

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the Corrective assignment to re- record assignment previously recorded on Reel 020973 Frame 0570. Assignor(s) hereby confirms the to correct Assignor Name from "Anders Fu" to "Anders Furuskar".										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Niclas Wiberg</td> <td>04/14/2008</td> </tr> <tr> <td>Pal Frenger</td> <td>04/14/2008</td> </tr> <tr> <td>Anders Furuskar</td> <td>04/15/2008</td> </tr> <tr> <td>Stefan Parkvall</td> <td>04/15/2008</td> </tr> </tbody> </table>		Name	Execution Date	Niclas Wiberg	04/14/2008	Pal Frenger	04/14/2008	Anders Furuskar	04/15/2008	Stefan Parkvall	04/15/2008
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Niclas Wiberg	04/14/2008										
Pal Frenger	04/14/2008										
Anders Furuskar	04/15/2008										
Stefan Parkvall	04/15/2008										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Telefonaktiebolaget LM Ericsson (publ)</td> </tr> <tr> <td>Street Address:</td> <td>SE 164 83</td> </tr> <tr> <td>City:</td> <td>Stockholm</td> </tr> <tr> <td>State/Country:</td> <td>SWEDEN</td> </tr> <tr> <td>Postal Code:</td> <td>SE-164 83</td> </tr> </table>		Name:	Telefonaktiebolaget LM Ericsson (publ)	Street Address:	SE 164 83	City:	Stockholm	State/Country:	SWEDEN	Postal Code:	SE-164 83
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Postal Code:	SE-164 83										
PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12066347</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12066347						
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Application Number:	12066347										
CORRESPONDENCE DATA											
<p>Fax Number: 9725837864 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 972-583-4795 Email: kathryn.lopez@ericsson.com Correspondent Name: William Tucker Address Line 1: 6300 Legacy Drive Address Line 2: MS EVR 1C11 Address Line 4: Plano, TEXAS 75024</p>											
ATTORNEY DOCKET NUMBER:	P20830-US1										

CH \$40.00 12066347

NAME OF SUBMITTER:	William J. Tucker
Signature:	/William J. Tucker, Reg No. 41356/
Date:	07/09/2013
Total Attachments: 12 source=P20830-US1 Cover Sheet and NOR#page1.tif source=P20830-US1 Cover Sheet and NOR#page2.tif source=P20830-US1 Cover Sheet and NOR#page3.tif source=P20830-US1 Cover Sheet and NOR#page4.tif source=P20830-US1 Cover Sheet and NOR#page5.tif source=P20830-US1 Cover Sheet and NOR#page6.tif source=P20830-US1 Cover Sheet and NOR#page7.tif source=P20830-US1_Assignment#page1.tif source=P20830-US1_Assignment#page2.tif source=P20830-US1_Assignment#page3.tif source=P20830-US1_Assignment#page4.tif source=P20830-US1_Assignment#page5.tif	

TO:MICHAEL CAMERON COMPANY:6300 LEGACY DRIVE



UNITED STATES PATENT AND TRADEMARK OFFICE

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


MAY 20, 2008

500544773

PTAS

 MICHAEL CAMERON
 6300 LEGACY DRIVE
 MS EVR 1C11
 PLANO, TX 75024

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RECORDATION DATE: 05/20/2008

REEL/FRAME: 020973/0570

NUMBER OF PAGES: 7

 BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).
 DOCKET NUMBER: P20830-US1

ASSIGNOR:

WIBERG, NICLAS

DOC DATE: 04/14/2008

ASSIGNOR:

FRENGER, PAL

DOC DATE: 04/14/2008

ASSIGNOR:

FU, ANDERS

DOC DATE: 04/15/2008

ASSIGNOR:

PARKVALL, STEFAN

DOC DATE: 04/15/2008

ASSIGNEE:

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

TO:MICHAEL CAMERON COMPANY:6300 LEGACY DRIVE

020973/0570 PAGE 2

SERIAL NUMBER: 12066347

FILING DATE:

PATENT NUMBER:

ISSUE DATE:

TITLE: EFFICIENT ENCODING OF CONTROL SIGNALING FOR COMMUNICATION SYSTEMS
WITH SCHEDULING AND LINK

ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

TO:MICHAEL CAMERON COMPANY:6300 LEGACY DRIVE

PATENT ASSIGNMENT

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**05/20/2008
 500544773**

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Niclas Wiberg	04/14/2008
Pal Frenger	04/14/2008
Anders Fu	04/15/2008
Stefan Parkvall	04/15/2008

RECEIVING PARTY DATA

Name:	TELEFONAKTIEBOLAGET L M ERICSSON (PUBL)
Street Address:	SE-164 83
City:	Stockholm
State/Country:	SWEDEN
Postal Code:	SE-164

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12066347

CORRESPONDENCE DATA

Fax Number: (972)583-7864
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
 Phone: 972-583-4145
 Email: nancy.lamberti@ericsson.com
 Correspondent Name: Michael Cameron
 Address Line 1: 6300 Legacy Drive
 Address Line 2: MS EVR 1C11
 Address Line 4: Plano, TEXAS 75024

ATTORNEY DOCKET NUMBER:	P20830-US1
NAME OF SUBMITTER:	Michael Cameron

Total Attachments: 5

CH \$40.00 12066347

TO:MICHAEL CAMERON COMPANY:6300 LEGACY DRIVE

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TO: MICHAEL CAMERON COMPANY: 6300 LEGACY DRIVE



UNITED STATES PATENT AND TRADEMARK OFFICE

Facsimile Transmission

To: Name: MICHAEL CAMERON
Company: 6300 LEGACY DRIVE
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From: Name: ASSIGNMENT SERVICES BRANCH
Voice Phone: 571-272-3350

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Receipt Date:	05/20/2008
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Assignment Letter

In consideration of One Dollar and Other good and valuable consideration, of which we acknowledge receipt, we,

1. Niclas Wiberg, a citizen of Sweden residing at Linköping, Sweden
2. Pål Frenger, a citizen of Sweden residing at Linköping, Sweden
3. Anders Furuskär, a citizen of Sweden residing at Stockholm, Sweden,

and

4. Stefan Parkvall, a citizen of Sweden residing at Stockholm, Sweden

sell and assign to **Telefonaktiebolaget L M Ericsson (publ)**, a corporation organized under the laws of Sweden (the Company), having registered offices at SE-164 83 Stockholm, Sweden, its successors and assigns the entire right, title, and interest in and to the improvements in **Efficient Encoding of Control Signaling for Communication Systems With Scheduling and Link**, invented by us, as described in the application for United States patent which is a national stage application of PCT international application number PCT/SE2005/001305 with an international filing date of 09-09-2005, and any and all applications for patent and patents therefor in any and all countries, including all divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said United States application, and authorize and request any official whose duty it is to issue patents, to issue any patents on said improvements or resulting therefrom to said Company, or its successors or assigns and agree that on request and without further consideration, but at the expense of said Company, we will communicate to said Company or its representatives or nominees any facts known to us respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid said Company, its successors, and nominees to obtain and enforce proper patent protection for said improvements in all countries.

Assignment Letter

April 14, 2008
Date

Niclas Wiberg
NICLAS WIBERG
First Inventor

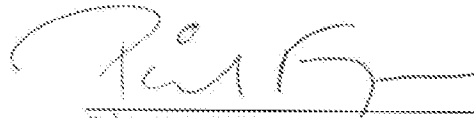
On the Mon day of April 14, 2008, before us personally appeared Niclas Wiberg, to us known and known to us to be the individual named in and who executed the foregoing instrument, and acknowledged that he/she executed the same.

Jon Olsson Jonas Friberg Olsson Nilsson 9 Södra Ljungerg
Witness 1 Signature Print Name Address SWEDEN

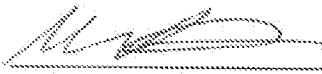
Olle Rosin Olle Rosin Palmvassgata 12, S-17372
Witness 2 Signature Print Name Address LUTSKÖPING SWEDEN

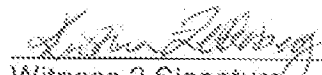
Assignment Letter

April 14 - 2008
Date


PAL FRENGER
Second Inventor

On the 14 day of APRIL, 2008, before us personally appeared Pål Frenger, to us known and known to us to be the individual named in and who executed the foregoing instrument, and acknowledged that he/she executed the same.


Witness 1 Signature Mehdi Amirjoo Rehusgården 51 59217 Lilla, Sweden
Print Name Address


Witness 2 Signature Kristina Zetterberg Ulvåsen 10, 58247, Link, Sweden
Print Name Address

Assignment Letter

April 15 2008
Date

[Signature]
ANDERS FURUSKÄR
Third Inventor

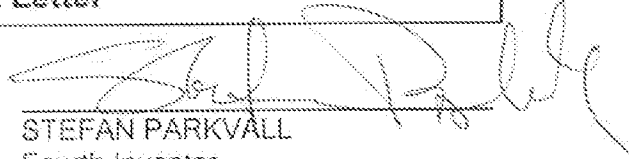
On the 15th day of April, 2008, before us personally appeared Anders Furuskär, to us known and known to us to be the individual named in and who executed the foregoing instrument, and acknowledged that he/she executed the same.

[Signature] ARA AUTO PROFESSORSLINGAN 39, STOCKHOLM
Witness 1 Signature Print Name Address

[Signature] PER SKILLERMARK VITALISV. 13, 112 55 STOCKHOLM
Witness 2 Signature Print Name Address

Assignment Letter

April 15, 2008
Date


STEFAN PARKVALL
Fourth Inventor

On the 15 day of April, 2008, before us personally appeared Stefan Parkvall, to us known and known to us to be the individual named in and who executed the foregoing instrument, and acknowledged that he/she executed the same.

George Jansson George Jansson Karlsvidsg R., 112 41 Stockholm
Witness 1 Signature Print Name Address

Magnus Olsson Magnus Olsson Sigtuna 720, 75326 VISALA, Sweden
Witness 2 Signature Print Name Address