

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT5468000

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ALBERICO MENOZZI	08/21/2015
CHRIS F. ARGENTA	04/08/2019
JAMES B. COOK	04/05/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	APPLIED RESEARCH ASSOCIATES, INC.
<b>Street Address:</b>	4300 SAN MATEO BOULEVARD, N.E.
<b>Internal Address:</b>	SUITE A-220
<b>City:</b>	ALBUQUERQUE
<b>State/Country:</b>	NEW MEXICO
<b>Postal Code:</b>	87110
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	16380508
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(913)777-5601
<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>	
<b>Phone:</b>	913-777-5600
<b>Email:</b>	patents@eriseip.com
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<b>Address Line 4:</b>	OVERLAND PARK, KANSAS 66211
<b>ATTORNEY DOCKET NUMBER:</b>	2709-5.02
<b>NAME OF SUBMITTER:</b>	ROBIN A. SNADER
<b>SIGNATURE:</b>	/Robin A. Snader/
<b>DATE SIGNED:</b>	04/10/2019
<b>Total Attachments: 7</b>	
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## ASSIGNMENT

WHEREAS, I, **ALBERICO MENOZZI** of Raleigh, North Carolina, hereinafter called the *ASSIGNOR*, invented certain new and useful **TECHNIQUES FOR ACCURATE POSE ESTIMATION**, for which the *ASSIGNOR* executed the following United States Patent Applications:

<i>Filing Date</i>	<i>Serial No.</i>	<i>Attorney Docket Number</i>
08/21/15	14/832,450	ARE0036PA
08/21/15	14/832,468	ARE0036PA1
08/21/15	14/832,492	ARE0036PA2
08/21/15	14/832,509	ARE0036PA3

WHEREAS, **APPLIED RESEARCH ASSOCIATES, INC.**, a corporation of the State of New Mexico, with a place of business at 4300 San Mateo Blvd., NE - STE A-220, Albuquerque New Mexico, hereinafter called the *ASSIGNEE*, is desirous of acquiring the entire right, title and interest in and to said application and the inventions therein disclosed and any letters patent that may issue thereon;

AND, WHEREAS, it is the intent of the *ASSIGNOR* to assign all rights, including but not limited to all substantive rights as well as the right to claim priority and the right to be granted a patent in any and all PCT Contracting States to the above referenced application to the Assignee;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, *ASSIGNOR* hereby sells, assigns and transfers unto said *ASSIGNEE*, its successors and assigns, the entire right, title and interest, including the right to sue for past infringement, if any, and the right to claim priority, in and to said application, the inventions therein disclosed, and any improvements thereon, and in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possession, in any and all foreign countries, including without limit all PCT Contracting States, and in and to any and all divisions, continuations, substitutions, renewals, re-examination, extension and reissues thereof, and any other applications claiming priority thereto;

*ASSIGNOR* hereby authorizes and requests the Patent Office Officials in the United States and its territorial possessions, and in any and all foreign countries, to issue, when granted, any and all Letters Patents thereon, and reissues thereof, to said *ASSIGNEE* as the assignee of the entire right, title and interest in and to the same, for the sole use and behalf of said *ASSIGNEE* and said *ASSIGNEE*'s successors and assigns, to the full end of the term for which said Letters Patents may be granted, as fully and entirely as the same would have been held by *ASSIGNOR* had this assignment and sale not been made; and

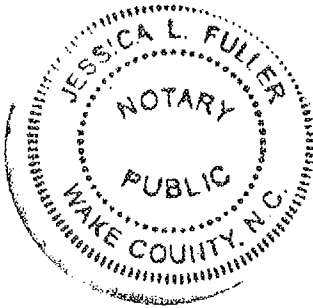
*ASSIGNOR* hereby authorizes said *ASSIGNEE*, its successors and assigns, to file in its own name applications for patent in foreign countries in connection with the inventions hereby transferred, under the International Convention claiming the priority of said United States application or otherwise, and to secure in its own name the patent or patents issued thereon; and

*ASSIGNOR* hereby agrees that, upon request, *ASSIGNOR* will sign all papers, and make all rightful oaths, and do all acts which said *ASSIGNEE*, its successors or assigns, may

consider necessary in connection with said United States application, and in connection with any other United States or foreign applications that may be filed in connection with said inventions, and with any improvements thereon, and in connection with any patents issued or reissued thereon.

IN WITNESS WHEREOF, the ASSIGNOR has hereunto set his hand and seal effective as of the 21<sup>st</sup> day of August, 2015.

By: Alberico Menozzi  
Name: ALBERICO MENOZZI



Witness:  
State of NC )  
County of Wake ) ss  
On this 8 day of September, 2015  
before me a Notary Public in and for the above County and State, personally appeared **ALBERICO MENOZZI** personally known to me, and acknowledged the execution of the foregoing assignment as a free act and deed for the purpose herein set forth.  
Jessica L. Fuller  
Notary Public

IN WITNESS WHEREOF, the ASSIGNEE has hereunto set its hand and seal effective as of the 21<sup>st</sup> day of August, 2015.

**APPLIED RESEARCH ASSOCIATES, INC.**

By: [Signature]  
Print Name: James A. Eddings  
Title: V.P. Logistics & Risk Mgt

Witness: [Signature]  
(name) Gerri Beth Morgas  
(title) Executive Administrator

Address: 4300 Sam Mateo Blvd NE, Suite A-220  
Albuquerque, NM 87110

Date: 9/11/15

## ASSIGNMENT

WHEREAS, WE, Chris F. Argenta, of 111 Woodgrove Lane, Cary, North Carolina 27518; and James B. Cook, of 1417 Waterford Green Dr., Apex, North Carolina 27502, (hereinafter "Assignors") have invented, developed, and conceived of, or shall invent, develop, and conceive of, the following invention, technology, and any improvements thereof: **TECHNIQUES FOR ACCURATE POSE ESTIMATION;**

WHEREAS, WE are about to make or have made an Application for Letters Patent of the United States or a foreign country; and

WHEREAS, Applied Research Associates, Inc., a corporation duly organized under the laws of the State of New Mexico, and having its principal place of business at 4300 San Mateo Boulevard, N.E., Suite A-220, Albuquerque, New Mexico 87110, (hereinafter "Assignee), is desirous of acquiring an interest in, to, and under said invention, technology, and any improvements thereof, said Application, and any and all Letters Patent that may be granted for or upon said invention, technology, and any improvements thereof in the United States and all foreign countries.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, WE, Assignors, shall assign and hereby do assign to Assignee the full and exclusive right, title, and interest, throughout the world, in, to, and under the following:

- (a) said invention, technology, and any improvements thereof;

(b) said invention, technology, and any improvements thereof as set forth and described in said Application for Letters Patent, which is identified by attorney Docket No. 2709-5.02;

(c) said Application;

(d) any and all refilings, divisionals, and continuations of said Application;

(e) any and all Letters Patent of the United States that may issue from said Application, refilings, divisionals, and continuations;

(f) any and all reissues of said Letters Patent of the United States;

(g) any and all applications for Letters Patent on said invention, technology, or any improvements thereof that may hereafter be filed in any and all countries foreign to the United States, together with all rights to file and to claim priority in connection with said foreign-filed applications;

(h) any and all refilings, divisionals, and continuations of said foreign-filed applications;

(i) any and all Letters Patent of countries foreign to the United States that may issue from said foreign-filed applications, refilings, divisionals, and continuations;

(j) any and all extensions of, and additions to, said Letters Patent of countries foreign to the United States; and

(k) any and all reexaminations, *inter partes* reviews, post-grant reviews, covered business method reviews, oppositions, or other post-issuance procedures for any said Letters Patent of the United States or countries foreign to the United States.



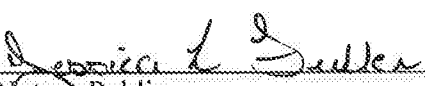
Executed this 5 day of April, 2019.

  
James B. Cook

STATE OF NC )  
                          ) SS.  
COUNTY OF Wake )



On this 5 day of April, 2019, before me personally appeared James B. Cook, of 1417 Waterford Green Dr., Apex, North Carolina 27502, to me known to be the person described in and who executed the foregoing instrument, and they duly acknowledged to me that they executed the same for the uses and purposes therein set forth.

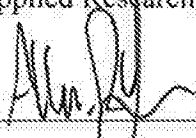
  
Notary Public

My Commission Expires Dec. 6, 2019



Applied Research Associates, Inc. hereby declares it accepts the rights and property hereby assigned and transferred to it.

Applied Research Associates, Inc.

By:   
Name: Alan York  
Title: S.V.P.