505689338 09/25/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5736148

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RICHARD WHITE	04/27/2016

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15779015

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SIGNATURE:	/BRIAN P. O'SHAUGHNESSY/	
DATE SIGNED:	09/25/2019	

Total Attachments: 2

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> **PATENT** REEL: 050482 FRAME: 0977 505689338

ASSIGNMENT

I/we, (The ASSIGNOR(S)):

Richard White

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, hereby assign to (hereafter referred to as The ASSIGNEE):

Nokia Technologies OY Karaportti 3 02610 Espoo Finland

An invention entitled (invention Title):

A QUANTUM DOT PHOTODETECTOR APPARATUS AND ASSOCIATED METHODS

,	a national Patent Application No.	filed on	
<u>x</u>	European Patent Application No. 161	<u>62244.4</u> filed on <u>March 24, 2016</u> .	
oo.	PCT application No.	filed on	
for this i	nvention, executed by the ASSIGNOR(S)		
	U.S. Patent Application Serial No	, filed	
** .:	U.S. Patent No.	, issued	
The PAT	FENT RIGHTS assigned under this agreeme	ent are:	
Χ	U.S. Patent rights		
X	worldwide Patent rights. In this case,	the assignee shall have the right to claim the	e
~	benefit of the filing date of any Patent		
X	the full and exclusive right to the inver		
The ASS	SIGNOR(S) do hereby assign the following to) each ASSIGNEE; their successors and as	signs
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an equal interest in and to the entire right, title and interest in and to the PATENT RIGHTS in the invention, all continuations, continuations-in-part, divisionals, re-issues, and reexamination patents and patent applications; and

the right to claim priority under 35 U.S.C. § 119, based on any earlier foreign applications for this invention.

As to all U.S. Patent Applications assigned under this Agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue all Letters Patent to the ASSIGNEE(S) as the ASSIGNEE(S) of an equal interest in the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE(S), their successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE(S), or their representatives, any facts known to the ASSIGNOR(S) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE(S), make all rightful paths and generally do everything necessary or desirable to aid said ASSIGNEE(S), their successors and assigns, to obtain and enforced proper protection for said invention.

Further, I/We authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filling date, serial number, etc.);

Each Inventor: Please sign and date below:

PATENT REEL: 050482 FRAME: 0978 NC100052

Richard White

Date

Witness Signature

Printed Name ____

MARK ALEN

PATENT REEL: 050482 FRAME: 0979

RECORDED: 09/25/2019