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| PATENT ASSIGNMENT COVER SHEET |
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| LASSE JUHANI LAAKSONEN | 08/03/2017 |
| ANSSI RAMO | 08/09/2017 |
| ARTO LEHTINIEMI | 07/31/2017 |
| JUSSI LEPPANEN | 08/14/2017 |
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| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 16623543 |
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| NAME OF SUBMITTER: | THAO PHAM |
| SIGNATURE: | /Thao Pham/ |
| DATE SIGNED: | 01/22/2020 |
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ASSIGNMENT

I/we, (The ASSIGNOR(S)):

Lasse Juhani Laaksonen
 Anssi Ramo
 Arto Lehtiniemi
 Jussi Leppanen

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, hereby assign to (hereafter referred to as The ASSIGNEE):

Nokia Technologies OY
 Karaportti 3
 02610 Espoo
 Finland

An invention entitled (invention Title):

AN APPARATUS AND ASSOCIATED METHODS

The PATENT RIGHTS referred to in this agreement are:

a national Patent Application No. _____ filed on _____
 European Patent Application No. 17178912.6 filed on June 30, 2017.
 PCT application No. _____ filed on _____

for this invention, executed by the ASSIGNOR(S)

U.S. Patent Application Serial No. _____, filed _____
 U.S. Patent No. _____, issued _____

The PATENT RIGHTS assigned under this agreement are:

U.S. Patent rights
 worldwide Patent rights. In this case, the assignee shall have the right to claim the benefit of the filing date of any Patent Application identified above.
 the full and exclusive right to the invention;

The ASSIGNOR(S) do hereby assign the following to each ASSIGNEE; their successors and assigns:

an equal interest in and to the entire right, title and interest in and to the PATENT RIGHTS in the invention, all continuations, continuations-in-part, divisionals, re-issues, and re-examination patents and patent applications; and

the right to claim priority under 35 U.S.C. § 119, based on any earlier foreign applications for this invention.

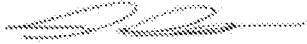
As to all U.S. Patent Applications assigned under this Agreement, the ASSIGNOR(S) hereby authorize(s) and request(s) the Commissioner of Patents and Trademarks to issue all Letters Patent to the ASSIGNEE(S) as the ASSIGNEE(S) of an equal interest in the entire right, title and interest, for the sole use and enjoyment of said ASSIGNEE(S), their successors and assigns.

Further, the ASSIGNOR(S) agree(s) to communicate to said ASSIGNEE(S), or their representatives, any facts known to the ASSIGNOR(S) respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, substitute, renewal, reexamination and reissue applications, execute all necessary assignment papers to cause any and all Letters Patent to be issued to said ASSIGNEE(S), make all rightful oaths and generally do everything necessary or desirable to aid said ASSIGNEE(S), their successors and assigns, to obtain and enforced proper protection for said invention.

Further, I/We authorize the attorney of record to update this document to include Patent Office information as deemed necessary (i.e., filing date, serial number, etc.);

Each Inventor: Please sign and date below:

NC102515



[Lasse Juhani Laaksonen]

3 August, 2017

Date



Witness Signature

Printed Name Peter Estalin

3.8.2017

Date

NC102515

Ansi Ramo
[Ansi Ramo]

9 AUGUST 2017
Date

Henri Toukoma
Witness Signature
Printed Name HENRI TOUKOMA

9.8.17
Date


NC102515



[Arto Lehtiniemi]

31.7.2017

Date



Witness Signature

Printed Name Peter Eskolin

31.7.2017

Date

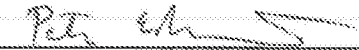
NC102515



[Jussi Leppanen]

14.8.2017

Date



Witness Signature
Printed Name Peter Eskola

14.8.2017

Date