

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
JOHAN BERGMAN	02/04/2015
ERIK ERIKSSON	02/06/2015
MATTIAS FRENNE	02/02/2015
FREDRIK NORDSTROM	01/30/2015
ANDERS WALLEN	02/03/2015
RECEIVING PARTY DATA	
Name:	TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)
Street Address:	SE-164 83
City:	STOCKHOLM
State/Country:	SWEDEN
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	14431922
CORRESPONDENCE DATA	
Fax Number:	(214)661-4552
<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:	214.953.6500
Email:	ptomail1@bakerbotts.com
Correspondent Name:	BAKER BOTTS L.L.P.
Address Line 1:	2001 ROSS AVENUE
Address Line 2:	SUITE 600
Address Line 4:	DALLAS, TEXAS 75201-2980
ATTORNEY DOCKET NUMBER:	017997.0576
NAME OF SUBMITTER:	WENDY FLOTTMAN
SIGNATURE:	/wendy flottman/
DATE SIGNED:	03/27/2015
Total Attachments: 8	
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ASSIGNMENT

This Assignment is made by:

BERGMAN, Johan

**Kungsholmsgatan 9
SE-112 27 STOCKHOLM
Sweden**

ERIKSSON, Erik

**Landeryd, Skogsstugan
SE-58593 LINKÖPING
Sweden**

FRENNE, Mattias

**Arkeologvägen 20
SE-754 43 UPPSALA
Sweden**

NORDSTRÖM, Fredrik

**Lilla Tvärgatan 16A
SE-223 53 LUND
Sweden**

WALLÉN, Anders

**Tegnergatan 24
SE-271 31 YSTAD
Sweden**

(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:

REFERENCE SIGNAL COUPLING IN A WIRELESS NETWORK

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

Country Code	Priority Application(s)	Filing Date(s)
WO	PCT/SE2015/050080	2015-01-27
US	14/431,922	2015-03-27
		- -

ASSIGNMENT

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 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.

ASSIGNMENT

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 2015-02-16

Signature on behalf of
Assignee

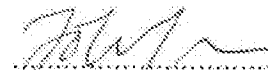

Roger Bou Faical

ASSIGNMENT

Title: REFERENCE SIGNAL COUPLING IN A WIRELESS NETWORK

Date 2015-02-04

Signature of Assignor

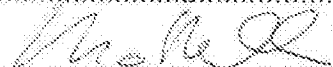

BERGMAN, Johan

Date 2015-02-04

Witnessed by

MARCO BELLESCAI

Name:



Address:

FRANVÄSBÄCKEN 8

17166 SOLNA

SWEDEN

Date 2015-02-04

Witnessed by



Name:

Mattias Bergström

Address:

Bette (obbsv.)

120 71 Stockholm

Sweden

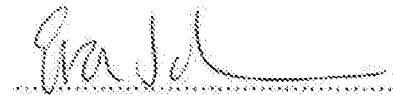
ASSIGNMENT

Title: REFERENCE SIGNAL COUPLING IN A WIRELESS NETWORK

Date: 2015-02-06 Signature of Assignor


ERIKSSON, Erik

Date: 2015-02-06 Witnessed by



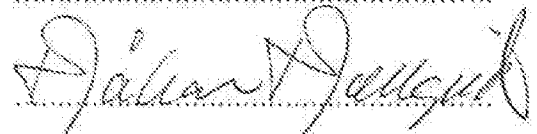
Name:

Eva Johannesson

Address:

Landeryd Sörholmen 2
SE-585 93 Linköping, Sweden
Ph +46 10 716 39 63

Date: 2014-02-06 Witnessed by



Name:

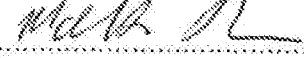
Håkan Hallqvist

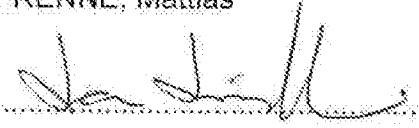
Address:


Nordalmsvägen 7
SE-582 72 Linköping, SWEDEN
Ph +46 10 711 4401

ASSIGNMENT

Title: REFERENCE SIGNAL COUPLING IN A WIRELESS NETWORK

Date 2015-02-02 Signature of Assignor 
FRENNE, Mattias

Date 2015-02-02 Witnessed by 
Name: Lars Lindbom
Address: Fogelg. 7
65462 Karlstad
Sweden

Date 2015-02-02 Witnessed by 
Name: Nylund, Nils-Edvin B.
Address: 11762 Stockholm
SWEDEN

ASSIGNMENT

Title: REFERENCE SIGNAL COUPLING IN A WIRELESS NETWORK

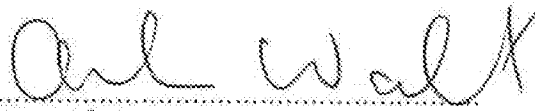
Date 2015-01-30 Signature of Assignor Fredrik Nordström
 NORDSTRÖM, Fredrik

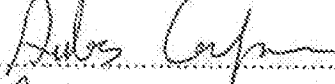
Date 2015-01-30 Witnessed by Magnus Åström
 Name: Magnus Åström
 Address: Nordanväg 20
SE-222 28 Lund
Sweden

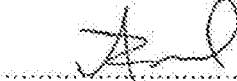
Date 2015-01-30 Witnessed by Peter Alriksson
 Name: Peter Alriksson
 Address: Fridagatan 10
SE-242 31 Hörby
Sweden

ASSIGNMENT

Title: REFERENCE SIGNAL COUPLING IN A WIRELESS NETWORK

Date: 2015-02-03 Signature of Assignor: 
WALLÉN, Anders

Date: 2015-02-03 Witnessed by: 
Name: Andreas Cedergren
Address: Dragonvägen 25
237 32 Bjärred
Sweden

Date: 2015-02-03 Witnessed by: 
Name: Andres Rezi
Address: Barometergatan 44
211 17 Malmö
Sweden