Cleaning Lithium to Improve Protective Layer

Tech ID: 23691 / UC Case 2009-511-0

SUMMARY

Professor Dunn and colleagues have developed a method to improve the homogeneity of a protective layer placed upon a lithium metal surface. By removing surface impurities from the lithium and applying a uniform protective layer, a more homogenous current distribution can be maintained across the electrode and dendrite formation can be suppressed.

PATENT STATUS

Country	Type	Number	Dated	Case
Japan	Issued Patent	6005938	09/16/2016	2009-511
China	Issued Patent	ZL201080009679.0	01/14/2015	2009-511
United States Of America	Issued Patent	8,703,333	04/22/2014	2009-511

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INVENTORS

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OTHER INFORMATION

KEYWORDS

Electrode manufacturing, lithium, cleantech

CATEGORIZED AS

- **Engineering**
  - Engineering
- **Materials & Chemicals**
  - Nanomaterials
  - Other
- **Nanotechnology**
  - Electronics

RELATED CASES

2009-511-0

ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- Charge Storage Device Architecture For Increased Energy And Power Density
- Thermally Insulating Transparent Barrier (THINNER) coatings with high transmission, thermal and radiative resistance
- Protective Film for Lithium Electrodes