

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5722170

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the NATURE OF CONVEYANCE FROM "CHANGE OF NAME" TO "ASSIGNMENT" previously recorded on Reel 046508 Frame 0438. Assignor(s) hereby confirms the ASSIGNMENT.
CONVEYING PARTY DATA	
Name	Execution Date
CAROLA FARONIUS	04/20/2011
ANDERS FURUSKÄR	04/01/2011
MAGNUS LINDSTRÖM	04/01/2011
PETER MOBERG	04/05/2011
WALTER MÜLLER	04/01/2011
JESSICA ÖSTERGAARD	04/01/2011
GHYSLAIN PELLETIER	04/01/2011
MATS SÅGFORS	04/08/2011
JOHAN TORSNER	04/19/2011
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:	14938498
CORRESPONDENCE DATA	
Fax Number:	(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>	
Phone:	9192382300
Email:	cstiers@wt-ip.com
Correspondent Name:	WITHROW & TERRANOVA, PLLC
Address Line 1:	106 PINEDALE SPRINGS WAY
Address Line 4:	CARY, NORTH CAROLINA 27511
ATTORNEY DOCKET NUMBER:	3000-490C
NAME OF SUBMITTER:	CATHERINE STIERS

SIGNATURE:	/Catherine Stiers/
DATE SIGNED:	09/17/2019
Total Attachments: 15 source=3000-490C_Corrective_Assignment#page1.tif source=3000-490C_Corrective_Assignment#page2.tif source=3000-490C_Corrective_Assignment#page3.tif source=3000-490C_Corrective_Assignment#page4.tif source=3000-490C_Corrective_Assignment#page5.tif source=3000-490C_Corrective_Assignment#page6.tif source=3000-490C_Corrective_Assignment#page7.tif source=3000-490C_Corrective_Assignment#page8.tif source=3000-490C_Corrective_Assignment#page9.tif source=3000-490C_Corrective_Assignment#page10.tif source=3000-490C_Corrective_Assignment#page11.tif source=3000-490C_Corrective_Assignment#page12.tif source=3000-490C_Corrective_Assignment#page13.tif source=3000-490C_Corrective_Assignment#page14.tif source=3000-490C_Corrective_Assignment#page15.tif	

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5074633

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	CHANGE OF NAME ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	CAROLA FARONIUS	04/20/2011
	ANDERS FURUSKÄR	04/01/2011
	MAGNUS LINDSTRÖM	04/01/2011
	PETER MOBERG	04/05/2011
	WALTER MÜLLER	04/01/2011
	JESSICA ÖSTERGAARD	04/01/2011
	GHYSLAIN PELLETIER	04/01/2011
	MATS SÅGFORS	04/08/2011
	JOHAN TORSNER	04/19/2011
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:	14938498	
CORRESPONDENCE DATA		
Fax Number:	(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>		
Phone:	9192382300	
Email:	csliers@wt-ip.com	
Correspondent Name:	WITHROW & TERRANOVA, PLLC	
Address Line 1:	106 PINEDALE SPRINGS WAY	
Address Line 4:	CARY, NORTH CAROLINA 27511	
ATTORNEY DOCKET NUMBER:	3000-490C	
NAME OF SUBMITTER:	CATHERINE STIERS	
SIGNATURE:	/Catherine Stiers/	



UNITED STATES PATENT AND TRADEMARK OFFICE

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

AUGUST 1, 2018

PTAS

WITHROW & TERRANOVA, PLLC
106 PINEDALE SPRINGS WAY
CARY, NC 27511

505027883

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT RECORDATION BRANCH OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE ASSIGNMENT RECORDATION BRANCH AT 571-272-3350. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, MAIL STOP: ASSIGNMENT RECORDATION BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.

RECORDATION DATE: 07/31/2018

REEL/FRAME: 046508/0438
NUMBER OF PAGES: 14

BRIEF: ~~CHANGE OF NAME~~ (SEE DOCUMENT FOR DETAILS).

ASSIGNMENT OF ASSIGNORS INTEREST

DOCKET NUMBER: 3000-490C

CEX
9/17/19

ASSIGNOR:

FARONIUS, CAROLA

DOC DATE: 04/20/2011

ASSIGNOR:

FURUSKÄR, ANDERS

DOC DATE: 04/01/2011

ASSIGNOR:

LINDSTRÖM, MAGNUS

DOC DATE: 04/01/2011

ASSIGNOR:

MOBERG, PETER

DOC DATE: 04/05/2011

ASSIGNOR:

MÜLLER, WALTER

DOC DATE: 04/01/2011

ASSIGNOR:

ÖSTERGAARD, JESSICA

DOC DATE: 04/01/2011

ASSIGNOR:

PELLETIER, GHYSLAIN

DOC DATE: 04/01/2011

ASSIGNOR:
SÅGFORS, MATS

DOC DATE: 04/08/2011

ASSIGNOR:
TORSNER, JOHAN

DOC DATE: 04/19/2011

ASSIGNEE:
TELEFONAKTIEBOLAGET L M ERICSSON
(PUBL)
SE-164 83
STOCKHOLM, SWEDEN

APPLICATION NUMBER: 14938498

FILING DATE: 11/11/2015

PATENT NUMBER:

ISSUE DATE:

TITLE: METHOD AND ARRANGEMENT IN A TELECOMMUNICATION SYSTEM

ASSIGNMENT RECORDATION BRANCH
PUBLIC RECORDS DIVISION

ASSIGNMENT

This Assignment is made by:

FARONIUS, Carola	Biskop Tords väg 3 SE-176 76 JÄRFÄLLA Sweden
FURUSKÄR, Anders	Upplandsgatan 94 SE-113 44 STOCKHOLM Sweden
LINDSTRÖM, Magnus	Turebergs allé 18, Lgh 1101 SE-191 64 SOLLENTUNA Sweden
MOBERG, Peter	Timotejgatan 7 SE-118 59 STOCKHOLM Sweden
MÜLLER, Walter	Huginvägen 7 SE-194 62 UPPLANDS VÄSBY Sweden
ÖSTERGAARD, Jessica	Bråvallagatan 3 SE-113 36 STOCKHOLM Sweden
PELLETIER, Ghyslain	Bondevägen 57A SE-961 39 BODEN Sweden
SÄGFORS, Mats	Jungfrusvängen 33 G 12 FI-02400 KYRKSLÄTT Finland
TORSNER, Johan	Skogstorpssvägen 2 C9 FI-02430 MASABY Finland

(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 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(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

ASSIGNMENT

fully and entirely as the same would have been held and enjoyed by the Assignor(s) had this sale and assignment not been made:

Method and Arrangement in a Telecommunications System

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

Country Code	Priority Application(s)	Filing Date(s)
US	12/999983	2008-12-22
US	14/938,498	2015-11-11
		- -

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 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)

ASSIGNMENT

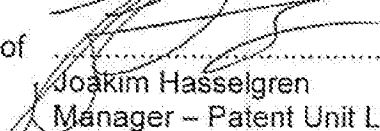
for Letters Patent or Utility Model, or any reissue or extension of any Letters Patent to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement, and defense of 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 2011-01-21 Signature on behalf of
Assignee

Joakim Hasselgren
Manager - Patent Unit LTE

ASSIGNMENT

Title: Method and Arrangement in a Telecommunications System

Date 20/4 - 2011 Signature of Assignor Carola Faronius
FARONIUS, Carola

Date 20/4 - 2011 Witnessed by Cecilia Lundgren
Name: Cecilia Lundgren
Address: Stråtvägen 15
18461 Åkersberg

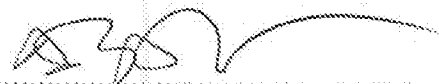
Date 20/4 - 2011 Witnessed by Soheila Aslani
Name: Soheila Aslani
Address: Jungfruenseu 36 str
171 56 Solna

ASSIGNMENT

Title: Method and Arrangement in a Telecommunications System

Date April 1st 2011

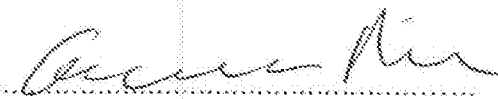
Signature of Assignor


 FURUSKÄR, Anders
Date April 1st 2011

Witnessed by

Name:

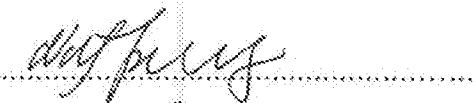
Address:


 GUNNAR MILDH
 Turebergs Allé 7
 19162 Sollentuna
 SWEDEN
Date 4/4 - 2011

Witnessed by

Name:

Address:


 NIKLAS JOHANSSON
 SKYTTELGRÄND 8
 171 38 SOLLENTUNA
 SWEDEN

ASSIGNMENT

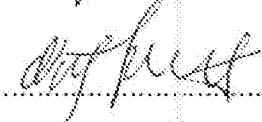
Title: Method and Arrangement in a Telecommunications System

Date 1. April 2011 Signature of Assignor

 LINDSTRÖM, Magnus
Date 1. April 2011 Witnessed by

Name:

Address:



NIKLAS JOHANSSON

SKYTTELGRÄNS 8

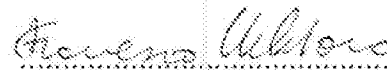
191 38 SOLLENTUNA

SWEDEN

Date 1/03/2011 Witnessed by

Name:

Address:



FRANCESCO MILITANO

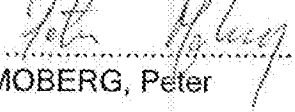
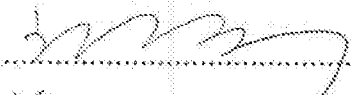

FRASCATAN 13

17420 STOCKHOLM

SWEDEN

ASSIGNMENT

Title: Method and Arrangement in a Telecommunications System

Date <u>April 5, 2011</u>	Signature of Assignor	<u></u> MOBERG, Peter
Date <u>April 5, 2011</u>	Witnessed by	<u></u>
	Name:	<u>YEONJU, CHOI</u>
	Address:	<u>95 Toeer, 679 Yeet-sam-dong</u> <u>Gangnam-gu, Seoul</u> <u>135-985 Korea</u>
Date <u>April 5, 2011</u>	Witnessed by	<u></u>
	Name:	<u>Peter Björn</u>
	Address:	<u>Le Zeman Lake Villas 2083</u> <u>101 100 Beijing</u> <u>China</u>

ASSIGNMENT

Title: Method and Arrangement in a Telecommunications System

Date 1/4 2011 Signature of Assignor Walter Müller
MÜLLER, Walter

Date 1/4 2011 Witnessed by Ingrid Nordstrand
Name: Ingrid Nordstrand
Address: Väckra Vägen 10B
17240 Suckbyberg
Sweden

Date 1/4 2011 Witnessed by Arash Beygzadeh
Name: Arash Beygzadeh
Address: Leviseckvägen 28
18750 Täby
Sweden

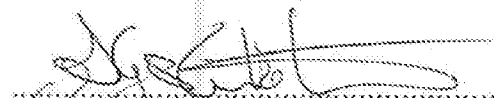
ASSIGNMENT

Title: Method and Arrangement in a Telecommunications System

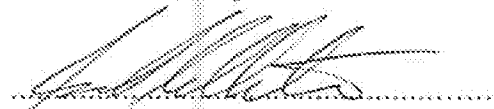
Date <u>2011-04-01</u>	Signature of Assignor	<u>[Signature]</u> OSTERGAARD, Jessica
Date <u>1/4 - 2011</u>	Witnessed by	<u>[Signature]</u>
	Name:	<u>NIKLAS JOHANSSON</u>
	Address:	<u>SEYTELLEANA 8</u>
		<u>191 38 SOLLENTUNA</u>
		<u>SWEDEN</u>
Date <u>4/03/2011</u>	Witnessed by	<u>[Signature]</u>
	Name:	<u>FRANCESCO MILITANO</u>
	Address:	<u>FREGATAN 13</u>
		<u>114 20</u>
		<u>STOCKHOLM</u>
		<u>SWEDEN</u>

ASSIGNMENT

Title: Method and Arrangement in a Telecommunications System

Date 2011/04/01 Signature of Assignor
PELLETIER, GhyslainDate 2011/04/01 Witnessed by

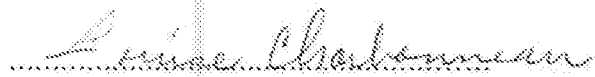
Name:


BENOIT PELLETIER

Address:

11, 13^e RUE
ROSSIGNOL PQ
H8Y 1L3Date 2014/07/01 Witnessed by

Name:


LOUISE CHARBONNEAU

Address:

2055 DE VALMONT
LAVAL QC
H7M 3J3

ASSIGNMENT

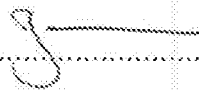
Title: Method and Arrangement in a Telecommunications System

Date 08.04.2011 Signature of Assignor


SÄGFORS, Mats

Date 08.04.2011 Witnessed by

Name:



..Janne Peisa.....

Address:

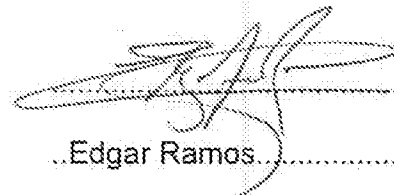
..Koivunlehtväkuja 3.....

..FIN-02130 Espoo.....

..FINLAND.....

Date 08.04.2011 Witnessed by

Name:



..Edgar Ramos.....

Address:

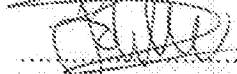
Kastevuorenkuja 3L 173


..FIN-02360 Espoo.....

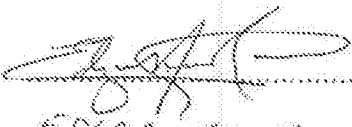
..FINLAND.....

ASSIGNMENT

Title: Method and Arrangement in a Telecommunications System

Date 19.4.2011 Signature of Assignor 
TORSNER, Johan

Date 19.4.2011 Witnessed by 
Name: KIMMO HILTUNEN
Address: PEURAMÄENTIE 2 B32
02750 ESPOO
FINLAND

Date 19.4.2011 Witnessed by 
Name: EDGAR RANTA
Address: KASTENJURNEKKA 34 172
02360 ESPOO
Finland