

Technology Transfer and Commercialization FY2021 Innovation Activity



Cummulative stats

8

Invention Disclosures

New technologies are reported to the technology transfer office for evaluation, intellectual property protection, and licensing

120

13

Inventors

Inventions often involve multiple researchers from across the university's departments, colleges, and campuses

163

5

Patent Applications

If the invention is eligible for patent protection, a patent application is filed with the U.S. Patent and Trademark Office (USPTO)

41

2

Issued Patents

To see all of Embry-Riddle's patents, check out the Eagle Inventors wall in the Student Union

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FY 2021 Patent Portfolio:

ISSUED PATENTS

- U.S. 11,088,316 “Helical Dielectric elastomer actuator” Daewon Kim.
- U.S. 10,933,977 “Systems and methods for noise mitigation for hybrid and electric aircraft” Lenny Gartenberg, Richard P. Anderson, Borja Martos.
- U.S. 10,904,573 “Reduced multiplicative complexity discrete cosine transform (DCT) circuitry” Sirani Kanchana Mututhantrige Perera.
- U.S. 10,275,219 “Bit-serial multiplier for FPGA applications” Akhan Almagambetov, Holly R. Ross.
- U.S. 10,151,772 “Hot wire anemometer” Michael S. Potash, Alfred D. Helfrick.
- U.S. 10,071,855 “Floating active baffles, system and method of slosh damping” Daewon Kim, Rudy L. Baum, Vijay Santhanam, Balaji Sivasubramanian, Sathya Gangadharan.
- U.S. 10,071,825 “Hybrid magneto-active propellant management device for active slosh damping in spacecraft” Balaji Sivasubramanian, Leader Paul, Sathya Gangadharan.
- U.S. 9,845,600 “Highly vented truss wall honeycomb structures and methods of fabrication” David J. Sypeck.
- U.S. 9,625,913 “System and method for robust nonlinear regulation control of unmanned aerial vehicles using synthetic jet actuators” Vladimir V. Golubev, William MacKunis.
- U.S. 9,586,632 “Optimizing jets for wake control of ground vehicles” Domenic Barsotti, Sandra Boetcher.
- U.S. 9,534,608 “Multi-stage axial compressor with counter-rotation” Vinod Gehlot, Magdy S. Attia, Divyam Garg.
- U.S. 9,369,160 “Communication system using signal modulation” William C. Barott.
- U.S. 9,353,754 “Multi-stage axial compressor with counter-rotation using an accessory drive” Vinod Gehlot, Magdy S. Attia.
- U.S. 9,254,922 “Hybrid assembly for an aircraft” Richard Anderson, Lori Costello, Charles Eastlake, Glenn P. Greiner.
- U.S. 9,102,326 “Hybrid clutch assembly for an aircraft” Richard Anderson, Charles N. Eastlake, Matt Gonitzke, Glen P. Greiner.
- U.S. 8,998,126 “Lift generating device” Juan A. Alvarado Valverde.
- U.S. 8,095,314 “Generation of four dimensional grid of probabilistic hazards for use by decision support tools” Ian A. Wilson
- U.S. 7,184,883 “GPS-based steering needle instrument” Carl Edward Wischmeyer.

PENDING PATENT APPLICATIONS*

- U.S. 2020/0052800 “Communication in Fluid Medium Using Motor Modulation” Brian K. Butka, Jefferson Romney.
- U.S. 2021/0197967 “UAS Detection and Negation” Houbing Song, Yongxin Liu, Jian Wang.
- U.S. 2021/0226336 “Z-Axis Meandering Patch Antenna and Fabrication Thereof” Eduardo Rojas, Carlos Mejias-Morillo.

*Patent applications that have not yet published for public inspection are not listed here