#### 503639793 01/07/2016

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3686426

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
MEHRDAD M. MOSLEHI	01/06/2016
VIRENDRA V. RANA	12/21/2015
PAWAN KAPUR	12/21/2015

## **RECEIVING PARTY DATA**

Name:	SOLEXEL, INC.
Street Address:	1530 MCCARTHY BLVD.
City:	MILPITAS
State/Country:	CALIFORNIA
Postal Code:	95035-7405

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	13483024

## CORRESPONDENCE DATA

Fax Number: (408)240-3897

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 4082403889

Email: SWAPNALI.JOSHI@SOLEXEL.COM

**Correspondent Name:** SOLEXEL. INC.

Address Line 1: 1530 MCCARTHY BOULEVARD Address Line 4: MILPITAS, CALIFORNIA 95035-7405

ATTORNEY DOCKET NUMBER:	063US0	
NAME OF SUBMITTER:	JOHN WOOD	
SIGNATURE:	/John Ryan C. Wood/	
DATE SIGNED:	01/07/2016	

# **Total Attachments: 6**

source=063US0\_Executed\_Comb-Decl\_Assignment\_allInvts#page1.tif source=063US0\_Executed\_Comb-Decl\_Assignment\_allInvts#page2.tif source=063US0 Executed Comb-Decl Assignment allInvts#page3.tif source=063US0 Executed Comb-Decl Assignment allInvts#page4.tif

**PATENT REEL: 037434 FRAME: 0705** 503639793

 $source = 063 US0\_Executed\_Comb-Decl\_Assignment\_allInvts\#page5.tif\\ source = 063 US0\_Executed\_Comb-Decl\_Assignment\_allInvts\#page6.tif\\$ 

PATENT REEL: 037434 FRAME: 0706

#### ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to SOLEXEL, INC., a Delaware Corporation, having a place of business at 1530 McCarthy Blvd., Milpitas, CA 95035 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

- 1. The entire worldwide right, title, and interest in and to all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following non-provisional application(s) filed under 35 U.S.C. § 111(a) or provisional application(s) filed under 35 U.S.C. § 111(b) or international application(s) filed according to the Patent Cooperation Treaty (PCT) including National Stage applications (collectively "APPLICATIONS"):
  - U.S. Provisional Application No. 61/490,859 titled "HIGH EFFICIENCY BACK-CONTACT, BACK-JUNCTION, SOLAR CELLS FABRICATED BY ION IMPLANTATION AND LASER ANNEALING" filed May 27, 2011:
  - PCT International Application No. PCT/US12/39901 titled "ION IMPLANTATION AND ANNEALING FOR HIGH EFFICIENCY BACK-CONTACT BACK-JUNCTION SOLAR CELLS" filed May 29, 2012; and
  - U.S. Application No. 13/483,024 titled "ION IMPLANTATION AND ANNEALING FOR HIGH EFFICIENCY BACK-CONTACT BACK-JUNCTION SOLAR CELLS" filed on May 29, 2012.
  - 2. The entire worldwide right, title, and interest in and to:
- (a) the APPLICATIONS; (b) all applications claiming priority from the APPLICATIONS; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto that have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) that may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATIONS and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein

App. No.: 61/490,859 Filing Date: May 27, 2011 App. No.: PCT/US12/39901 Filing Date: May 29, 2012 App. No.: 13/483,024 Filing Date: May 29, 2012

conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other authority for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

By signing below, INVENTOR further attests to the following:

- The APPLICATIONS was made or authorized to be made by INVENTOR.
- INVENTOR believes that INVENTOR is the original inventor or an original joint inventor of a claimed invention in the APPLICATIONS.

INVENTOR hereby acknowledges that any willful false statement made in this document is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

INVENTOR

Mehrdad M. Moslehi

Date of Signature

2 of 2

## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to SOLEXEL, INC., a Delaware Corporation, having a place of business at 1530 McCarthy Blvd., Milpitas, CA 95035 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

- 1. The entire worldwide right, title, and interest in and to all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following non-provisional application(s) filed under 35 U.S.C. § 111(a) or provisional application(s) filed under 35 U.S.C. § 111(b) or international application(s) filed according to the Patent Cooperation Treaty (PCT) including National Stage applications (collectively "APPLICATIONS"):
  - U.S. Provisional Application No. 61/490,859 titled "HIGH EFFICIENCY BACK-CONTACT, BACK-JUNCTION, SOLAR CELLS FABRICATED BY ION IMPLANTATION AND LASER ANNEALING" filed May 27, 2011;
  - PCT International Application No. PCT/US12/39901 titled "ION IMPLANTATION AND ANNEALING FOR HIGH EFFICIENCY BACK-CONTACT BACK-JUNCTION SOLAR CELLS" filed May 29, 2012; and
  - U.S. Application No. 13/483,024 titled "ION IMPLANTATION AND ANNEALING FOR HIGH EFFICIENCY BACK-CONTACT BACK-JUNCTION SOLAR CELLS" filed on May 29, 2012.
  - 2. The entire worldwide right, title, and interest in and to:
- (a) the APPLICATIONS; (b) all applications claiming priority from the APPLICATIONS; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto that have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) that may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATIONS and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein

App. No.: 61/490,859 Filing Date: May 27, 2011 App. No.: PCT/US12/39901 Filing Date: May 29, 2012 App. No.: 13/483,024 Filing Date: May 29, 2012

INVENTOR

conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other authority for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

By signing below, INVENTOR further attests to the following:

- The APPLICATIONS was made or authorized to be made by INVENTOR.
- INVENTOR believes that INVENTOR is the original inventor or an original joint inventor of a claimed invention in the APPLICATIONS.

INVENTOR hereby acknowledges that any willful false statement made in this document is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

Virendra V. Rana	Date of Signature
Vera-	12/21/15

## **ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to SOLEXEL, INC., a Delaware Corporation, having a place of business at 1530 McCarthy Blvd., Milpitas, CA 95035 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

- 1. The entire worldwide right, title, and interest in and to all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following non-provisional application(s) filed under 35 U.S.C. § 111(a) or provisional application(s) filed under 35 U.S.C. § 111(b) or international application(s) filed according to the Patent Cooperation Treaty (PCT) including National Stage applications (collectively "APPLICATIONS"):
  - U.S. Provisional Application No. 61/490,859 titled "HIGH EFFICIENCY BACK-CONTACT, BACK-JUNCTION, SOLAR CELLS FABRICATED BY ION IMPLANTATION AND LASER ANNEALING" filed May 27, 2011;
  - PCT International Application No. PCT/US12/39901 titled "ION IMPLANTATION AND ANNEALING FOR HIGH EFFICIENCY BACK-CONTACT BACK-JUNCTION SOLAR CELLS" filed May 29, 2012; and
  - U.S. Application No. 13/483,024 titled "ION IMPLANTATION AND ANNEALING FOR HIGH EFFICIENCY BACK-CONTACT BACK-JUNCTION SOLAR CELLS" filed on May 29, 2012.
  - 2. The entire worldwide right, title, and interest in and to:
- (a) the APPLICATIONS; (b) all applications claiming priority from the APPLICATIONS; (c) all provisional, utility, divisional, continuation, substitute, renewal, reissue, and other applications related thereto that have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) that may be granted on the applications set forth in (a), (b), and (c) above; and (e) all right of priority in the APPLICATIONS and in any underlying provisional or foreign application, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein

App. No.: 61/490,859 Filing Date: May 27, 2011 App. No.: PCT/US12/39901 Filing Date: May 29, 2012 App. No.: 13/483,024 Filing Date: May 29, 2012

conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office or other authority for recordation of this document.

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

By signing below, INVENTOR further attests to the following:

- The APPLICATIONS was made or authorized to be made by INVENTOR.
- INVENTOR believes that INVENTOR is the original inventor or an original joint inventor of a claimed invention in the APPLICATIONS.

INVENTOR hereby acknowledges that any willful false statement made in this document is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

**INVENTOR** 

RECORDED: 01/07/2016

wan Kapur Date of Signature

2 of 2