

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
MIKA PESONEN	06/04/2019
SEBASTIAN SCHWARZ	05/27/2019
KIMMO ROIMELA	05/06/2019
RECEIVING PARTY DATA	
Name:	NOKIA TECHNOLOGIES OY
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State/Country:	FINLAND
Postal Code:	02610
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17611243
CORRESPONDENCE DATA	
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<i>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.</i>	
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ATTORNEY DOCKET NUMBER:	316532-US-PCT
NAME OF SUBMITTER:	STACI RUGGIERO
SIGNATURE:	/Staci Ruggiero/
DATE SIGNED:	02/11/2022
Total Attachments: 3	
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source=316532US_Assignment#page3.tif	

ASSIGNMENT - WORLDWIDE

ASSIGNOR(S)

Mika Pesonen, Tampere, Finland**Sebastian Schwarz**, Unterhaching, Germany**Kimmo Roimela**, Tampere, Finland

ASSIGNEE

Nokia Technologies Oy

Karaportti 3, 02610 Espoo, Finland

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the ASSIGNOR(S) agree to assign and hereby assign, sell, transfer and set over to the ASSIGNEE and its successors, assigns and legal representatives, the entire right, title and interest, for United States of America and for all other countries in and to (1) the invention(s) identified by the following title or application number and filing date, and (2) any and all related inventions ("RELATED INVENTIONS" as defined below).

Title: **A METHOD, AN APPARATUS AND A COMPUTER PROGRAM PRODUCT
FOR VOLUMETRIC VIDEO ENCODING AND DECODING**

Application number: **FI 20195425** Filing date: **2019-05-22**
(YYYY-MM-DD)

I/we, the ASSIGNOR(S), hereby authorize and request a representative of the ASSIGNEE to insert the application number and filing date when known/received, after the execution of this document. The ASSIGNOR(S) hereby acknowledge and agree that the ASSIGNEE shall have the right to claim priority, directly or through another patent application, to the application identified above in any and all related patent applications subsequently filed in all jurisdictions.

I/we the ASSIGNOR(S) hereby acknowledge and agree that RELATED INVENTIONS include all national, regional and international patent applications filed and to be filed in any and all jurisdictions, that claim priority to the invention(s) identified by the above title or application number and filing date, said patent applications include all divisionals, continuations, re-issues, re-examinations, and continuations-in-part applications, and RELATED INVENTIONS include all rights and privileges in said patent applications and under any and all letters patent that may be granted in the United States of America and in all other countries resulting from said patent applications.

The ASSIGNOR(S) authorize the ASSIGNEE to make applications for such protection in its own name and maintain such protection in any and all countries including the United States of America, and to invoke and claim for any application for patent or other form of protection for said invention(s), without further authorization from us, any and all benefits, including the rights of priority provided by any and all treaties, conventions, or agreements.

The ASSIGNOR(S) hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of the ASSIGNEE to apply for patent or other form of protection for said invention(s) and to claim the aforesaid benefit of the right of priority.

The ASSIGNOR(S) request that any and all patents for said invention(s) be issued to the ASSIGNEE, its/their successors, assigns and legal representatives, in the United States of America and in all other countries, or to such nominees as the ASSIGNEE may designate.

The ASSIGNOR(S) agree that, when requested, we shall, without charge to the ASSIGNEE sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

In witness whereof, each inventor/assignor please sign and date below:

Inventor (First Middle LAST)	Signature	Date (YYYY-MM-DD)
<u>Mika Pesonen</u>	<u>SSR</u>	<u>2019-05-29</u>
<u>Sebastian Schwarz</u>		
<u>Kimmo Roimela</u>		

This assignment should preferably be signed by the inventor(s) before (a) at least two witnesses who also sign here, or (b) a Notary Public if within the U.S.A.:

Witness Name (First Middle LAST)	Signature	Date (YYYY-MM-DD)
<u>Michael Montag</u>	<u>[Signature]</u>	<u>2019-05-29</u>
<u>Bernhard Kurk</u>	<u>[Signature]</u>	<u>2019-05-29</u>

The ASSIGNEE accepts this assignment:

Name <u>Sebastian Schwarz</u>	Signature <u>SSR</u>
Title <u>Research Leader</u>	Date (YYYY-MM-DD) <u>2019-05-29</u>
Name _____	Signature _____
Title _____	Date (YYYY-MM-DD) _____

The ASSIGNOR(S) agree that, when requested, we shall, without charge to the ASSIGNEE sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

Inventor (First Middle LAST)	Signature	Date (YYYY-MM-DD)
<u>Mika Pesonen</u>	<u>Mika Pesonen</u>	<u>2019-06-19</u>
<u>Sebastian Schwarz</u>	<u>Sebastian Schwarz</u>	<u>2019-06-19</u>
<u>Kimmo Roimela</u>	<u>Kimmo Roimela</u>	<u>2019-06-19</u>

Witness Name (First Middle LAST)	Signature	Date (YYYY-MM-DD)
Vinod Kumar Nalimal Varghese		2019-06-4
Alexei Andriyashin		2019-06-5

Name Claire Andrews
Title Head of Technology Area, Patenting

Name Louis Diep
Title Director, Filing & Prosecution Admin

Signature 
Date (YYYY-MM-DD) 02 JUL 2019

Signature 
Date (YYYY-MM-DD) 02 JUL 2019