502987326 09/23/2014

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3033925

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
STEVEN FREEAR	08/27/2014
BEN VARCOE	09/05/2014
DAVID MATTHEW JOSEPH COWELL	08/27/2014
STEPHEN GEORGE HENRY STAPLES	09/01/2014
CHAU VO	08/28/2014

RECEIVING PARTY DATA

Name:	SPEIR HUNTER LTD.
Street Address:	MAYDEN HOUSE, LONG BENNINGTON BUSINESS PARK, LONG BENNINGTON
City:	NOTTINGHAM
State/Country:	UNITED KINGDOM
Postal Code:	NG23 5DJ

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14381828

CORRESPONDENCE DATA

Fax Number:

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: 703-740-8322

Email: patent@maierandmaier.com
Correspondent Name: MAIER & MAIER, PLLC

Address Line 1: 345 SOUTH PATRICK STREET Address Line 4: ALEXANDRIA, VIRGINIA 22314

ATTORNEY DOCKET NUMBER:	05410002US
NAME OF SUBMITTER:	CHRISTOPHER J. MAIER
SIGNATURE:	/Christopher J. Maier/
DATE SIGNED:	09/23/2014
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 5

PATENT

502987326 REEL: 033797 FRAME: 0516



Fine of invention American and Commence	
	CLARATION
As a below named inventor, I hereby declare that:	
This declaration is directed to: The attached application, or	
	Lapplication number 14/381.828 , filed
06 August 28, 2014	
The show-identified antication was made or authorized to b	se made by me. Thelieve I am the original inventor or an original joint
inventor of a changed invention in the application. I have my	issed and understural the contents of the above-identified application, application. Lackmentedge the duty to disclose all information which is
	in this declaration is punishable under 18 USC 1001 by fine or
imprisonment of not more than five (3) years, or both.	SHGNMENT
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filed on August 28, 2014 Serial No. 14/38	
established by PCT international Patent Application No.	All of
designating the United States of America	trees.
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Restington NGT 3DL United Kingdom.	ne entire right, title and interest in and to the same in the United States.
RECEIVED THE PROPERTY For any Land and the control of the control	, rescipt of which is hereby as knowledged, I. Assistions, by these presents do
1217 T. TILLAND SANDA M. MARKATANA MARKATANAN MARKATANAN	ille, and interest in and to said INVENTION and application Composit the
	gramed on any division, continuation, continuation-in-part and release of raid
артамия	Source work account recommends to
	that legally may be required in connection with the filing, prosecution and
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	said INVENTION; all without further consideration. AssiGNOR siso agrees,
	louify and communicate to Asservest at Asservest's request documents and
	OR's possession or control, and to provide further assurances and testimony on
	n in respect of the prosecution, misintenance and defense of any patent
	trument: Assistion 's obligations under this instrument shall extend to
Assignment's heirs, executors, administrators and other legal re-	
	ctor of the U.S. Patent and Trademark office to issue any and all Letters Patent
	ight, title and interest in and to the same, for Assichtic's sole use and behoof.
	s and successors, to the full end of the term for which such Letters Patent may
	held by Assicrom had this assignment and sale not been made
	Mater, PLLC to insert or complete any information in this document needed
to effect its recorded in the U.S. Patent and Trademark Office.	
and the second s	
Legal Name of Inventor Steven FREE AR.	
	x 27-8-14
Inventor's Signature	Date

Title of Invention: Fault Detection for Pipelines
DECLARATION
As a below named inventor, I hereby declare that:
This declaration is directed to:
The attached application, or United States application or PCT international application number 14/381,828 filed
on August 28, 2014
The above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application. I have reviewed and understood the contents of the above-identified application, including the claims, and any claim amendments made in the application. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1991 by fine or imprisonment of not more than five (5) years; or both. ASSIGNMENT
WHEREAS, I. Ben Varcoe, whose post office address is clo Department of Physics, University of Leeds, LS2 917, United Kingdom,
hereinafter referred to as Assignor, am the owner of useful improvements in Fault Detection for Pipelines (hereinafter referred to as the INVENTION) for which the above application for United States Letters Patent was
filed on: August 28, 2014 Scrial No.: 14/381,828 or
established by PCT International Patent Application No.: filed:
designating the United States of America;
WHEREAS, Spoir Hunter Ltd., whose post office address is Mayden House, Long Bennington Business Park, Long Bennington,
Nottingham NG23 5DL United Kingdom.
hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States; NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I, ASSIGNOR, by these presents do sell, assign and transfer unto said ASSIGNEE, the entire right, title, and interest in and to said INVENTION and application throughout the
United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said-
application.
ALSO, Assignor hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and
maintenance of said application or any other patent application(s) in the United States for said Inventorion, including additional documents
that may be required to affirm the rights of Assignee in and to said INVENTION, all without further consideration. Assignee also agrees, without further consideration and at Assignee's expense, to identify and communicate to Assignee at Assignee's request documents and
information concerning the Invention that are within Assignor's possession or control, and to provide further assurances and testimony on
behalf of Assigned that lawfully may be required of Assignor in respect of the prosecution, maintenance and defense of any patent
application or patent encompassed within the terms of this instrument. Assignor's obligations under this instrument shall extend to
Assignor's heirs, executors, administrators and other legal representatives.
ALSO, Assignor hereby authorizes and requests the Director of the U.S. Patent and Trademark office to issue any and all Letters Patent
referred to above to Assignee, as the Assignee of the entire right, title and interest in and to the same, for Assignee's sole use and behoof,
and for the use and behoof of Assignee's legal representatives and successors, to the full end of the term for which such Letters Patent may
he granted, as fully and entirely as the same would have been held by ASSIGNOR had this assignment and sale not been made.
ASSIGNOR authorizes any member of the firm of Maier & Maier, PLLC to insert or complete any information in this document needed
to effect its recordal in the U.S. Patent and Trademark Office.
Town of Inventor Day VARIVE
Legal Name of Inventor: Ben YARCOR
x 14 Vece x 3/9/2019
Inventor's Signature Date /

PATENT

REEL: 033797 FRAME: 0519

Title of Invention: Esuit Detection for Pipelines	
	ARATION
As a below named inventor, I hereby declare that:	veninger engag
This declaration is directed to:	
The attached application, or	1.1203.000
United States application or PCT international ap on August 28, 2014	oplication number 14/381,828 filed
inventor of a claimed invention in the application. I have review including the claims, and any claim amendments made in the appropriate to patentability as defined in 37 CFR 1.56.	nade by me. I believe I am the original inventor or an original joint ved and understood the contents of the above-identified application, plication. I acknowledge the duty to disclose all information which is
I hereby acknowledge that any willful false statement made in timprisonment of not more than five (5) years, or both.	
A2211	GNMENT
	ice address is c/o School of Electronic Engineering, University of Leeds
LS2 977. United Kingdom.	
hereinafter referred to as Asskinon, am the owner of useful impro	ovements in Fault Detection for Pipelines (hereinafter referred to as the
INVENTION) for which the above application for United States Lec	
filed on: August 28, 2014 Serial No.: 14/381	<u>.828</u> ; or
established by PCT International Patent Application No.:	
designating the United States of America;	
WHEREAS, Speir Hunter Ltd., whose post office address is &	Asyden House, Long Repulsion Business Park, Long Bennington
ed as a second control of the second control	
	ntire right, title and interest in and to the same in the United States;
	scipt of which is hereby acknowledged, I, Assignor, by these presents de
sell, assign and transfer unto said ASSIGNES, the entire right, title,	and interest in and to said INVENTION and application throughout the
	nted on any division, continuation, continuation-in-part and reissue of sa
application.	,
ALSO, Assignor hereby agrees to execute any documents that	t legally may be required in connection with the filing, prosecution and
	in the United States for said INVENTION, including additional documents
	d invention, all without further consideration. Assignor also agrees,
	fy and communicate to Assigned at Assigned's request documents and
	possession or control, and to provide further assurances and testimony of
	respect of the presecution, maintenance and defense of any patent
	sent. Assurance's obligations under this instrument shall extend to
Assignor's heirs, executors, administrators and other legal repress	
	of the U.S. Patent and Trademark office to issue any and all Letters Pater
	title and interest in and to the same, for ASSIGNEE's sole use and behoof
	successors, to the full end of the term for which such Letters Patent may
e granted, as fully and entirely as the same would have been held	
	iss, PLLC to insert or complete any information in this document neede
o effect its recordal in the U.S. Patent and Trademark Office.	
egal Name of Inventor: David Matthew Joseph COWELL	
W. 11	
x Marcell nventor's Signature	x 27 August 2014
nventor's Significant	Date

Title of Invention: Lauli Detection for Physines
As a below named inventor, Thereby declare that:
This declaration is directed to:
The atteched application, or
United States application of PCT international application number 14/381,828 filed on August 28, 2014
The shave-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application. I have reviewed and understood the contents of the above-identified application, melading the claims, and any claim amendments made in the application. I acknowledge the duty to disclose all information which is material to patentiability as defined in 37 CFR 1.56.
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.
<u>ASSIGNMENT</u>
WHEREAS, I, Stephen George Henry Staples, whose post office address is c/o Department of Physics, University of Londs, LS2 917,
United Kingdom.
hereinafter referred to as ASSIGNON, am the owner of useful improvements in fault Detection for Pipelines (hereinafter referred to as the
Invisition) for which the above application for United States Letters Patent was
filed at August 28, 2014 Serial No. 14/381,828 57
Gled Bled
designating the United States of America;
WHEREAS, Speir Hunter Ltd., whose post office address is Mayden lique, Long Isomington Business Park, Long Bennington,
Nationgham NG23 SUL United Kingdom
neremaner reterred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States;
NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I, Assignor, by these presents do
sell, assign and transfer unto said Assigned, the entire right, title, and interest in and to said invention and application throughout the
United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said
application.
ALSO, Assignor hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and maintenance of said application or any other patent application(s) in the United States for said Invention, including additional documents that may be required to affirm the rights of Assignee in and to said Invention, all without further consideration. Assignor also agrees, without further consideration and at Assignee's expense, to identify and communicate to Assignee at Assignee's request documents and information concerning the Invention that are within Assignor's possession or control, and to provide further assurances and testimony on schalf of Assignee that lawfully may be required of Assignor in respect of the prosecution, maintenance and defense of any patent application or patent encompassed within the terms of this instrument. Assignor's obligations under this instrument shall extend to Assignor's heirs, executors, administrators and other legal representatives.
ALSO, Assignor hereby authorizes and requests the Director of the U.S. Patent and Trademark office to issue any and all Letters Patent
eferred to above to Assigner, as the Assigner of the entire right, title and interest in and to the same, for Assigner's sole use and behoof,
and for the use and behoof of Assignee's legal representatives and successors, to the full end of the term for which such Letters Patent may
e granted, as fully and entirely as the same would have been held by Asstonon had this assignment and sale not been made.
ASSIGNOR authorizes any member of the firm of Maier & Maier, PLLC to insert or complete any information in this document needed a effect its recordal in the U.S. Patent and Trademark Office.
TOTAL
sgal Name of Inventor: <u>Stephen George Henry STAPLES</u>
3 7 c. 8
× 01/09/14
rentor's Signature Date

Title of Invention: Fault Detection for Finelines
DECLARATION
As a below named inventor, I hereby declare that:
This declaration is directed to:
The attached application, or
United States application or PCT international application number 14/381,828 filed
on_August 28, 2014
The above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application. I have reviewed and understood the contents of the above-identified application, including the claims, and any claim amendments made in the application. I acknowledge the duty to disclose all information which is material to patentability as defined in 37 CFR 1.56.
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.
ASSIGNMENT
WHEREAS, I, Chau VO., whose post office address is c/o School of Electronic Engineering, University of Leads, LS1 91T, United
Kinsken
hereinafter referred to as ASSIONOR, am the owner of useful improvements in Esulit Detection for Pipelines (hereinafter referred to as the
INVENTION) for which the above application for United States Letters Patent was
filed on: August 28, 2014 Serial No.: 14/381,828 or
established by PCT International Patent Application No.:filed:
designating the United States of America;
WHEREAS, Speir Hunter Ltd., whose post office address is Mayden House, Long Bennington Business Park, Long Bennington,
Nottingham NG23 5DL United Kingdom
hereinafter referred to as ASSIGNEE, is desirous of acquiring the entire right, title and interest in and to the same in the United States;
NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, I, Assionor, by these presents do
sell, assign and transfer unto said Assignee, the entire right, title, and interest in and to said Invention and application throughout the
United States of America, including any and all Letters Patent granted on any division, continuation, continuation-in-part and reissue of said
application.
ALSO, Assicator hereby agrees to execute any documents that legally may be required in connection with the filing, prosecution and
maintenance of said application or any other patent application(s) in the United States for said INVENTION, including additional documents
that may be required to affirm the rights of Assiones in and to said INVENTION, all without further consideration. Assignor also agrees,
without further consideration and at Assigner's expense, to identify and communicate to Assigner's request documents and
information concerning the INVENTION that are within ASSIGNOR'S possession or control, and to provide further assurances and testimony on
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ASSIGNOR'S heirs, executors, administrators and other legal representatives. ALSO, ASSIGNOR hereby authorizes and requests the Director of the U.S. Patent and Trademark office to issue any and all Letters Patent
referred to above to Assigness, as the Assigness of the entire right, title and interest in and to the same, for Assigness sole use and behoof
and for the use and behoof of Assicutif's legal representatives and successors, to the full end of the term for which such Letters Patent may
be granted, as fully and entirely as the same would have been held by Assumon had this assignment and sale not been made.
ASSIGNOR authorizes any member of the firm of Maier & Maier, PLLC to insert or complete any information in this document needed
to effect its recordal in the U.S. Patent and Trademark Office.
Legal Name of Investor Chan VO
The fact of the second of the
x //M × 38/08/3000
Inventor's Signature Date

PATENT REEL: 033797 FRAME: 0522

RECORDED: 09/23/2014