

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT5113600

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
OY L M ERICSSON AB	01/12/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TELEFONAKTIEBOLAGET LM 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>	16114606
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	9199483390
<b>Email:</b>	official@mbhiplaw.com
<b>Correspondent Name:</b>	MURPHY, BILAK & HOMILLER/ERICSSON
<b>Address Line 1:</b>	1255 CRESCENT GREEN
<b>Address Line 2:</b>	SUITE 200
<b>Address Line 4:</b>	CARY, NORTH CAROLINA 27518
<b>ATTORNEY DOCKET NUMBER:</b>	1009-2925 / P43852 US2
<b>NAME OF SUBMITTER:</b>	MICHAEL D. MURPHY
<b>SIGNATURE:</b>	/Michael D. Murphy #44958/
<b>DATE SIGNED:</b>	08/28/2018
<b>Total Attachments: 5</b>	
source=1009-2925 Assignment, LMF to LME#page1.tif	
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### LMF to LME Assignment

This Assignment is made by **Oy L M Ericsson Ab**, a corporation duly organized under and pursuant to the laws of Finland and having its principal place of business at Hirsalantie 11, 02420 Jorvas, Finland (hereinafter referred to as "Assignor") 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 S-164 83 Stockholm, Sweden (hereinafter referred to as "Assignee").

For good, sufficient and adequate consideration, the receipt of which is hereby acknowledged, the Assignor has 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 assignor 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, Finland, the United States of America, the Patent Cooperation Treaty and European 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 had this sale and assignment not been made:

#### **Conditional Uplink Radio Resource Utilization in a Cellular Network**

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

Country Code	Application Number(s)	Filing Date(s)
WO	PCT/EP2014/068509	2014-09-01
US	14/897,052	2015-12-09
US	16/114,606	2018-08-28

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

Assignor hereby authorizes and requests Assignee's Attorneys to insert the serial number and filing date of said application(s) for Letters 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. Assignor 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 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 thereinafter. The rights granted hereunder shall include all rights to

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institute legal actions, obtain remedies and recover and retain damages in respect to said Letters Patent, Patent or Utility Model.

The Assignor 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, Assignor 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 was the sole and lawful owner 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 has 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 hereby covenants and agrees to and with the Assignee, its successors, legal representatives, and assigns that the Assignor 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 or Utility Model 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 the Assignor is prevented by any obstacles from signing said documents in person, this Assignment shall be valid as a Power of Attorney for the Assignee to sign these documents on behalf of any such Assignor.

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 Sweden. 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 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

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containing the particular invalid or unenforceable provision or provisions, and the rights and obligations of Assignee and Assignor 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.

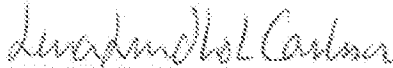
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Conditional Uplink Radio Resource Utilization in a Cellular Network

Signature of Assignee

Telefonaktiebolaget L M  
Ericsson (publ)

Date 26/2-2015

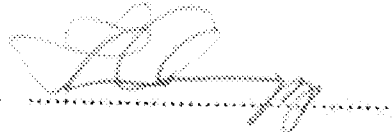


Name: Lena Lundholm  
Carlsson  
Title: Manager, IPR  
Processes & Tools

Signature of Assignor

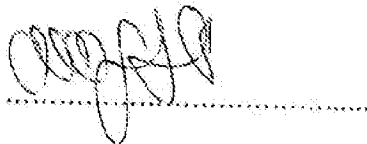
Oy L M Ericsson Ab

Date 12.1.2015



Name: Hannu Ahonen  
Title: Senior Group Legal  
Counsel

Date 12.11.2015

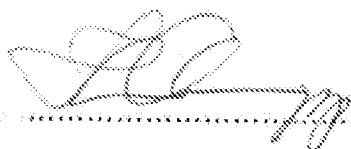


Name: Olli Sirikka  
Title: President

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Conditional Uplink Radio Resource Utilization in a Cellular Network

Signature of Assignee: Telefonaktiebolaget L M Ericsson (publ)  
Name: Lena Lundholm Carlsson  
Title: Manager, IPR Processes & Tools  
Date.....

Signature of Assignor: Oy L M Ericsson Ab  
Name: Hannu Ahonen  
Title: Senior Group Legal Counsel  
Date 12.1.2015 

Signature of Assignor: Name: Olli Sirkka  
Title: President  
Date 12.1.2015 