502542752 10/23/2013

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2588211

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
QI XIE	10/16/2013
VLADIMIR MACHKAOUTSAN	10/17/2013
JAN WILLEM MAES	10/16/2013

RECEIVING PARTY DATA

Name:	ASM IP HOLDING B.V.
Street Address:	VERSTERKERSTRAAT 8
City:	ALMERE
State/Country:	NETHERLANDS
Postal Code:	1322 AP

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14045680

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	ASMFEO.030AUS
NAME OF SUBMITTER:	ZI Y. WONG
Signature:	/Zi Y. Wong/
	PATENT

502542752 REEL: 031460 FRAME: 0790

P \$40 00 14045680

Date:	10/23/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 4 source=ASMFEO_030AUS-Assignment#page1.tif source=ASMFEO_030AUS-Assignment#page2.tif source=ASMFEO_030AUS-Assignment#page3.tif source=ASMFEO_030AUS-Assignment#page4.tif	

PATENT REEL: 031460 FRAME: 0791

COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

Application Data Sheet filed previously or concurrently

Docket No.: ASMFEO.030AUS

Page 1 of 4

Title: METHOD OF MAKING A WIRE-BASED SEMICONDUCTOR DEVICE

Inventors: Qi Xie, Vladimir Machkaoutsan, and Jan Willem Maes

Declaration

This Declaration is directed to the application identified above that:

Was filed **October 3, 2013** as U.S. or International Application No. **14/045,680** and incorporating any amendments made thereto prior to the signature date of this Declaration.

As a named inventor, I declare that:

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor in the application.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both.

I have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56.

Assignment from Inventors

WHEREAS, above-identified inventors (individual(s) hereinafter "ASSIGNOR") invented certain new and useful improvements, technology, inventions, developments, ideas, ornamental designs, or discoveries, and hereby assign or are under an obligation to assign to the below identified Assignee the above-titled application (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States (identified above) has been prepared for filling with the United States Patent and Trademark Office (hereinafter the "Application").

AND WHEREAS, **ASM IP Holding B.V.**, with its principal place of business at Versterkerstraat 8, Almere 1322 AP, The Netherlands address (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 of which receipt 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 patent properties filed or issued upon the Application and the Work; where "Patent Properties" include, but are not limited to:

all provisional applications relating thereto;

all nonprovisional applications claiming priority to aforementioned provisional(s) and/or the present Application, including, all divisions, continuations, continuations-in-part, and reissues, 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.

ASSIGNOR hereby acknowledges the ASSIGNEE as the Applicant for all aforementioned patent properties, and authorizes and requests the Commissioner of Patents of the United States, and any

COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.63(e))

Application Data Sheet filed previously or concurrently

Docket No.: ASMFEO.030AUS

Page 2 of 4

Title: METHOD OF MAKING A WIRE-BASED SEMICONDUCTOR DEVICE

Inventors: Qi Xie, Vladimir Machkaoutsan, and Jan Willem Maes

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 Patent Property relating to the Application and the Work or any improvements made thereto, sign/execute 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.

Legal Name of inventor: Qi Xie	
Signature: <u>QL X/e</u>	Date: 16,0ct.2013
Witnessed by: Sovid Ste forget	
Witness Name (printed): DAVID DE RO	EST

PATENT REEL: 031460 FRAME: 0793

COMBINED DECLARATION & ASSIGNMENT Application Data Sheet filed previously or co	
Docket No.: ASMFEO.030AUS	Page 3 of 4
Title: METHOD OF MAKING A WIRE-BASED SEMICONDUCTOR DE	EVICE
Inventors: Qi Xie, Vladimir Machkaoutsan, and Jan Willem Maes	
Legal Name of inventor: Vladimir Machkaoutsan Signature: Witnessed by: Jand Je Roest	
Witness Name (printed): DAVID DE RE	DEST

PATENT REEL: 031460 FRAME: 0794

COMBINED DECLARATION & ASSIGNMENT (37 CFR 1.6 Application Data Sheet filed previously or concurrently	i3(e))
Docket No.: ASMFEO.030AUS	Page 4 of 4
Title: METHOD OF MAKING A WIRE-BASED SEMICONDUCTOR DEVICE	
Inventors: Qi Xie, Vladimir Machkaoutsan, and Jan Willem Maes	
Legal Name of inventor: Jan Willem Maes Signature: Date: O	I 16,7013
Witnessed by: Sand Sk Krest Witness Name (printed): DAVID DF ROEST	
16380333 100213	

PATENT REEL: 031460 FRAME: 0795

RECORDED: 10/23/2013