505157437 10/24/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5204204

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MIKA PRUNNILA	10/14/2018
JOUNI AHOPELTO	09/24/2018
ANDREY TIMOFEEV	09/25/2018
KESTUTIS GRIGORAS	09/24/2018
ANDREY SHCHEPETOV	09/21/2018

RECEIVING PARTY DATA

Name:	TEKNOLOGIAN TUTKIMUSKESKUS VTT OY	
Street Address:	VUORIMIEHENTIE 3	
City:	ESPOO	
State/Country:	FINLAND	
Postal Code:	02150	

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	16082610	

CORRESPONDENCE DATA

Fax Number: (703)816-4100

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: 703-816-4000

Email: bnapear@nixonvan.com, PTOmail@nixonvan.com

Correspondent Name: NIXON & VANDERHYE P.C. Address Line 1: 901 NORTH GLEBE ROAD

Address Line 2: 11TH FOOR

Address Line 4: ARLINGTON, VIRGINIA 22203

ATTORNEY DOCKET NUMBER: GPK-227-273		
NAME OF SUBMITTER:	GORDON P. KLANCNIK	
SIGNATURE:	/Gordon P. Klancnik/	
DATE SIGNED:	10/24/2018	
This document serves as an Oath/Declaration (37 CFR 1.63).		

PATENT 505157437 REEL: 047298 FRAME: 0833

Total Attachments: 5 source=227-273_DeclarationAssignment#page1.tif source=227-273_DeclarationAssignment#page2.tif source=227-273_DeclarationAssignment#page3.tif

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THERMOELECTRIC	DEVICE	
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WHEREAS, the undersigned (hereinster ASSICNOR), has made an invo	mon in the Application for	men where and place of highless &.
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Doc code: Oath Document Description: Oath or declaration filed Attorney Docket Number GPK-227-273 First Named Inventor PRUNNILA, Mika INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) **USING AN APPLICATION DATA SHEET (37 CFR 1.76)** Declaration Submitted With Initial Filing OR Declaration Submitted After Initial Filing (surcharge (37 C.F.R. § 1.16(f)) required) THERMOELECTRIC DEVICE (Title of the Invention) As a below named inventor, I hereby declare that: This declaration is directed to: the attached application, or United States Application Number 16/082,610 filed September 6, 2018, or PCT International application number filed on 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 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. WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in the Application identified above. WHEREAS, TEKNOLOGIAN TUTKIMUSKESKUS VTT OY (hereinafter ASSIGNEE), an entity, having an office and place of business at Vuorimiehentie 3, Espoo, FINLAND, 02150, is desirous of acquiring an interest therein; NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention; ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal

representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention:

ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and

ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

AGKEED and executed as noted below:	
Legal Name of Additional Joint Inventor, if any:	
(E.g., Given Name (first and middle (if any)) and Family Name or Sumame)	
Jouni	AHOPELTO
Inventor's Signature:	Date: 74.9-2018
Witnessed by:	
Signature of witness:	Date: 2 7 2 20 / 5

I/We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR §1.56.

	Dec code: Oath		
	Document Description: Oath or declaration filed		.,
		Attorney Docket Number	GPK-227-273
4		First Named Inventor	PRUNNILA, Mika
	INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY USING AN APPLICATION DATA:	OR DESIGN PATENT A	PPLICATION (37 CFR 1.63)
	Declaration Submitted With Initial Filing	mitrici for constructs	
	OR		
	Declaration Submitted After Initial Filing (surcharge (37 C.F.R. S	; 1.16(f)) required)	
	THERMOELECTRIC	DEVICE	
	(Title of the Invent	on)	
	As a below named inventor, I hereby declare that:		
	This declaration is directed to:		
	the attached application, or	. MONA 95	
	☐ United States Application Number 16/082,610 filed September 6☐ PCT International application number filed on	i, 2016, or	
	E. T. O. C. Price Construction of the Construc		
	The above-identified application was made or authorized to be made by me	k .	
	I believe I am the original inventor or an original joint inventor of a claimed in	nvention in the application.	
	I hereby acknowledge that any willful false statement made in this declaration	on is punishable under 18 U.)	\$,C, 1001
	by fine or imprisonment of not more than five (5) years, or both.	000000000000000000000000000000000000000	
	WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invent	ion in the Application identific	ed above.
	WHEREAS, TEKNOLOGIAN TUTKIMUSKESKUS VTT OY (hereinafter AS Vuorimiehentie 3, Espoo, FINLAND, 02150, is desirous of acquiring an inter		in office and place of business at
	NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other	good and valuable considers	tion, the receipt and sufficiency
	of which are hereby acknowledged, the said ASSIGNOR by these presents ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR		
	America and all foreign countries, in and to the invention as described in the	e aforesaid application, and t	o the said application and to all
	subsequent applications based thereon including any and all continuations, all resulting patents, together with the right of priority under the Internationa		
	American Convention Relating to Patents, Designs and Industrial Models, a	and any other international ag	preements to which the United
	States of America adheres, and the ASSIGNOR hereby authorizes and requisald Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its success	uests the Commissioner of P	atents and Trademarks to issue
	agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represen	ned only ASSIGNEE and will	continue to represent only
	ASSIGNEE with respect to this invention;		
	ASSIGNOR hereby agrees to transfer a like interest upon request of said A representatives, and without further remuneration, in and to any improvement		
	of or related to the said invention;	curt sicia alabaiannossa soci han	and maken maken and the mening and
	ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its succe		resentatives, deemed essential
	to ASSIGNEE'S full protection and title in and to the invention hereby transf		
	ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further	ir remuneration, to execute a	ny and all papers desired by

ASSIGNEE, for the filling and granting of foreign applications and the perfecting of fille thereto in ASSIGNEE.

AGREED and executed as noted below:

Concernation over Approximately and the Appr	
Legal Name of Additional Joint Inventor, if any:	
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)	
Andrey	TIMOFEEV
Inventor's Signature:	Date: 45.09, 2018
Witnessed by: Name: To Nathan Reiner	
Signature of witness:	Date: 25/9/20 18

I/We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR §1.55.

ocument Description: Oath or declaration filed	Attorney Docket Number	GPK-227-273
	First Named Inventor	PRUNNILA, Mika
INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTIL	LITY OR DESIGN PATENT A	PPLICATION (37 CFR 1.63
USING AN APPLICATION DA	TA SHEET (37 CFR 1.76)	
Declaration Submitted With Initial Filing OR		
$\stackrel{f one}{\sum}$ Declaration Submitted After Initial Filing (surcharge (37 C.F	.R. § 1.16(f)) required)	
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(Title of the Ir		
As a below named inventor, I hereby declare that:	reomany	
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This declaration is directed to:		
United States Application Number 16/082,610 filed September 16/082	per 6, 2018, or	
PCT International application number filed on		
The above-identified application was made or authorized to be made b	v ma	
believe I am the original inventor or an original joint inventor of a claim	•	
hereby acknowledge that any willful false statement made in this decl		S.C. 1001
by fine or imprisonment of not more than five (5) years, or both.	***************************************	***************************************
WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an in	nvention in the Application identifi	ed above.
WHEREAS, TEKNOLOGIAN TUTKIMUSKESKUS VTT OY (hereinafte Vuorimiehentie 3, Espoo, FINLAND, 02150, is desirous of acquiring an		n office and place of business
NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or of which are hereby acknowledged, the said ASSIGNOR by these presenses assigned in the said ASSIGNOR by these presentatives, ASSIGNEE, its successors, assigned, and legal representatives, ASSIGAmerica and all foreign countries, in and to the invention as described subsequent applications based thereon including any and all continuated resulting patents, together with the right of priority under the International Convention Relating to Patents, Designed and Industrial Modestates of America adheres, and the ASSIGNOR hereby authorizes and Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its subagreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented as ASSIGNEE with respect to this invention:	sents hereby sells, assigns, and to NOR'S entire right, title and intention the aforesaid application, and filters, divisions, reissues, and subtional Convention for the Protectivels, and any other international act requests the Commissioner of Foccessors, assigns, and legal represented only ASSIGNEE and with	ansfers unto the said est in the United States of o the said application and to all stitutes of said application, and on of Industrial Property, Interpreements to which the United atents and Trademarks to issues estatives. It is understood at a continue to represent only
ASSIGNOR hereby agrees to transfer a like interest upon request of sa representatives, and without further remuneration, in and to any impro- of or related to the said invention;		
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ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without for ASSIGNEE, for the filing and granting of foreign applications and the p		

I/We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR §1.56.

GRIGORAS

24,9,2018

24. 92018

Date:

Kestutis

Inventor's Signature:

Signature of witness:

Witnessed by: Name: Doc code: Oath

Document Description: Oath or declaration filed Attorney Docket Number GPK-227-273 First Named Inventor PRUNNILA, Mika INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) USING AN APPLICATION DATA SHEET (37 CFR 1.76) Declaration Submitted With Initial Filing OR Declaration Submitted After Initial Filing (surcharge (37 C.F.R. § 1.16(f)) required) THERMOELECTRIC DEVICE (Title of the Invention) As a below named inventor, I hereby declare that: This declaration is directed to: the attached application, or United States Application Number 16/082,610 filed September 6, 2018, or PCT International application number filed on 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 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. WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in the Application identified above. WHEREAS, TEKNOLOGIAN TUTKIMUSKESKUS VTT OY (hereinafter ASSIGNEE), an entity, having an office and place of business at Vuorimiehentie 3, Espoo, FINLAND, 02150, is desirous of acquiring an interest therein; NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention; ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention; ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filling and granting of foreign applications and the perfecting of title thereto in ASSIGNEE. AGREED and executed as noted below: Legal Name of Additional Joint Inventor, if any: (E.g., Given Name (first and middle (if any)) and Family Name or Surname) SHCHEPETOV Andrey Inventor's Signature: Date: Witnessed by:

I/We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR §1.56.

Date:

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Signature of witness:

Name: