505689501 09/25/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
HÅKAN ANDERSSON	12/14/2017
MATTIAS FRENNE	12/18/2017
JOHAN FURUSKOG	12/21/2017
JOHAN KÅREDAL	12/20/2017
JOHN SKÖRDEMAN	12/18/2017
TOMAS SUNDIN	12/14/2017
NICLAS WIBERG	12/15/2017
QIANG ZHANG	12/14/2017

RECEIVING PARTY DATA

Name:	TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)
Street Address:	TORSHAMNSGATAN 23, KISTA
City:	STOCKHOLM
State/Country:	SWEDEN
Postal Code:	SE-164 83

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16480234

CORRESPONDENCE DATA

Fax Number: (202)783-6031

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.

Phone: 2027836040

Email: xsteele@rfem.com, pto-pat-email@rfem.com
Correspondent Name: ROTHWELL FIGG ERNST & MANBECK P.C.

Address Line 1: 607 14TH ST., NW,

Address Line 2: SUITE 800

Address Line 4: WASHINGTON, D.C. 20005

ATTORNEY DOCKET NUMBER:	3602-1378US2
NAME OF SUBMITTER:	XANIA M. STEELE
SIGNATURE:	/Xania M. Steele/

505689501 PATENT REEL: 050482 FRAME: 0735

DATE SIGNED:	09/25/2019
Total Attachments: 11	
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PATENT REEL: 050482 FRAME: 0736

This Assignment is made by:

ANDERSSON, Håkan Gallstrandsvägen 24

SE-585 99 LINKÖPING

Sweden

FRENNE, Mattias Arkeologvägen 20

SE-754 43 UPPSALA

Sweden

FURUSKOG, Johan Dalagatan 6A

SE-111 23 STOCKHOLM

Sweden

KÅREDAL, Johan Signalvägen 22

SE-226 51 LUND

Sweden

SKÖRDEMAN, John Klinkendalsvägen 7

SE-590 45 BROKIND

Sweden

SUNDIN, Tomas Polhemsvägen 18 A

SE-191 34 SOLLENTUNA

Sweden

WIBERG, Niclas Sofielundsvägen 8

SE-585 97 LINKÖPING

Sweden

ZHANG, Qiang Idungränd 2 C

SE-187 73 TÄBY

Sweden

(hereinafter referred to as "Assignor(s)") in favor, and for the benefit and behoof of, Telefonaktiebolaget LM 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

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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:

BEAM BASED UPLINK (UL) POWER CONTROL

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/SE2017/051272	2017-12-14
US	16/480234	2019-07-23
		~ ~

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 thereinafter. 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

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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.

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 2018-01-04

Signature on behalf of Assignee

Mats Sjöberg

Patent Unit Director

Title: BEAM BASED UPLINK (UL) POWER CONTROL

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REEL: 050482 FRAME: 0739

Date. <i>Dec. 14.</i> 2017.	Signature of Assignor	ANDERSSON, Håkan
Date. 0es14,2017.	Witnessed by	
	Name:	
	Address:	BehensvZ
		590 71. Ljungskov. Sweden
Date. 255	Witnessed by	John Draw
	Name:	- <u>Miklas Bengtoson</u>
	Address:	Vårbaukig 32
		583 32 Linksping
		Sweden

Date 2017-12-18	Signature of Assignor	FRENNE, Mattias
Date 2017-12-18	Witnessed by	T. Aprila
	Name:	Thomas Chapman
	Address:	Kristinehnus 34
		17150 Solve
		Sweden
Date 2017-12-18	Witnessed by	R. G.
	Name:	Per Lenströten
	Address:	Andre Leimon V. 4
		117 50 Shokholm
		Sucoler

Date 2017-11-21	Signature of Assignor	FURUSKOG, Johan
Date. 2013-17-21	Witnessed by	Ali Behrava
	Address:	Dobert Mostrinsg.3
		k.objertAlmstramigs.3
		.11336.Stockhomy.Swooder
Date. 2019-12-21	Witnessed by	
	Name:	Sebartian Faxer
	Address:	Frildswigen 33 17-7-53 Jackska
		SWEDEN

Date. 2019 - 12 - 20	Signature of Assignor	KAREDAL, Johan
Date. 2017 1.2 - 20	Witnessed by	DAVID SUGIRTHARAT
	Address:	LATINCIAJEN 19
		.22433 LUND SWEDEN
Date 2017-12-20	Witnessed by	Gun WALL
	Name:	ENNA WITTOURARK.
	Address:	NORRA-SPOLEG. 18
		22240 CVN
		arian and a single

Title: BEAM BASED UPLINK (UL	.) POWER CONTROL	
Date 2017 - 12 - 18	Signature of Assignor	SKÖRDEMAN, John
Date. 2017 - 12-18	Witnessed by	Yall
	Name:	Eva Johannesson
	Address:	Landeryd Sörholmen 2 SE-585 93 Linköping, Sweden Ph +46 10 716 39 63
		ionemistricoperationi montropropropropropropropropropropropropropr
Date 2017 - 12-18	Witnessed by	Gen Park
	Name:	Gunnar Bark
	Address:	Mariedalsgatan 104 58665 Linköping, Sweden Ph.+46.10.711.4642

Date 20171219 Signature of Assignor SUNDIN, Tomas

Date 20171219 Witnessed by Name:
Address:

10062581na

Date 2017 - 12 -15	Signature of Assignor	MIBERG, Niclas
Date. 2017 - 12 - 1	Witnessed by	Qu V
	Name:	
	Address:	Eva Johannessontanderyd Sörholmen 2 SE-585 93 Linköping, Sweden
Date. 2917-12-11	Witnessed by	Dalen Hallyd
	Name:	Håkan Hallqvist
	Address:	Nordanvindsvägen 7 SE-58272 Linköping, SWEDEN Ph-+46-10-711-4401

Date 201) -12-14	Signature of Assignor	Clarg-Zharz ZHANG, Qiang
Date 2017 - 12 - 14	Witnessed by Name:	ASAY SHARMA
	Address:	cle Virrem Siv
Date2017-12-14	Witnessed by Name: Address:	STANGE ACROSENTAN ZGEHIIOI 17-27-2 SUNDETBERG Jöm Hallasun Vidarv-7
		167 75 7487
		فولوغ والمحال وفائلك والوائد والرازيان والمحارب