

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hunkyun PAK	03/15/2010
Yong-Seok JUN	03/15/2010
Ho-Gyeong YUN	03/15/2010
Jong-Hyeok PARK	03/15/2010
Seung-Yup LEE	03/15/2010
Man-Gu KANG	03/15/2010
Jong-Dae KIM	03/15/2010
Soo-Young OH	03/15/2010

RECEIVING PARTY DATA

Name:	ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE
Street Address:	161, Gajeong-dong, Yuseong-gu
City:	Daejeon
State/Country:	REPUBLIC OF KOREA
Postal Code:	305-700

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12680876

CORRESPONDENCE DATA

Fax Number: (202)408-0924
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 202-371-8976
Email: firm@rabinberdo.com
Correspondent Name: Rabin & Berdo, P.C.
Address Line 1: 1101 14th St., N.W.
Address Line 2: Suite 500
Address Line 4: Washington, DISTRICT OF COLUMBIA 20005

OP \$40.00 12680876

501134737

PATENT
REEL: 024162 FRAME: 0874

ATTORNEY DOCKET NUMBER:	KOR-161NP
NAME OF SUBMITTER:	Steven M. Rabin
<p>Total Attachments: 10</p> <p>source=KOR161NP_Assignment#page1.tif source=KOR161NP_Assignment#page2.tif source=KOR161NP_Assignment#page3.tif source=KOR161NP_Assignment#page4.tif source=KOR161NP_Assignment#page5.tif source=KOR161NP_Assignment#page6.tif source=KOR161NP_Assignment#page7.tif source=KOR161NP_Assignment#page8.tif source=KOR161NP_Assignment#page9.tif source=KOR161NP_Assignment#page10.tif</p>	

Attorney reference _____

Client Reference: IP20070472A

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS PAK, Hunkyun; JUN, Yong-Seok; YUN, Ho-Gyeong; PARK, Jong-Hyeok; LEE, Seung-Yup; KANG, Man-Gu; KIM, Jong-Dae and OH, Soo-Young, hereinafter referred to collectively as the assignor, has invented a certain improvement relating to **SYSTEM FOR CLEANING SURFACE OF SOLAR CELL PANEL**

[x] the inventor's declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;

[] said application having been filed in the United States Patent and Trademark Office on _____, authorization being hereby given to my attorneys, Steven M. Rabin, Robert H. Berdo, Jr., Allen Wood, Alun L. Palmer, and Phillip G. Avruch of RABIN & BERDO, P.C., 1101 14th Street, N.W., Washington, D.C. 20005, to insert here in parentheses (_____) the application serial number of said application when known;

[x] said application having been filed under the Patent Cooperation Treaty on May 9, 2008, Serial No. PCT/KR2008/002631 the United States of America being designated.

AND WHEREAS Electronics and Telecommunications Research Institute of 161, Gajeong-dong, Yuseong-gu, Daejeon 305-700, Republic of Korea, hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, this 15 day of March, 2010.

WITNESSES:

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature: 

Name: PAK, Hunkyun

WITNESSES:

Signature: _____

Name: _____

Address: _____

PATENT

REEL: 024162 FRAME: 0876

Attorney Reference _____

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

EXECUTED, this 15th day of Mar, 2010.

WITNESSES:

Signature: _____
Name: _____
Address: _____

ASSIGNOR:

Signature: [Signature]
Name: JUN, Yong-Seok

Signature: _____
Name: _____
Address: _____

EXECUTED, this _____ day of _____, 2010.

WITNESSES:

Signature: _____
Name: _____
Address: _____

ASSIGNOR:

Signature: _____
Name: YUN, Ho-Gyeong

Signature: _____
Name: _____
Address: _____

EXECUTED, this _____ day of _____, 2010.

WITNESSES:

Signature: _____
Name: _____
Address: _____

ASSIGNOR:

Signature: _____
Name: PARK, Jong-Hyeok

Signature: _____
Name: _____
Address: _____

Attorney reference _____

Client Reference: IP20070472 \

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS PAK, Hunkyun; JUN, Yong-Seok; YUN, Ho-Gyeong; PARK, Jong-Hyeok; LEE, Seung-Yup; KANG, Man-Gu; KIM, Jong-Dae and OH, Soo-Young, hereinafter referred to collectively as the assignor, has invented a certain improvement relating to **SYSTEM FOR CLEANING SURFACE OF SOLAR CELL PANEL**

[x] the inventor's declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;

[] said application having been filed in the United States Patent and Trademark Office on _____, authorization being hereby given to my attorneys, Steven M. Rabin, Robert H. Berdo, Jr., Allen Wood, Alun L. Palmer, and Phillip G. Avruch of RABIN & BERDO, P.C., 1101 14th Street, N.W., Washington, D.C. 20005, to insert here in parentheses (_____) the application serial number of said application when known;

[x] said application having been filed under the Patent Cooperation Treaty on May 9, 2008, Serial No. PCT/KR2008/002631 the United States of America being designated.

AND WHEREAS Electronics and Telecommunications Research Institute of 161, Gajeong-dong, Yuseong-gu, Daejeon 305-700, Republic of Korea, hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, this _____ day of _____, 2010.

WITNESSES:

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature: _____

Name: PAK, Hunkyun

WITNESSES:

Signature: _____

Name: _____

Address: _____

PATENT
REEL: 024162 FRAME: 0878

Attorney Reference _____

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

EXECUTED, this ____ day of _____, 2010.

WITNESSES:

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature: _____

Name: JUN, Yong-Seok

Signature: _____

Name: _____

Address: _____

EXECUTED, this 15 day of May, 2010.

WITNESSES:

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature: 

Name: YUN, Ho-Gyeong

Signature: _____

Name: _____

Address: _____

EXECUTED, this ____ day of _____, 2010.

WITNESSES:

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature: _____

Name: PARK, Jong-Hyeok

Signature: _____

Name: _____

Address: _____

Attorney Reference _____

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

EXECUTED, this _____ day of _____, 2010.

WITNESSES:

Signature: _____
Name: _____
Address: _____

ASSIGNOR:

Signature: _____
Name: LEE, Seung-Yup

Signature: _____
Name: _____
Address: _____

EXECUTED, this 15 day of Mar., 2010.

WITNESSES:

Signature: _____
Name: _____
Address: _____

ASSIGNOR:

Signature: 
Name: KANG, Man-Gu

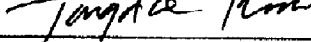
Signature: _____
Name: _____
Address: _____

EXECUTED, this 15 day of March, 2010.

WITNESSES:

Signature: _____
Name: _____
Address: _____

ASSIGNOR:

Signature: 
Name: KIM, Jong-Dae

Signature: _____
Name: _____
Address: _____

Attorney Reference _____

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

EXECUTED, this 15 day of March, 2010.

WITNESSES:

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature: *Sooyoung Oh*

Name: OH, Soo-Young

Signature: _____

Name: _____

Address: _____

Attorney reference _____

Client Reference: IP20070472A

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS PAK, Hunkyun; JUN, Yong-Seok; YUN, Ho-Gyeong; PARK, Jong-Hyeok; LEE, Seung-Yup; KANG, Man-Gu; KIM, Jong-Dae and OH, Soo-Young, hereinafter referred to collectively as the assignor, has invented a certain improvement relating to **SYSTEM FOR CLEANING SURFACE OF SOLAR CELL PANEL**

☒ the inventor's declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;

☐ said application having been filed in the United States Patent and Trademark Office on _____, authorization being hereby given to my attorneys, Steven M. Rabin, Robert H. Berdo, Jr., Allen Wood, Alun L. Palmer, and Phillip G. Avruch of RABIN & BERDO, P.C., 1101 14th Street, N.W., Washington, D.C. 20005, to insert here in parentheses (_____) the application serial number of said application when known;

☒ said application having been filed under the Patent Cooperation Treaty on May 9, 2008, Serial No. PCT/KR2008/002631 the United States of America being designated.

AND WHEREAS Electronics and Telecommunications Research Institute of 161, Gajeong-dong, Yuseong-gu, Daejeon 305-700, Republic of Korea, hereinafter referred to as the assignee, is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, this ____ day of _____, 2010.

WITNESSES:

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature: _____

Name: PAK, Hunkyun

WITNESSES:

Signature: _____

Name: _____

Address: _____

PATENT

REEL: 024162 FRAME: 0882

Attorney Reference _____

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

EXECUTED, this ____ day of _____, 2010.

WITNESSES:

Signature: _____

Name: _____

Address: _____

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature: _____

Name: JUN, Yong-Seok

EXECUTED, this ____ day of _____, 2010.

WITNESSES:

Signature: _____

Name: _____

Address: _____

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature: _____

Name: YUN, Ho-Gyeong

EXECUTED, this 15 day of March, 2010.

WITNESSES:

Signature: _____

Name: _____

Address: _____

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature: 

Name: PARK, Jong-Hyeok

Attorney reference _____

Client Reference: IP20070472A

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

WHEREAS PAK, Hunkyun; JUN, Yong-Seok; YUN, Ho-Gyeong; PARK, Jong-Hyeok; LEE, Seung-Yup; KANG, Man-Gu; KIM, Jong-Dae and OH, Soo-Young, hereinafter referred to collectively as the assignor, has invented a certain improvement relating to SYSTEM FOR CLEANING SURFACE OF SOLAR CELL PANEL

[x] the inventor's declaration for said application being executed concurrently with the execution of this instrument; said application to be filed in the United States Patent and Trademark Office;

[] said application having been filed in the United States Patent and Trademark Office on _____, authorization being hereby given to my attorneys, Steven M. Ratin, Robert H. Berdo, Jr., Allen Wood, Alun L. Palmer, and Phillip G. Avruch of RABIN & BERDO, P.C., 1101 14th Street, N.W., Washington, D.C. 20005, to insert here in parentheses (_____) the application serial number of said application when known;

[x] said application having been filed under the Patent Cooperation Treaty on May 9, 2008. Serial No. PCT/KR2008/002631 the United States of America being designated.

AND WHEREAS Electronics and Telecommunications Research Institute of 161, Gajeong-dong, Yuseong-gu, Daejeon 305-700, Republic of Korea, hereinafter referred to as the assignee is desirous of acquiring the entire right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof;

NOW THIS WITNESSETH, that for and in consideration of One Dollar (\$1.00), and other good and valuable consideration paid by said assignee to said assignor, the receipt of which is hereby acknowledged, said assignor hereby assigns, sells and transfers to said assignee, and said assignee's successors and assigns, the full and exclusive right, title and interest in and to said application, including any and all divisions and continuations thereof, and in and to said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof; said assignee, and said assignee's successors and assigns, to have, hold, exercise and enjoy the said application, including any and all divisions and continuations thereof, and the said invention and any and all patents which may be granted therefor, including any and all renewals, reissues and prolongations thereof, with all the rights, powers, privileges and advantages in anywise arising from or appertaining thereto, for and during the term or terms of any and all such patents when granted, including any and all renewals, reissues and prolongations thereof, for the use and benefit of said assignee, and said assignee's successors and assigns, in as ample and beneficial a manner as the said assignor might or could have held and enjoyed the same, if this assignment had not been made.

AND said assignor hereby agrees to perform, upon the request of said assignee, or said assignee's successors or assigns, any and all acts relating to the obtaining or to the asserting of said patents, including any and all renewals, reissues and prolongations thereof.

AND said assignor authorizes and requests the Commissioner of Patents and Trademarks to issue Letters Patent on said application, and on any and all divisions and continuations thereof, to said assignee, and said assignee's successors and assigns, in accordance herewith.

EXECUTED, this _____ day of _____, 2010.

WITNESSES:

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature: _____

Name: PAK, Hunkyun

WITNESSES:

Signature: _____

Name: _____

Address: _____

PATENT

REEL: 024162 FRAME: 0884

Attorney Reference _____

ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT

EXECUTED, this 16 day of March, 2010.

WITNESSES:

Signature: _____

Name: _____

Address: _____

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature: [Signature]

Name: LEE, Seung-Yup

EXECUTED, this ____ day of _____, 2010.

WITNESSES:

Signature: _____

Name: _____

Address: _____

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature: _____

Name: KANG, Man-Gu

EXECUTED, this ____ day of _____, 2010.

WITNESSES:

Signature: _____

Name: _____

Address: _____

Signature: _____

Name: _____

Address: _____

ASSIGNOR:

Signature: _____

Name: KIM, Jong-Dae