

## PATENT ASSIGNMENT COVER SHEET

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Stylesheet Version v1.2

EPAS ID: PAT3971921

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
BO GÖRANSSON	05/08/2009
PER JOHAN TORSNER	05/11/2009
STEFAN PARKVALL	04/29/2009
<b>RECEIVING PARTY DATA</b>	
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<b>State/Country:</b>	SWEDEN
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15205112
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<b>Fax Number:</b>	(919)854-2084
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<b>ATTORNEY DOCKET NUMBER:</b>	4015-9267
<b>NAME OF SUBMITTER:</b>	STEPHEN A. HERRERA
<b>SIGNATURE:</b>	/Stephen A. Herrera, Reg. No. 47,642/
<b>DATE SIGNED:</b>	07/21/2016
<b>Total Attachments: 4</b>	
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**ASSIGNMENT**

For good and valuable consideration,

Bo Göransson, a citizen of Sweden, residing at  
Silverdalsvägen 67  
SE-191 38 Sollentuna  
Sweden


Per Johan Torsner, a citizen of Finland, residing at  
Skogstorpsvägen 2 C9  
FI-02430 Masaby  
Finland

Stefan Parkvall, a citizen of Sweden, residing at  
Västmannagatan 53  
SE-113 25 Stockholm  
Sweden


hereby assign(s) to Telefonaktiebolaget LM Ericsson (publ), having its principal place of  
business at  
SE-164 83 Stockholm  
Sweden

the entire right, title, and interest in and to the **HARQ IN SPATIAL MULTIPLEXING MIMO SYSTEM** which is disclosed in U. S. Patent Application Serial Number 12/447,522 filed on April 28, 2009 and for any and all patents granted therefore, in any and all countries, including continuations, continuations-in-part, divisionals, reissues and extensions thereof, and all rights of priority resulting from the filing of said U.S. application to be held and enjoyed by **Telefonaktiebolaget LM Ericsson (publ)**, its successors, and assigns, as fully and entirely as the same would have been held and enjoyed by **Bo Göransson, Per Johan Torsner and Stefan Parkvall** had this assignment not been made.

MAY 8, 2009  
Date

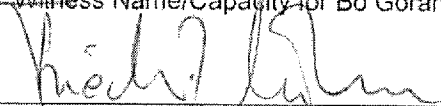
  
Bo Göransson

MAY 8, 2009  
Date

  
Witness Signature


Christer Falk  
Witness Name/Capacity for Bo Göransson

MAY 8, 2009  
Date

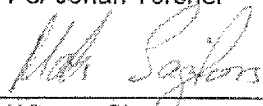
  
Witness Signature

Friedrich Kühn  
Witness Name/Capacity for Bo Göransson

11 May 2009  
Date


  
Per Johan Torsner

11 May 2009  
Date

  
Witness Signature

MATS SALOFORS  
Witness Name/Capacity for Per Johan Torsner

11 May 2009  
Date

  
Witness Signature

STEFAN WAGER  
Witness Name/Capacity for Per Johan Torsner

\_\_\_\_\_  
Date

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Stefan Parkvall

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Date

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Witness Signature

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Witness Name/Capacity for Stefan Parkvall

\_\_\_\_\_  
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Date

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Bo Göransson

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Date

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Witness Signature

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Witness Name/Capacity for Bo Göransson

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Per Johan Torsner

Date

Witness Signature

Witness Name/Capacity for Per Johan Torsner

Date

Witness Signature

Witness Name/Capacity for Per Johan Torsner

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Date



Stefan Parkvall

2009-04-29

Date



Witness Signature

Magnus Olsson

Witness Name/Capacity for Stefan Parkvall

Date



Witness Signature

Witness Name/Capacity for Stefan Parkvall