

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Per Johan Torsner</td><td>04/11/2008</td></tr><tr><td>Michael Meyer</td><td>04/11/2008</td></tr><tr><td>Shyam Chakraborty</td><td>04/15/2008</td></tr><tr><td>Mats Sagfors</td><td>04/28/2008</td></tr></tbody></table>	Name	Execution Date	Per Johan Torsner	04/11/2008	Michael Meyer	04/11/2008	Shyam Chakraborty	04/15/2008	Mats Sagfors	04/28/2008	
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Per Johan Torsner	04/11/2008										
Michael Meyer	04/11/2008										
Shyam Chakraborty	04/15/2008										
Mats Sagfors	04/28/2008										
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											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12090637</td></tr></tbody></table>	Property Type	Number	Application Number:	12090637							
Property Type	Number										
Application Number:	12090637										
CORRESPONDENCE DATA											
Fax Number:	(972)583-7864										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
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Address Line 4:	Plano, TEXAS 75024										
ATTORNEY DOCKET NUMBER:	P21169-US1										
NAME OF SUBMITTER:	Thomas Bethea, Jr.										
Total Attachments: 5											

CH \$40.00 12090637

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PATENT  
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## Assignment Letter

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

1. Per Johan Torsner, a citizen of Sweden residing at Masaby, Sweden
2. Michael Meyer, a citizen of Germany residing at Aachen, Germany
3. Shyam Chakraborty, a citizen of India residing at Espoo, Finland, and
4. Mats Sågfors, a citizen of Finland residing at Kyrkslätt, Finland,

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 UPLINK CELL CHANGES IN A MOBILE COMMUNICATION NETWORK, invented by us, as described in the application for United States patent which is a national stage application of PCT international application number PCT/EP2005/056776 with an international filing date of 12/14/2005, 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

11.8.2008  
Date

  
PER JOHAN TORSNER  
First Inventor

On the 11th day of April, 2008, before us personally appeared Per Johan Torsner, 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.



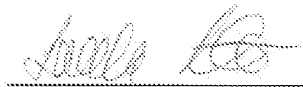
Witness 1 Signature

JOSE LUIS PRADAS ADAN

Print Name

KILCONQUING 105 115, ESP00

Address



Witness 2 Signature

Laura Knecht

Print Name

Johannesstrasse 10 P 82 02150 ERM

Address

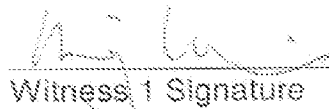
Assignment Letter

11.4.2008

Date

  
MICHAEL MEYER  
Second Inventor

On the 11 day of April, 2008, before us personally appeared Michael Meyer, 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

Henning Wiemann  
Print Name

Kelmserlegweg 7  
52080 Aachen Germany  
Address

  
Witness 2 Signature

Joachim Sauc  
Print Name

Viktoria Allee 23  
52061 Aachen Germany  
Address

Assignment Letter

15.06.2008  
Date

SHYAM CHAKRABORTY  
Third Inventor

On the 15<sup>th</sup> day of June, 2008, before us personally appeared SHYAM CHAKRABORTY, 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.

<u>[Signature]</u>	<u>Liam Macneil</u>	<u>Univ. of Ulster, Derry, N.Ire</u>
Witness 1 Signature	Print Name	Address <u>BT48 7JL</u>
<u>[Signature]</u>	<u>Kevin Cuckow</u>	<u>Univ. of Ulster, Derry, BT48 7JL</u>
Witness 2 Signature	Print Name	Address

Assignment Letter

28.04.2008  
Date

Mats Sägfors  
MATS SAGFORS  
Fourth Inventor

On the 28 day of April, 2008, before us personally appeared Mats Sägfors, 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.

<u>[Signature]</u>	<u>RIMMASOSIPIVAL</u>	<u>MANSKV 82 00250 HESINE</u>
Witness 1 Signature	Print Name	Address
		<u>FINLAND</u>
<u>[Signature]</u>	<u>STEFAN WIGG</u>	<u>GÄRVEDEN 84 02360 CSKO, FINLAND</u>
Witness 2 Signature	Print Name	Address