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

PATENT

REEL: 024162 FRAME: 0874

P \$40.00 1268087

FAICNI

ATTORNEY DOCKET NUMBER:	KOR-161NP
NAME OF SUBMITTER:	Steven M. Rabin
Total Attachments: 10 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#page8.tif source=KOR161NP_Assignment#page9.tif source=KOR161NP_Assignment#page9.tif	f

	Attorney reference
	Client Reference: IP20070472A
ASSIGNMENT OF APPLICATION I	FOR UNITED STATES LETTERS PATENT
WHEREAS PAK, Hunkyun; JUN, Yo	ong-Seok; YUN, Ho-Gyeong; PARK, Jong-Hyeok; LEE
<u>Seung-Yup; KANG, Man-Gu; KIM, Jong-Dae ;</u>	and OH. Soo-Young hereinafter referred to collectively
as the assignor, has invented a certain improvem SURFACE OF SOLAR CELL PANEL	ent relating to <u>SYSTEM FOR CLEANING</u>
instrument; said application to be filed in the Unite	being executed concurrently with the execution of this ed States Patent and Trademark Office;
[] said application having been filed in the United	States Patent and Trademark Office on
14 th Street, N.W., Washington, D.C. 20005, to insapplication serial number of said application wher	peing hereby given to my attorneys, Steven M. Rabin, r, and Phillip G. Avruch of RABIN & BERDO, P.C., 1101 ert here in parentheses () the n known;
[x] said application having been filed under the FNo. PCT/KR2008/002631 the United States of	Patent Cooperation Treaty on <u>May 9, 2008</u> , Serial of America being designated.
AND WHEREAS <u>Electronics</u> and Telec	ommunications Research Institute of 161, Gajeong-
desirous of acquiring the entire right, title and in divisions and continuations thereof, and in and t granted therefor, including any and all renewals, reconsideration paid by said assigned acknowledged, said assignor hereby assigns, se successors and assigns, the full and exclusive rigany and all divisions and continuations thereof, are may be granted therefor, including any and a assignee, and said assignee's successors and application, including any and all divisions and coall patents which may be granted therefor, including thereof, with all the rights, powers, privileges are thereto, for and during the term or terms of any a renewals, reissues and prolongations thereof, assignee's successors and assigns, in as ample could have held and enjoyed the same, if this assignment had not been made. AND said assignor hereby agrees to perform, successors or assigns, any and all acts relating including any and all renewals, reissues and prolongations thereof. AND said assignor authorizes and requests the Letters Patent on said application, and on any assignee, and said assignee's successors and assignee.	insideration of One Dollar (\$1.00), and other good and to said assignor, the receipt of which is hereby alls and transfers to said assignee, and said assignee's ght, title and interest in and to said application, including and in and to said invention and any and all patents which it renewals, reissues and prolongations thereof; said assigns, to have, hold, exercise and enjoy the said intinuations thereof, and the said invention and any and ding any and all renewals, reissues and prolongations and advantages in anywise arising from or appertaining and all such patents when granted, including any and all for the use and benefit of said assignee, and said and beneficial a manner as the said assignor might or upon the request of said assignee, or said assignee's get to the obtaining or to the asserting of said patents, are Commissioner of Patents and Trademarks to issue and all divisions and continuations thereof, to said signs, in accordance herewith.
EXECUTED, this 15 day of	<u>/ March</u> , 2010.
WITNESSES:	ASSIGNOR:
Signature:	Signature:
Name:	Name: PAK, Hunkyun

Address: ___

WITNESSES:

Address:

Signature: ______Name: _____

Attorney	Reference	
----------	-----------	--

	EXECUTED, this 15/14ay of	Ma	<u>ኒ</u> , 2010.
		·	
Address:			,
Name: Address:			
	EXECUTED, this day of		, 2010.
WITNESSES:		ASSIGNOR:	
Signature:		Signature:	
			N, Ho-Gyeong
Address:			
Name:			
	EXECUTED, this day of		, 2010.
WITNESSES:		ASSIGNOR:	
Signature:		Signature:	
Name:		Name: PAF	RK, Jong-Hyeok
Address:			
Signature:			
Name:			
Address:			

PATENT 2

REEL: 024162 FRAME: 0877

	Attorney reference
	Client Reference: IP20070472
ASSIGNMENT OF APPLICATION F	OR UNITED STATES LETTERS PATENT
WHEREAS PAK, Hunkyun; JUN, You Seung-Yup; KANG, Man-Gu; KIM, Jong-Dae a as the assignor, has invented a certain improvement SURFACE OF SOLAR CELL PANEL	ng-Seok; YUN, Ho-Gyeong; PARK, Jong-Hyeok; LEf- and OH, Soo-Young, hereinafter referred to collective of ent relating toSYSTEM FOR CLEANING
instrument; said application to be filed in the United authorization having been filed in the United authorization been filed. Alun L. Palmer, 14 th Street, N.W., Washington, D.C. 20005, to inseapplication serial number of said application when [x] said application having been filed under the Palon. PCT/KR2008/002631 the United States on PCT/KR2008/002631 the United States on AND WHEREAS Electronics and Telected dong, Yuseong-gu, Daejeon 305-700, Republications and continuations thereof, and in and to granted therefor, including any and all renewals, resuccessors and assigns, the full and exclusive rigany and all divisions and continuations thereby assigns, selected successors and assigns, the full and exclusive rigany and all divisions and continuations thereof, and may be granted therefor, including any and all assignee, and said assignee's successors and application, including any and all divisions and corall patents which may be granted therefor, including any and all patents which may be granted therefor, including the term or terms of any and renewals, reissues and prolongations thereof, assignee's successors and assigns, in as ample accould have held and enjoyed the same, if this assignment had not been made. AND said assignor hereby agrees to perform, successors or assigns, any and all acts relating including any and all renewals, reissues and prolongations thereof. AND said assignor authorizes and requests the Letters Patent on said application, and on any assignee, and said assignee's successors and assignee's su	States Patent and Trademark Office on eing hereby given to my attorneys, Steven M. Rabir and Phillip G. Avruch of RABIN & BERDO, P.C., 1101 art here in parentheses (
MARTHEODEO	
WITNESSES:	ASSIGNOR:
Name:	Name: PAK, Hunkyun

Address:

Signature:

Name:

Address:

WITNESSES:

Attorney	Reference	
----------	-----------	--

	EXECUTED, this day of	of	, 2010.
WITNESSES:		ASSIGNOR:	
Signature:		Signature:	
Signature:		_	
	EXECUTED, this 15 day o	fMav	, 2010.
WITNESSES:			
Signature:		Signature:	2 mg
			TON, 110-Oyeong
Signature:		_	
	EXECUTED, this day o	f	, 2010.
WITNESSES:		ASSIGNOR:	
		_	
Signature:		_	
Name:		_	
		_	

Attorney Reference	
--------------------	--

	
Name: Address: Signature: Name:	Name: <u>LEE, Seung-Yup</u>
Address:Signature:Name:	
Signature:	
Name:	
Address:	
	/5 day of, 2010.
WITNESSES:	ASSIGNOR:
Signature:	Signature:
Name:	Name: KANG, Man-Gu
Address:	
Signature:	
Name:	
Address:	
EXECUTED, this //	15 day of March , 2010.
WITNESSES:	ASSIGNOR:
Signature:	ASSIGNOR: Jangde Kim
Name:	Name: KIM, Jong-Dae
Address:	
Signature:	
Name:	
Address:	

	ASSIGNMENT OF APPLICATION FOR UNITED STATES LETTERS PATENT		
	EXECUTED, this _15_ day of	March	, 2010.
		ASSIGNOR: Signature: Name:	Scrayoung Oh OH, Soo-Young
Address:	177. 177. 177. 177. 177. 177. 177. 177.		
Signature:			
Name:			
Address:			

Attorney Reference

PATENT ⁴ REEL: 024162 FRAME: 0881

	Attorney reference			
	Client Reference: IP2007047.:A			
ASSIGNMENT OF APPLICATION F	OR UNITED STATES LETTERS PATENT			
Seung-Yup; KANG, Man-Gu; KIM, Jong-Dae a	ng-Seok; YUN, Ho-Gyeong; PARK, Jong-Hyeok; LEE, and OH, Soo-Young, hereinafter referred to collectively entirelating to SYSTEM FOR CLEANING			
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;] 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., 1131. 14th Street, N.W., Washington, D.C. 20005, to insert here in parentheses (
Letters Patent on said application, and on any assignee, and said assignee's successors and ass	e Commissioner of Patents and Trademarks to issue and all divisions and continuations thereof, to said signs, in accordance herewith.			
EXECUTED, this day of _	, 2010.			
WITNESSES:	ASSIGNOR:			
Signature:				
	Name: DAK Hunkyun			

Address:

Signature:

Address:

WITNESSES:

Name: ____

Attorne	Reference	
ALLOH 116	, ,,6,6,6,106	·

	EXECUTED, this day of		, 2010.
WITNESSES:		ASSIGNOR:	
Signature:		Signature:	
			JUN, Yong-Seok
Signature:			
Name:			
	EXECUTED, this day of		, 2010.
WITNESSES:		ASSIGNOR:	
Signature:		Signature:	
Name:		Name:	YUN, Ho-Gyeong
Address:			
Signature:			
	EXECUTED, this 15 day of	March	, 2010.
	Excession, and day or		, 2010.
WITNESSES:		ASSIGNOR:	C Jakt 30
Signature:		Signature:	
Name:		Name:	PARK, Jong-Hyeok
Address:			
Signature:			

PATENT ²

REEL: 024162 FRAME: 0883

	Attorney reference
	Client Reference: IP20070472A
ASSIGNMENT OF APPLICATION F	OR UNITED STATES LETTERS PATENT
WHEREAS PAK, Hunkyun; JUN, Yo Seung-Yup; KANG, Man-Gu; KIM, Jong-Dae a as the assignor, has invented a certain improvem SURFACE OF SOLAR CELL PANEL	ng-Seok; YUN, Ho-Gyeong; PARK, Jong-Hyeok; LEE, and OH, Soo-Young, hereinafter referred to collectively ent relating to SYSTEM FOR CLEANING
instrument; said application to be filed in the United [] said application having been filed in the United, authorization been filed in the United, authorization been filed in the United, authorization be Robert H. Berdo, Jr., Allen Wood, Alun L. Palmer 14 th Street, N.W., Washington, D.C. 20005, to instapplication serial number of said application when	States Patent and Trademark Office oneing hereby given to my attorneys, Steven M. Ratin, and Phillip G. Avruch of RABIN & BERDO, P.C., 1101 ert here in parentheses () the known; atent Cooperation Treaty on May 9, 2008 Serial
AND WHEREAS Electronics and Teleco	ommunications Research Institute of 161, Gajeong-
desirous of acquiring the entire right, title and in divisions and continuations thereof, and in and to granted therefor, including any and all renewals, reacknowledged, said assignor hereby assigns, se successors and assigns, the full and exclusive rigany and all divisions and continuations thereof, and assignee, and said assignee's successors and assignee's successors and application, including any and all divisions and coall patents which may be granted therefor, including any and coall patents which may be granted therefor, incluthereof, with all the rights, powers, privileges and thereto, for and during the term or terms of any a renewals, reissues and prolongations thereof, assignee's successors and assigns, in as ample could have held and enjoyed the same, if this assignment had not been made. AND said assignor hereby agrees to perform, successors or assigns, any and all acts relating including any and all renewals, reissues and prolongations thereof. AND said assignor authorizes and requests the Letters Patent on said application, and on any assignee, and said assignee's successors and a	nsideration of One Dollar (\$1.00), and other good and to said assignor, the receipt of which is hereby ils and transfers to said assignee, and said assignee's thit, title and interest in and to said application, including id in and to said invention and any and all patents which ill renewals, reissues and prolongations thereof; said assigns, to have, hold, exercise and enjoy the said intinuations thereof, and the said invention and any and ding any and all renewals, reissues and prolongations id advantages in anywise arising from or appertaining and all such patents when granted, including any and all for the use and benefit of said assignee, and said and beneficial a manner as the said assignor might or upon the request of said assignee, or said assignee's to the obtaining or to the asserting of said patents.
uuy or_	, 2010.
WITNESSES:	ASSIGNOR:
Signature:	
Name:	
Address:	

WITNESSES:

Signature: ______Name: _____

Address:

Attorney	Reference	
----------	-----------	--

	EXECUTED, this 16 day of	Marc	h , 2010.
WITNESSES:		ASSIGNOR:	0/1/04
Signature:		Signature:	4618
Name:		Name:	LEE, Seung-Yup
Address:			
Signature:			
Name:			
Address:			
	EXECUTED, this day of		, 2010.
WITNESSES:		ASSIGNOR:	
			10 (14 <u>0</u>), Wall 00
Signature:			
	EXECUTED, this day of		, 2010.
WITNESSES:		ASSIGNOR:	
			KIM, Jong-Dae
			The state of the s
Signature:			
Name:			

RECORDED: 03/30/2010