PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Nizar ZORBA BARAH	10/09/2009
Marc REALP CAMPALANS	10/09/2009
Ana Isabel PEREZ NEIRA	10/09/2009

RECEIVING PARTY DATA

Name:	FUNDACIO PRIVADA CENTRE TECNOLOGIC DE TELECOMUNICACIONS DE CATALUNYA	
Street Address:	Parc Mediterrani de la Tecnologia Avda.	
Internal Address:	Canal Olimpic s/n	
City:	CASTELLDEFELS (BARCELONA)	
State/Country:	SPAIN	
Postal Code:	E-08860	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12679167

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER: HERR24283 (100700-00259)

NAME OF SUBMITTER: Hassan A. Shakir

PATENT REEL: 024109 FRAME: 0592 \$40.00 1267

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Total Attachments: 2

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> PATENT REEL: 024109 FRAME: 0593

ASSIGNMENT

an application for a Patent of the United States was filed on March 19, 2010 and given Application Serial No. 12/679,167 and WHEREAS, FUNDACIO PRIVADA CENTRE TECNOLOGIC DE TELECOMUNICACIONS DE CATALUNYA

WHEREAS, the below named inventor, ASSIGNOR, has made a certain new and useful invention in:

<u>BEAMFORMING TECHNIQUE FOR BROAD BAND CATELLITE COMMUNICATIONS</u>

[] an application is being filed concurrently herewith,

for which

(check one)

Inventor's Signature _______ Residence _ CAS 7EUDE FEU

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having a place of business at Parc Mediterrani de la Techologia Avda. Canal Olimpic s/n, 68860 CASTELLDEFELS, BARCELONA ASSIGNEE				
is desirous of obtaining the entire right, title and interest in, to and under the said invention and the said application.				
NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, the said ASSIGNOR has sold, assigned, transferred and set over, and by these presents does hereby sell, assign, transfer and set over, into the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title and interest in, to and under the said invention, and the said United States application and all divisions, renewals and continuations thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof, and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States, together with the right to file such applications and the right to claim for the same the priority rights derived from said United States application under the Patent Laws of the United States, the International Convention for the Protection of Industrial Property, or any other international agreement of the domestic laws of the country in which any such application is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventor's certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;				
ASSIGNOR authorizes and requests the Commissioner of Patents and Trademarks of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument; and				
ASSIGNOR covenants and agrees that he has full right to convey the entire interest herein assigned, and has not executed, and will not execute, any agreement in conflict herewith; and				
ASSIGNOR further covenants and agrees that he will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries.				
Full name of first inventor				
NIZAR ZORBA BARAH				

Citizenship

PATENT REEL: 024109 FRAME: 0594

Docket No. HERR 24283 (100700-00259)

Full name of second inventor	
MARC REALP CAMPALANS	
Inventor's Signature	Date 5/10/04
Residence CAS 1 EUDE FELS (ASACTORA)	Citizenship SPAMS H
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Full name of third inventor	
	Chiefe
Inventor's Cignature	Date 5/10/07
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Full name of fourth inventor	
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Residence	Citizenship
Post Office Address	
Full name of fifth inventor	
Inventor's Signature	Date
Residence	Citizenship
Post Office Address	
Full name of sixth inventor	
Inventor's Signature	_ Date
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Post Office Address	
Full name of seventh inventor	72.4
Inventor's Signature	Citizenship.
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Full name of eighth inventor	Date
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Full name of ninth inventor	
Inventor's Signature	Date
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Full name of tenth inventor	
Inventor's Signature	Date
Residence	Citizenship
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Full name of eleventh inventor	
Inventor's Signature	Date
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PATENT REEL: 024109 FRAME: 0595