi Thomas Weller Jeffrey Frolik	10,897,091	3D Tripolar Antenna and Method of Manufacture	January 19, 2021
Bill Baker Nerida Wilson Dennis Kyle Anne-Claire Limon	10,898,460	Leishmania Inhibitors	January 26, 2021
Murat Karabacak Gokhan Mumcu Huseyin Arslan	10,903,578	Hybrid MIMO Architecture Using Lens Arrays	January 26. 2021

Inventors	Patent #	Title	Date Granted
Mildred Acevedo-Duncan Wishrawana Ratnayake David Ostrov	10,918,650	Method of Treating Melanoma Using an Inhibitor of an Atypical Protein Kinase C	February 16, 2021
Minh Hoang Muslum Ozmen Attila Yavuz	10,922,273	Forward-Private Dynamic Searchable Symmetric Encryption (DSSE) With Efficient Search	February 16, 2021
Hana Totary-Jain Andrew Marks Steven Marx	10,925,976	Smooth Muscle Specific Inhibition for Anti-Restenotic Therapy	February 23, 2021
Luther Palmer	10,926,409	Systems and Methods for Controlling Walking Robots	February 23, 2021
John Adams Christopher King Niraj Tolia Edwin Chen Nichole Salinas Miriam George Francis Ntumngia Samantha Barnes	10,927,153	Synthetic Plasmodium Antigens, Compositions, and Uses Thereof	February 23, 2021
Stephen Liggett	10,927,375	Compositions and Methods to Reduce Beta-Agonist-mediated Tachyphylaxis	February 23, 2021
Norma Alcantar Ryan Toomey Fei Guo Zelnab Veisi Tunan Peng	10,934,453	Cutin-Like Materials with Advanced Functionalities and Methods of Manufacture	March 2, 2021

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Ammar Bin Waqar Wenjun Cai	10,941,499	Electrodeposition of AL-NI Alloys and AL-Ni Multilayer Structures	March 9, 2021
Stuart Hart Susana Lai-Yuen Erin Moree James Doulgeris Benjamin Nelson Grahm Roach Brandon Kruse	10,945,750	Incision-Less Laparoscopic Instrument	March 16, 2021
Csilla D'Agostino Dominic D'Agostino Jay Dean	10,945,975	Delaying Latency to Seizure by Combinations of Ketone Supplements	March 16, 2021
Norma Alcantar David Morgan Zeinab Veisi Leonid Breydo Vladimir Uversky Ryan Toomey Tunan Peng Eva Lobbens	10,946,056	Inhibition of Formation of Amyloid B-Protein Fibrils Using Cactus Mucilage Extracts	March 16, 2021
John Kuhn Debtanu Maiti Yolanda Daza Bryan Hare Adela Ramos Venkat Bhethanabotla	10,946,362	Perovskite Oxides for Thermochemical Conversion of Carbon Dioxide	March 16, 2021

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Benjamin Franklin Travis Kempf Ryan Murphy Joel Kummer Myles Walters Daniel Bumiller	10,946,916	Assisted Spring Seat Height Optimization Lift	March 16, 2021
Mark Peeples Michael Teng Octavio Ramilo Maria Mejias Emilio Flano	10,947,512	Respiratory Syncytial Virus Having Altered NS1 Protein Function and Related Materials and Methods	March 16, 2021
Michael Highsmith Derek Lura	10,959,861	Adjustable Prosthetic Ankles	March 30, 2021
Daniel Yeh Jorge Calabria Onur Ozcan Robert Bair	10,961,130	Systems and Methods for Nutrient Recovery and Use	March 30, 2021
Sarina Ergas Meng Wang	10,961,142	Systems and Processes for Wastewater Treatment	March 30, 2021
Sriram Chellappan Partool Bharti Mona Minakshi Willie McClinton Jamshidbek Mirzakhalov	10,963,742	Leveraging Smart-Phone Cameras and image Processing Techniques to Classify Mosquito Genus and Species	March 30, 2021

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Abdul Malik Emre Seyyal	10,967,356	Dual Ligand SOL-GEL Sorbent Combining Susperhydrophobicity and π-π Interaction	April 6, 2021
Vijaykumar Sutariya Anjali Hirani Yashwant Pathak	10,973,776	Loteprednol Etabonate Nanoparticles in Thermoreversible Gels for Enhanced Therapeutics	April 13, 2021
Akhil Maheshwari Mohan Krishnan	10,973,932	Preclinical Model of Neonatal Necrotizing Enterocolitis	April 13, 2021
Mark Jaroszeski Richard Heller	10,974,045	Targeted Delivery of Molecules Using Impedence-Based Monitoring at Elevated Temperatures	April 13, 2021
Sanket Mishra Brian Blagg Chad Dickey	10,975,030	GRP94 Selective Inhibitors and Uses Thereof	April 13, 2021
Swaroop Ghosh Cheng-Wei Lin	10,976,360	Aging-Sensitive Recycling Sensors For Chip Authntication	April 13, 2021
Paul Rosen	10,977,861	Interring Quality in Point Cloud-Based Three-Dimensional Objects Using Topographical Data Analysis	April 13, 2021
Csilla D'Agostino Dominic D'Agostino	10,980,764	Exogenous Ketone Supplements for Reducing Anxiety-Related Behavior	April 20, 2021
Selahattin Sarsilmaz Tansel Yucelen	10,983,532	Ditributed Control of Heterogeneous Multi-Agent Systems	April 20, 2021

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Akhil Maheshwari Samuel Wickline Kopperuncholan Namachivayam Hua Pan	10,987,315	Antithrombotic Nanoparticles and Methods for Treating Necrotizing Enterocolitis	April 27, 2021
Jessica Ching Jonathan Ford Summer Decker	10,987,448	Osteoconductive and Osteoinductive Implant for Augmentation, Stabilization, or Defect Reconstruction	April 27, 2021
Aydin Sunal Evan Ticknor Selina Guardiano Timothy Jacobson Evverett Rogers Kyle Cogswell Robert Frisina Christopher Passaglia	11,001,353	Gas-Inflatable Personal Flotation Devices	May 11, 2021
Srinivas Tipparaju Sachin Badole Kalyan Chapalamaadugu Jared Tur	11,007,178	Methods and Uses of Nampt Activators for Treatment of Diabetes, Cardiovascular Diseases and Symptoms Thereof	May 18, 2021
Svitlana Garbuzova-Davis Jared Ehrhart Paul Sanberg	11,007,230	Plasma Derived from Human Umbilical Cord Blood for the Treatment of Neurodegenerative Disorders	May 18, 2021
Sami Noujaim Michael Teng	11,014,971	Peptibodies Compositions Thereof, and Methods of Treating Arial Fibrillation	May 25, 2021

Inventors	Patent #	Title	Date Granted
Shyam Mohapatra Subhra Mohapatra Rasim Guldiken Rajesh Nair Tao Wang	11,016,062	System and Method of Measuring Cell Viability and Growth	May 25, 2021
John Cotter Rasim Guldiken	11,021,846	Arc Melted Glass Piles for Structural Foundations and Method of Use	June 1, 2021
Ali Demir Huseyin Arslan	11,044,051	Adaptive Guards for Mixed Numerology Systems and Associated Method of Use	June 22, 2021
Berker Pekoz Selcuk Kose Huseyin Arslan	11,050,449	System and Method For Extensionless Adaptive Transmitter and Receiver Windowing	June 29, 2021
Steven Hasara Craig Lusk	11,047,458	Load-Adjustable Constant-Force Mechanisms	June 29, 2021
Sriram Chellappan Mona Minakshi Jamshidbek Mirzakhalov Sherzod Karlev Willie McClinton	11,048,928	Systems and Methods of Entomology Classification Based on Extracted Anatomies	June 29, 2021
Reese Starowesky Carlos Pena Autar Kaw Ali Yalcin Carla Vandeweerd	11,051,086	Systems and Methods for At-Home Monitoring of an Individual	June 29, 2021