

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT6962478

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
AHMAD AWADA	11/18/2019
TIMO KOSKELA	05/07/2019
JORMA KAIKKONEN	05/06/2019
INGO VIERING	11/18/2019
RECEIVING PARTY DATA	
Name:	NOKIA TECHNOLOGIES OY
Street Address:	KARAPORTTI 3
City:	ESPOO
State/Country:	FINLAND
Postal Code:	02610
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	17602938
CORRESPONDENCE DATA	
Fax Number:	
<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>	
Phone:	650-868-6292
Email:	sandy.fong@nokia.com
Correspondent Name:	NOKIA OF AMERICA CORPORATION ATTN: IP DO
Address Line 1:	600-700 MOUNTAIN AVENUE
Address Line 4:	MURRAY HILL, NEW JERSEY 07974-0636
ATTORNEY DOCKET NUMBER:	316684US INV TO NTECH
NAME OF SUBMITTER:	SANDY FONG
SIGNATURE:	/Sandy Fong/
DATE SIGNED:	10/11/2021
Total Attachments: 4	
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ASSIGNMENT - WORLDWIDE

ASSIGNOR(S)

Ahmad Awada, Munich, Germany**Timo Koskela**, Oulu, Finland**Jorma Kaikkonen**, Oulu, Finland**Ingo Viering**, Munich, Germany

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: **PROCEDURES FOR ROBUST BEAM FAILURE RECOVERY USING A NON-SERVING CELL**

Application number: **US 62/842177** Filing date: **2019-05-02**
(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>Ahmad Awada</u>	<u>Ahmad Awada</u>	<u>2019-11-18</u>
<u>Timo Koskela</u>		
<u>Jorma Kaikkonen</u>		
<u>Ingo Viering</u>	<u>Ingo Viering</u>	<u>2019-11-18</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>Umut Karabulut</u>	<u>Umut Karabulut</u>	<u>2019-11-18</u>
<u>Christian Mannweiler</u>	<u>C. Mannweiler</u>	<u>2019-11-18</u>

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.

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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.

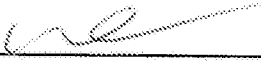

In witness whereof, each inventor/assignor please sign and date below:

Inventor (First Middle LAST)	Signature	Date (YYYY-MM-DD)
<u>Ahmad Awada</u>	<u>[Signature]</u>	<u>2019-05-07</u>
<u>Timo Koskela</u>	<u>[Signature]</u>	<u>2019-05-06</u>
<u>Jorma Kalkkonen</u>	<u>[Signature]</u>	<u>2019-05-06</u>
<u>Ingo Viering</u>	<u>[Signature]</u>	<u>2019-05-06</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>SAMI HAKOLA</u>	<u>[Signature]</u>	<u>2019-05-20</u>
<u>Juha KARJALAINEN</u>	<u>[Signature]</u>	<u>2019-05-20</u>

NC316684-US-PSP

The ASSIGNEE accepts this assignment:	
Name <u>Yan Wang</u>	Signature <u></u>
Title <u>Manager, Patenting</u>	Date (YYYY-MM-DD) <u>19 DEC 2019</u>
Name <u>Jarmo J. Kemppainen</u>	Signature <u></u>
Title <u>Senior IPR Specialist</u>	Date (YYYY-MM-DD) <u>19 DEC 2019</u>