

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Edgar Lara-Curzio	08/11/2008
Ke An	08/12/2008
James O. Kiggans Jr	08/06/2008
Nancy J. Dudney	08/07/2008
Cristian I. Contescu	08/06/2008
Frederick S. Baker	08/05/2008
Beth L. Armstrong	08/04/2008

RECEIVING PARTY DATA

Name:	UT-Battelle LLC
Street Address:	Oak Ridge National Laboratory
Internal Address:	Post Office Box 2008
City:	Oak Ridge
State/Country:	TENNESSEE
Postal Code:	37831-6498

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12110913

CORRESPONDENCE DATA

Fax Number: (414)978-8805
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
 Phone: 4142775805
 Email: rtr@quarles.com
 Correspondent Name: Richard T. Roche
 Address Line 1: 411 E. Wisconsin Ave
 Address Line 2: Suite 2040
 Address Line 4: Milwaukee, WISCONSIN 53202

CH \$40.00 12110913

ATTORNEY DOCKET NUMBER:

920976.00051

NAME OF SUBMITTER:

Richard T. Roche

Total Attachments: 8

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ASSIGNMENT

WHEREAS, we, the below-named inventors whose residences and post offices are as stated below, have invented certain new and useful improvements in a

Lightweight, Durable Lead-Acid Batteries

for which an application for United States Letters Patent was filed April 28, 2008, under serial no.12/110,913, and

WHEREAS, UT-Battelle LLC, a limited liability company organized and existing under the laws of the State of Tennessee, having an office at Oak Ridge National Laboratory, Post Office Box 2008, Oak Ridge, Tennessee 37831-6498, hereinafter called the ASSIGNEE, is desirous of acquiring the entire right, title and interest in the application and invention and to any Letters Patent that may be granted therefor in the United States of America and in any and all foreign countries.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby assign to ASSIGNEE the entire right, title and interest in the application and the invention, to all rights of priority thereto pursuant to the International Convention for the Protection of Industrial Property, and in any Letters Patent on the invention that may be granted in the United States of America and in any and all foreign countries, including any and all Letters Patent that are divisions, reissues, continuations, substitutions or extensions of any Letters Patent or applications therefor on the invention.

We hereby authorize and request the Director of the United States Patent and Trademark Office and the officials of any and all foreign countries to issue any and all of said Letters Patent, when granted, to the ASSIGNEE.

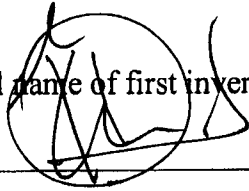
Further, we hereby agree to communicate to said ASSIGNEE or its representatives any facts known to us respecting said invention, to testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitution, renewal and reissue applications, to execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, and to make all rightful oaths and generally do everything possible to aid said ASSIGNEE and its representatives to obtain and enforce proper protection for said invention in the United States of America and in any and all foreign countries.

We further agree that the terms, covenants and conditions of this assignment shall inure to the benefit of ASSIGNEE, its successors, assigns, and legal representatives, and shall be binding on us, our heirs, legal representatives, and assigns.

Full name of first inventor:

Edgar Lara-Curzio

Signature: _____



Residence:

Lenoir, TN

State of Tennessee)

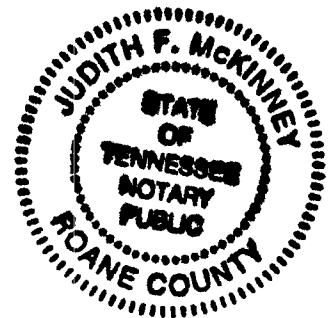
County of Anderson *Roane*)

On this 11th day of August, 2008, before me, a Notary Public in and for the County and State aforesaid, appeared Edgar Lara-Curzio to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instrument as his/her free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Judith F. McKinney

Notary Public



SEAL

My Commission Expires: April 15, 2009

Full name of second inventor: **Ke An**

Signature: *Ke An*

Residence: **Knoxville, TN**

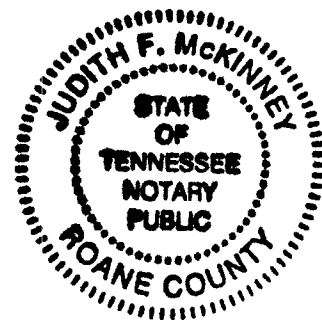
State of Tennessee)

County of Anderson *Roane*)

On this 12th day of August, 2008, before me, a Notary Public in and for the County and State aforesaid, appeared Ke An to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instrument as his/her free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Judith F. McKinney
Notary Public



SEAL
My Commission Expires: April 15, 2009

Full name of third inventor: **James O. Kiggans, Jr.**

Signature: *James O. Kiggans, Jr.*
Residence: Oak Ridge, TN

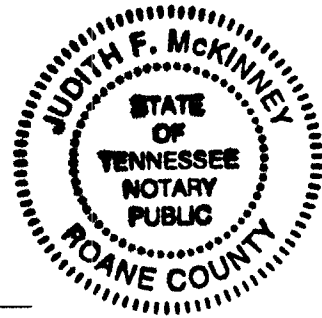
State of Tennessee)

County of Anderson Roane)

On this 6th day of August, 2008, before me, a Notary Public in and for the County and State aforesaid, appeared James O. Kiggans, Jr. to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instrument as his/her free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Judith F. McKinney
Notary Public



SEAL
My Commission Expires: April 15, 2009

Full name of fourth inventor: **Nancy J. Dudney**

Signature: Nancy J. Dudney

Residence: **Knoxville, TN**

State of Tennessee)

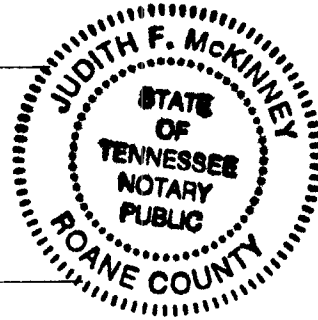
County of Anderson Roane)

On this 7th day of August, 2008, before me, a Notary Public in and for the County and State aforesaid, appeared Nancy J. Dudney to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instrument as his/her free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Judith F. McKinney

Notary Public



SEAL

My Commission Expires: April 15, 2009

Full name of fifth inventor: Cristian I. Contescu

Signature: Cristian Contescu

Residence: Knoxville, TN

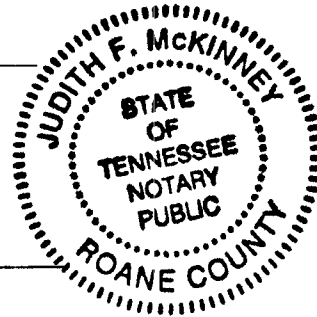
State of Tennessee)

County of Anderson Roane

On this 6th day of August, 2008, before me, a Notary Public in and for the County and State aforesaid, appeared Cristian I. Contescu to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instrument as his/her free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Judith F. McKinney
Notary Public



SEAL
My Commission Expires: April 15, 2009

Full name of sixth inventor: **Frederick S. Baker**

Signature: *Frederick S. Baker*

Residence: Oak Ridge, TN

State of Tennessee)

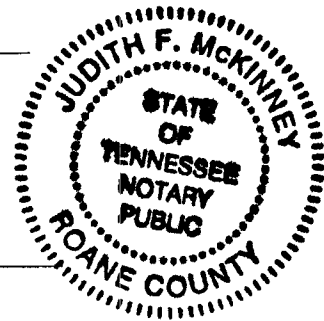
County of Anderson *Roane*)

On this 5th day of August, 2008, before me, a Notary Public in and for the County and State aforesaid, appeared Frederick S. Baker to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instrument as his/her free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Judith F. McKinney

Notary Public



SEAL

My Commission Expires: April 15, 2009

Full name of seventh inventor: **Beth L. Armstrong**

Signature: Beth Louise Armstrong

Residence: Clinton, TN

State of Tennessee)

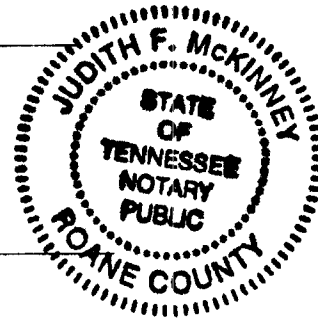
County of Anderson Roane

On this 4 day of August, 2008, before me, a Notary Public in and for the County and State aforesaid, appeared Beth L. Armstrong to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he/she executed said instrument as his/her free and voluntary act and for the uses and purposes therein expressed.

WITNESS my hand and seal the day and year last above given.

Judith F. McKinney

Notary Public



SEAL

My Commission Expires: April 15, 2009