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Attorney Docket No. 153801

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1. A. Name of conveying parties:

- 1) Umamaheswari JANAKIRAMAN
- 2) Ernest NDZEBET
- 3) Thillaiyan RAMANATHAN
- 4) Diana MARMORSTEIN
- 5) Mario DESTEPHEN
- 6) Gregory MILLER

B. Additional name(s) of conveying party(ies) attached?
☐ Yes ☒ No

2. A. Name and address of receiving party:

EAGLEPICHER TECHNOLOGIES, LLC
 C AND PORTER STREETS,
 JOPLIN, MISSOURI 64801

B. Additional name(s) & address(es) attached?
☐ Yes ☒ No

3. A. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

B. Execution Date: (ALL) August 29, 2012

4. A. Patent Application No. 13/617,858

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

C. Title of Application: LITHIUM-SULFUR BATTERY WITH PERFORMANCE ENHANCED ADDITIVES

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: James A. Oliff

Address: **OLIFF & BERRIDGE, PLC**
P.O. Box 320850
Alexandria, VA 22320-4850
Phone Number: 703-836-6400
Fax Number: 703-836-2787

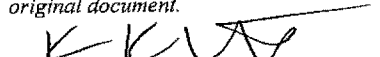
6. Total number of applications and patents involved: 1

7. Please charge Deposit Account No. 15-0461 the total fee (37 CFR 3.41) in the amount of \$40.00.

8. Credit any overpayment or charge any underpayment to deposit account number 15-0461.

9. **Statement and signature.**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.


 James A. Oliff, Registration No. 27,075
 Kara K. Verryt, Registration No. 68,370

Date: September 14, 2012

CH \$40.00 150461 13617858

WORLDWIDE ASSIGNMENT

(1-8)	Insert Name(s) of Inventor(s)	(1) Umamaheswari JANAKIRAMAN (3) Thillaiyan RAMANATHAN (5) Mario DESTEPHEN (7) _____	(2) Ernest NDZEBET (4) Diana MARMORSTEIN (6) Gregory MILLER (8) _____
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In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9)	Insert Name of Assignee	(9) EAGLEPICHER TECHNOLOGIES, LLC
(10)	Insert Address of Assignee	(10) C AND PORTER STREETS, JOPLIN, MISSOURI 64801

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100 and for all other countries: in the invention; in all applications for patent or similar rights on the invention, said applications including any and all provisional, non-provisional, divisional, continuation, international, confirmation, substitute and reissue application(s), including any application(s) filed in any country based thereon, and including the right to file foreign applications under the provisions of any treaty or convention; and in all grants, such as Letters Patent, certificates, utility models, confirmations, extensions, reissues and reexamination certificates that may be granted in the United States and in all other countries on the invention, known as

(11)	Insert Identification such as Title, Case Number, or Foreign Application Number	(11) Lithium-Sulfur Battery with Performance Enhanced Additives
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(Attorney Docket No. 153801)
for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or

(12)	Insert Date of Signing of Application	(12) on _____
------	--	---------------

(13)	Alternative Identification for filed applications	(13) U.S. Application Number 13/617,858 filed September 14, 2012
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1) Each undersigned agrees to execute all papers necessary in connection with any application and/or grant for the invention and also to execute separate assignments in connection with such applications and grants as the Assignee may deem necessary.

2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or grant for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.

4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm a valid grant to the Assignee in the United States and any other country in which the Assignee may file an application for patent or other grant.

5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office and other issuing authorities to issue any and all patents or other grants resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.

6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, PLLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of any issuing authority, including the United States Patent and Trademark Office, for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	8-29-2012	Inventor Signature	Umamaheswari Janakiraman	(SEAL)
Date	8-29-2012	Inventor Signature	Thillaiyan Ramanathan	(SEAL)
Date	8/29/2012	Inventor Signature	Mario Destephen	(SEAL)
Date	8/29/2012	Inventor Signature	Ernest Ndzebete	(SEAL)
Date	8-29-2012	Inventor Signature	Diana Marmorstein	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)
Date	_____	Inventor Signature	_____	(SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date	8-29-2012	Witness	Julie Marshall
Date	8/29/12	Witness	Alaine Jackson

WORLDWIDE ASSIGNMENT

	Insert	(1)	Unamaheswari JANAKIRAMAN	(2)	Ernest NDZEBET
(1-8)	Name(s)	(3)	Thillaiyan RAMANATHAN	(4)	Diana MARMORSTEIN
	of Inventor(s)	(5)	Mario DESTEPHEN	(6)	Gregory MILLER
		(7)		(8)	

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9)	Insert Name of Assignee	(9)	EAGLEPITCHER TECHNOLOGIES, LLC
(10)	Insert Address of Assignee	(10)	C AND PORTER STREETS, JOPLIN, MISSOURI 64801

(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100 and for all other countries: in the invention; in all applications for patent or similar rights on the invention, said applications including any and all provisional, non-provisional, divisional, continuation, international, confirmation, substitute and reissue application(s), including any application(s) filed in any country based thereon, and including the right to file foreign applications under the provisions of any treaty or convention; and in all grants, such as Letters Patent, certificates, utility models, confirmations, extensions, reissues and reexamination certificates that may be granted in the United States and in all other countries on the invention, known as

(11)	Insert Identification such as Title, Case Number, or Foreign Application Number	(11)	Lithium-Sulfur Battery with Performance Enhanced Additives
			(Attorney Docket No. 153801)

for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or

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(13)	Alternative Identification for filed applications	(13)	U.S. Application Number 13/617,858
			filed September 14, 2012

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6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of any issuing authority, including the United States Patent and Trademark Office, for recordation of this document.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	_____	Inventor Signature	_____ (SEAL)
Date	_____	Inventor Signature	_____ (SEAL)
Date	_____	Inventor Signature	_____ (SEAL)
Date	_____	Inventor Signature	_____ (SEAL)
Date	_____	Inventor Signature	_____ (SEAL)
Date	8/29/2012	Inventor Signature	<i>[Signature]</i> (SEAL)
Date	_____	Inventor Signature	_____ (SEAL)
Date	_____	Inventor Signature	_____ (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date	8/29/12	Witness	<i>Alaine Jacket</i>
Date	8/29/12	Witness	<i>[Signature]</i>

PATENT

RECORDED: 09/14/2012

REEL: 029023 FRAME: 0959