

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Isao Hasegawa</td> <td>09/13/2013</td> </tr> <tr> <td>Toshio Asaumi</td> <td>09/18/2013</td> </tr> <tr> <td>Hitoshi Sakata</td> <td>09/17/2013</td> </tr> </tbody> </table>		Name	Execution Date	Isao Hasegawa	09/13/2013	Toshio Asaumi	09/18/2013	Hitoshi Sakata	09/17/2013		
Name	Execution Date										
Isao Hasegawa	09/13/2013										
Toshio Asaumi	09/18/2013										
Hitoshi Sakata	09/17/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Sanyo Electric Co., Ltd.</td> </tr> <tr> <td>Street Address:</td> <td>5-5, Keihan-Hondori 2-Chome, Moriguchi City</td> </tr> <tr> <td>City:</td> <td>Osaka</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>570-8677</td> </tr> </table>		Name:	Sanyo Electric Co., Ltd.	Street Address:	5-5, Keihan-Hondori 2-Chome, Moriguchi City	City:	Osaka	State/Country:	JAPAN	Postal Code:	570-8677
Name:	Sanyo Electric Co., Ltd.										
Street Address:	5-5, Keihan-Hondori 2-Chome, Moriguchi City										
City:	Osaka										
State/Country:	JAPAN										
Postal Code:	570-8677										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14033683</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14033683						
Property Type	Number										
Application Number:	14033683										
CORRESPONDENCE DATA											
<p>Fax Number:</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 810-385-6050</p> <p>Email: julie.maryon@profilepatents.com</p> <p>Correspondent Name: Thomas F. Quinn, Jr.</p> <p>Address Line 1: 3061 Commerce Drive</p> <p>Address Line 2: Suite 1</p> <p>Address Line 4: Fort Gratiot, MICHIGAN 48059</p>											
ATTORNEY DOCKET NUMBER:	P201100781US01										
NAME OF SUBMITTER:	Thomas F. Quinn, Jr.										
Signature:	/Thomas F. Quinn, Jr. Reg. No. 35988/										

Date:	09/23/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 6 source=US-DeclarationAndAssignment-Executed_P201100781US01#page1.tif source=US-DeclarationAndAssignment-Executed_P201100781US01#page2.tif source=US-DeclarationAndAssignment-Executed_P201100781US01#page3.tif source=US-DeclarationAndAssignment-Executed_P201100781US01#page4.tif source=US-DeclarationAndAssignment-Executed_P201100781US01#page5.tif source=US-DeclarationAndAssignment-Executed_P201100781US01#page6.tif	

DECLARATION AND ASSIGNMENT

As a below named inventor, I hereby declare that: I believe I am the original inventor or an original joint inventor of a claimed invention in the application, which is entitled:

SOLAR CELL

the specification of which is attached hereto along with any applicable amendments. I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. The above-identified application was made or authorized to be made by me. I acknowledge the duty to disclose information which is material to patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent or inventor's certificate(s) listed below, or 365(a) of any PCT international application, listed below and have also identified below any foreign application for patent, inventor's certificate(s) or any PCT international application having a filing date before that of the application on which priority is claimed: PRIOR FOREIGN APPLICATION(S)

Application Number	Application Date	Application Country
2011-067441	3/25/2011	JP
PCT/JP2012/056099	3/9/2012	WO

WHEREAS, I, the undersigned, residing at the indicated address given next to my name below, have made an invention entitled - SOLAR CELL -, which is described in the above-identified PRIOR FOREIGN APPLICATION(S) listed by priority Patent Application number(s), date(s) and priority country.

WHEREAS, Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531 desires to acquire the entire right, title and interest in and to said invention and in, to and under any Patent Applications which may be filed and any Letters Patent granted covering the invention in the United States and in any and all other countries.

NOW, THEREFORE, in view of my employment with Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531 and other valuable consideration which is hereby acknowledged, I, the undersigned, hereby sell, assign, and transfer to Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531 its successors and assigns, the entire right, title and interest to the invention in the United States and in all other countries and the entire right, title, and interest in and to any and all patent applications covering the above invention, including the above identified application(s) and any and all

corresponding and related applications in the United States and all other countries, and the entire right, title, and interest in and to any and all Letters Patent which may be granted covering the invention in the United States and in any and all other countries and in and to any and all divisions, reissues, continuations, and extensions thereof, to the extent that I am an inventor of such invention and I covenant that I have the full right to do so.

I hereby authorize and request the Patent Office Officials in the United States and in any and all other countries to issue any and all of said Letters Patent, when granted, to Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531, as the assignee of the entire right, title and interest in and to the same, for the sole use of Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531, its successors and assigns. I further agree that I will communicate to Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531 or its representatives or agents all facts and information known or available to me regarding said invention whenever requested; I will testify in any interference or other legal proceeding; I will execute and deliver, on request, all lawful papers including original, divisional, continuing and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, depositions, etc. and generally do everything possible to aid said Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531, its successors and assigns, at its expense, in obtaining and enforcing proper protection for said invention in the United States and all other countries.

This Assignment shall be effective the earlier of: the date of my signature as indicated next to my name below, or the date of the last priority filing listed above.

IN TESTIMONY WHEREOF, I hereby execute this assignment:

Inventor Name: Isao Hasegawa

Signature: Isao Hasegawa

Date: Sep. 13. 2013

Mailing Address: Akashi-shi, Hyogo, Japan
c/o Intellectual Property H.Q., SANYO Electric Co., Ltd.
5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677,
Japan

Citizen of: Japan

DECLARATION AND ASSIGNMENT

As a below named inventor, I hereby declare that: I believe I am the original inventor or an original joint inventor of a claimed invention in the application, which is entitled:

SOLAR CELL

the specification of which is attached hereto along with any applicable amendments. I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. The above-identified application was made or authorized to be made by me. I acknowledge the duty to disclose information which is material to patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent or inventor's certificate(s) listed below, or 365(a) of any PCT international application, listed below and have also identified below any foreign application for patent, inventor's certificate(s) or any PCT international application having a filing date before that of the application on which priority is claimed: PRIOR FOREIGN APPLICATION(S)

Application Number	Application Date	Application Country
2011-067441	3/25/2011	JP
PCT/JP2012/056099	3/9/2012	WO

WHEREAS, I, the undersigned, residing at the indicated address given next to my name below, have made an invention entitled - SOLAR CELL -, which is described in the above-identified PRIOR FOREIGN APPLICATION(S) listed by priority Patent Application number(s), date(s) and priority country.

WHEREAS, Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531 desires to acquire the entire right, title and interest in and to said invention and in, to and under any Patent Applications which may be filed and any Letters Patent granted covering the invention in the United States and in any and all other countries.

NOW, THEREFORE, in view of my employment with Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531 and other valuable consideration which is hereby acknowledged, I, the undersigned, hereby sell, assign, and transfer to Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531 its successors and assigns, the entire right, title and interest to the invention in the United States and in all other countries and the entire right, title, and interest in and to any and all patent applications covering the above invention, including the above identified application(s) and any and all corresponding and related applications in the United States and all other countries, and the

entire right, title, and interest in and to any and all Letters Patent which may be granted covering the invention in the United States and in any and all other countries and in and to any and all divisions, reissues, continuations, and extensions thereof, to the extent that I am an inventor of such invention and I covenant that I have the full right to do so.

I hereby authorize and request the Patent Office Officials in the United States and in any and all other countries to issue any and all of said Letters Patent, when granted, to Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531, as the assignee of the entire right, title and interest in and to the same, for the sole use of Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531, its successors and assigns. I further agree that I will communicate to Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531 or its representatives or agents all facts and information known or available to me regarding said invention whenever requested; I will testify in any interference or other legal proceeding; I will execute and deliver, on request, all lawful papers including original, divisional, continuing and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, depositions, etc. and generally do everything possible to aid said Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531, its successors and assigns, at its expense, in obtaining and enforcing proper protection for said invention in the United States and all other countries.

This Assignment shall be effective the earlier of: the date of my signature as indicated next to my name below, or the date of the last priority filing listed above.

IN TESTIMONY WHEREOF, I hereby execute this assignment:

Inventor Name: Toshio Asaumi

Signature: Toshio Asaumi

Date: Sep. 18, 2013

Mailing Address: Kishiwada-shi, Osaka, Japan
c/o Intellectual Property H.Q., SANYO Electric Co., Ltd.
5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677,
Japan

Citizen of: Japan

DECLARATION AND ASSIGNMENT

As a below named inventor, I hereby declare that: I believe I am the original inventor or an original joint inventor of a claimed invention in the application, which is entitled:

SOLAR CELL

the specification of which is attached hereto along with any applicable amendments. I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. The above-identified application was made or authorized to be made by me. I acknowledge the duty to disclose information which is material to patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent or inventor's certificate(s) listed below, or 365(a) of any PCT international application, listed below and have also identified below any foreign application for patent, inventor's certificate(s) or any PCT international application having a filing date before that of the application on which priority is claimed: PRIOR FOREIGN APPLICATION(S)

Application Number	Application Date	Application Country
2011-067441	3/25/2011	JP
PCT/JP2012/056099	3/9/2012	WO

WHEREAS, I, the undersigned, residing at the indicated address given next to my name below, have made an invention entitled - SOLAR CELL -, which is described in the above-identified PRIOR FOREIGN APPLICATION(S) listed by priority Patent Application number(s), date(s) and priority country.

WHEREAS, Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531 desires to acquire the entire right, title and interest in and to said invention and in, to and under any Patent Applications which may be filed and any Letters Patent granted covering the invention in the United States and in any and all other countries.

NOW, THEREFORE, in view of my employment with Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531 and other valuable consideration which is hereby acknowledged, I, the undersigned, hereby sell, assign, and transfer to Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531 its successors and assigns, the entire right, title and interest to the invention in the United States and in all other countries and the entire right, title, and interest in and to any and all patent applications covering the above invention, including the above identified application(s) and any and all corresponding and related applications in the United States and all other countries, and the

entire right, title, and interest in and to any and all Letters Patent which may be granted covering the invention in the United States and in any and all other countries and in and to any and all divisions, reissues, continuations, and extensions thereof, to the extent that I am an inventor of such invention and I covenant that I have the full right to do so.

I hereby authorize and request the Patent Office Officials in the United States and in any and all other countries to issue any and all of said Letters Patent, when granted, to Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531, as the assignee of the entire right, title and interest in and to the same, for the sole use of Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531, its successors and assigns. I further agree that I will communicate to Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531 or its representatives or agents all facts and information known or available to me regarding said invention whenever requested; I will testify in any interference or other legal proceeding; I will execute and deliver, on request, all lawful papers including original, divisional, continuing and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, depositions, etc. and generally do everything possible to aid said Sanyo Electric Co., Ltd. 5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677, Japan Phone: +81-6-6994-3531, its successors and assigns, at its expense, in obtaining and enforcing proper protection for said invention in the United States and all other countries.

This Assignment shall be effective the earlier of: the date of my signature as indicated next to my name below, or the date of the last priority filing listed above.

IN TESTIMONY WHEREOF, I hereby execute this assignment:

Inventor Name: Hitoshi Sakata

Signature: Hitoshi Sakata

Date: Sep 17 2013

Mailing Address: Higashi-Osaka-shi, Osaka, Japan
c/o Intellectual Property H.Q., SANYO Electric Co., Ltd.
5-5, Keihan-Hondori 2-Chome, Moriguchi City, Osaka 570-8677,
Japan

Citizen of: Japan