

Form PTO-1595 (Rev. 06/04)

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To the Director of the U.S. Patent and Trademark Office. Please record the attached documents or the address(es) below..

1. Name of conveying party(ies)/Execution Date(s):

Havish KOORAPATY	May 29, 2012
Robert BALDEMAIR	May 19, 2012
Jung-Fu CHENG	May 29, 2012
Mattias FRENNE	May 11, 2012
Daniel LARSSON	May 16, 2012

Additional name(s) of conveying party(ies) attached?
attached? Yes No

2. Name and address of receiving party(ies):

NAME: Telefonaktiebolaget L M Ericsson (publ)

ADDRESS: Torshamnsgatan 23, Kista
SE-164 83 Stockholm, Sweden

Additional name(s) & addresses(es) attached?

 Yes No

3. Name of Conveyance:

- Assignment Merger
 Security Agreement Change of Name
 Government Interest Assignment
 Executive Order 9424, Confirmatory License
 Other

4. Application number(s) or patent number(s):

 This document is being filed together with a new applicationA. Patent Application No.(s) 13/494,040

B. Patent No.(s)

Additional numbers attached? Yes No5. Name and address of party to whom
correspondence concerning document should be
mailed:

Name: Martin M. Zoltick
Address: Rothwell, Figg, Ernst & Manbeck
Suite 800
Street Address: 607 14th St., N.W.
City: Washington,
State: D.C. Zip: 20005
Telephone No.: 202/783-6040
Facsimile No.: 202/783-6031
Email Address: PTO-PAT-EMAIL@rfem.com
Attorney Docket No.: 3602-352

6. Total number of applications
and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00

- Enclosed
 Authorized to be charged to deposit account
 None required (government interest not affecting title)

8. Deposit account number: 02-2135Authorized User Name Martin M. Zoltick

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9. Signature

Signature Date 2012-06-11Martin M. Zoltick, Reg. No.35,745

Name of Person Signing

Total number of pages including cover sheet, attachments and documents: 9

CH \$40.00 022135 13494040

Attorney Docket No. 3602-352

ASSIGNMENT

This Assignment is made by:

Havish KOORAPATY13425 Kodiak Place
Saratoga, CA 95070**Robert BALDEMAIR**Angkarrsgatan 3
SE-171 70, Solna, Sweden**Jung-Fu CHENG**1731 Mandan Place
Fremont, CA 94539**Mattias FRENNE**Arkeologvagen 20
SE-754 43 Uppsala, Sweden**Daniel LARSSON**Birger Jarlsgatan 113C
SE-113 56 Stockholm, 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 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 fully and entirely as the same would have been held and enjoyed by the Assignor(s) had this sale and assignment not been made:

FLEXIBLE TRANSMISSION OF MESSAGES IN A WIRELESS COMMUNICATION SYSTEM

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

Country	Application No.	File Date
US	61523540	August 15, 2011

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

Attorney Docket No. 3602-352

ASSIGNMENT

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) 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

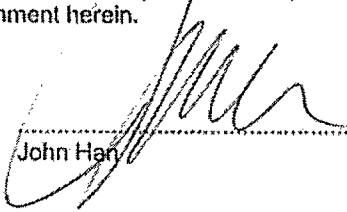
Attorney Docket No. 3602-352

ASSIGNMENT

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.

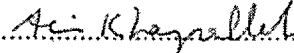
Date 6-4-2012 Signature on behalf of  John Han
Assignee


Attorney Docket No. 3602-352

ASSIGNMENT

Title: FLEXIBLE TRANSMISSION OF MESSAGES IN A WIRELESS COMMUNICATION SYSTEM

Date..... May 29, 2012 Signature of Assignor 
 Havish KOORAPATY

Date..... May 29, 2012 Witnessed by 
 Name: Ali Khayrallah
 Address: 1124 Boranda Ave
Mountain View, CA 94040

Date..... May 29, 2012 Witnessed by 
 Name: Chester Park
 Address: #2303 - 60 Descanso Dr.
San Jose CA 95134

Attorney Docket No. 3602-352

ASSIGNMENT

Title: FLEXIBLE TRANSMISSION OF MESSAGES IN A WIRELESS COMMUNICATION SYSTEM

Date: 2012-05-19 Signature of Assignor [Signature] Robert BALDEMAIR

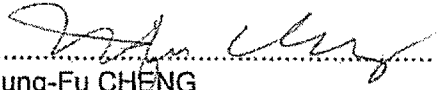
Date: 2012-05-17 Witnessed by [Signature] Name: ROBERTO ABRAMSON Address: ASGATAN 45 741 45 KNUSTA SWEDEN


Date: 2012-05-14 Witnessed by [Signature] Name: GORDAN KLAVS Address: BERGKANTAN 12 122 32 EUSKODE SWEDEN


Attorney Docket No. 3602-352

ASSIGNMENT

Title: FLEXIBLE TRANSMISSION OF MESSAGES IN A WIRELESS COMMUNICATION SYSTEM

Date 05/29/2012 Signature of Assignor 
 Jung-Fu CHENG

Date 05/29/2012 Witnessed by 
 Name: Ali Khayrallah
 Address: 1124 Boranda Ave
Mountain View, CA 94040

Date 5/29/2012 Witnessed by 
 Name: DENNIS HUI
 Address: 1019 HAVRE CT.
SUNNYVALE, CA 94087

Attorney Docket No. 3602-352

ASSIGNMENT

Title: FLEXIBLE TRANSMISSION OF MESSAGES IN A WIRELESS COMMUNICATION SYSTEM

Date: 2012-05-11 Signature of Assignor *Mattias Frenne*
Mattias FRENNE

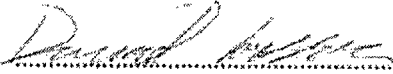
Date: 2012-05-11 Witnessed by *Ann-Cathrin Wennerström*
Name: *Ann-Cathrin Wennerström*
Address: *Vårbröds v. 32*
74142 Karlstad
Sweden

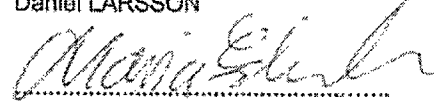
Date: 2012-05-11 Witnessed by *Marianne Frøme*
Name: *Marianne Frøme*
Address: *Arkeologv. 20*
75743 Uppsala
Sweden

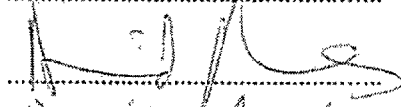
Attorney Docket No. 3602-352

ASSIGNMENT

Title: FLEXIBLE TRANSMISSION OF MESSAGES IN A WIRELESS COMMUNICATION SYSTEM

Date 21-12-05-16 Signature of Assignor 
 Daniel LARSSON

Date 22-12-05-16 Witnessed by 
 Name: Marie Edvardsson
 Address: Sjöbrödersväg 17
17270 Järfälla
Sweden

Date 28-12-05-16 Witnessed by 
 Name: David Astely
 Address: Stalansvägen 22
168 56 Bromma
Sweden