503357036 06/18/2015

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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DENIZ SABUNCUOGLU TEZCAN	03/13/2015
YANN CIVALE	04/07/2015
BART SWINNEN	04/30/2015
ERIC BEYNE	04/03/2015

RECEIVING PARTY DATA

Name:	IMEC
Street Address:	KAPELDREEF 75
City:	LEUVEN
State/Country:	BELGIUM
Postal Code:	3001

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14462337

CORRESPONDENCE DATA

Fax Number: (949)760-9502

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: 9497600404

Email: efiling@knobbe.com

Correspondent Name: KNOBBE, MARTENS, OLSON & BEAR LLP

Address Line 1: 2040 MAIN STREET

Address Line 2: 14TH FLOOR

Address Line 4: IRVINE, CALIFORNIA 92614

ATTORNEY DOCKET NUMBER:	IMEC556.001D1
NAME OF SUBMITTER:	JOHN M. CARSON
SIGNATURE:	/John M. Carson/
DATE SIGNED:	06/18/2015

Total Attachments: 5

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PATENT 503357036 REEL: 035945 FRAME: 0734

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> PATENT REEL: 035945 FRAME: 0735

Application No.: 14/462,337 Filing Date: August 18, 2014

Docket Number: IMEC556.001D1

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ASSIGNMENT

WHEREAS, **Deniz Sabuncuoglu Tezcan**, residing at Neerwinden, BE; **Yann Civale**, residing at Leuven, BE; **Bart Swinnen**, residing at Holsbeek, BE; and **Eric Beyne**, residing at Leuven, BE (individuals hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas, ornamental design or discoveries related to SEMICONDUCTOR DEVICE HAVING THROUGH-SUBSTRATE VIAS (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States has been prepared for filing (identified above) with the United States Patent and Trademark Office (hereinafter the "Application");

AND WHEREAS, **IMEC**, a Corporation, having an address at Kapeldreef 75, Leuven 3001 Belgium (hereinafter the "ASSIGNEE"), desires to acquire the entire right, title, and interest in and to the Application and the Work:

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby acknowledges that ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, unto said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in the Application and the Work, including all provisional applications relating thereto (including but not limited to U.S. Provisional Application No. 61/037,992, filed March 19, 2008), and all nonprovisional applications claiming priority thereto, including, all divisions, continuations, continuations-in-part, reissues, and reexaminations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and any related Letters Patent which may hereafter be granted or filed in any country or countries foreign to the United States, all extensions, renewals and reissues thereof; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all related Letters Patent to the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND ASSIGNOR DOES HEREBY sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of said Letters Patent before or after issuance.

AND ASSIGNOR DOES HEREBY covenant and agree that ASSIGNOR will communicate to said ASSIGNEE, its successors, legal representatives and assigns, any facts known to ASSIGNOR respecting the Work, and testify in any legal proceeding, assist in the preparation of any other provisional or non-provisional applications relating to the Application and the Work or any improvements made thereto, sign all lawful papers, authorize the filing of and execute and make all rightful oaths and/or declarations in connection with the Application and the Work including any improvements made thereto, any patent applications filed therefrom, and any continuing application filed from any of the aforementioned applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for the Work in all countries.

Application No.: 14/462,337 Filing Date: August 18, 2014 Legal Name of inventor: Deniz Sabuncuogiu Tezcan Inventor Signature: Witnessed by: Witness Name (printed): ___

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Legal Name of inventor: Yann Civale

Inventor Signature:

_ Date: <u>04 /07/2</u>0/5

Witnessed by:

noc Piekke

Witness Name (printed):

AMOS BELL

PATENT

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Legal Name of inventor: Bart Swinnen

Inventor Signature:

_____ Date:

Witnessed by:

Witness Name (printed):

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Docket Number: IMEC556.001D1

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Legal Name of Inventor: Eric Beyne

Inventor Signature:

Date: 3/4/20

Witnessed by:

Witness Name (printed):

19957391 021115

> PATENT REEL: 035945 FRAME: 0740

RECORDED: 06/18/2015