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PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	RESUBMISSION
NATURE OF CONVEYANCE:	ASSIGNMENT
RESUBMIT DOCUMENT ID:	507401488

CONVEYING PARTY DATA

Name	Execution Date
ANTTI KERANEN	06/27/2022
TERO HEIKKINEN	06/21/2022
PASI KORHONEN	06/21/2022
PALVI APILO	06/27/2022
MIKKO HEIKKINEN	06/21/2022
JARMO SAASKI	06/22/2022
PAAVO NISKALA	06/21/2022
VILLE WALLENIUS	06/21/2022
HEIKKI TUOVINEN	06/21/2022
JANNE ASIKKALA	06/29/2022
TANELI SALMI	06/22/2022
SUVI KELA	06/21/2022
OUTI RUSANEN	06/28/2022
JOHANNA JUVANI	06/21/2022
MIKKO SIPPARI	06/21/2022
TOMI SIMULA	06/21/2022
TAPIO RAUTIO	06/22/2022
SAMULI YRJANA	07/07/2020
TERO RAJANIEMI	06/21/2022
SIMO KOIVIKKO	06/22/2022
JUHA-MATTI HINTIKKA	06/27/2022
HASSE SINIVAARA	07/08/2022
VINSKI BRAYSY	06/22/2022
OLIMPIA MIGLIORE	06/21/2022
JUHA SEPPONEN	06/21/2022

RECEIVING PARTY DATA

Name:	TACTOTEK OY
Street Address:	AUTOMAATIOTIE 1,
City:	OULUNSALO

State/Country:	FINLAND
Postal Code:	90460

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17856959

CORRESPONDENCE DATA

Fax Number: (631)501-3526

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: 6315015700

Email: kdugo@carterdeluca.com

Correspondent Name: CARTER DELUCA & FARRELL LLP

Address Line 1:576 BROAD HOLLOW ROADAddress Line 4:MELVILLE, NEW YORK 11747

ATTORNEY DOCKET NUMBER:	44605-47 TK1
NAME OF SUBMITTER:	ROBERT P. MICHAL
SIGNATURE:	/Robert P. Michal/
DATE SIGNED:	08/31/2022

Total Attachments: 25

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TITLE OF	Optically functionally multilayer structure suital	ole for large area illumination and
INVENTION:	related method of manufacture	
As the below named inventor, I hereby declare that:		
This declaration is directed to		
☐ The attached application,☐ United States application	or PCT international application number	filed on
The above-identified applicat	on was made or authorized to be made by me.	
I believe that I am the origina	inventor or an original joint inventor of a claimed inventor	ention in the application.
I hereby acknowledge that an imprisonment of not more that	willful false statement made in this declaration is puning five (5) years, or both.	ishable under 18 U.S. C. § 1001 by fine or
	v-identified Inventor, have invented certain new and used in the above-identified patent application(s) and/or p	
WHEREAS, <u>TactoTek Oy</u> (hereinafter "Assignee") having place of business at: <u>Automaatiotie 1, 90460 Oulunsalo</u> , <u>Finland</u> , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States or its territorial possessions and in any and all foreign countries;		
NOW, this indenture witnesseth, that in consideration of the sum of ONE DOLLAR (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration;		
I hereby assign, sell and transfer my above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention, and in and to any and all reissues and reexaminations thereof, which may be granted or have granted for said Invention, and in and to any and all priority rights, Convention rights, 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 said Assignee;		
	and request the Commissioner of Patents and Trademark id Invention to said Assignee, as assignee of the whole	
And I further agree to sign and execute all necessary and lawful further documents, including applications for foreign patents, for filing divisions, continuations, and continuations-in-part of said application for patent and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its successors and designees may from time to time require and prepare at its own expense.		
The undersigned hereby grants the firm of CARTER, DELUCA & FARRELL LLP, located at 576 Broad Hollow Road, Melville, New York 11747, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.		
LEGAL NAME OF INVENTOR Signature: Date: 27 Date: 2		

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

	TITLE OF	Onticelly & metionally possible on attraction as a second	ala fautama ana illumination and	
	INVENTION:	Optically functionally multilayer structure suitable related method of manufacture	ole for large area murnination and	
	As the below named inventor, I hereby declare that:			
	This declaration is directed to:			
	The attached application, or United States application or	PCT international application number	filed on	
	The above-identified applicatio	n was made or authorized to be made by me.		
	I believe that I am the original i	inventor or an original joint inventor of a claimed inve	ntion in the application.	
	I hereby acknowledge that any imprisonment of not more than	willful false statement made in this declaration is punifive (5) years, or both.	shable under 18 U.S. C. § 1001 by fine or	
	WHEREAS, I, the below- identified above and described	identified Inventor, have invented certain new and used in the above-identified patent application(s) and/or patent application (s).	eful improvements in the Invention atent(s) (hereinafter "Invention");	
	WHEREAS, <u>TactoTek Oy</u> (hereinafter "Assignee") having place of business at: <u>Automaatiotie 1, 90460 Oulunsalo</u> , <u>Finland</u> , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States or its territorial possessions and in any and all foreign countries;			
	NOW, this indenture witnesseth, that in consideration of the sum of ONE DOLLAR (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration;			
	I hereby assign, sell and transfer my above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention, and in and to any and all reissues and reexaminations thereof, which may be granted or have granted for said Invention, and in and to any and all priority rights, Convention rights, 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 said Assignee:			
	And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any Untied States Letters Patent which my issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;			
	And I further agree to sign and execute all necessary and lawful further documents, including applications for foreign patents, for filing divisions, continuations, and continuations-in-part of said application for patent and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its successors and designees may from time to time require and prepare at its own expense.			
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	LEGAL NAME	ignature:	Date: 21.6.2022	

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

TITLE OF	Optically functionally multilayer structure suita	hts for large area illumination and
INVENTION:	INVENTION: related method of manufacture	
As the below named inventor, I hereby declare that:		
This declaration is directed to	:	
☐ United States application	or PCT international application number	filed on
The above-identified applica	ion was made or authorized to be made by me.	
I believe that I am the origin	I inventor or an original joint inventor of a claimed inv	ention in the application.
I hereby acknowledge that an imprisonment of not more th	y willful false statement made in this declaration is pur in five (5) years, or both.	nishable under 18 U.S. C. § 1001 by fine or
	w-identified Inventor, have invented certain new and used in the above-identified patent application(s) and/or p	
WHEREAS, <u>TactoTek Oy</u> (hereinafter "Assignee") having place of business at: <u>Automaatiotie 1, 90460 Oulunsalo</u> , <u>Finland</u> , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States or its territorial possessions and in any and all foreign countries;		
NOW, this indenture witnesseth, that in consideration of the sum of ONE DOLLAR (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration;		
I hereby assign, sell and transfer my above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention, and in and to any and all reissues and reexaminations thereof, which may be granted or have granted for said Invention, and in and to any and all priority rights, Convention rights, 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 said Assignee;		
And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any Untied States Letters Patent which my issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;		
And I further agree to sign and execute all necessary and lawful further documents, including applications for foreign patents, for filing divisions, continuations, and continuations-in-part of said application for patent and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its successors and designees may from time to time require and prepare at its own expense.		
The undersigned hereby grants the firm of CARTER, DELUCA & FARRELL LLP, located at 576 Broad Hollow Road, Melville, New York 11747, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.		
LEGAL NAME OF INVENTOR	Inventor: Pasi KORHONEN Signature:	Date: 21 6. 2022

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

	TOTAL TO OF		
	TITLE OF	Optically functionally multilayer structure suit	able for large area illumination and
_	INVENTION:	related method of manufacture	able for large area mummation and
	As the below named inventor, I hereby declare that:		
	This declaration is directed t) :	
	☐ The attached application United States application	or Or PCT international application number	filed on
		tion was made or authorized to be made by me.	
	I believe that I am the origin	l inventor or an original joint inventor of a claimed inv	vention in the application.
L	I hereby acknowledge that an imprisonment of not more the	y willful false statement made in this declaration is pur an five (5) years, or both.	nishable under 18 U.S. C. § 1001 by fine or
	WHEREAS, I, the belo identified above and describ	w-identified Inventor, have invented certain new and u ed in the above-identified patent application(s) and/or	seful improvements in the Invention patent(s) (hereinafter "Invention");
	WHEREAS, <u>TactoTek Oy</u> (hereinafter "Assignee") having place of business at: <u>Automaatiotie I, 90460 Oulunsalo</u> , <u>Finland</u> , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States or its territorial possessions and in any and all foreign countries;		
	NOW, this indenture witnesseth, that in consideration of the sum of ONE DOLLAR (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration;		
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	And I hereby authorize Patent which my issue for sa	and request the Commissioner of Patents and Trademanid Invention to said Assignee, as assignee of the whole	rks to issue any Untied States Letters right, title and interest thereto;
	And I further agree to sign and execute all necessary and lawful further documents, including applications for foreign patents, for filing divisions, continuations, and continuations-in-part of said application for patent and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its successors and designees may from time to time require and prepare at its own expense.		
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	LEGAL NAME OF INVENTOR Inventor: Pälvi APILO Signature: Pun Ap		

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

			
	TITLE OF	Optically functionally multilayer structure suitab	olo for large area illumination and
	INVENTION:	related method of manufacture	ble for large area murnination and
ſ	As the below named inventor, I hereby declare that:		
	This declaration is directed to	:	
	☐ The attached application, ☐ United States application	or Or PCT international application number	filed on
	The above-identified applica	ion was made or authorized to be made by me.	
	I believe that I am the origina	l inventor or an original joint inventor of a claimed inve	ntion in the application.
	I hereby acknowledge that an imprisonment of not more that	y willful false statement made in this declaration is puni in five (5) years, or both.	shable under 18 U.S. C. § 1001 by fine or
	WHEREAS, I, the below-identified Inventor, 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 "Invention");		
	WHEREAS, <u>TactoTek Oy</u> (hereinafter "Assignee") having place of business at: <u>Automaatiotie 1, 90460 Oulunsalo</u> , <u>Finland</u> , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States or its territorial possessions and in any and all foreign countries;		
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	And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any Untied States Letters Patent which my issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;		
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	LEGAL NAME OF INVENTOR	Inventor: Mikko HEIKKINEN Signature:	Date: 21,6,2022

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

TITLE OF INVENTION:	Optically functionally multilayer structure suitable related method of manufacture	for large area diumination and
As the below named inventor	r. I hereby declare that:	
This declaration is directed	Ω	
☐ The attached application☐ United States application	or or PCT international application number	filed on
The above identified applica	ation was made or authorized to be made by me.	
I believe that I am the origin	sal inventor or an original joint inventor of a claimed inve	ntion in the application.
Thereby schooledge that or imprissioners of not mor	ny willful (alse statement made in this declaration is puri e than five (5) years, or both	ishable under 18 U.S. C. § 1001 by fine
WHEREAS, I, the below identified above and describe	identified Inventor, have invented certain new and useful in the above-identified patent application(s) and/or patent	il improvements in the Invention ent(s) (hereinafter "Invention");
Rintmat is decisions at your	(hereinafter "Assignee") having place of business at: uring the entire right, title and interest in and to said into in the United States or its territorial possessions and in a	ention and in and to any Letters Palent
hereby acknowledged, and f	nesseth, that in consideration of the sum of (INE DOLL) or other good and valuable consideration,	
Thereby assign, sell and transfer my above-identified rights, title and interest in said invention, and application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Parent of the United States, and countries foreign thereto, which may be granted for said invention, and in and to any and all reissues and reexaminations thereof, which may be granted or have grunted for said invention, and in and to any and all priority rights. Convention rights, and other benefits accruing or to accrue to or with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unito said Assignee.		
And I hereby authorize Patent which my issue for a	and request the Commissioner of Patents and Trademarks ad Invention to said Assignee, as assignee of the whole r	s to issue any United States Letters ight, title and inserest thereto.
And I further agree to sign and execute all necessary and lawful further documents, including applications for foreign patents, for filling divisions, continuations, and continuations-in-part of said application for patent and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assigner or its successors and designees may from time to time require and prepare at its own expense.		
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LEGALNAME	Inventor: Jamio SAASKI	Date: 22.6. 2022
OF INVENTOR	Signature: 144	AME.

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

TITLE OF	Optically functionally multilayer structure suitab	ole for large area illumination and	
INVENTION:	related method of manufacture	•	
As the below named inventor,	I hereby declare that:		
This declaration is directed to			
The attached application, on United States application of	or PCT international application number	filed on	
The above-identified applicati	on was made or authorized to be made by me.		
I believe that I am the original	inventor or an original joint inventor of a claimed inve	ntion in the application.	
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WHEREAS, <u>TactoTek Oy</u> (hereinafter "Assignee") having place of business at: <u>Automaatiotie 1, 90460 Oulunsalo</u> , <u>Finland</u> , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States or its territorial possessions and in any and all foreign countries;			
NOW, this indenture witnesseth, that in consideration of the sum of ONE DOLLAR (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration;			
I hereby assign, sell and transfer my above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention, and in and to any and all reissues and reexaminations thereof, which may be granted or have granted for said Invention, and in and to any and all priority rights, Convention rights, 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 said Assignee;			
	nd request the Commissioner of Patents and Trademark d Invention to said Assignee, as assignee of the whole		
And I further agree to sign and execute all necessary and lawful further documents, including applications for foreign patents, for filing divisions, continuations, and continuations-in-part of said application for patent and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its successors and designees may from time to time require and prepare at its own expense.			
Melville, New York 11747,	The undersigned hereby grants the firm of CARTER, DELUCA & FARRELL LLP, located at 576 Broad Hollow Road, Melville, New York 11747, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.		
OF INVENTOR Inventor: Paavo NISKALA Signature: Tank Whele Date: 21.6.2027			

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

> PATENT REEL: 060952 FRAME: 0414

. 4

TITLE OF				
INVENTION:	Optically functionally multilayer structure suitable related method of manufacture	ple for large area illumination and		
<u> </u>	As the below named inventor, I hereby declare that:			
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identified above, including an Patent of the United States, an reissues and reexaminations the priority rights, Convention rig	I hereby assign, sell and transfer my above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention, and in and to any and all reissues and reexaminations thereof, which may be granted or have granted for said Invention, and in and to any and all priority rights, Convention rights, 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 said Assignee;			
	And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any Untied States Letters Patent which my issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;			
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LEGAL NAME OF INVENTOR S	1//1/4 Detail (20/2)			

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

TITLE OF	Optically functionally multilayer structure suitab	ole for large area illumination and	
INVENTION:	related method of manufacture		
As the below named inventor	I hereby declare that:		
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I believe that I am the origina	inventor or an original joint inventor of a claimed inve	ntion in the application.	
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Finland, is desirous of acqu	(hereinafter "Assignee") having place of business at iring the entire right, title and interest in and to said invented the United States or its territorial possessions and in any	ention and in and to any Letters Patent that	
NOW, this indenture wi hereby acknowledged, and f	messeth, that in consideration of the sum of ONE DOLI or other good and valuable consideration;	LAR (\$1.00), the receipt of which is	
identified above, including a Patent of the United States, a reissues and reexaminations priority rights, Convention r	I hereby assign, sell and transfer my above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention, and in and to any and all reissues and reexaminations thereof, which may be granted or have granted for said Invention, and in and to any and all priority rights, Convention rights, 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 said Assignee;		
	And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any Untied States Letters Patent which my issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;		
And I further agree to sign and execute all necessary and lawful further documents, including applications for foreign patents, for filing divisions, continuations, and continuations-in-part of said application for patent and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its successors and designees may from time to time require and prepare at its own expense.			
The undersigned hereby grants the firm of CARTER, DELUCA & FARRELL LLP, located at 576 Broad Hollow Road, Melville, New York 11747, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.			
OF INVENTOR	Inventor: Heikki TUOVINEN	Date: 21.6.2022	

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD **MELVILLE, NEW YORK 11747**

Signature:

r	a control of the cont
TITLE OF	Optically functionally multilayer structure suitable for large area illumination and
INVENTION:	related method of manufacture
As the below named inventor	, I hereby declare that:
This declaration is directed to	
The attached application, United States application	or PCT international application number
)	on was made or authorized to be made by me.
	inventor or an original joint inventor of a claimed invention in the application
I hereby acknowledge that an imprisonment of not more tha	willful false statement made in this dark in the state of
WHEREAS, I, the below- identified above and described	identified Inventor, have invented certain new and useful improvements in the invention in the above-identified patent application(s) and/or patent(s) (hereinafter "invention").
WHEREAS, <u>TactoTek Oy</u> <u>Finland</u> , is desirous of acqui	(hereinafter "Assignee") having place of business at: <u>Automonations 1, 90460 Cultursatoring</u> the entire right, title and interest in and to said invention and in and to any Letters Patent that a United States or its territorial possessions and in any and all foreign countries.
NOW, this indenture with	esseth, that in consideration of the sum of ONE DOLLAR (\$1.00), the receipt of which is hereby good and valuable consideration;
dentified above, including any Patent of the United States, and reissues and reexaminations the rights, Convention rights, and	ransfer my above-identified rights, title and interest in said Invention, said application(s) as y divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters d countries foreign thereto, which may be granted for said Invention, and in and to any and all iereof, which may be granted or have granted for said Invention, and in and to any and all priority other benefits accruing or to accrue to us with respect to the filing of applications for patents or ed States and countries foreign thereto, unto said Assignee.
And I hereby authorize an which my issue for said Invent	d request the Commissioner of Patents and Trademarks to issue any United States Letters Patent ion to said Assignee, as assignee of the whole right, title and interest thereto;
atents, for filing divisions, co cissue or reissues of any Lette	and execute all necessary and lawful further documents, including applications for foreign intimuations, and continuations-in-part of said application for patent and/or for obtaining any rs Patent which may be granted for my aforesaid Invention, as the Assignee or its auccessors and ne require and prepare at its own expense.
Melville, New York 11747, the	the firm of CARTER, DELUCA & FARRELL LLP, located at 576 Broad Hollow Road, power to insert on this assignment any further identification which may be necessary or the the rules of the United States Patent Office for recordation of this document.
EGAL NAME In	ventor: Janne ASIKKALA

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

OF INVENTOR

Signature:

	TITLE OF			
1	INVENTION:		Optically functionally multilayer structure suital related method of manufacture	ole for large area illumination and
As th	e below named invento	r, I	hereby declare that:	
This	declaration is directed	o:		
	he attached application nited States application		PCT international application number	filed on
The a	bove-identified applica	tion	was made or authorized to be made by me.	
I beli	eve that I am the origin	al in	ventor or an original joint inventor of a claimed inve	ention in the application.
	eby acknowledge that a sonment of not more th		villful false statement made in this declaration is punitive (5) years, or both.	ishable under 18 U.S. C. § 1001 by fine or
			dentified Inventor, have invented certain new and use in the above-identified patent application(s) and/or p	
Fin	WHEREAS, <u>TactoTek Oy</u> (hereinaster "Assignee") having place of business at: <u>Automaatiotie 1, 90460 Oulunsalo</u> , <u>Finland</u> , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States or its territorial possessions and in any and all foreign countries;			
here	NOW, this indenture witnesseth, that in consideration of the sum of ONE DOLLAR (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration;			
iden Pate reiss prior	I hereby assign, sell and transfer my above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention, and in and to any and all reissues and reexaminations thereof, which may be granted or have granted for said Invention, and in and to any and all priority rights, Convention rights, 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 said Assignee;			
Pate	And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any Untied States Letters Patent which my issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;			
pate: reiss	And I further agree to sign and execute all necessary and lawful further documents, including applications for foreign patents, for filing divisions, continuations, and continuations-in-part of said application for patent and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its successors and designees may from time to time require and prepare at its own expense.			
Mel	The undersigned hereby grants the firm of CARTER, DELUCA & FARRELL LLP, located at 576 Broad Hollow Road, Melville, New York 11747, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.			
1	Date: 10022			

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

TITLE OF	Optically for a binary livery life year at a set year which	la faulage and illumination and	
INVENTION:	Optically functionally multilayer structure suitab related method of manufacture	ne for large area illumination and	
As the below named inventor, I hereby declare that:			
This declaration is directed to			
☐ The attached application,☐ United States application	r PCT international application number	filed on	
The above-identified applicat	on was made or authorized to be made by me.		
I believe that I am the origina	inventor or an original joint inventor of a claimed inventor	ntion in the application.	
I hereby acknowledge that an imprisonment of not more that	willful false statement made in this declaration is punis a five (5) years, or both.	shable under 18 U.S. C. § 1001 by fine or	
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	And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any Untied States Letters Patent which my issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;		
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LEGAL NAME OF INVENTOR	nventor: Suvi KELA Signature: SW LM	Date: 21 6. 2022	

CARTER, DELUCA & FARRELL LLP **576 BROAD HOLLOW ROAD** MELVILLE, NEW YORK 11747

TITLE OF	Ontically functionally multilayer structure suitab	la far large area illumination and		
INVENTION:	Optically functionally multilayer structure suitable related method of manufacture	ie for large area illumination and		
As the below named inventor	As the below named inventor, I hereby declare that:			
This declaration is directed to	:			
☐ United States application	or PCT international application number	filed on		
The above-identified applicat	on was made or authorized to be made by me.			
I believe that I am the origina	inventor or an original joint inventor of a claimed inven	ntion in the application.		
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	v-identified Inventor, have invented certain new and use ed in the above-identified patent application(s) and/or pa			
Finland, is desirous of acqu	WHEREAS, <u>TactoTek Oy</u> (hereinaster "Assignee") having place of business at: <u>Automaatiotie 1, 90460 Oulunsalo</u> , <u>Finland</u> , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States or its territorial possessions and in any and all foreign countries;			
	NOW, this indenture witnesseth, that in consideration of the sum of ONE DOLLAR (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration;			
I hereby assign, sell and transfer my above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention, and in and to any and all reissues and reexaminations thereof, which may be granted or have granted for said Invention, and in and to any and all priority rights, Convention rights, 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 said Assignee;				
And I hereby authorize a Patent which my issue for sa	And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any Untied States Letters Patent which my issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;			
And I further agree to sign and execute all necessary and lawful further documents, including applications for foreign patents, for filing divisions, continuations, and continuations-in-part of said application for patent and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its successors and designees may from time to time require and prepare at its own expense.				
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	Inventor: Outi RUSANEN Signature: IM RUSANIN	Date: <u>JUNC 26, 1022</u>		

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD **MELVILLE, NEW YORK 11747**

	TITLE OF			
	INVENTION:	Optically functionally multilayer structure suitable related method of manufacture	ole for large area illumination and	
	As the below named inventor, I hereby declare that:			
	This declaration is directed to:	:		
	☑ The attached application, o☑ United States application o	or Or PCT international application number	filed on	
	The above-identified applicati	on was made or authorized to be made by me.		
	I believe that I am the original	inventor or an original joint inventor of a claimed inve	ention in the application.	
	I hereby acknowledge that any imprisonment of not more than	y willful false statement made in this declaration is puni n five (5) years, or both.	ishable under 18 U.S. C. § 1001 by fine or	
	WHEREAS, I, the below identified above and describe	v-identified Inventor, have invented certain new and used in the above-identified patent application(s) and/or patent	eful improvements in the Invention atent(s) (hereinafter "Invention");	
	WHEREAS, <u>TactoTek Oy</u> (hereinafter "Assignee") having place of business at: <u>Automaatiotie 1, 90460 Oulunsalo</u> , <u>Finland</u> , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States or its territorial possessions and in any and all foreign countries;			
	NOW, this indenture witnesseth, that in consideration of the sum of ONE DOLLAR (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration;			
	I hereby assign, sell and transfer my above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention, and in and to any and all reissues and reexaminations thereof, which may be granted or have granted for said Invention, and in and to any and all priority rights, Convention rights, 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 said Assignee;			
	And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any Untied States Letters Patent which my issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;			
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	LEGAL NAME	Inventor: Johanna JUVANI	Date: 21.6.2022	
١	OF INVENTOR	Signatura 2. Du	Date	

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

Signature:_

TITLE OF	Optically functionally multilayer structure suitab	ale for large area illumination and	
INVENTION:	related method of manufacture	bie for large area murnination and	
As the below named inventor, I hereby declare that:			
This declaration is directed to:			
☑ The attached application, o☑ United States application o	or PCT international application number	_ filed on	
The above-identified applicati	on was made or authorized to be made by me.		
I believe that I am the original	inventor or an original joint inventor of a claimed inve	ention in the application.	
I hereby acknowledge that any imprisonment of not more than	willful false statement made in this declaration is puning five (5) years, or both.	shable under 18 U.S. C. § 1001 by fine or	
	v-identified Inventor, have invented certain new and use ed in the above-identified patent application(s) and/or pa		
WHEREAS, <u>TactoTek Oy</u> (hereinafter "Assignee") having place of business at: <u>Automaatiotie 1, 90460 Oulunsalo</u> , <u>Finland</u> , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States or its territorial possessions and in any and all foreign countries;			
NOW, this indenture witnesseth, that in consideration of the sum of ONE DOLLAR (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration;			
I hereby assign, sell and transfer my above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention, and in and to any and all reissues and reexaminations thereof, which may be granted or have granted for said Invention, and in and to any and all priority rights, Convention rights, 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 said Assignee;			
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LEGAL NAME OF INVENTOR Signature: UC 5 Date: 21.6.2022			

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

TITLE OF	Optically functionally multilayer structure suital	alo for large area illumination and		
INVENTION:	related method of manufacture	ne for large area munimation and		
As the below named inventor,	As the below named inventor, I hereby declare that:			
This declaration is directed to:				
The attached application, on United States application of	r PCT international application number	filed on		
The above-identified applicati	on was made or authorized to be made by me.			
I believe that I am the original	inventor or an original joint inventor of a claimed inventor	ention in the application.		
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Finland, is desirous of acqui	WHEREAS, <u>TactoTek Oy</u> (hereinafter "Assignee") having place of business at: <u>Automaatiotie 1, 90460 Oulunsalo</u> , <u>Finland</u> , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States or its territorial possessions and in any and all foreign countries;			
NOW, this indenture with hereby acknowledged, and for	NOW, this indenture witnesseth, that in consideration of the sum of ONE DOLLAR (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration;			
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	nd request the Commissioner of Patents and Trademark d Invention to said Assignee, as assignee of the whole			
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LEGAL NAME	nventor: Tomi SIMULA Signature:	Date: 2022 - 16 - 2/		

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

	TITLE OF		Out of the first of the second	ale for leave and the minetic and
	INVENTION:		Optically functionally multilayer structure suital related method of manufacture	ble for large area illumination and
Γ	As the below named inventor, I hereby declare that:			
	This declaration is directed to	0:		
	The attached application, Dunited States application		CT international application number	filed on
	The above-identified applica	tion '	was made or authorized to be made by me.	
	I believe that I am the origina	al inv	ventor or an original joint inventor of a claimed inve	ntion in the application.
	I hereby acknowledge that ar imprisonment of not more the		illful false statement made in this declaration is punive (5) years, or both.	shable under 18 U.S. C. § 1001 by fine or
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	LEGAL NAME OF INVENTOR			

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

TITLE OF	Optically functionally multilayer structure suitab	le for large area illumination and		
INVENTION:	INVENTION: related method of manufacture			
As the below named inventor	, I hereby declare that:			
This declaration is directed to	:			
The attached application, United States application	or or PCT international application number	_ filed on		
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LEGAL NAME OF INVENTOR	nventor: Samuli YRJÄNÄ	Date: 07.07,2020		

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD **MELVILLE, NEW YORK 11747**

Signature: Sw

OF INVENTOR

	TITLE OF	Optically functionally multilayer structure suital	ole for large area illumination and	
	INVENTION:	related method of manufacture		
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	This declaration is directed to	:		
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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, I, the below-identified Inventor, 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 "Invention");			
	WHEREAS, <u>TactoTek Oy</u> (hereinafter "Assignee") having place of business at: <u>Automaatiotie 1, 90460 Oulunsalo</u> , <u>Finland</u> , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States or its territorial possessions and in any and all foreign countries;			
	NOW, this indenture witnesseth, that in consideration of the sum of ONE DOLLAR (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration;			
	I hereby assign, sell and transfer my above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention, and in and to any and all reissues and reexaminations thereof, which may be granted or have granted for said Invention, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filling of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;			
	And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any Untied States Letters Patent which my issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;			
	And I further agree to sign and execute all necessary and lawful further documents, including applications for foreign patents, for filing divisions, continuations, and continuations-in-part of said application for patent and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its successors and designees may from time to time require and prepare at its own expense.			
	The undersigned hereby grants the firm of CARTER, DELUCA & FARRELL LLP, located at 576 Broad Hollow Road, Melville, New York 11747, the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document.			
	LEGAL NAME	Inventor: Tero RAJANIEMI	Date: 21.6.2022	
1	OF INVENTOR	Ciamatama		

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

Signature:

TITLE OF		1.6		
INVENTION:	Optically functionally multilayer structure suitable related method of manufacture	ole for large area illumination and		
As the below named inventor	As the below named inventor, I hereby declare that:			
This declaration is directed to	:			
The attached application, United States application	or or PCT international application number	filed on		
The above-identified applica	ion was made or authorized to be made by me.			
I believe that I am the origina	l inventor or an original joint inventor of a claimed inve	ntion 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, I, the belo identified above and describ	w-identified Inventor, have invented certain new and use ed in the above-identified patent application(s) and/or p	eful improvements in the Invention atent(s) (hereinafter "Invention");		
Finland, is desirous of acq	WHEREAS, <u>TactoTek Oy</u> (hereinaster "Assignee") having place of business at: <u>Automaatiotie 1, 90460 Oulunsalo</u> , <u>Finland</u> , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States or its territorial possessions and in any and all foreign countries;			
	tnesseth, that in consideration of the sum of ONE DOLI or other good and valuable consideration;	LAR (\$1.00), the receipt of which is		
I hereby assign, sell and transfer my above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention, and in and to any and all reissues and reexaminations thereof, which may be granted or have granted for said Invention, and in and to any and all priority rights, Convention rights, 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 said Assignee;				
	And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any Untied States Letters Patent which my issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;			
And I further agree to sign and execute all necessary and lawful further documents, including applications for foreign patents, for filing divisions, continuations, and continuations-in-part of said application for patent and/or for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its successors and designees may from time to time require and prepare at its own expense.				
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LEGAL NAME	Inventor: Simo KOIVIKKO	Date: 22.6.2022		
OF INVENTOR	s:	<u> </u>		

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

Signature: 5=

	TITLE OF			
	INVENTION:	Optically functionally multilayer structure suitable for large area illumination and related method of manufacture		
	As the below named inventor, I hereby declare that:			
	This declaration is directed to	:		
	∑ The attached application, or ☐ United States application or PCT international application number filed on			
	The above-identified applica	ion was made or authorized to be made by me.		
	I believe that I am the origina	I 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, I, the below-identified Inventor, 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 "Invention");			
	WHEREAS, <u>TactoTek Oy</u> (hereinafter "Assignee") having place of business at: <u>Automaatiotie 1, 90460 Oulunsalo</u> , <u>Finland</u> , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States or its territorial possessions and in any and all foreign countries;			
	NOW, this indenture witnesseth, that in consideration of the sum of ONE DOLLAR (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration;			
	I hereby assign, sell and transfer my above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted for said Invention, and in and to any and all reissues and reexaminations thereof, which may be granted or have granted for said Invention, and in and to any and all priority rights, Convention rights, 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 said Assignee;			
	And I hereby authorize and request the Commissioner of Patents and Trademarks to issue any Untied States Letters Patent which my issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;			
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	LEGAL NAME	Inventor: Juha-Matti HINTIKKA Date: 216 2055		
	OF INVENTOR	Signature: Ma - Uto Date: _ A 1 6 . At 2		

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TITLE OF	Optically 6 antically and billion at a second of the first of the second		
INVENTION:	Optically functionally multilayer structure suitable for large area illumination and related method of manufacture		
As the below named inventor			
This declaration is directed to	:		
The attached application, United States application	or PCT international application number filed on		
The above-identified applica	ion was made or authorized to be made by me.		
I believe that I am the origina	l inventor or an original joint inventor of a claimed invention in the application.		
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Finland, is desirous of acqu	WHEREAS, <u>TactoTek Oy</u> (hereinafter "Assignee") having place of business at: <u>Automatiotie 1, 90460 Oulunsalo</u> , <u>Finland</u> , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States or its territorial possessions and in any and all foreign countries;		
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LEGAL NAME OF INVENTOR	Inventor: Hasse SINIVAARA Signature: Date: 8, 7, 2022		

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

TITLE OF	Ontically functionally my still your characters and		
INVENTION:	Optically functionally multilayer structure suital related method of manufacture	ole for large area illumination and	
As the below named inventor,	I hereby declare that:		
This declaration is directed to:			
The attached application, of United States application of	or PCT international application number	filed on	
The above-identified application	on was made or authorized to be made by me.		
I believe that I am the original	inventor or an original joint inventor of a claimed in	vention in the application.	
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WHEREAS, <u>TactoTek Oy</u> (hereinafter "Assignee") having place of business at: <u>Automaatiotie 1, 90460 Oulunsalo</u> , <u>Finland</u> , is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States or its territorial possessions and in any and all foreign countries;			
NOW, this indenture withe acknowledged, and for other go	esseth, that in consideration of the sum of ONE DOL could and valuable consideration;	LAR (\$1.00), the receipt of which is hereby	
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LEGAL NAME In	ventor: Vinski BRÄYSY		

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

Signature: // /

OF INVENTOR

PATENT REEL: 060952 FRAME: 0430

Date: 22.6.2022

TITLE OF	Optically functionally multilayer structure suitat	ale for large area illumination and	
INVENTION:	related method of manufacture	ne for large area multimation and	
As the below named inventor,	hereby declare that:		
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NOW, this indenture witnesseth, that in consideration of the sum of ONE DOLLAR (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration;			
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OF INVENTOR	nventor: Olimpia MIGLIORE	Date: 21/0.6/2022	

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

IIILE OF	Continue to the same of the sa		l
INVENTION:	Optically functionally multilayer structure suita related method of manufacture	ble for large area illumination and	
As the below named invent	or, I hereby declare that:		L
This declaration is directed	to:		
The attached application, or United States application or PCT international application number filed on			
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desirable in order to comply	ts the firm of CARTER, DELUCA & FARRELL LLP, he power to insert on this assignment any further identi with the rules of the United States Patent Office for recommendation.	fication which may be necessary or	
	Inventor: Juha SEPPONEN Signature:	Date: 6/21/2022	

CARTER, DELUCA & FARRELL LLP 576 BROAD HOLLOW ROAD MELVILLE, NEW YORK 11747

> PATENT REEL: 060952 FRAME: 0432

RECORDED: 07/25/2022