

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5902272

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ASSIGNEE TO ADD SANKEN ELECTRIC CO., LTD. AS A SECOND ASSIGNEE previously recorded on Reel 051385 Frame 0971. Assignor(s) hereby confirms the ASSIGNEE SANKEN ELECTRIC CO., LTD. SHOULD BE ADDED AS A SECOND ASSIGNEE.

CONVEYING PARTY DATA

Name	Execution Date
DOSI DOSEV	03/04/2016
DON RANKILA	03/04/2016
TATSUYA KAMIMURA	03/01/2016
SHUNSUKE FUKUNAGA	02/24/2016
STEVEN KOSIER	03/04/2016
PETER WEST	03/04/2016

RECEIVING PARTY DATA

Name:	POLAR SEMICONDUCTOR, LLC
Street Address:	2800 E. OLD SHAKOPEE RD
City:	BLOOMINGTON
State/Country:	MINNESOTA
Postal Code:	55425
Name:	SANKEN ELECTRIC CO., LTD.
Street Address:	6-3, KITANO 3-CHROME
Internal Address:	NIIZA-SHI
City:	SAITAMA
State/Country:	JAPAN

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16724862

CORRESPONDENCE DATA

Fax Number: (781)401-9966

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: 7814019988

Email: jlm@dc-m.com

Correspondent Name: DALY, CROWLEY, MOFFORD & DURKEE, LLP

PATENT

Address Line 1: ONE UNIVERSITY AVENUE
Address Line 2: SUITE 201B
Address Line 4: WESTWOOD, MASSACHUSETTS 02090

ATTORNEY DOCKET NUMBER:	POLAR-038CUS
NAME OF SUBMITTER:	ANTHONY T. MOOSEY
SIGNATURE:	/Anthony T. Moosey/
DATE SIGNED:	01/09/2020

Total Attachments: 9

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT5888023

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
DOSI DOSEV	03/04/2016
DON RANKILA	03/04/2016
TATSUYA KAMIMURA	03/01/2016
SHUNSUKE FUKUNAGA	02/24/2016
STEVEN KOSIER	03/04/2016
PETER WEST	03/04/2016
RECEIVING PARTY DATA	
Name:	POLAR SEMICONDUCTOR, LLC
Street Address:	2800 E. OLD SHAKOPEE RD
City:	BLOOMINGTON
State/Country:	MINNESOTA
Postal Code:	55425
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	62119555
CORRESPONDENCE DATA	
Fax Number:	(781)401-9966
<i>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.</i>	
Phone:	7819895164
Email:	mkt@dc-m.com
Correspondent Name:	DALY, CROWLEY, MOFFORD & DURKEE, LLP
Address Line 1:	ONE UNIVERSITY AVENUE
Address Line 2:	SUITE 201B
Address Line 4:	WESTWOOD, MASSACHUSETTS 02090
ATTORNEY DOCKET NUMBER:	POLAR-038CUS
NAME OF SUBMITTER:	ANTHONY T. MOOSEY
SIGNATURE:	/Anthony T. Moosey/
DATE SIGNED:	12/30/2019

ASSIGNMENT
(PROVISIONAL AND NONPROVISIONAL APPLICATIONS)

Attorney Docket No.

P440.12-0066

First Named Inventor : Dosi Dosev

Title : TRENCH SEMICONDUCTOR DEVICE LAYOUT CONFIGURATION

WHEREAS, I, Dosi Dosev, of Woodbury, MN, U.S.A.; Don Rankila, of Farmington, MN, U.S.A.; Tatsuya Kamimura, of St. Louis Park, MN, U.S.A.; Shunsuke Fukunaga, of Saitama, Japan; Steven Kosier, of Lakeville, MN, U.S.A.; and Peter West, of Minneapolis, MN, U.S.A. have invented certain new and useful improvements as described in an application entitled TRENCH SEMICONDUCTOR DEVICE LAYOUT CONFIGURATION for Letters Patent of the United States, the application being identifiable by its title and named inventors above, and/or being identifiable in the United States Patent and Trademark Office by Application No. 15/051,642, filed February 23, 2016; and which claims priority from a provisional application entitled TRENCH SEMICONDUCTOR DEVICE LAYOUT CONFIGURATION identifiable in the United States Patent and Trademark Office by Application No. 62/119,555, filed February 23, 2015; and

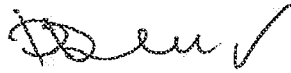
WHEREAS, Polar Semiconductor, LLC, a corporation organized and existing under the laws of the State of Delaware, and having offices at 2800 E Old Shakopee Rd, Bloomington, MN 55425, U.S.A., ("Assignee") and SANKEN ELECTRIC CO., LTD., a corporation organized and existing under the laws of Japan, and having offices at 6-3, Kitano 3-Chrome, Niiza-shi, Saitama, Japan, ("Assignee") is desirous of acquiring the entire right, title and interest in and to the invention, the application, and any and all Letters Patent or similar legal protection, foreign or domestic, to be obtained therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, I transfer to Assignee, its successors and assigns, my entire right, title and interest in and to the invention, the above-identified application, corresponding domestic and foreign applications, all Letters Patent or similar legal protection issuing thereon, and all rights and benefits under any applicable treaty or convention; and I authorize the Commissioner of Patents and Trademarks of the United States or foreign equivalent thereof to issue the Letters Patent or similar legal protection to the Assignee.

I authorize the Assignee, its successors and assigns, to insert in this instrument the filing date and application number of the application when ascertained.

I authorize the Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent or similar legal protection, in its own name if desired, in any and all foreign countries.

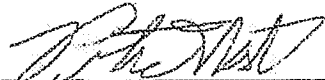
I represent to the Assignee, its successors and assigns, that I have not and shall not execute any writing or do any act whatsoever conflicting with this Assignment. I, my executors or administrators, will at any time upon request, without additional consideration, but at the expense of the Assignee, its successors and assigns, execute such additional writings and do such additional acts as the Assignee, its successors and assigns, may deem desirable to perfect its enjoyment of this grant, and render all assistance in making application for and obtaining, maintaining, and enforcing the Letters Patent or similar legal protection on the invention in any and all countries.



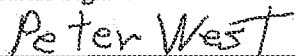
Dosi Dosev



Date



Witness Signature



Witness Printed Name

ASSIGNMENT
(PROVISIONAL AND NONPROVISIONAL APPLICATIONS)

Attorney Docket No.
P440.12-0066

Don Rankila
Don Rankila

3/9/2016
Date

[Signature]
Witness Signature

Peter West
Witness Printed Name

ASSIGNMENT
(PROVISIONAL AND NONPROVISIONAL APPLICATIONS)

Attorney Docket No.
P440.12-0066

Tatsuya Kamimura
Tatsuya Kamimura

3/1/2016
Date

M. Koyama
Witness Signature

Michiko Koyama
Witness Printed Name

ASSIGNMENT
(PROVISIONAL AND NONPROVISIONAL APPLICATIONS)

Attorney Docket No.
P440.12-0066

Shunsuke Fukunaga
Shunsuke Fukunaga

02/24/2016
Date

Keiji Hanuki
Witness Signature

Keiji Hanuki
Witness Printed Name

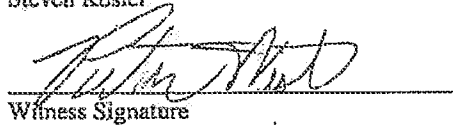
ASSIGNMENT
(PROVISIONAL AND NONPROVISIONAL APPLICATIONS)

Attorney Docket No.
P440.12-0066



Steven Kosier

3/4/16
Date




Witness Signature



Witness Printed Name

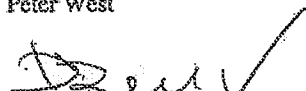
ASSIGNMENT
(PROVISIONAL AND NONPROVISIONAL APPLICATIONS)

Attorney Docket No.
P440.12-0086



Peter West

3/4/16
Date



Witness Signature

Dosi Dosev

Witness Printed Name