

# Technology Development Group

## Available Technologies

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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	Туре	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**

Dunn, Bruce S.

#### 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

## Gateway to Innovation, Research and Entrepreneurship

**UCLA Technology Development Group** 

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