

UNITED STATES PATENTS
HELD BY C.A. ANGELL

Date of Patent	5/5/2009
Patent #	US 7,527,899 B2
Patent Holder	Angell, et al.
Title	Electrolytic Ortoborate Salts for Lithium Batteries
Filed	7/28/2009
Inventors	C. Austen Angell, Mesa; Wu Xu, Tempe - all of Ariz.
Assignee	Arizona Board of Regents for and on behalf of Arizona State University
Date of Patent	3/17/2009
Patent #	US 7,504,473 B2
Patent Holder	Angell, et al.
Title	Conductive Polymeric Compositions for Lithium Batteries
Filed	4/14/2009
Inventors	C. Austen Angell, Mesa; Wu Xu, Tempe - all of Ariz.
Assignee	Arizona Board of Regents for and on behalf of Arizona State University
Date of Patent	3/14/2006
Patent #	7,012,124 B2
Patent Holder	Angell, et al.
Title	SOLID POLYMERIC ELECTROLYTES FOR LITHIUM BATTERIES
Inventors	Charles Austen Angell, Mesa; Wu Xu, Tempe; Xiaoguang Sun, Tempe - all of Ariz.
Assignee	Arizona Board of Regents, Tempe, Ariz.
Date of Patent	5/12/2001
Patent #	6,245,465 B1
Patent Holder	Angell, et al.
Title	NON-AQUEOUS ELECTROLYTE SOLVENTS FOR SECONDARY CELLS
Filed	10/13/1998
Inventors	Charles Austen Angell, Mesa, Ariz.; Kang Xu, Montgomery Village, MD; Igor P. Kavalev, Tucson, Ariz; Terje A. Skothelm, Tucson, Ariz.
Assignee	Arizona Board of Regents, Tempe, Ariz.

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Date of Patent	12/5/2000
Patent #	6,155,057
Patent Holder	Angell, et al.
Title	REFRIGERANT FLUID CRYSTALLIZATION CONTROL AND PREVENTION
Filed	3/1/1999
Inventors	Charles A. Angell, Mesa; Vesselin Velikov, Tempe; Hemalata Senapati, Tempe - all of Ariz.
Assignee	Arizona Board of Regents, Tempe, Ariz.
Date of Patent	1/5/1999
Patent #	5,855,809
Patent Holder	Angell, et al.
Title	ELECTROCHEMICALLY STABLE ELECTROLYTES
Inventors	Charles Austen Angell, Mesa; Sheng-Shui Zhang, Tucson; Kang Xu, Tempe - all of Ariz.
Assignee	Arizona Board of Regents, Tempe, Ariz.
Date of Patent	10/5/1999
Patent #	5,962,169
Patent Holder	Angell, et al.
Title	LITHIUM ION CONDUCTING ELECTROLYTES
Filed	7/24/1998
Inventors	Charles Austen Angell, Mesa, Ariz; Changle Liu, Midland, Mich; Kang Xu, Montgomery Village, MD; Terje A. Skoethelm, Tucson, Ariz.
Assignee	Arizona Board of Regents, Tempe, Ariz.
Date of Patent	7/28/1998
Patent #	5,786,110
Patent Holder	Angell, et al.
Title	ALKALI-METAL-ION CONDUCTING ELECTROLYTES
Filed	6/6/1995
Inventors	C. Austen Angell; Changle Liu; Kang Xu - all of Tempe, Ariz.
Assignee	Arizona Board of Regents, Tempe, Ariz.

UNITED STATES PATENTS
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Date of Patent	12/15/1998
Patent #	5,849,432
Patent Holder	Angell, et al.
Title	Wide electrochemical window solvents for use in electrochemical devices and electrolyte solutions incorporating such solvents
Inventors	C. Austen Angell, Mesa; Sheng-Shui Zhang, Tucson; Kang Xu, Tempe, all of Ariz.
Assignee	Arizona Board of Regents, Tempe, Ariz.