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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3756314

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PRADEEPKUMAR ASHOK	02/10/2016
ERIC VAN OORT	02/25/2016
ADRIAN AMBRUS	02/10/2016
PARHAM POURNAZARI	02/23/2016
ROMAN SHOR	02/16/2016

RECEIVING PARTY DATA

Name:	BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM
Street Address:	201 WEST 7TH STREET
City:	AUSTIN
State/Country:	TEXAS
Postal Code:	78701

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15053500

CORRESPONDENCE DATA

Fax Number: (512)370-2850

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: 512-370-2832

Email: rvoigt@winstead.com

Correspondent Name: WINSTEAD PC **Address Line 1:** P.O. BOX 131851

Address Line 4: DALLAS, TEXAS 75313-1851

ATTORNEY DOCKET NUMBER:	22084-P122US
NAME OF SUBMITTER:	ROBERT A. VOIGT, JR.
SIGNATURE:	/Robert A. Voigt, Jr./
DATE SIGNED:	02/25/2016

Total Attachments: 35

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PATENT REEL: 037920 FRAME: 0091

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PATENT REEL: 037920 FRAME: 0092

ASSIGNMENT

WHEREAS, the undersigned inventor(s), hereinafter called the "Assignor", has invented a new and useful invention entitled:

UTILIZING LOOK-UP TABLES REPRESENTING ALL MODELS IN AN AUTOMATION CONTROL ARCHITECTURE TO INDEPENDENTLY HANDLE UNCERTAINTIES IN SENSED DATA IN OIL AND GAS WELL CONSTRUCTION

	the United States filed herewith.
	for which reference a full description is here made in an application for Letters Patent of the United States Serial No
)	WHEREAS, BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, a

for which reference a full description is here made in an application for Letters Patent of

Texas University, having a principal office and place of business at 201 West 7th Street, Austin, Texas 78701 (hereinafter called the "Assignee"), is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the invention and the application herein above identified, and all Letters Patents that may issue for the said invention, and all divisions, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patents for the said invention may issue.

FURTHER, be it known that the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

And the Assignor does hereby covenant and agree, for himself and his legal representatives, that they will assist the Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and

Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, any facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

IN TESTIMONY WHEREOF, the Assignor has hereunto set his hands on the date indicated below.

PRADEEPKUMAR ASHOK

Date: 2/10/2016			·····
On Fb 0 20 name) personally appeared Prade the basis of satisfactory evidence within instrument and acknowle authorized capacity(ies), and that the entity upon behalf of which the	eepkumar Ashok person (s) e to be the person(s) dged to me that he/sho by his/her/their signat ne person(s) acted, execution	onally known to me or p whose name(s) is(are) so e/they executed the same cure(s) on the instrument	proved to me on ubscribed to the in his/her/their the person(s), or
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FRIC	WAN	OORT
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Date:			
name) personally a of satisfactory evi instrument and a authorized capacity	appeared Eric van Oort person dence to be the person(s) cknowledged to me that (ies), and that by his/her/the	e,onally known to me or proved to whose name(s) is(are) subscribe he/she/they executed the same eir signature(s) on the instrument cted, executed the instrument.	o me on the basis ed to the withir in his/her/their
and entity apon oon	an or timen the personner at	WITNESS my hand and official	al seal.
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ADRIAN AMBRUS

Date:		
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PARHAM POURNAZARI

Date:		
name) personally a basis of satisfactor instrument and a authorized capacity	appeared <u>Parham Pournazari</u> personal y evidence to be the person(s) whose cknowledged to me that he/she/the	(print notary ly known to me or proved to me on the name(s) is(are) subscribed to the within ey executed the same in his/her/their are(s) on the instrument the person(s), or uted the instrument.
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ROMAN SHOR

Date:			
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		SIGNATURE OF NO	ΓARY

ASSIGNMENT

WHEREAS, the undersigned inventor(s), hereinafter called the "Assignor", has invented a new and useful invention entitled:

UTILIZING LOOK-UP TABLES REPRESENTING ALL MODELS IN AN AUTOMATION CONTROL ARCHITECTURE TO INDEPENDENTLY HANDLE UNCERTAINTIES IN SENSED DATA IN OIL AND GAS WELL CONSTRUCTION

the United States filed herewith.
for which reference a full description is here made in an application for Letters Patent of the United States Serial No. filed .
Where are double of decentre the iniversity of texas system

x for which reference a full description is here made in an application for Letters Patent of

WHEREAS, BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, a Texas University, having a principal office and place of business at 201 West 7th Street, Austin, Texas 78701 (hereinafter called the "Assignee"), is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the invention and the application herein above identified, and all Letters Patents that may issue for the said invention, and all divisions, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patents for the said invention may issue.

FURTHER, be it known that the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

And the Assignor does hereby covenant and agree, for himself and his legal representatives, that they will assist the Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and

Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, any facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

IN TESTIMONY WHEREOF, the Assignor has hereunto set his hands on the date indicated below.

PRADEEPKUMAR ASHOK

Date:		
name) personally	, 2016, before me,appeared Pradeepkumar Ashok personally	known to me or proved to me or
within instrumen authorized capaci	factory evidence to be the person(s) whose t and acknowledged to me that he/she/they of ty(ies), and that by his/her/their signature(s) chalf of which the person(s) acted, executed the	executed the same in his/her/their on the instrument the person(s), or
	WITNESS m	y hand and official seal.
	SIGNATURI	E OF NOTARY

ERIC VAN OORT

Date: 2 25 14

On February 25, 2016, before me, Allies Brook (print notary name) personally appeared Eric van Oort personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

SIGNATURE OF NOTARY

ALLISON 8 88CORS
Notory Public, State of Texas
Comm. Expires 11-20-2018
Notary ID 13803623-6
MOTARY WITHOUT BONG

ADRIAN AMBRUS

Date:		
name) personally ap of satisfactory evid instrument and ac authorized capacity	ppeared Adrian Ambrus personally kn lence to be the person(s) whose nar knowledged to me that he/she/they	(print notary own to me or proved to me on the basis me(s) is(are) subscribed to the within executed the same in his/her/their re(s) on the instrument the person(s), or ted the instrument.
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PARHAM POURNAZARI

Date:		
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ROMAN SHOR

Date:			
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		WITNESS my hand ar	nd official seal.
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for which reference a full description is here made in an application for Letters Patent of

WHEREAS, BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, a Texas University, having a principal office and place of business at 201 West 7th Street, Austin, Texas 78701 (hereinafter called the "Assignee"), is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth;

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PRADEEPKUMAR ASHOK

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Date:		
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ATTORNEY DOCKET NO. 22084-P122US

PATENT

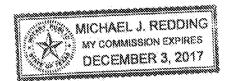
ADRIAN AMBRUS

Date:	02/10/2	016

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PARHAM POURNAZARI

Date:		
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ROMAN SHOR

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the Office States Serial No fred	·
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PRADEEPKUMAR ASHOK

Date:			
name) personally the basis of satisf within instrument authorized capacit	appeared <u>Pradeepkumar Ashok</u> actory evidence to be the pers and acknowledged to me that	<pre>c personally son(s) whose he/she/they signature(s)</pre>	known to me or proved to me on e name(s) is(are) subscribed to the executed the same in his/her/their on the instrument the person(s), or the instrument.
		WITNESS 1	my hand and official seal.
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FRIC	WAN	OORT
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Date:			
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and entity apon oon	an or timen the personner at	WITNESS my hand and official	al seal.
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ADRIAN AMBRUS

Date:		
On	, 2016, before me, _	(print notary
of satisfactory construment and authorized capacitations.	evidence to be the person(s) what acknowledged to me that he/	nally known to me or proved to me on the basis nose name(s) is(are) subscribed to the within /she/they executed the same in his/her/thei signature(s) on the instrument the person(s), o d, executed the instrument.
		WITNESS my hand and official seal.
		SIGNATURE OF NOTARY

PARHAM POURNAZARI

Date: 23 /02/2016	
instrument and acknowledged to me	efore me, Hunter Centell (print notary surnazari personally known to me or proved to me on the experson(s) whose name(s) is(are) subscribed to the within see that he/she/they executed the same in his/her/their is/her/their signature(s) on the instrument the person(s), or son(s) acted, executed the instrument.
	WITNESS my hand and official seal. SIGNATURE OF NOTARY
	HUNTER CARROLL Notary Public, State of Texas My Commission Expires June 19, 2019

ROMAN SHOR

Date:		
On	, 2016, before me,	(print notar
satisfactory evid instrument and authorized capaci	ence to be the person(s) whacknowledged to me that he	ally known to me or proved to me on the basis of hose name(s) is(are) subscribed to the within the same in his/her/the ir signature(s) on the instrument the person(s), of the ted, executed the instrument.
		WITNESS my hand and official seal.
		SIGNATURE OF NOTARY

ASSIGNMENT

WHEREAS, the undersigned inventor(s), hereinafter called the "Assignor", has invented a new and useful invention entitled:

UTILIZING LOOK-UP TABLES REPRESENTING ALL MODELS IN AN AUTOMATION CONTROL ARCHITECTURE TO INDEPENDENTLY HANDLE UNCERTAINTIES IN SENSED DATA IN OIL AND GAS WELL CONSTRUCTION

<u>X</u>	for which reference a full description is here made in an application for Letters Patent of the United States filed herewith.
	for which reference a full description is here made in an application for Letters Patent of the United States Serial No filed

WHEREAS, BOARD OF REGENTS, THE UNIVERSITY OF TEXAS SYSTEM, a Texas University, having a principal office and place of business at 201 West 7th Street, Austin, Texas 78701 (hereinafter called the "Assignee"), is desirous of acquiring the entire right, title and interest in and to said invention, the application above identified, and in, to and under Letters Patent which may be obtained for said invention, as hereinafter more fully set forth;

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN, be it known that for valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title and interest in and to the invention and the application herein above identified, and all Letters Patents that may issue for the said invention, and all divisions, reissues, substitutions, continuations, and extensions thereof, to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns to the full end of the term for which any and all of said Letters Patents for the said invention may issue.

FURTHER, be it known that the Assignor has sold, assigned and transferred, and by these presents does sell, assign and transfer unto the Assignee, its successors and assigns, the entire foreign rights to the invention disclosed in said application, in all countries of the world, including the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agrees to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

And the Assignor does hereby covenant and agree, for himself and his legal representatives, that they will assist the Assignee in the prosecution of the application herein identified; in the making and prosecution of any other applications for Letters Patent that the Assignee may elect to make covering the invention herein identified, as herein before set forth, including any application for reissue, application for reexamination, application for foreign patent rights, or any proceeding in the United States Patent and Trademark Office affecting the invention, investing in the Assignee exclusive title in and to all such other applications and

Letters Patent; and in the prosecution of any interference which may arise involving said invention, or any application or Letters Patents herein contemplated; that they will promptly execute and deliver to the Assignee any and all additional papers and make all lawful oaths which may be requested by the Assignee to fully carry out the terms of this assignment; and further that they will communicate to Assignee, or to its successors, assigns, and legal representatives, any facts known respecting said invention, and at the expense of the Assignee, testify in any legal proceedings, and generally do everything possible to aid the Assignee, its successors, assigns and nominees to obtain and enforce proper patent protection for said invention in all countries.

And the Commissioner of Patents and Trademarks is hereby authorized and requested to issue all Letters Patent to the Assignee in accordance with the terms of the assignment.

IN TESTIMONY WHEREOF, the Assignor has hereunto set his hands on the date indicated below.

PRADEEPKUMAR ASHOK

Date:			······
name) personally the basis of satisf within instrument authorized capacit	appeared <u>Pradeepkumar Asho</u> actory evidence to be the per and acknowledged to me that	k personally rson(s) whos the/she/they r signature(s)	known to me or proved to me on e name(s) is(are) subscribed to the executed the same in his/her/their on the instrument the person(s), or the instrument.
		WITNESS	my hand and official seal.
		SIGNATUI	RE OF NOTARY

ERIC VAN OORT

Date:		
name) personally of satisfactory e instrument and authorized capac	y appeared <u>Eric van Oort</u> personally known to evidence to be the person(s) whose name(s) acknowledged to me that he/she/they executy(ies), and that by his/her/their signature(s) or behalf of which the person(s) acted, executed the	me or proved to me on the basi is(are) subscribed to the within tuted the same in his/her/thein the instrument the person(s), o
	WITNESS my	hand and official seal.
	SIGNATURE	OF NOTARY

ADRIAN AMBRUS

Date:		
On	, 2016, before me,	(print notary
of satisfactory construment and authorized capacitations.	evidence to be the person(s) w acknowledged to me that he	chally known to me or proved to me on the basis whose name(s) is(are) subscribed to the within e/she/they executed the same in his/her/their signature(s) on the instrument the person(s), o ed, executed the instrument.
		WITNESS my hand and official seal.
		SIGNATURE OF NOTARY

PARHAM POURNAZARI

Date:	······································	
name) personally ap- basis of satisfactory instrument and ac- authorized capacity	ppeared <u>Parham Pournazari</u> personally evidence to be the person(s) whose naknowledged to me that he/she/they	(print notary known to me or proved to me on the name(s) is(are) subscribed to the within executed the same in his/her/their re(s) on the instrument the person(s), or ted the instrument.
	WITNE	SS my hand and official seal.
	SIGNAT	TURE OF NOTARY

Date: 2/16/16

On to let , 2016, before me, deline (print notary name) personally appeared Roman Shor personally known to me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

MICHAEL J. REDDING
MY COMMISSION EXPIRES
DECEMBER 3, 2017

WITNESS my hand and official seal.

SIGNATURE OF NOTARY