

**ASSIGNMENT - WORLDWIDE**

ASSIGNOR(S)

| <b>Name</b>                  | <b>City</b> | <b>Country</b> |
|------------------------------|-------------|----------------|
| Rafael Cauduro Dias de Paiva | Aalborg     | Denmark        |

(Full legal name, city and country of each inventor)

ASSIGNEE

**Nokia Denmark A/S****Ørestads Boulevard 73, DK-2300, COPENHAGEN S, Denmark**

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 of Invention:** METHODS FOR DUAL TCI STATE SWITCH**Application Title:** METHODS FOR DUAL TCI STATE SWITCH**Application number:** US 63/598291**Filing date:** 2023-11-13  
(YYYY-MM-DD)

I/we, the ASSIGNOR(S), hereby authorize and request a representative of the ASSIGNEE to insert the application title, 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.

The ASSIGNOR(S) and ASSIGNEE agree that this assignment may be executed by either handwritten signatures, including the exchange of scanned representations of handwritten signatures, or e-signatures. By using e-signature to sign this assignment, the ASSIGNOR(S) and ASSIGNEE acknowledge that execution in this manner creates a binding contract between the ASSIGNOR(S) and ASSIGNEE.

The ASSIGNOR(S) and ASSIGNEE have caused this assignment to be duly signed and executed on the respective dates entered below to be effective as of the date of the last signature below.

| Each inventor/assignor please sign and date below: |                                                                                                                                                               |             |
|----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Inventor (First Middle Last)                       | Signature                                                                                                                                                     | Date        |
| Rafael Cauduro Dias de Paiva                       | <br><small>Rafael Cauduro Dias de Paiva (Nov 10, 2023 12:06 GMT+1)</small> | 10-Nov-2023 |

| The ASSIGNEE accepts this assignment: |                                                                                                                                                            |
|---------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Nokia Denmark A/S</b>              |                                                                                                                                                            |
| Name: Teemu Salminen                  | Signature <br><small>Teemu Salminen (Nov 15, 2023 15:48 GMT+2)</small> |
| Title: Authorized Signatory           | Date 15-Nov-2023                                                                                                                                           |
| Name: Mika Sarajuuri                  | Signature <br><small>Mika Sarajuuri (Nov 10, 2023 19:44 GMT+2)</small> |
| Title: Authorized Signatory           | Date 10-Nov-2023                                                                                                                                           |

**ASSIGNMENT - WORLDWIDE**

ASSIGNOR(S)

| <b>Name</b>             | <b>City</b> | <b>Country</b> |
|-------------------------|-------------|----------------|
| Riikka Karoliina Dimnik | Kirkkonummi | Finland        |

(Full legal name, city and country of each inventor)

ASSIGNEE

**Nokia Solutions and Networks Oy**  
**Karakaari 7, 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).

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**Application Title:** METHODS FOR DUAL TCI STATE SWITCH

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The ASSIGNOR(S) and ASSIGNEE have caused this assignment to be duly signed and executed on the respective dates entered below to be effective as of the date of the last signature below.

| Each inventor/assignor please sign and date below: |                                                                                                                                                |             |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Inventor (First Middle Last)                       | Signature                                                                                                                                      | Date        |
| Riikka Karoliina Dimnik                            | <br><small>Riikka Dimnik (Nov 10, 2023 12:43 GMT+2)</small> | 10-Nov-2023 |

| The ASSIGNEE accepts this assignment:  |                                                                                                                                                               |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Nokia Solutions and Networks Oy</b> |                                                                                                                                                               |
| Name: Joonas Kilpivaara                | Signature <br><small>Joonas Kilpivaara (Nov 14, 2023 11:55 GMT+2)</small> |
| Title: Authorized Signatory            | Date 14-Nov-2023                                                                                                                                              |
| Name: Pekka Luoma                      | Signature <br><small>Pekka Luoma (Nov 16, 2023 13:04 GMT+2)</small>       |
| Title: Authorized Signatory            | Date 16-Nov-2023                                                                                                                                              |