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PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
Pierpaolo GHIGGINO	02/02/2012
Alberto BIANCHI	03/07/2012
Fabio CAVALIERE	02/03/2012
Antony THORLEY	03/09/2012

RECEIVING PARTY DATA

Name:	Telefonaktiebolaget LM Ericsson (publ)	
Street Address:	Torshamnsgatan 23	
City:	Stockholm	
State/Country:	SWEDEN	
Postal Code:	SE-164 83	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13388151

CORRESPONDENCE DATA

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via US Mail.

Correspondent Name: John R. Lastova

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ATTORNEY DOCKET NUMBER: JRL-2380-1846

NAME OF SUBMITTER: John R. Lastova

PATENT

REEL: 028049 FRAME: 0610

OP \$40.00 13388151

Total Attachments: 7 source=2380_1846_Assign_signed#page1.tif source=2380_1846_Assign_signed#page2.tif source=2380_1846_Assign_signed#page3.tif source=2380_1846_Assign_signed#page4.tif source=2380_1846_Assign_signed#page5.tif source=2380_1846_Assign_signed#page6.tif source=2380_1846_Assign_signed#page7.tif

PATENT REEL: 028049 FRAME: 0611

This Assignment is made by:

Pierpaolo GHIGGINO	27 Woodcote Road, Leamington Spa , United Kingdom CV32 6PZ
Alberto BIANCHI	Via Milazzo 79, Marina di Pisa, Italy 56128
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July Midey	23, Kemps Green Road, Balsall Common, Near Coventry, United Kingdom CV7 FOE
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(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:

APPARATUS AND METHOD FOR OPERATING A WAVELENGTH DIVISION MULTIPLEXING ACCESS NETWORK

1938133

PATENT REEL: 028049 FRAME: 0612

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

Country	Application No.	File Date
EP	PCT/EP2009/059932	31 July 2009
US	13/388,151	January 31, 2012

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

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 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) 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

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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:

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	Signature Assignee	on	behalf	of	
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# Title: APPARATUS AND METHOD FOR OPERATING A WAVELENGTH DIVISION MULTIPLEXING ACCESS NETWORK

Date 2 Rebriary ZOLS	Signature of Assignor	Pierpaolo HIGGINO
Date. 2. Fe8 RVM.Y.	Witnessed by	m. Chites
	Name:	M. CHAISTENSEV
	Address:	25 WOODCOTE RD LEAMINGTON SPA
		CV32 6PZ
Date 21th February 2012.	Witnessed by	LE Glassia
	Name:	MRS R GHIGGINO
	Address:	27 WOODCOTE ROAD LEAMINGTON SPA
		CV32 612

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Title: APPARATUS AND METHOD FOR OPERATING A WAVELENGTH DIVISION MULTIPLEXING ACCESS NETWORK

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Date0336.12	Signature of Assignor	Alberto BIANCHI
Date	Witnessed by	5777.00.00 57.00.00
	Name:	Sel Hame
	Address:	VID PIERO DI PUCCIOS
	-	56124 PISA (PI)
		necession and a second
Date	Witnessed by	Mexico R. Qui
	Name:	MARZIO PULERI
	Address:	VIA VENEZIA 47/A 00065
		FANO ROHANO (RH)
		<u> </u>

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Title: APPARATUS AND METHOD FOR OPERATING A WAVELENGTH DIVISION MULTIPLEXING ACCESS NETWORK

		U 0 12 V
Date	Signature of Assignor	HEO WOO SI
		Fabio CAVALIERE
Landing to the second s		
Date♀	Witnessed by	militarian de la companya del companya del companya de la companya
	Name:	CARHEN MONACO
	Address:	DE PRINCESSE AIL
		56.0-470 JASSER (HI)
		Pisa
Date9.31.9.01.03.50	Witnessed by	VERONICA TINVER!
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		57128 LIVORNO
	Transference (Control of Control	ITALY

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Title: APPARATUS AND METHOD FOR OPERATING A WAVELENGTH DIVISION MULTIPLEXING ACCESS NETWORK

Date9./.3/2-0/2-	Signature of Assignor	Antony THORLEY
Date9/.0.5/.40/.2	Witnessed by	Honike Kochanovske-Tym
	Name:	Kolosla
rakonson ar inteks ar anna caractera (an a anna 1, gira anna 1, gira (a a anna 1, gira anna anna dha ann anna anna anna anna	Address:	Flat 12 Six Walter Kaleign God 48 Banning street LONDON SE10 OFD
Date09.10372042	Witnessed by	Stamphy Papadabyla
	Name:	(B)
	Address:	66 Thiveby Road, NOT IBO Loudou
		NOT IRQ Louday
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