

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
VICTORIA DAVILA	03/28/2017
AIMEE DISKIN	03/31/2017
LISA DAVIS	03/31/2017
HANNAH ROSENBERG	03/31/2017
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<b>Internal Address:</b>	SUITE 150
<b>City:</b>	NOVATO
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94949
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	29602434
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	
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<b>Address Line 4:</b>	SAN RAFAEL, CALIFORNIA 94901
<b>ATTORNEY DOCKET NUMBER:</b>	545.551
<b>NAME OF SUBMITTER:</b>	NATHAN P. KOENIG
<b>SIGNATURE:</b>	/nathan p. koenig/
<b>DATE SIGNED:</b>	05/01/2017
<b>Total Attachments: 3</b>	
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## ASSIGNMENT

WHEREAS, WE,

1. **Mostafa Elhoushi**, a citizen of Egypt, having a mailing address located at Suite 405, 1000 Veteran's Place NW; Calgary, Alberta T3B 4M1, Canada and a resident of Calgary, Alberta, Canada,
2. **Anas Mahmoud**, a citizen of Egypt, having a mailing address located at Suite 405, 1000 Veteran's Place NW, Calgary, Alberta T3B 4M1, Canada and a resident of Calgary, Alberta, Canada,
3. **Sheng Mao**, a citizen of China, having a mailing address located at Suite 405, 1000 Veteran's Place NW; Calgary, Alberta T3B 4M1, Canada and a resident of Calgary, Alberta, Canada,
4. **Tao Li**, a citizen of China, having a mailing address located at Suite 405, 1000 Veteran's Place NW; Calgary, Alberta T3B 4M1, Canada and a resident of Calgary, Alberta, Canada; and
5. **Jacques Georgy**, a citizen of Canada, having a mailing address located at Suite 405, 1000 Veteran's Place NW; Calgary, Alberta T3B 4M1, Canada and a resident of Calgary, Alberta, Canada

have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to METHOD AND SYSTEM FOR ESTIMATING UNCERTAINTY FOR OFFLINE MAP INFORMATION AIDED ENHANCED PORTABLE NAVIGATION (collectively the "INVENTIONS") for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, InvenSense, Incorporated (hereinafter "ASSIGNEE"), a Delaware corporation, having a place of business at 1745 Technology Drive, San Jose, California 95110, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said INVENTIONS, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said INVENTIONS, including all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in the United States, including but not limited to U.S. Application No(s). 15/485,639 filed April 12, 2017, Reference No. IVS-726/225.221, and all provisional applications relating thereto, together with

U.S. Application No(s). 14/976,992, filed December 21, 2015, Reference No. IVS-635/225.127 (and do hereby authorize ASSIGNEE and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto ASSIGNEE, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said INVENTIONS, including all inventions related thereto or thereof, and all patent applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

AND WE DO HEREBY authorize and request 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 or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at Calgary, AB, Canada, on 2017/4/10  
LOCATION DATE

Mostafa Elhoushi  
Mostafa Elhoushi

Done at Calgary, AB, Canada, on 2017/04/10  
LOCATION DATE

Anas Mahmoud  
Anas Mahmoud

Done at Calgary, AB, Canada, on 2017/04/10  
LOCATION DATE

Sheng Mao  
Sheng Mao

Done at Calgary, AB, Canada, on 2017/04/10  
LOCATION DATE

Tao Li  
Tao Li

Done at Calgary, AB, Canada, on April 10, 2017  
LOCATION DATE

Jacques Georgy  
Jacques Georgy