

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4787229

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ESA TIIROLA	11/16/2017
VOLKER BRAUN	11/15/2017
KAROL SCHOBBER	01/08/2018
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NOKIA TECHNOLOGIES OY
<b>Street Address:</b>	KARAPORTTI 3
<b>City:</b>	ESPOO
<b>State/Country:</b>	FINLAND
<b>Postal Code:</b>	02610
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15815106
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(703)720-7801
<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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<b>Email:</b>	ipgeneraltyc@squirepb.com, stacy.hampton@squirepb.com, majid.albassam@squirepb.com
<b>Correspondent Name:</b>	SQUIRE PATTON BOGGS (US) LLP
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<b>Address Line 4:</b>	VIENNA, VIRGINIA 22182-6212
<b>ATTORNEY DOCKET NUMBER:</b>	059864.02604
<b>NAME OF SUBMITTER:</b>	MAJID S. ALBASSAM
<b>SIGNATURE:</b>	/Majid S. Albassam/
<b>DATE SIGNED:</b>	01/22/2018
<b>Total Attachments: 4</b>	
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Docket No. 059864.02604

**WORLDWIDE INVENTION ASSIGNMENT**

For good and valuable consideration paid to the undersigned inventor(s) (hereinafter ASSIGNOR) by

[Insert  
ASSIGNEE's  
Name(s)  
Address(es)]

NOKIA TECHNOLOGIES OY  
Karaportti 3  
02610 Espoo  
FINLAND

(hereinafter ASSIGNEE), the receipt and sufficiency of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled

[Title of  
Invention]

MANAGING PDCCH BLIND SEARCHES BETWEEN SEARCH SPACES IN NR

[\*If the assignment  
is being filed  
after the filing of the  
application, this  
section must be  
completed]

for which the following applications were filed:

<b>*Filed on:</b>	<u>16 November 2017</u>	<b>Application</b>	<u>15/815,106</u>
	(Day Month Year)	<b>Number(s)</b>	

(Squire Patton Boggs (US) LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)

and all Letters Patent of any country in the world to be obtained therefor on said application or any continuation, division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.

The ASSIGNOR agrees to execute all papers necessary in connection with any interference, litigation, or other legal proceeding which may be declared concerning this application or any continuation, division, reissue or reexamination thereof or Letters Patent or reissue patent issued thereon and to cooperate with the ASSIGNEE in every way possible in obtaining and producing evidence and proceeding with such interference, litigation, or other legal proceeding.

IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

[Signature(s)  
of Assignor(s)]

  
(SIGNATURE)

Esa TIROLA.  
(TYPE NAME)

16.11.2017  
(DATE)

\_\_\_\_\_  
(SIGNATURE)

Volker BRAUN  
(TYPE NAME)

\_\_\_\_\_  
(DATE)

\_\_\_\_\_  
(SIGNATURE)

Karol SCHOBEL  
(TYPE NAME)

\_\_\_\_\_  
(DATE)

Docket No. 059864.02604

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Karaportti 3  
02610 Espoo  
FINLAND

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[Title of  
Invention]

MANAGING PDCCH BLIND SEARCHES BETWEEN SEARCH SPACES IN NR

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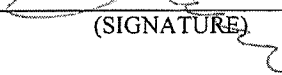
and all Letters Patent of any country in the world to be obtained therefor on said application or any continuation, division, renewal, substitute, reissue or reexamination thereof for the full term or terms for which the same may be granted.

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IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s).

[Signature(s)  
of Assignor(s)]

(SIGNATURE)	Esa TIIROLA,	(DATE)
	(TYPE NAME)	
(SIGNATURE)	Volker BRAUN	15-Nov-2017
	(TYPE NAME)	(DATE)
(SIGNATURE)	Karol SCHÖBER	(DATE)
	(TYPE NAME)	

**ASSIGNMENT AND AGREEMENT**

For value received, I, Karol Schober, of Helsinki, Finland, hereby sell, assign and transfer to Nokia Technologies Oy, a corporation established and existing under the laws of Finland, and having its principal place of business at Karaportti 3, 02610 Espoo, Finland, and its successors, assigns and legal representatives, the entire right, title and interest, for the United States of America, in and to certain inventions related to "MANAGING CONTROL CHANNEL BLIND SEARCHES BETWEEN SEARCH SPACES IN NEW RADIO" described in an application for Letters Patent of the United States, Serial No. 15/815106, filed 16-Nov-2017, and all the rights and privileges in said application and under any and all Letters Patent that may be granted in the United States for said inventions; and we also concurrently hereby sell, assign and transfer to Nokia Technologies Oy the entire right, title and interest in and to said inventions for all countries foreign to the United States, including all rights of priority arising from the application aforesaid, and all the rights and privileges under any and all forms of protection, including Letters Patent, that may be granted in said countries foreign to the United States for said inventions.

I authorize Nokia Technologies Oy to make application for such protection in its own name and maintain such protection in any and all countries foreign to the United States, and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from us, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

I 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 Nokia Technologies Oy to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

I request that any and all patents for said inventions be issued to Nokia Technologies Oy in the United States and in all countries foreign to the United States, or to such nominees as Nokia Technologies Oy may designate.

I agree that, when requested, we shall, without charge to Nokia Technologies Oy but at its expense, 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: Karol Schober**

**Signature:** Karol Schober

**Date:** 8th Jan 2018