Electrochem Granted Patent for Electrochemical Cell Design in Batteries

-- The award marks yet another innovation in battery architecture for the energy engineering leader --

Electrochem Solutions, Inc. (Electrochem), an Integer company (NYSE: ITGR) and leading provider of commercial power solutions, announced it has been awarded U.S. Patent No. 11923511-B2 for Lithium Oxyhalide Electrochemical Cell Design for High-Rate Discharge. The award is a marker of the company's commitment to innovation in battery design that addresses evolving industry needs for higher performing solutions in both power delivery and durability.

The patented design specifically addresses the need for batteries capable of supporting next generation downhole oil exploration and drilling tool designs, which must deliver high power & extreme ruggedization. This unique mechanical battery configuration provides a means to deliver increased energy and power alongside superior shock and vibration resistance.

"We are pleased to see our work recognized by the U.S. Patent Office as we continue to develop power solutions that address specific, real-world industry problems," said Dr. Arden Johnson, Electrochem Fellow Scientist and co-inventor of the patent. "This novel design enables new drilling techniques by providing power sources that meet the ever-increasing demands of the downhole market."

This pioneering electrochemical cell design solves the need for durability and toughness in commercial applications with exceedingly high power demands. The proprietary arrangement of the electrodes provides for optimal balance of the active materials, enabling high discharge efficiency. This, in turn, results in higher cell capacities compared to other existing designs on the market.

"This most recent patent award underscores Electrochem's continued commitment to innovation across multiple markets," said Khristine Carroll, Electrochem's VP and General Manager. "Our business philosophy, and renewed vision, is to continue innovating and further optimizing our products through current and adjacent technologies to support the markets and customers we serve. We remain dedicated to channeling our resources toward solution development and technological advancements that address the unmet, or under met needs of these markets, in addition to further exploring new technologies to best support our customers' platforms."

To learn more about the latest Electrochem patent, visit: https://ppubs.uspto.gov/dirsearch-public/print/downloadPdf/11923511

About Electrochem Solutions, Inc.

Electrochem, founded in 1979, is a world leader in the design and manufacture of customized total power solutions. A subsidiary of Integer Holdings Corporation, Electrochem was born from the lithium battery invented for the implantable pacemaker by founder, Wilson Greatbatch. Today, Electrochem is known for providing safe and reliable products which are used across a range of critical applications in the portable medical, energy, military, and environmental markets. For more information, visit www.electrochemsolutions.com.

About Integer Holdings Corporation

Integer Holdings Corporation (NYSE:ITGR) is one of the largest medical device outsource (MDO) manufacturers in the world serving the cardiac, neuromodulation, vascular, portable medical, advanced surgical and orthopedics markets. The company provides innovative, high-quality medical technologies that enhance the lives of patients worldwide. In addition, it develops batteries for high-end niche applications in energy, military, and environmental markets. The company's brands include Greatbatch™ Medical, Lake Region Medical™, and Electrochem™. Additional information is available at www.integer.net.