

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT5397987

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ICARO L. J. DA SILVA	10/08/2015
GUNNAR MILDH	10/27/2015
JOHAN RUNE	09/08/2015
JARI VIKBERG	08/28/2015
PONTUS WALLENTIN	08/28/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)
<b>Street Address:</b>	SE-164 83
<b>City:</b>	STOCKHOLM
<b>State/Country:</b>	SWEDEN
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16288474
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(877)812-1249
<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>	
<b>Phone:</b>	9192382300
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<b>ATTORNEY DOCKET NUMBER:</b>	3000-337C
<b>NAME OF SUBMITTER:</b>	CATHERINE STIERS
<b>SIGNATURE:</b>	/Catherine Stiers/
<b>DATE SIGNED:</b>	02/28/2019
<b>Total Attachments: 8</b>	
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## ASSIGNMENT

This Assignment is made by:

<b>DA SILVA, Icaro L. J.</b>	<b>Dukvägen 36 SE-168 73 BROMMA Sweden</b>
<b>MILDH, Gunnar</b>	<b>Koltrastvägen 28 SE-192 55 SOLLENTUNA Sweden</b>
<b>RUNE, Johan</b>	<b>Terrängvägen 12 SE-181 29 LIDINGÖ Sweden</b>
<b>VIKBERG, Jari</b>	<b>Svalsättersvägen 12 SE-153 38 JÄRNA Sweden</b>
<b>WALLENTIN, Pontus</b>	<b>Trastgatan 3 SE-582 39 LINKÖPING Sweden</b>

(hereinafter referred to as "Assignor(s)") in favor, and for the benefit and behoof of, Telefonaktiebolaget L M Ericsson (publ), a corporation duly organized under and pursuant to the laws of Sweden and having its principal place of business at SE-164 83 Stockholm, Sweden (hereinafter referred to as "Assignee").

For good, sufficient and adequate consideration, the receipt of which is hereby acknowledged, the Assignor(s) have, as of the Effective Date, sold, assigned, transferred, and set over, and by these presents, and to the extent any transferable or assignable rights still remain with the inventor, do hereby sell, assign, transfer, and set over, unto the Assignee, its successors, legal representatives, and assigns the entire right, title, and interest in and to the following inventions, application(s) for Letters Patent, and any and all Letters Patent or Patents in all countries and pursuant to all multilateral treaty organizations, including Sweden, the United States of America, the Patent Cooperation Treaty and European Patent Convention, that may be granted therefor and thereon, and in and to any and all divisions, continuations, continuations-in-part, conversions and utility models of said application(s), and reissues and extensions of said Letters Patent or Patents, the same to be held and enjoyed by the Assignee, for its use and behoof and the use and the behoof of its successors, legal representatives, and assigns, to the full end of the term or terms for which Letters Patent, Patents and Utility Models may be granted as fully and entirely as the same would have been held and enjoyed by the Assignor(s) had this sale and assignment not been made:

### UPLINK SIGNALING FOR DUAL CONNECTIVITY

including, but not limited to, the application(s) for Letters Patent and Utility Model filed in:

Country Code	Priority Application(s)	Filing Date(s)

## ASSIGNMENT

WO	PCT/SE2015/050900	2015-08-26
US	14/890,452	2015-11-11
US	16/288,474	2019-02-28

The Effective date is the earliest date of the above listed Filing Date(s).

Assignor(s) hereby authorize and request Assignee's Attorneys to insert the serial number and filing date of said application(s) for Letter Patent or Utility Model, when known. The assignment of the above mentioned rights includes a transfer of the whole right to use a priority (including priority according to any convention, multilateral agreement, bilateral agreement and national law) of the above mentioned application(s) for Letter Patent and Utility Model in all countries and multilateral treaty organizations wherein no residual rights shall remain with the Assignor(s). Assignor(s) hereby request that said Letters Patent, Patent or Utility Model be issued to Assignee as the Assignee of said inventions, the Letters Patent, Patent or Utility Model to be issued for the sole use and behoof of the Assignee, its successors, legal representatives, and assigns. Assignee alone hereinafter has the entire disposal of the invention and possesses entire ownership to any domestic and foreign patents or utility models granted thereafter. The rights granted hereunder shall include all rights to institute legal actions, obtain remedies and recover and retain damages in respect to said Letters Patent, Patent or Utility Model.

The Assignor(s) and Assignee hereby understand and agree that with the execution of this Assignment, to the extent necessary or appropriate, national and/or regional applications may be filed by the Assignee as the applicant and on behalf of the assignor.

To the extent Assignee is entitled to receive the rights hereunder pursuant to this Assignment, each of the Assignor(s) hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns, that, at the time of the Effective Date, the Assignor(s) were the sole and lawful owners of the entire right, title, and interest in and to the inventions and application(s) for Letters Patent or Utility Models above-mentioned, and that the same are unencumbered, and that the Assignor(s) have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

Further, and for the same consideration, the Assignor(s) hereby covenant(s) and agree(s) to and with the Assignee, its successors, legal representatives, and assigns that the Assignor(s) will, whenever counsel of the Assignee, or the counsel of its successors, legal representatives, and assigns, shall advise that any proceeding in connection with said inventions or said application(s) for Letters Patent or Utility Model, or any proceeding in connection with Letters Patent or Utility Model for said inventions, in any country and any multilateral treaty organization, including interference proceedings, is lawful and desirable, or that any division, continuation, continuation-in-part, conversion or Utility Model of any application(s) for Letters Patent or Utility Model, or any reissue or extension of any Letters Patent to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of Letters Patent or Utility Model for said inventions, without charge to Assignee, its successors, legal representatives, and assigns, but at the cost and expense of the Assignee, its successors, legal representatives, and assigns. If any of the Assignor(s) is prevented by any obstacles from signing said documents in person, this Assignment shall be valid as a Power of Attorney

## ASSIGNMENT

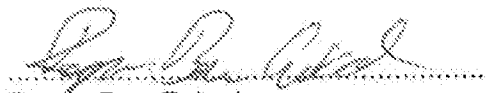
for the Assignee to sign these documents on behalf of any such Assignor(s) or, in the event of the death of the latter, the estate thereof.

This Assignment shall be governed by and construed under, and any dispute, controversy or claim related hereto shall be decided in accordance with, the laws of:  
**Sweden**

without regard to the conflicts of laws provisions thereof. Any dispute, controversy or claim arising under, out of or relating to this Assignment and any subsequent amendments of this Assignment, including, without limitation, its formation, validity, binding effect, interpretation, performance, breach or termination, as well as non-contractual claims, shall be referred to and finally determined by arbitration in accordance with the WIPO Arbitration Rules. The arbitral tribunal shall consist of a sole arbitrator. The place of arbitration shall be in the country of the inventor's residence. The language to be used in the arbitral proceedings shall be English.

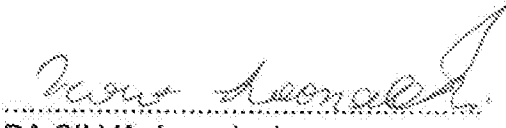
No modifications shall be made to this Assignment unless in writing and signed by each of the Assignor(s) and Assignee. If any of the provisions of this Assignment shall be deemed invalid or unenforceable, then the entire Assignment shall be construed as if not containing the particular invalid or unenforceable provision or provisions, and the rights and obligations of Assignee and Assignor(s) shall be construed and enforced accordingly. Assignee's failure to exercise any option made available as a result hereof, shall not be construed as a waiver of such provisions, rights, or options, or affect the validity of this Assignment. Assignor covenants and agrees that it will not take any actions in violation of this Assignment.

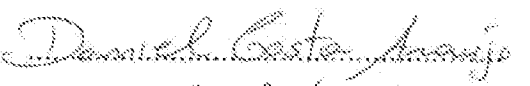
Subsequent assignment from any of the assignors to the assignee purporting to convey the subject matter specified herein for a particular country, patent office, or jurisdiction shall not invalidate any provision of this assignment and any such subsequent assignment shall act as a further confirmation of the assignment herein.

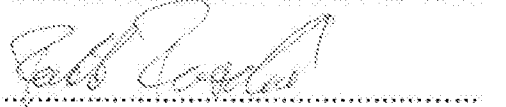
Date October 30, 2015 Signature on behalf of   
Assignee Roger Bou Faical

### ASSIGNMENT

Title: UPLINK SIGNALING FOR DUAL CONNECTIVITY

Date: 2015-October-8th Signature of Assignor:   
DA SILVA, Icaro L. J.

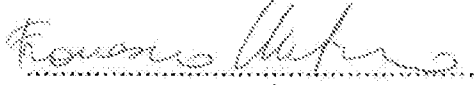
Date: 2015-October-8 Witnessed by:   
Name: Daniel Costa Franjo  
Address: Sturegatan 20 d, 17231  
Sundbyberg

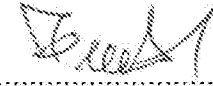
Date: 2015-10-8 Witnessed by:   
Name: Patrik Ruggeland  
Address: Vingårnsgatan 5  
117 58 STOCKHOLM

ASSIGNMENT

Title: UPLINK SIGNALING FOR DUAL CONNECTIVITY

Date 27/10/2015 Signature of Assignor   
 MILDH, Gunnar

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Date 27/10/2015 Witnessed by   
 Name: ~~Filip~~ Filip Mostbauer  
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19140, Sollentuna  
SWEDEN

ASSIGNMENT

Title: UPLINK SIGNALING FOR DUAL CONNECTIVITY

Date: 8 September 2015

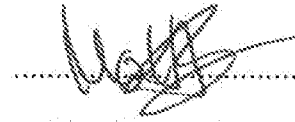
Signature of Assignor



RUNE, Johan

Date: 8 September 2015

Witnessed by



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Date: 8 September 2015

Witnessed by



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# ASSIGNMENT

Title: UPLINK SIGNALING FOR DUAL CONNECTIVITY

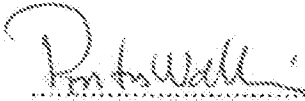
Date 2015-08-28 Signature of Assignor Jari VIKBERG  
VIKBERG, Jari

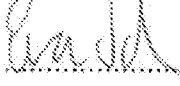
Date 2015-08-28 Witnessed by [Signature]  
Name: Hanna-Liisa VIKBERG  
Address: Svalsätersvägen 12  
S-15338 Jämså  
SWEDEN

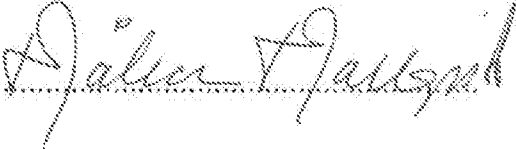
Date 2015-08-28 Witnessed by [Signature]  
Name: Pia VIKBERG  
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S-15338 Jämså  
SWEDEN

ASSIGNMENT

Title: UPLINK SIGNALING FOR DUAL CONNECTIVITY

Date Aug 28th, 2015 Signature of Assignor   
 WALLENTIN, Pontus

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