## PATENT ASSIGNMENT COVER SHEET

## Electronic Version v1.1 Stylesheet Version v1.2

### EPAS ID: PAT2597214

			PATENT	
ATTORNEY DOCKET	NUMBER:	TP.2526.USU1		
Address Line 4:	WEST	PORT, CONNECTICUT 06880		
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Phone:		2 5299		
Fax Number:				
CORRESPONDENCE	DATA			
Application Number:	1·	4049636		
Property T		Numl	ber	
			]	
	RS Total: 1			
Postal Code:	FI-02044 VTT			
State/Country:	FINLAND			
City:	ESPOO			
Street Address:		ITIE 3		
Name:		N TUTKIMUSKESKUS VTT		
RECEIVING PARTY I				
			10/20/2010	
RAMI MANNILA			10/23/2013	
JARKKO ANTILA			10/23/2013	
UULA KANTOJARVI			10/23/2013	
CHRISTER HOLMLU			10/23/2013	
JUSSI MAKYNEN			10/23/2013	
HEIKKI SAARI			10/23/2013	
		Name	Execution Date	
CONVEYING PARTY	ΠΑΤΑ			
NATURE OF CONVE	YANCE:	ASSIGNMENT		
		NEW ASSIGNMENT		

NAME OF SUBMITTER:	GEZA C ZIEGLER JR
Signature:	/gcz44004/
Date:	10/30/2013
	This document serves as an Oath/Declaration (37 CFR 1.63).
Total Attachments: 10 source=Assignment_and_Declaration_1of2 source=Assignment_and_Declaration_1of2 source=Assignment_and_Declaration_1of2 source=Assignment_and_Declaration_1of2 source=Assignment_and_Declaration_2of2 source=Assignment_and_Declaration_2of2 source=Assignment_and_Declaration_2of2 source=Assignment_and_Declaration_2of2 source=Assignment_and_Declaration_2of2	_5Inventors#page2.tif _5Inventors#page3.tif _5Inventors#page4.tif _5Inventors#page5.tif _Mannila#page1.tif _Mannila#page2.tif _Mannila#page3.tif _Mannila#page4.tif

# COMBINED DECLARATION AND ASSIGNMENT FOR UTILITY PATENT APPLICATION

### As the below named inventors, we hereby declare that:

(1) This declaration and assignment are directed to:

Title: A METHOD FOR DETERMINING CALIBRATION PARAMETERS FOR A SPECTROMETER

the specification of which is attached hereto; OR

United States Patent Application or PCT International application number:

14049636; filed on 9 October 2013 as amended on (if applicable)

(We hereby authorize and request the Company or its designated attorneys, representatives or agents to insert above the application number and filing date of the application, or other pertinent information herein, when known.)

(2) The above-identified application was made or authorized to be made by us.

(3) We believe that we are the original joint inventors of a claimed invention in the application.

(4) We hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. §1001 by fine or imprisonment of not more than five (5) years, or both.

(5) We have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

(6) We acknowledge the continuing duty to disclose to the United States Patent and Trademark Office all information known to us to be material to patentability of this application, as defined in Title 37, Code of Federal Regulations, Section 1.56, including, for continuation-inpart applications, material information which becomes available between the filing date of the prior application and the filing date of the continuation-in-part application.

### Authorization To Permit Access To Application by Participating Office

If checked, the undersigned hereby grants the USPTO authority to provide the European Patent Office (EPO), the Japan Patent Office (JPO), the Korean Intellectual Property Office (KIPO), the World Intellectual Property Office (WIPO), and any other intellectual property offices in which a foreign application claiming priority to the above-identified patent application is filed access to the above-identified patent application. See 37 CFR 1.14(c) and (h). This box should not be checked if the applicant does not wish the EPO, JPO, KIPO, WIPO, or other intellectual property office in which a foreign application claiming priority to the above-identified patent application. In accordance with 37 CFR 1.14(h)(3), access will be provided to a copy of the above-identified patent application with respect to: 1) the above-identified patent application-as-filed; 2) any

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foreign application to which the above-identified patent application claims priority under 35 U.S.C. 119(a)-(d) if a copy of the foreign application that satisfies the certified copy requirement of 37 CFR 1.55 has been filed in the above-identified patent application; and 3) any U.S. application-as-filed from which benefit is sought in the above-identified patent application. In accordance with 37 CFR 1.14(c), access may be provided to information concerning the date of filing the Authorization to Permit Access to Application by Participating Offices.

#### OATH:

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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### ASSIGNMENT OF RIGHTS:

Whereas, we have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention"); and,

Whereas we desire to assign my above-identified rights, title and interest in the Invention to the Assignee identified herein;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged, we,

Name	Address
Heikki SAARI	c/o VTT, PL 1000, FI-02044 VTT, Finland
Jussi MÄKYNEN	c/o VTT, PL 1000, FI-02044 VTT, Finland
Christer HOLMLUND	c/o VTT, PL 1000, FI-02044 VTT, Finland
Uula KANTOJÄRVI	c/o VTT, PL 1000, FI-02044 VTT, Finland
Jarkko ANTILA	c/o VTT, PL 1000, FI-02044 VTT, Finland
Rami MANNILA	c/o VTT, PL 1000, FI-02044 VTT, Finland

do hereby assign, sell and transfer to:

Page 3 of 5

Ziegler IP Law Group, LLC:

Assignee

	crowe control		
	Name of Company	Address	
A REAL PROPERTY AND A REAL	Teknologian Tutkimuskeskus VTT	Vuorimichentie 3, FI-02044 VTT, Finland	

herein referred to as the "Company", its successors and assigns, my entire rights, titles and interests in and to the Invention and improvements made or conceived by us described the application(s) listed above and in the following table:

Country of Filing	Type of Filing	Application Number	Filing Date	Title
FI		20126066	11 October 2012	

(We hereby authorize and request the Company or its delegated attorneys, representatives or agents to insert above the relevant application number, filing date and other information required herein, when known.)

and any and all applications for patent or patents therefrom in any and all countries, including all divisions, continuations, and continuations-in-part, reexaminations, reissues and renewals thereof, and all benefits, rights of priority resulting from the filing of the application(s), and any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for the Invention, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto the Company;

and we hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Letters Patent which may issue for the Invention to the Company, as assignee of the whole right, title and interest thereto;

and we further agree to, without any further consideration, communicate to the Company or its representatives or nominees any facts known to us respecting the Invention and improvements and testify in any legal proceeding, make all rightful oaths, sign and execute all necessary and lawful future documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights in all countries including but not limited to, any provisional, non-provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, for any derivation proceedings relating thereto, and, as to any patents that issue from such applications, for any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, or extension thereof, and generally do everything possible to aid the Company, its successors, assigns and nominees, to obtain and enforce proper patent protection for the Invention and its improvements in all countries.

Page 4 of 5

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Inventor Signatures

Name	Signature	Date
Heikki SAARI	Herber Lacens	28.10.2013
Jussí MÄKYNEN	Yuli Harper	23.10.2013
Christer HOLMLUND	HULL	23,10,2013
Uula KANTOJÄRVI	Ule lien	23.10.2013
Jarkko ANTILA	June	27.10.2017
Rami MANNILA		

Page 5 of 5

Ziegler IP Law Group, LLC,

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Page 2 of 5

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Whereas, we have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention"); and,

Whereas we desire to assign my above-identified rights, title and interest in the Invention to the Assignee identified herein;

Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged, we,

Inventors	(assignors)
	*****

Name	Address
Heikki SAARI	c/o VTT, PL 1000, FI-02044 VTT, Finland
Jussi MÄKYNEN	c/o VTT, PL 1000, FI-02044 VTT, Finland
Christer HOLMLUND	c/o VTT, PL 1000, FI-02044 VTT, Finland
Uula KANTOJÄRVI	c/o VTT, PL 1000, Fl-02044 VTT, Finland
Jarkko ANTILA	c/o VTT, PL 1000, FI-02044 VTT, Finland
Rami MANNILA	c/o VTT, PL 1000, FI-02044 VTT, Finland

do hereby assign, sell and transfer to:

Page 3 of 5

Ziegler IP Law Group, LLC.

Assignee

want was	
Name of Company	Address
Teknologian Tutkimuskeskus VTT	Vuorimiehentie 3, FI-02044 VTT, Finland

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and any and all applications for patent or patents therefrom in any and all countries, including all divisions, continuations, and continuations-in-part, reexaminations, reissues and renewals thereof, and all benefits, rights of priority resulting from the filing of the application(s), and any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for the Invention, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto the Company;

and we hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Letters Patent which may issue for the Invention to the Company, as assignee of the whole right, title and interest thereto;

and we further agree to, without any further consideration, communicate to the Company or its representatives or nominees any facts known to us respecting the Invention and improvements and testify in any legal proceeding, make all rightful oaths, sign and execute all necessary and lawful future documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights in all countries including but not limited to, any provisional, non-provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, for any derivation proceedings relating thereto, and, as to any patents that issue from such applications, for any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter partes review, or extension thereof, and generally do everything possible to aid the Company, its successors, assigns and nominees, to obtain and enforce proper patent protection for the Invention and its improvements in all countries.

Page 4 of 5

Ziegler IP Law Group, LLC.

Inventor Signatures

Name	<u>Signature</u>	Date
Heikki SAARI		
Jussi MÄKYNEN		
Christer HOLMLUND		
Uula KANTOJÄRVI		
Jarkko ANTILA		
Rami MANNILA	2- 11	23.10.2013

Page 5 of 5

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## PATENT REEL: 031511 FRAME: 0471

**RECORDED: 10/30/2013**