

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>Antonio Ortega</td> <td>09/23/2011</td> </tr> <tr> <td>Sunil K. Narang</td> <td>09/27/2011</td> </tr> <tr> <td>Godwin Shen</td> <td>08/18/2011</td> </tr> <tr> <td>Javier Perez-Trufero</td> <td>08/15/2011</td> </tr> </tbody> </table>		Name	Execution Date	Antonio Ortega	09/23/2011	Sunil K. Narang	09/27/2011	Godwin Shen	08/18/2011	Javier Perez-Trufero	08/15/2011
Name	Execution Date										
Antonio Ortega	09/23/2011										
Sunil K. Narang	09/27/2011										
Godwin Shen	08/18/2011										
Javier Perez-Trufero	08/15/2011										
RECEIVING PARTY DATA											
Name:	University of Southern California										
Street Address:	USC Stevens, Hughes Center Suite EEB 131										
Internal Address:	3740 McClintock Avenue										
City:	Los Angeles										
State/Country:	CALIFORNIA										
Postal Code:	90089-2561										
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>13181493</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13181493						
Property Type	Number										
Application Number:	13181493										
CORRESPONDENCE DATA											
Fax Number:	(877)769-7945										
Phone:	(858) 678-5070										
Email:	apsi@fr.com										
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>											
Correspondent Name:	John-Paul Fryckman										
Address Line 1:	FISH & RICHARDSON P.C.										
Address Line 2:	P.O.BOX 1022										
Address Line 4:	MINNEAPOLIS, MINNESOTA 55440-1022										
ATTORNEY DOCKET NUMBER:	20275-0294002										
NAME OF SUBMITTER:	John-Paul Fryckman										

CH \$40.00 13181493

Total Attachments: 4

source=Assignment#page1.tif

source=Assignment#page2.tif

source=Assignment#page3.tif

source=Assignment#page4.tif

ASSIGNMENT

For valuable consideration, we, ANTONIO ORTEGA of 806 S. Stanley Avenue, Los Angeles, California 90036, SUNIL NARANG of 3740 McClintock Ave, EEB #434, Los Angeles, CA 90089, GODWIN SHEN of 343 S Madison Ave. Apt 17, Pasadena, CA, 91101, JAVIER PEREZ-TRUFERO of Joan Ripoll i Trobat n°29 2-D, 07013, Palma de Mallorca, Balearic Islands, Spain, hereby assign to: University of Southern California, a corporation of California having a place of business at: USC Stevens, Hughes Center Suite EEB 131, 3740 McClintock Ave., Los Angeles, CA 90089-2561; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled DISTRIBUTED TRANSFORMS FOR EFFICIENT DATA GATHERING IN SENSOR NETWORKS, filed 7/12/2011, and assigned U.S. Serial Number 13/181,493, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: 9/23/2011

A. Ortega
ANTONIO ORTEGA

Date: _____

SUNIL NARANG

Date: _____

GODWIN SHEN

Date: _____

JAVIER PEREZ-TRUFERO

ASSIGNMENT

For valuable consideration, we, ANTONIO ORTEGA of 806 S. Stanley Avenue, Los Angeles, California 90036, SUNIL NARANG of 3740 McClintock Ave, EEB #434, Los Angeles, CA 90089, GODWIN SHEN of 343 S Madison Ave, Apt 17, Pasadena, CA, 91101, JAVIER PEREZ-TRUFERO of Joan Ripoll i Trobat n°29 2-D, 07013, Palma de Mallorca, Balearic Islands, Spain, hereby assign to: University of Southern California, a corporation of California having a place of business at: USC Stevens, Hughes Center Suite EEB 131, 3740 McClintock Ave., Los Angeles, CA 90089-2561; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled DISTRIBUTED TRANSFORMS FOR EFFICIENT DATA GATHERING IN SENSOR NETWORKS, filed 7/12/2011, and assigned U.S. Serial Number 13/181,493, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: _____

ANTONIO ORTEGA

Date: Sep 27, 2011

SUNIL NARANG *[Signature]*

[Signature] K. Narang

Date: _____

GODWIN SHEN

Date: _____

JAVIER PEREZ-TRUFERO

ASSIGNMENT

For valuable consideration, we, ANTONIO ORTEGA of 806 S. Stanley Avenue, Los Angeles, California 90036, SUNIL NARANG of 3740 McClintock Ave, EEB #434, Los Angeles, CA 90089, GODWIN SHEN of 343 S Madison Ave, Apt 17, Pasadena, CA, 91101, JAVIER PEREZ-TRUFERO of Joan Ripoll i Trobat nº29 2-D, 07013, Palma de Mallorca, Balearic Islands, Spain, hereby assign to: University of Southern California, a corporation of California having a place of business at: USC Stevens, Hughes Center Suite EEB 131, 3740 McClintock Ave., Los Angeles, CA 90089-2561; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled DISTRIBUTED TRANSFORMS FOR EFFICIENT DATA GATHERING IN SENSOR NETWORKS, filed 7/12/2011, and assigned U.S. Serial Number 13/181,493, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: _____

ANTONIO ORTEGA

Date: _____

SUNIL NARANG

Date: 8/18/11

Godwin Shen

GODWIN SHEN

Date: _____

JAVIER PEREZ-TRUFERO

ASSIGNMENT

For valuable consideration, we, ANTONIO ORTEGA of 806 S. Stanley Avenue, Los Angeles, California 90036, SUNIL NARANG of 3740 McClintock Ave, EEB #434, Los Angeles, CA 90089, GODWIN SHEN of 343 S Madison Ave, Apt 17, Pasadena, CA, 91101, JAVIER PEREZ-TRUFERO of Joan Ripoll i Trobat n°29 2-D, 07013, Palma de Mallorca, Balearic Islands, Spain, hereby assign to: University of Southern California, a corporation of California having a place of business at: USC Stevens, Hughes Center Suite EEB 131, 3740 McClintock Ave., Los Angeles, CA 90089-2561; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled DISTRIBUTED TRANSFORMS FOR EFFICIENT DATA GATHERING IN SENSOR NETWORKS, filed 7/12/2011, and assigned U.S. Serial Number 13/181,493, this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our name or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

Date: _____
ANTONIO ORTEGA

Date: _____
SUNIL NARANG

Date: _____
GODWIN SHEN

Date: 8/15/2011

JAVIER PEREZ-TRUFERO