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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

- ▶ [Thermally Insulating Transparent Barrier \(THINNER\) coatings with high transmission, thermal and radiative resistance](#)
- ▶ [Protective Film for Lithium Electrodes](#)

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