

June 30, 2025

**MU Ionic Solutions Strengthens Patent Licensing Business for MP1 Technology,  
a Technology to Increase the Capacity of Lithium-Ion Batteries**Mitsubishi Chemical Corporation  
MU Ionic Solutions Corporation

MU Ionic Solutions Corporation (MUIS: Head Office: Chiyoda-ku, Tokyo; President: Kenichiro Mawatari), a subsidiary of Mitsubishi Chemical Corporation (MCC: Head Office: Chiyoda-ku, Tokyo; President: Manabu Chikumoto), is pleased to announce that it will strengthen the patent licensing business related to its MP1 Technology ("this technology"), a technology that increases the capacity of lithium-ion batteries (LIBs).

In recent years, expectations have grown for LIBs to become even more widespread in electric vehicles (xEVs), not only as a solution to environmental issues, such as reducing fossil fuel consumption and CO<sub>2</sub> emissions, but also from the perspective of realizing a next-generation mobility society. In addition, demand for LIBs is also growing with regard to energy storage systems (ESSs) for data centers, which are essential for advancing digital transformation.

As a result of the relentless research on the interface reaction between cathode materials and electrolytes that has been pursued since the dawn of xEVs, MUIS has successfully developed difluorophosphate-based cathode interfacial control technology as a core of this technology, resulting in the accumulation of numerous patents in this domain. This technology facilitates smooth movement of lithium ions between the cathode and anode, thereby simultaneously improving output characteristics at low temperatures and capacity retention characteristics for repetitive charging and discharging.

This technology has been adopted in many xEVs through MUIS's distribution channels, and patent licenses have been granted to several battery manufacturers. To meet increasing demand caused by the further spread of xEVs and ESSs, MUIS will actively license patents related to this technology to LIB manufacturers around the world.

Since the early development stage for consumer applications prior to LIBs' adoption for automotive use, MCC and MUIS have been leading research and development of LIB technology, and have proactively worked on obtaining patents. We will continue striving to ensure a stable supply of products by strategically acquiring and utilizing intellectual property rights, while contributing to widespread adoption of LIBs in every aspect through new technology developments.

**■Key license terms and conditions**

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| Licensing type         | Non-exclusive license with no sublicensing rights  |
| Licensed patent rights | Patent rights held by MUIS related to LIB technology using electrolytes containing difluorophosphate |
| Licensed acts          | Manufacture, use, transfer, export, and import of LIBs related to the licensed patent rights         |
| Licensee               | Manufacturers that manufacture and sell LIBs in Japan and overseas                                   |

**■Contact for inquiries regarding licenses**

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