

06-08-2007



103414786

To the Honorable Commissioner of Patents and

original documents or copy thereof.

1. Name of conveying party:

- 1) ALEXEY ALEXANDROVICH SEROV
2) CHAN KWAK
3) SI-HYUN LEE

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

3. Nature of conveyance

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

Execution Date: 27 March 2007

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

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:

A. Patent Application No.(s)

11/725,552

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
(202) 408-9040

6. Total Number of applications and patents involved: ONE7. Total fee (37 CFR § 3.41) \$ U.S. \$40.00

- ☒ Enclosed
☐ Authorized to be charged to deposit account

8. Deposit Account Number:

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

06/07/2007 DBYRNE 00000039 11725552

01 FC:8021

40.00 OP

DO NOT USE THIS SPACE

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

June 5, 2007

Date

Total number of pages comprising cover sheet: FOUR

OMB No. 0651-0011 (exp. 4/94)

Do not detach this portion

Mail documents to be recorded with the required cover sheet information to:

Mail Stop: Assignment Recordation Services
Director of the U.S. Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

ASSIGNMENT (Page 1 of 2)

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: CATALYST FOR FUEL CELL, AND MEMBRANE-ELECTRODE ASSEMBLY FOR FUEL CELL
AND FUEL CELL SYSTEM INCLUDING 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. 11/725,552 filed in the U.S. Patent & Trademark Office on Mar. 20, 2007, 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:

INVENTOR(s)

Date Signed

Witness(es)

1) Alexey Alexandrovich Serov (Seal) Mar. 27, 2007
ALEXEY ALEXANDROVICH SEROV

2) _____ (Seal) _____
Chan KWAK

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

ASSIGNMENT (Page 1 of 2)

AS A BELOW NAMED INVENTOR, I, and each of us, individually hereby declare that:
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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: CATALYST FOR FUEL CELL, AND MEMBRANE-ELECTRODE ASSEMBLY FOR FUEL CELL
AND FUEL CELL SYSTEM INCLUDING 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. 11/725,552 filed in the U.S. Patent & Trademark Office on Mar. 20, 2007, 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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IN WITNESS WHEREOF, I and we have set our hands and seals on the dates written beside my and our respective names:

INVENTOR(s)

Date Signed

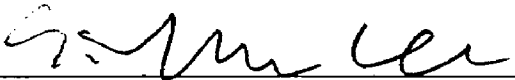
Witness(es)

1) _____ (Seal) _____
ALEXEY ALEXANDROVICH SEROV

2) Chan Kwak (Seal) Mar. 27, 2007
Chan KWAK

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

ASSIGNMENT (Page 2 of 2)

3)  (Seal) Mar. 27, 2007 _____
Si-Hyun LEE



Approved for use through 9/30/2000. OMB 0651-0032
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL

Patent fees are subject to annual revision.

Complete If Known

| | |
|----------------------|-----------------------------------|
| Application Number | 11/725,552 |
| Filing Date | 20 March 2007 |
| First Named Inventor | ALEXEY ALEXANDROVICH SEROV et al. |
| Examiner Name | To be Assigned |
| Group/Art Unit | 1745 |
| Attorney Docket No. | P58343 |

TOTAL AMOUNT OF PAYMENT

(\$)40.00

METHOD OF PAYMENT (check one)

1. Payment Enclosed:

(CHECK #52633)

☒ Check ☐ Credit Card ☐ Money Order
☐ Other

☐ Charge Any Additional Fee Required Under 37 C.F.R. §1.16 and 1.17.

☐ Applicant claims small entity status. See 37 CFR 1.27

2. The Commissioner is hereby authorized to charge any deficiency and credit any over payments to:

Deposit Account Number: 02-4943

FEE CALCULATION

| Fee Code | Fee (\$) | Fee Code | Fee (\$) | Fee Description | Fee Paid |
|----------|----------|----------|----------|-----------------|----------|
|----------|----------|----------|----------|-----------------|----------|

EXTENSION OF TIME FEES

| | | | | | |
|------|------|------|------|---|----|
| 1251 | 120 | 2251 | 60 | Extension for reply within first month | \$ |
| 1252 | 450 | 2252 | 225 | Extension for reply within second month | \$ |
| 1253 | 1020 | 2253 | 510 | Extension for reply within third month | \$ |
| 1254 | 1590 | 2254 | 795 | Extension for reply within fourth month | \$ |
| 1255 | 2160 | 2255 | 1080 | Extension for reply within fifth month | \$ |

APPEAL

| | | | | | |
|------|------|------|-----|--|----|
| 1401 | 500 | 2401 | 250 | Notice of Appeal | \$ |
| 1402 | 500 | 2402 | 250 | Filing a brief in support of an appeal | \$ |
| 1403 | 1000 | 2403 | 500 | Request for oral hearing | \$ |

CLAIMS

| | | | | | |
|------|-----|------|-----|---|----|
| 1201 | 200 | 2201 | 100 | Independent claims in excess of 3 (** - 3 = ** extra x \$200 = \$***) | \$ |
| 1202 | 50 | 2202 | 25 | claims in excess of 20 (** - 20 = ** extra x \$50 = \$***) | \$ |

Other Fee (specify) _____ \$

Other Fee (specify) _____ \$

Other Fee (specify) _____ \$

SUBTOTAL: LEFT COLUMN

\$0.00

FEE CALCULATION

| Fee Code | Fee (\$) | Fee Code | Fee (\$) | Fee Description | Fee Paid |
|---------------|----------|----------|----------|---|----------|
| MISCELLANEOUS | | | | | |
| 1801 | \$790 | 2801 | \$395 | Request for continued examination (RCE) | \$ |
| 1806 | \$180 | | | Submission of an IDS | \$ |
| 1814 | \$130 | 2814 | \$65 | Statutory disclaimer | \$ |
| 8021 | \$40 | | | Recordation of assignment per property | \$40.00 |

TRADEMARK

| | | | |
|-----------|-------|--|----|
| 6001/7001 | \$335 | Application for registration, per class | \$ |
| 6002/7002 | \$100 | Amendment to Allege Use, per class | \$ |
| 6003/7003 | \$100 | Statement of Use, per class | \$ |
| 6004/7004 | \$150 | Request for six-month extension of time, per class | \$ |
| 6205/7205 | \$100 | \$8 affidavit, per class | \$ |
| 6208/7208 | \$200 | \$15 affidavit, per class | \$ |
| 6201/7201 | \$400 | Application for renewal, per class | \$ |
| 6403/7403 | \$100 | Ex parte appeal, per class | \$ |

PETITION

| | | | | | |
|------|--------|-----------------------------------|-------|---|----|
| 1462 | \$400 | Petitions to Director (Group I) | \$ | | |
| 1463 | \$200 | Petitions to Director (Group II) | \$ | | |
| 1464 | \$130 | Petitions to Director (Group III) | \$ | | |
| 1452 | \$500 | 2452 | \$250 | Petitions to revive unavoidably abandoned application | \$ |
| 1453 | \$1500 | 2453 | \$750 | Petitions to revive unintentionally abandoned application | \$ |

PATENT MAINTENANCE

| | | | | | |
|------|--------|------|--------|-------------------|----|
| 1551 | \$900 | 2551 | \$450 | Due at 3.5 years | \$ |
| 1552 | \$2300 | 2552 | \$1150 | Due at 7.5 years | \$ |
| 1553 | \$3800 | 2553 | \$1900 | Due at 11.5 years | \$ |

Other Fee (specify) _____ \$

Other Fee (specify) _____ \$

Other Fee (specify) _____ \$

SUBTOTAL: RIGHT COLUMN

\$40.00

SUBMITTED BY

Complete (if applicable)

Typed or Printed Name

Robert E. Bushnell, Esq.

Reg. Number

27,774

Signature

Robert E. Bushnell

Date

5 June 2007

Deposit Account User ID

REB/sb

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

PATENT

RECORDED: 06/05/2007

REEL: 019418 FRAME: 0901