PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:		NEW ASSIGNMENT					
NATURE OF CONVEYANCE:		ASSIGNMENT					
CONVEYING PARTY DATA	CONVEYING PARTY DATA						
		Name	Execution Date				
Luca Cutrignelli 04/15/2011							
RECEIVING PARTY DATA							
Name: ST-E	Ericsson SA						
Street Address: Cher	emin-des-Fille	39					
City: Plan	n-les-Ouates						
State/Country: SWI	ITZERLAND						
Postal Code: 1228	8						
PROPERTY NUMBERS Tot	otal: 1						
Property Type		Number					
Application Number: 13079		79352					
CORRESPONDENCE DATA							
Fax Number:(919)361-0734Correspondence will be sent via US Mail when the fax attempt is unsuccessful.Email:mike@ppglaw.comCorrespondent Name:Michael G. SavageAddress Line 1:4819 Emperor Blvd Fl 4Address Line 4:Durham, NORTH CAROLINA 27703							
ATTORNEY DOCKET NUMBER:		0113-014					
NAME OF SUBMITTER:		Michael G. Savage					
Total Attachments: 6 source=20110516 Assignment 0113-014#page1.tif source=20110516 Assignment 0113-014#page2.tif source=20110516 Assignment 0113-014#page3.tif source=20110516 Assignment 0113-014#page5.tif source=20110516 Assignment 0113-014#page6.tif PATENT							

This Assignment is made by:

CUTRIGNELLI, Luca

rue de l'Orient 77 1040 Brussels, Belgium

(hereinafter referred to as "Assignor(s)") in favor, and for the benefit and behoof of, ST-Ericsson SA, a corporation duly organized under and pursuant to the laws of Switzerland and having its registered address at Chemin du Champ-des-Filles 39, 1228 Plan-les-Ouates, Switzerland (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 therefore 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 Assigneent not been made:

Channel Randomization for Backoff Efficiency Improvement

Country	Application No.	File Date	
US	13/079,352	4 Apr 2011	

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

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

Assignor(s) hereby authorize and request Assignee and/or 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 thereinafter. 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) or 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.

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 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, but at the cost and expense of the 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:

Switzerland

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.

Nato 2011-05-12

Signature on behalf of Assignee

Peter Ericsson Nestler

Page 2 of 3

PATENT REEL: 026281 FRAME: 0558

Title: Channel Randomization for Backoff Efficiency Improvement

Date 15/04/2011

Signature of Assignor

Witnessed by

Name: Address:

La Citit

CUTRIGNELLI, Luca

Càu

GEERT SONCH GROTE BAAN 116

8310 HERDERSEM BELGIUM.

Date 25/4/2013

Witnessed by

Name:

Address:

Varosterde

PAUL VANOOSTENDE KLEINE WOUWER 25/3 1860 MEISE

BELGIUM.

Page 3 of 3

This Assignment is made by:

CUTRIGNELLI, Luca

rue de l´Orient 77 1040 Brussels, Belgium

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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 therefore 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 Assignment not been made:

BLE:Scanning Channels Randomization Improving Backoff Algorithm Efficiency

Country	Application No.	File Date	
US	61/388,225	30 Sep 2010	

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

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

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Page 1 of 3

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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 2011-08-12

Signature on behalf of Assignee

Peter Ericsson Nestler

Page 2 of 3

PATENT REEL: 026281 FRAME: 0561

Title: BLE:Scanning Channels Randomization Improving Backoff Algorithm Efficiency

Date 15/04/2011

Signature of Assignor

de Cotil

CUTRIGNELLI, Luca

Date 15/04/2011

Witnessed by

Name:

Address:

6 Soul -

GEERT SONCK

GROTE BAAN, 116

9310 HERDERSEM

BELGIVM

Date 15/4/2011

Witnessed by

Name:

Address:

Vancost	ende	
PAUL		
		,

KLEINE WOUWER 25/3

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BELGIUM

Page 3 of 3