

## Umicore acquires NMC battery material patents from 3M

优美科从 3M 购得 NMC 电池材料的专利权

Umicore has acquired from 3M the ownership of three Nickel Manganese Cobalt (NMC) patent families for cathode materials that are the reference in a wide range of lithium ion rechargeable batteries.

优美科从 3M 购得三个用于正极材料的镍锰钴(NMC)系列专利的所有权，这些专利广泛应用于锂离子电池。

Through this deal Umicore acquires all existing and future licensing rights to the three patents (US6964828 - Lu-Dahn, US6660432 - Paulsen, US7211237 - Eberman) that it had previously been practising under license from 3M. These patents collectively cover South Korea, China, Japan, Europe and the United States and have a validity of between 2021 and 2024. Umicore takes over all rights and responsibilities with the existing licensees of 3M.

通过这次交易，优美科获得了现有和未来这三个专利的专利许可权(US6964828 - Lu-Dahn, US6660432 - Paulsen, US7211237 - Eberman)，这些专利之前由 3M 公司授权使用。这些专利覆盖了韩国、中国、日本、欧洲和美国地区，并且在 2021 年至 2024 年间具备有效性。优美科将从 3M 处获得现有专利授权的所有权利和责任。

The NMC cathode materials covered by the different patent families offer an outstanding balance of power, energy, safety features and low cost. As a result, these materials have become the reference for large format lithium ion batteries which are typically used in automotive and energy storage applications. This is furthermore evidenced by the significant number of existing licensees among leading battery and battery material producers.

不同专利系列所涉及的 NMC 正极材料有效地平衡了能源、安全性能和低成本这些因素。因此，这些材料是大批量生产应用于汽车和能源储存的锂离子电池所必需的，有相当一部分电池和电池材料生产商被授权使用也证明了这一点。

"We are delighted to be acquiring the full ownership of these patents. The NMC battery materials technology covered by these patents is a clear reference in the industry and is being incorporated in the majority of batteries for electrified vehicle platforms being launched today and in the near future. As an established market participant Umicore is well positioned to continue enforcing these patents around the globe. We will also continue our successful technology cooperation with 3M to further improve the overall performance of the lithium-ion battery system" said Kurt Vandeputte, Vice President Business Team for Umicore's Rechargeable Battery Materials activity.

“我们很高兴将获得这些专利的全部所有权。这些专利所涵盖的 NMC 电池材料技术在业内已经成为了明确的参考标准，并被广泛应用于目前以及不久的将来所推出的电动汽车平台所需的电池中。作为知名的市场参与者，优美科有足够的优势将继续在全球范围内推广这些专利。”我们



还将继续与 3M 公司进行技术合作，进一步提高锂离子电池的整体性能系统。”优美科可充电电池材料业务副总裁 Kurt Vandeputte 代表商务团队说道。