

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT3757510

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	ON SEMICONDUCTOR TRADING SARL	01/23/2014
RECEIVING PARTY DATA		
Name:	SEMICONDUCTOR COMPONENTS INDUSTRIES, LLC	
Street Address:	5005 E. MCDOWELL ROAD	
Internal Address:	MAILDROP A700	
City:	PHOENIX	
State/Country:	ARIZONA	
Postal Code:	85008	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	15054233
CORRESPONDENCE DATA		
Fax Number:	(602)244-3169	
<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:	6022443574	
Email:	patents@onsemi.com	
Correspondent Name:	SEMICONDUCTOR COMPONENTS INDUSTRIES, LLC	
Address Line 1:	5005 E. MCDOWELL ROAD	
Address Line 2:	MAILDROP A700	
Address Line 4:	PHOENIX, ARIZONA 85008	
ATTORNEY DOCKET NUMBER:	201001950C01	
NAME OF SUBMITTER:	SHARRON CASTILLO	
SIGNATURE:	/Sharron Castillo/	
DATE SIGNED:	02/26/2016	
Total Attachments: 7		
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ASSIGNMENT

WHEREAS, ON Semiconductor Trading Sàrl, a Switzerland company with its office address at Avenue de la Gare 2, Fribourg 1700, Switzerland (the "Assignor"), owns certain issued worldwide patents and patent applications as specifically set forth in the attached Schedule A;

WHEREAS, Assignor desires to assign any and all right, title and interest to said worldwide patents and patent applications set forth in Schedule A, which includes any and all past, present, and future, provisional, non-provisional, continuation, continuation-in-part, divisional, international, foreign, regional and convention applications corresponding thereto, and any and all Letters Patent of the U.S. and countries and regions foreign thereto which may grant or have granted thereto or be lodged in relation thereto, any reissue or reexamination thereof or to be obtained therefor, any renewals, or substitutes thereof, and any and all priority rights or priority claims, International Convention rights, any and all rights to collect past damages for infringement of any and all Letters Patent of the U.S. and countries and regions foreign thereto which may be published, which may grant, or have granted thereto or be lodged in relation thereto, and other benefits accruing to or to accrue to Assignor with respect to the filing of applications for patents or securing of patents in the U.S. and countries foreign thereto (the "Patent Rights");

WHEREAS, Semiconductor Components Industries, LLC, a limited liability company of the State of Delaware, U.S.A. with its principal place of business at 5005 East McDowell Road, Phoenix, Arizona 85008 U.S.A. (the "Assignee") desires to obtain any and all, right, title, and interest of Assignor in and to the invention(s), the Patent Rights, and in, to, and under any and all Letters Patent to be obtained therefor;

WHEREAS, ON Semiconductor Trading Sàrl is a wholly-owned subsidiary of Semiconductor Components Industries, LLC;

NOW THEREFORE, for the sum of \$10.00 and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor has assigned and transferred and by these presents does hereby assign and transfer to the said Assignee, and said Assignee's legal representatives, successors and assigns, any and all of the entire right, title and interest in and to the invention(s), Patent Rights, and any and all Letters Patent to be obtained therefor;

UPON SAID CONSIDERATION, the Assignor hereby covenants and agrees with the said Assignee that it will not execute any writing or do any act whatsoever conflicting with these presents, and that it will, at any time upon request, without further or additional consideration, execute such additional assignments and other writings and do such additional acts as said Assignee may deem reasonably necessary or desirable to perfect the Assignee's enjoyment of this grant, and render necessary assistance in making application for and obtaining original, provisionals, non-provisionals, continuations, continuations-in-part, continuing prosecutions, divisionals, renewals, reissues, reexamined or extended Letters Patent of the U.S., or of any and all foreign countries, on said Patent Rights, and execute confirmatory assignments or acknowledgments of this assignment as necessary for full enjoyment of the Patent Rights and for recording in foreign patent offices, and in enforcing any rights or causes in action accruing as a result of such Patent Rights, by giving testimony in any proceedings or transactions involving such Patent Rights, and by executing preliminary statements and other affidavits, it being understood that the foregoing covenant and agreement shall bind, and inure to the benefit of, the assigns and legal representatives of both parties;

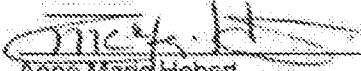
UPON SAID CONSIDERATION, Assignor represents and warrants that Assignor has the right, title, and authority to execute this Assignment and to convey any and all right, title, and interest in the

Patent Rights, and that Assignor has not conveyed nor will convey hereafter all or part of the Patent Rights to a third party:

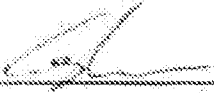
ASSIGNOR HEREBY AUTHORIZES said Assignee, its successors, and assigns, or anyone it may properly designate, to apply for Letters Patent in the U.S. and any and all foreign countries and regions, in its own name if desired, and additionally to claim priority to the filing date of the patents and/or patent applications and otherwise take advantage of the provisions of any international conventions.

IN WITNESS WHEREOF, the Assignor hereunto has executed this Assignment upon the date indicated below:

Date: January 23, 2004

By: 
Anne Marie Hebert
Director
ON Semiconductor Trading Sàrl

In the presence of:



Name: GREG FRAZEE

Title: MANAGER, ACCOUNTING ON SEMICONDUCTOR TRADING Sàrl

(Witness)

ACCEPTANCE OF ASSIGNMENT

The Assignee hereby acknowledges and accepts the foregoing assignment of rights by Assignor.

IN TESTIMONY WHEREOF, the Assignee, by its undersigned officer, confirms its acceptance on the date and in the place set forth below.

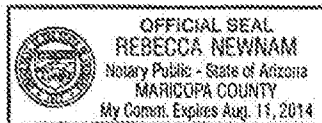
Date: January 23, 2014 By: George H. Cave
George H. Cave
Secretary
Semiconductor Components Industries, LLC

STATE OF ARIZONA §
§
COUNTY OF MARICOPA §

On this 23rd day of January, 2014, before me a Notary Public in and for said county, personally appeared George H. Cave who executed the foregoing instrument and acknowledged that he signed, sealed and delivered the same instrument as a free and voluntary act for the purposes and considerations therein expressed.

Rebecca Newnam
Notary Public

My commission expires: August 11, 2014



SCHEDULE A

Docket Number	Country	Publication Number	Application Date	Application Number	Title
200804105	USA	20120018854	09/23/2011	13/259871	SEMICONDUCTOR DEVICE AND THE METHOD OF MANUFACTURING THE SAME
201000820	USA	20110279067	05/13/2011	13/107059	DRIVE CONTROL CIRCUIT FOR LINEAR VIBRATION MOTOR
201001249	USA	20120018850	07/21/2011	13/187883	LASER PROCESSING METHOD AND SEMICONDUCTOR DEVICE OBTAINED BY USING THE PROCESSING METHOD
201001291	USA	20110291603	05/25/2011	13/115586	DRIVE CONTROL CIRCUIT AND FOCUS CONTROL CIRCUIT
201001292	USA	20110298453	06/03/2011	13/153013	HALL ELEMENT CONTROL CIRCUIT
201001623	USA	20120001869	07/01/2011	13/175277	ELECTROSTATIC CAPACITY TYPE TOUCH SENSOR FOR DETECTING A LARGE NUMBER OF TOUCH POSITIONS WITH A SMALL NUMBER OF DETECTION ELECTRODES
201001850	USA	20120026391	07/29/2011	13/194395	FRAME INTERPOLATION APPARATUS
201002146	USA	20120062464	09/12/2011	13/230392	TOUCH SENSOR
201002150	USA	20120056660	08/26/2011	13/219205	SWITCH CIRCUIT
201002231	USA	20120049931	08/30/2011	13/221523	BIDIRECTIONAL SWITCH AND SWITCH CIRCUIT USING THE BIDIRECTIONAL SWITCH
201002143	USA	20120049932	08/26/2011	13/219013	SWITCHING DEVICE CONTROL CIRCUIT

Initialed: 
George H. Cave
Secretary

Semiconductor Components Industries, LLC
Date: January 23, 2014

Initialed: 
Anne Marie Hebert
Director

ON Semiconductor Trading Smt
Date: January 23, 2014

SCHEDULE A

Docket Number	Country	Publication Number	Application Date	Application Number	Title
200901753	USA	20110199145	02/16/2011	13/0208669	SWITCHING CONTROL CIRCUIT
200902273	USA	20110260669	04/21/2011	13/091229	MOTOR DRIVE CIRCUIT
200903145	USA	20110304285	06/10/2011	13/158009	MOTOR DRIVE CIRCUIT
201000211	USA	20110266965	04/28/2011	13/096652	CONTROL CIRCUIT OF LIGHT-EMITTING ELEMENT
201000317	USA	20120013397	06/30/2011	13/173774	SEMICONDUCTOR DEVICE
201000673	USA	20110307537	06/08/2011	13/155869	DIGITAL FILTER
201000793	USA	20110260651	04/22/2011	13/092746	CONTROL CIRCUIT OF LIGHT-EMITTING ELEMENT
201001202	USA	20110298395	06/03/2011	13/152326	CONTROL CIRCUIT OF LIGHT-EMITTING ELEMENT
201001381	USA	20120056596	09/06/2011	13/226050	REMAINING BATTERY POWER CALCULATION CIRCUIT
201001618	USA	20120076343	09/23/2011	13/241867	MOTOR DRIVE CIRCUIT
201001997	USA	20120068648	09/16/2011	13/234949	MOTOR DRIVE CIRCUIT
201002201	USA	20120074882	09/23/2011	13/241359	STARTUP CONTROL CIRCUIT OF DRIVE CIRCUIT
201002203	USA	20120049303	08/23/2011	13/215584	SEMICONDUCTOR DEVICE USED FOR ADJUSTMENT OF OUTPUT OF A HALL ELEMENT
201002316	USA	20120181966	01/12/2012	13/349313	MOTOR SPEED CONTROL CIRCUIT

Initialed: 
George H. Cave
Secretary

Semiconductor Components Industries, LLC
Date: January 23, 2011

Initialed: 
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Director

ON Semiconductor Trading Smt
Date: January 23, 2011

SCHEDULE A

Docket Number	Country	Publication Number	Application Date	Application Number	Title
201002435	USA	20120087053	10/07/2011	13/269352	CONSTANT VOLTAGE POWER SUPPLY CIRCUIT
201002673	USA	20120081049	09/28/2011	13/247050	DRIVE CONTROL SIGNAL GENERATING CIRCUIT
201002251	USA	20120063632	09/08/2011	13/228156	DRIVE CONTROL CIRCUIT FOR VIBRATION SPEAKER
200803938	USA	20110304046	08/25/2011	13/203439	SEMICONDUCTOR DEVICE WITH COPPER WIRE BALL-BONDED TO ELECTRODE PAD INCLUDING BUFFER LAYER
200804176	USA	20110309408	08/25/2011	13/203447	METHOD OF PRODUCING SEMICONDUCTOR DEVICE PACKAGING HAVING CHIPS ATTACHED TO ISLANDS SEPARATELY AND COVERED BY ENCAPSULATION MATERIAL
200903532	USA	20110205795	02/17/2011	13/029892	MEMORY DEVICE
200903677	USA	20110241627	04/01/2011	13/078384	BATTERY CHARGER FOR PORTABLE ELECTRONIC EQUIPMENT
201000204	USA	20110235224	03/04/2011	13/040891	SEMICONDUCTOR INTEGRATED CIRCUIT
201000523	USA	20110256565	04/14/2011	13/087101	LASER LIGHT DETECTION CIRCUIT
201000711	USA	20110291631	05/17/2011	13/109113	POWER SUPPLY CIRCUIT

Initialed 
George H. Cave
Secretary

Semiconductor Components Industries, LLC
Date: February 23, 2011

Initialed 
Anne Marie Hebert
Director

ON Semiconductor Trading Srl
Date: January 23, 2011

SCHEDULE A

Docket Number	Country	Publication Number	Application Date	Application Number	Title
201000799	USA	20110291242	05/27/2011	13/117498	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
201001150	USA	20110260276	04/22/2011	13/092633	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
201001334	USA	20120025359	07/22/2011	13/188544	SEMICONDUCTOR DEVICE AND METHOD OF MANUFACTURING THE SAME
201001497	USA	20120018202	07/22/2011	13/188707	CIRCUIT DEVICE
201001499	USA	20120018906	07/22/2011	13/189121	CIRCUIT DEVICE AND METHOD OF MANUFACTURING THE SAME
201001694	USA	20120018201	07/15/2011	13/184078	CIRCUIT BOARD AND MANUFACTURING METHOD THEREOF, CIRCUIT DEVICE AND MANUFACTURING METHOD THEREOF, AND CONDUCTIVE FOIL PROVIDED WITH INSULATING LAYER
201001950	USA	20120075816	09/23/2011	13/242202	CIRCUIT DEVICE AND METHOD OF MANUFACTURING THE SAME
201002331	USA	20120068321	09/09/2011	13/229079	SEMICONDUCTOR DEVICE
201002332	USA	20120061757	09/09/2011	13/229201	SEMICONDUCTOR DEVICE
201002423	USA	20120112240	11/01/2011	13/286832	SEMICONDUCTOR DEVICE

Initialed: 
George H. Cave
Secretary

Semiconductor Components Industries, LLC
Date: January 23, 2014

Initialed: 
Anne Marie Hebert
Director

ON Semiconductor Trading, S&I
Date: January 23, 2014