
USU Commercialized Technology

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USU's Technology Transfer Services (TTS) has successfully commercialized a battery management system coming out of USU's ASPIRE lab, licensing it to an electric aircraft company and other industrial partners (discussions with additional potential licensees are ongoing). The technology also got a boost last month with the issuance of a new patent.

U.S. Patent No. 12,230,982, issued on 18 February 2025, is an addition to the portfolio of patents protecting USU's innovative battery "life balancing" system. The system allows batteries of varying densities, capacities, states of charge, life cycles, and even chemistries to be brought to uniformity in a single battery pack, enabling additional use of batteries that would otherwise be discarded and additional power from their combination. It furthers ASPIRE's mission for electrified transportation, be it cars, trucks, buses, trains, ships, or aircraft.

"We are leading the way in reimagining and revitalizing our nation's transportation network for an electrified future . . .," said Regan Zane, ASPIRE's director and one of the inventors of the latest patent. "We are proud to be at the forefront, addressing the urgent need for clean transportation options."