501917123 05/10/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Joydeep ACHARYA	05/09/2012
Long GAO	05/09/2012
Sudhanshu GAUR	05/09/2012

RECEIVING PARTY DATA

Name:	HITACHI, LTD.
Street Address:	6-6, Marunouchi 1-chome, Chiyoda-ku
City:	Tokyo
State/Country:	JAPAN
Postal Code:	100-8220

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13468316

CORRESPONDENCE DATA

 Fax Number:
 (202)293-7860

 Phone:
 202-293-7060

Email: sughrue@sughrue.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via

US Mail.

Correspondent Name: Sughrue Mion PLLC

Address Line 1: 2100 Pennsylvania Avenue NW

Address Line 2: Suite 800

Address Line 4: Washington, DISTRICT OF COLUMBIA 20037-3213

ATTORNEY DOCKET NUMBER:	CA2321
NAME OF SUBMITTER:	Mainak H. Mehta

Total Attachments: 1

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PATENT REEL: 028190 FRAME: 0616 13468316

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Assignment

Whereas, We, Joydeep ACHARYA, of Sunnyvale, CA; Long GAO, of Santa Clara, CA; and Sudhanshu GAUR, of Santa Clara, CA, respectively, hereinafter called assignors, have invented certain improvements in CONFIGURATION OF CSI-RS RESOURCES BY NETWORK FOR ENABLING COMP and executed an application for Letters Patent of the United States of America therefor; and

Whereas, HITACHI, LTD., of 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo 100-8220, Japan, (assignee), desires to acquire the entire right, title, and interest in the application and invention, and to any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

We, the above named assignors, hereby sell, assign and transfer to the above named assignee, its successors and assigns, the entire right, title and interest in the application and the invention disclosed therein for the United States of America, including all divisions, and continuations thereof, and all Letters Patent of the United States that may be granted thereon, and all reissues thereof, and all countries foreign thereto, including rights of priority under the International Convention of Paris (1883) as amended, including the right to claim priority under 35 U.S.C. §119, and we request the Director of the U.S. Patent and Trademark Office to issue any Letters Patent granted upon the invention set forth in the application to the assignee, its successors and assigns; and we hereby agree that the assignee may apply for foreign Letters Patent on the invention and we will execute without further consideration all papers deemed necessary by the assignee in connection with the United States and foreign applications when called upon to do so by the assignee.

We hereby authorize and request our attorneys SUGHRUE MION, PLLC of 2100

Pennsylvania Avenue NW, Suite 800, Washington, D.C. 20037-3213 to insert here in

parent	leses (Application number 13 14 68, 516 and Confirmation number 5 511	
filed _	5/10/12) the application number, confirmation number and filing date of said	
applic	tion when known.	
Date:	5/9/2012	
	s/Joydeep ACHARYA	
Date:	5/9/2012 long ha	
	s/Long GAO	
Date: (19 MAY 2012 Cully 5/2	
	s/Sudhanshu GAUR	

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)

PATENT REEL: 028190 FRAME: 0617

RECORDED: 05/10/2012