SOLID POLYMER LITHIUM-ION BATTERIES

ENERGY & ENVIRONMENT

Nanocomposite solid polymer electrolytes to improve lithium-ion battery performance and safety.

TECHNOLOGY TYPE
Energy Storage
Lithium Ion Battery

STAGE OF DEVELOPMENT
- Prototypes constructed. Demonstrates that high performance solid polymer electrolytes can be manufactured in open air.
- Testing required to confirm safety and performance in extreme conditions.

IP PROTECTION
PCT Pending
Composite Solid Electrolytes For Lithium Batteries
WO 2017/161160
Additional Provisional Patents Filed

FEATURES AND BENEFITS
- Improves overall battery performance and cycling performance.
- Increases safety and stability.
- Exhibits high ionic conductivity at low temperatures.
- Utilizes a natural, economical, and non-toxic nanotube material.
- Simple technological process.
- Nanotube additive is under $10 per pound, much less than carbon nanotubes or silicon nanoparticles at over $15,000 per pound.

RECENT PUBLICATIONS

INVENTOR PROFILE
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