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FORM PTO-1595

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102798008

To the Honorable Commissioner of Patents and Trademarks, U.S. Patent and Trademark Office, Washington, D.C. 20503  
original documents or copy thereof.

1. Name of conveying party(ies):

- 1) TAKITARO YAMAGUCHI
- 2) RYUICHI SHIMIZU
- 3) HYUN-JEI CHUNG
- 4) CHEOL-SOO JUNG
- 5) HYEONG-GON NOH
- 6) EUI-HWAN SONG
- 7) JOONG-HUN KIM

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

2. Name and address of receiving party(ies):

**SAMSUNG SDI CO., LTD.,**  
*a corporation organized under the laws of  
the Republic of Korea*  
575 Shin-dong,  
Yeongtong-gu, Suwon-si, Gyeonggi-do  
Republic of KOREA

Additional name(s) & addresses attached? ☐ Yes ☒ No

3. Nature of conveyance

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: 8 July 2004

10891233

4. Application number(s) or Patent number(s):

If this document is being filed together with a new application, the execution of the application is: 15 July 2004

A. Patent Application No.(s)  
to be assigned

B. Patent No.(s)

Additional number(s) attached? ☐ Yes ☒ No

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

Name: Robert E. Bushnell  
Attorney at Law  
Suite 300, 1522 "K" Street, N.W.  
Washington, D.C. 20005-1202  
(202) 408-9040

6. Total Number of applications and patents involved: ONE

7. Total fee (37 CFR § 3.41) ..... \$ U.S. \$40.00

- ☒ Enclosed (**Check# 45820**)  
☐ Authorized to be charged to deposit account

8. Deposit Account Number:

(Attach duplicate copy of this page if paying by deposit account)

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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.

ROBERT E. BUSHNELL  
Name of Person Signing

Signature

15 July 2004  
Date

Total number of pages including cover sheet: FIVE

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**Washington, D.C. 20231**

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**PATENT**  
**REEL: 015582 FRAME: 0455**

**ASSIGNMENT**

AS A BELOW NAMED INVENTOR, I, and each of us, individually hereby declare that:  
IN CONSIDERATION of the sum of TEN (\$10.00) dollars or the equivalent thereof, and other good and valuable consideration, the receipt of which from the hereinafter named Assignee is hereby acknowledged, I do hereby sell, assign and forever grant and convey unto:

ASSIGNEE: **SAMSUNG SDI CO., LTD.,**  
a corporation organized under the laws of the Republic of Korea,

ADDRESS: 575 Shin-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do, Republic of KOREA

Who is my Assignee, and to the successors and assigns of my Assignee, all my right, title and interest, in and for the United States of America and all other countries, including all rights of priority, in and to the invention entitled:

**TITLE: ELECTROLYTE FOR LITHIUM SECONDARY BATTERY AND  
LITHIUM SECONDARY BATTERY COMPRISING SAME**

invented by me (if only one inventor is named below) or us (if more than one inventor is named below) and described in an application for a United States patent the specification of which is either attached hereto or otherwise accompanies this Assignment, or is more particularly identified as:

- ☒ executed on even date herewith, or
- ☐ Serial No. \_\_\_\_\_ filed in the U.S. Patent & Trademark Office on \_\_\_\_\_, or
- ☐ executed on \_\_\_\_\_

and in and to all United States patents which may be granted thereon and therefore, and in and to all certificates of corrections, divisions, continuations, continuations-in-part, reissued and re-examined patents, and to any extensions thereof, said interest being the entire ownership of the patent when granted, to be held and enjoyed by said SAMSUNG SDI CO., LTD., my Assignee, its successors, assigns or other legal representatives, to the full end of the term, terms, or any extension or renewal thereof, for which said patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment, sale and conveyance had not been made;

AND I hereby covenant and agree to sign and execute, without receiving any money or other consideration, any further documents or instruments which may from time-to-time be either necessary, lawful, proper or requested by the Assignee, in the prosecution of the above-named application or in the preparation and prosecution of all substitute applications, certificate of correction, division, continuation, continuation-in-part, reissue, re-examination, in any amendment, extension, or interference proceeding, whether administrative or judicial, or otherwise, to secure the title hereto in said Assignee, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreement or treaty to which the United States of America adheres;

AND I do hereby authorize and request the Commissioner of Patent & Trademarks to issue said Patent or Patents to the Assignee, and I hereby appoint as my, or our attorney, and authorize and request R. E. Bushnell, Reg. No. 27,774, to insert on this Assignment any further identification or to complete such identification which may be either necessary or desirable in order to comply the rules of the United States Patent & Trademark Office for recordation of this document.

IN WITNESS WHEREOF, I and we have set our hands and seals on the dates written beside my and our respective names:

<u>INVENTOR(s)</u>	<u>Date Signed</u>	<u>Witness(es)</u>
1) <u>Takitaro Yamaguchi</u> (Seal) TAKITARO YAMAGUCHI	<u>08/07/2004</u>	<u>jeon</u> Mi-Hyun Jeon
2) <u>Ryuichi Shimizu</u> (Seal) RYUICHI SHIMIZU	<u>08/07/2004</u>	<u>jeon</u> Mi-Hyun Jeon
3) _____ (Seal) HYUN-JEI CHUNG	_____	
4) _____ (Seal) CHEOL-SOO JUNG	_____	

- 5) \_\_\_\_\_ (Seal) \_\_\_\_\_  
HYEONG-GON NOH
- 6) \_\_\_\_\_ (Seal) \_\_\_\_\_  
EUI-HWAN SONG
- 7) \_\_\_\_\_ (Seal) \_\_\_\_\_  
JOONG-HUN KIM

☐ Additional inventors are being named on separately numbered sheets attached hereto.

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AS A BELOW NAMED INVENTOR, I, and each of us, individually hereby declare that:  
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a corporation organized under the laws of the Republic of Korea,

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**TITLE: ELECTROLYTE FOR LITHIUM SECONDARY BATTERY AND  
LITHIUM SECONDARY BATTERY COMPRISING SAME**

invented by me (if only one inventor is named below) or us (if more than one inventor is named below) and described in an application for a United States patent the specification of which is either attached hereto or otherwise accompanies this Assignment, or is more particularly identified as:

- ☒ executed on even date herewith, or  
☐ Serial No. \_\_\_\_\_ filed in the U.S. Patent & Trademark Office on \_\_\_\_\_, or  
☐ executed on \_\_\_\_\_

and in and to all United States patents which may be granted thereon and therefore, and in and to all certificates of corrections, divisions, continuations, continuations-in-part, reissued and re-examined patents, and to any extensions thereof, said interest being the entire ownership of the patent when granted, to be held and enjoyed by said SAMSUNG SDI CO., LTD., my Assignee, its successors, assigns or other legal representatives, to the full end of the term, terms, or any extension or renewal thereof, for which said patent or patents may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment, sale and conveyance had not been made;

AND I hereby covenant and agree to sign and execute, without receiving any money or other consideration, any further documents or instruments which may from time-to-time be either necessary, lawful, proper or requested by the Assignee, in the prosecution of the above-named application or in the preparation and prosecution of all substitute applications, certificate of correction, division, continuation, continuation-in-part, reissue, re-examination, in any amendment, extension, or interference proceeding, whether administrative or judicial, or otherwise, to secure the title hereto in said Assignee, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreement or treaty to which the United States of America adheres;

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1) _____ (Seal) TAKITARO YAMAGUCHI	_____	_____
2) _____ (Seal) RYUICHI SHIMIZU	_____	_____
3) <u>HJ CHUNG</u> (Seal) HYUN-JEI CHUNG	<u>July 8, 2004</u>	<u>Park Yun-Ha</u> Yun-Ha Park
4) <u>Jung</u> (Seal) CHEON-SOO JUNG	<u>July 8, 2004</u>	<u>Park Yun-Ha</u> Yun-Ha Park

5) HG NOH (Seal)  
HYEONG-GON NOH

July 8, 2004

Park Yun-Ha  
Yun-Ha Park

6) E. H. Song (Seal)  
EUI-HWAN SONG

July 8, 2004

Park Yun-Ha  
Yun-Ha Park

7) Joong H. Kim (Seal)  
JOONG-HUN KIM

July 8, 2004

Park Yun-Ha  
Yun-Ha Park

☐ Additional inventors are being named on separately numbered sheets attached hereto.