504652106 11/21/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MAARTEN HUBERDINA PASCAL TYTGAT	11/17/2017
GUILHEM DE VALICOURT	11/06/2017
SIAN CHONG JEFFREY LEE	11/06/2017
MICHAEL SCOTT EGGLESTON	11/06/2017

RECEIVING PARTY DATA

Name:	NOKIA SOLUTIONS AND NETWORKS OY
Street Address:	KARAPORTTI 3
City:	ESPOO
State/Country:	FINLAND
Postal Code:	02610

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15818998

CORRESPONDENCE DATA

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NAME OF SUBMITTER:	DIKLA BOROCHOV
SIGNATURE:	/DIKLA BOROCHOV/
DATE SIGNED:	11/21/2017

Total Attachments: 6

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PATENT 504652106 REEL: 044188 FRAME: 0520

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PATENT REEL: 044188 FRAME: 0521

ASSIGNMENT AND AGREEMENT

For value received, we, Maarten Huberdina Pascal Tytgat, of Amsterdam, The Netherlands, Guilhem De Valicourt, of Jersey City, New Jersey, U.S.A, Michael Scott Eggleston, of New York, New York, U.S.A., Sian Chang Jeffrey Lee, of Summit, New Jersey, U.S.A., hereby sell, assign and transfer to Nokia Solutions and Networks 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 "DUAL-DRIVE PUSH-PULL OPTICAL MODULATOR WITH ELECTRICAL COMMON-MODE SUPPRESSION" described in an application for Letters Patent of the United States, executed by us of even date herewith, 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 Solutions and Networks 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.

We authorize Nokia Solutions and Networks 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.

We 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 Solutions and Networks Oy to apply for patent or other form of protection for said inventions and to claim the aforesaid benefit of the right of priority.

We request that any and all patients for said inventions be issued to Nokia Solutions and Networks Oy in the United States and in all countries foreign to the United States, or to such nominees as Nokia Solutions and Networks Oy may designate.

We agree that, when requested, we shall, without charge to Nokia Solutions and Networks 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: Maarten Huberdina Pascal Tytgat	
Signature:	Date: 11-17-201
Inventor: Michael Scott Eggleston	
Signature:	_ Date:
Inventor: Sian Chong Jeffrey Lee	
Signature:	Date:
Inventor: Guilhem De Valicourt	n.i

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Inventor: Maarten Huberdina Pascal Tytgat	
Signature:	Date:
Inventor: Michael Scott Eggleston	
Signature:	Date:
Inventor: Sian Chong Jeffrey Lee	
Signature:	Date:
Inventor: Guilhem De Valicourt Signature:	!!/ <i>A/</i> /*.:"?
Signature:	Date: 11/06/2017

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Inventor: Maarten Huberdina Pascal Tytgat Signature:	Date:
Inventor: Michael Scott Eggleston Signature:	Date: 1/6/2017
Inventor: Sian Chong Jeffrey Lee Signature:	Date:
Inventor: Guilhem De Valicourt Signature:	Date: