

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5807936

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
SHAIRFE MUHAMMAD SALAHUDDIN	10/24/2019
JAN VAN HOUDT	10/25/2019
JULIEN RYCKAERT	10/25/2019
ALESSIO SPESSOT	10/23/2019
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Postal Code:	3001
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16565112
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ATTORNEY DOCKET NUMBER:	IMEC1080.001AUS
NAME OF SUBMITTER:	JOHN M. CARSON
SIGNATURE:	/John M. Carson/
DATE SIGNED:	11/06/2019
This document serves as an Oath/Declaration (37 CFR 1.63).	
Total Attachments: 3	

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

Application Data Sheet filed previously or concurrently

Docket No.: IMEC1080.001AUS

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Title: MEMORY DEVICES BASED ON FERROELECTRIC FIELD EFFECT TRANSISTORS

Inventors: Shairfe Muhammad Salahuddin, Jan Van Houdt, Julien Ryckaert, and Alessio Spessot

Declaration

This Declaration is directed to U.S. or International Application No. **16/565,112**, filed September 9, 2019 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 of a claimed invention 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 related to **MEMORY DEVICES BASED ON FERROELECTRIC FIELD EFFECT TRANSISTORS** (collectively hereinafter referred to as the "Work") for which an application for Letters Patent in the United States (identified above) has been filed or prepared for filing with the United States Patent and Trademark Office (hereinafter the "Application"), and ASSIGNOR desires to assign or confirm assignment of the Work and the Application to the below identified Assignee.

AND WHEREAS, **IMEC vzw**, with its principal place of business at **Kapeldreef 75, Leuven 3001 Belgium** (hereinafter the "ASSIGNEE"), desires to acquire or confirm ownership of 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 and to the Application and the Work, including: all provisional applications relating to the Work and the Application; all nonprovisional applications claiming priority to aforementioned provisional(s) and/or the 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 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.

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

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

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Title: MEMORY DEVICES BASED ON FERROELECTRIC FIELD EFFECT TRANSISTORS

Inventors: Shairfe Muhammad Salahuddin, Jan Van Houdt, Julien Ryckaert, and Alessio Spessot

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; 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, 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: Salahuddin, Shairfe Muhammad

Signature: [Signature] Date: October 24/2019
Witnessed by: [Signature]
Witness Name (printed): PIETER WECKX

Legal Name of Inventor: Van Houdt, Jan

Signature: [Signature] Date: October 25/2019
Witnessed by: [Signature]
Witness Name (printed): ANTONIO ARREGHINI

Legal Name of Inventor: Ryckaert, Julien

Signature: [Signature] Date: October 25/2019
Witnessed by: [Signature]
Witness Name (printed): SUDHIR S. PATIL

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

Application Data Sheet filed previously or concurrently

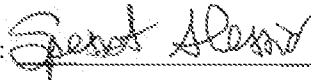
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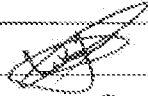
Title: MEMORY DEVICES BASED ON FERROELECTRIC FIELD EFFECT TRANSISTORS

Inventors: Shairfe Muhammad Salahuddin, Jan Van Houdt, Julien Ryckaert, and Alessio Spessot

Legal Name of Inventor: Spessot, Alessio

Signature: 

Date: 23-10-19

Witnessed by: 

Witness Name (printed): PIETER WECKX

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