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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6005212

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| NOKIA CORPORATION | 01/16/2015 |
| RECEIVING PARTY DATA | |
| Name: | NOKIA TECHNOLOGIES OY |
| Street Address: | KARAKAARI 7 |
| City: | ESPOO |
| State/Country: | FINLAND |
| Postal Code: | 02610 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16812977 |
| CORRESPONDENCE DATA | |
| Fax Number: | (704)444-1111 |
| <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: | 7044441000 |
| Email: | usptomail@alston.com |
| Correspondent Name: | ALSTON & BIRD LLP |
| Address Line 1: | BANK OF AMERICA PLAZA, 101 SOUTH TRYON STREET |
| Address Line 2: | SUITE 4000 |
| Address Line 4: | CHARLOTTE, NORTH CAROLINA 28280-4000 |
| ATTORNEY DOCKET NUMBER: | 042933/545214 |
| NAME OF SUBMITTER: | GUY R. GOSNELL |
| SIGNATURE: | /Guy R. Gosnell/ |
| DATE SIGNED: | 03/10/2020 |
| Total Attachments: 2 | |
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| source=545214_Assign_Corp-Oy#page2.tif | |

PATENT ASSIGNMENT

THIS Assignment is effective as of 31 December 2014 between

Assignor **NOKIA CORPORATION** of Karaportti 3, FI - 02610 Espoo, Finland, a corporation organized under the laws of Finland (hereinafter "Nokia Corporation") and Assignee **NOKIA TECHNOLOGIES OY** of Karaportti 3, FI - 02610 Espoo, Finland, a corporation organized under the laws of Finland (hereinafter "Nokia Technologies")

WHEREAS, Nokia Corporation is the owner of certain patents and patent applications, as more particularly described in Attachment 1 hereto (hereinafter "the Patents"), incorporated herein by reference;

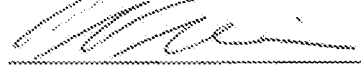
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and in accordance with that certain Business Purchase Agreement between Nokia Corporation and Nokia Technologies having an effective date of 31 December 2014 (hereinafter "Agreement"):


Nokia Corporation sells, assigns, transfers and conveys to Nokia Technologies, and its successors and assigns, all right, title, and interest in and to each of the Patents and patent applications listed in Attachment 1 hereto and all continuations, divisions, and reissues arising from or related to the Patents.

This sale, assignment, transfer, and conveyance to Nokia Technologies, and its successors and assigns, is made subject to certain retained rights in favor of Nokia Corporation for the Patents and patent applications listed in Attachment 1, as are set forth in the Agreement.

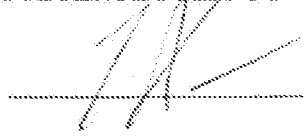
IN WITNESS WHEREOF, the parties have caused their respective corporate names to be affixed hereto and this instrument to be signed by their duly authorized officers as of the day and year written below.

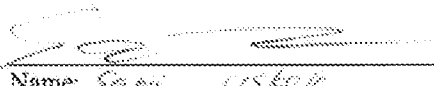
NOKIA CORPORATION

By: 
Name: Esa Niinimäki
Title: Authorized signatory
Date: 16 January 2015


Name: Anne Oksala
Title: Legal Counsel
Date: 16 January 2015

NOKIA TECHNOLOGIES OY

By: 
Name: Jyri Lassi
Title: Vice President, Legal & IP
Date: 16 January 2015


Name: Sanni Uskok
Title: Head of Finance and operations
Date: 16 January 2015

Attachment 1

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|--------------|--------------------------|-------------|-----------|-------------|---------|
| 77311-US-PCT | United States Of America | 28 Jan 2013 | 14/375277 | | |
| 77308-US-NP | United States Of America | 03 Feb 2012 | 13/365468 | | |
| 77297-US-NP | United States Of America | 21 Feb 2012 | 13/400983 | | |
| 77292-US-NP | United States Of America | 07 Nov 2012 | 13/671410 | | |
| 77288-US-NP | United States Of America | 13 Jan 2012 | 13/349950 | | |
| 77281-US-NP | United States Of America | 15 Dec 2011 | 13/327070 | | |
| 77279-US-PCT | United States Of America | 21 Nov 2012 | 14/361401 | | |
| 77275-US-PCT | United States Of America | 17 Feb 2012 | 14/374915 | | |
| 77274-US-NP | United States Of America | 17 Feb 2012 | 13/399048 | 26 Aug 2014 | 8819345 |
| 77265-US-NP | United States Of America | 16 Nov 2011 | 13/297469 | 22 Jul 2014 | 8787237 |
| 77261-US-NP | United States Of America | 01 Nov 2012 | 13/666401 | | |
| 77255-US-CIP | United States Of America | 29 May 2012 | 13/482377 | | |
| 77255-US-NP | United States Of America | 04 Apr 2012 | 13/439371 | | |
| 77251-US-NP | United States Of America | 30 Mar 2012 | 13/435437 | | |
| 77245-US-PCT | United States Of America | 23 Dec 2011 | 14/368010 | | |
| 77220-US-NP | United States Of America | 21 Feb 2012 | 13/401358 | | |
| 77219-US-NP | United States Of America | 09 Nov 2012 | 13/672869 | | |
| 77216-US-PCT | United States Of America | 22 Dec 2011 | 14/364229 | | |
| 77215-US-PCT | United States Of America | 29 Mar 2012 | 14/374477 | | |
| 77210-US-PCT | United States Of America | 22 Dec 2011 | 14/365597 | | |
| 77205-US-NP | United States Of America | 01 Nov 2011 | 13/286466 | | |
| 77203-US-NP | United States Of America | 07 Jun 2012 | 13/491048 | | |
| 77201-US-NP | United States Of America | 23 Dec 2011 | 13/336650 | | |
| 77200-US-NP | United States Of America | 27 Jan 2012 | 13/360409 | 08 Jul 2014 | 8773543 |
| 77198-US-NP | United States Of America | 01 Nov 2012 | 13/666680 | | |