

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	CORRECTIVE ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	Corrective Assignment to correct the Conveying Party & Receiving Party previously recorded on Reel 021355 Frame 0882. Assignor(s) hereby confirms the Assignment.
<b>CONVEYING PARTY DATA</b>	
Name	Execution Date
DOCOMO Communications Laboratories USA, Inc.	04/29/2010
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	NTT DOCOMO Inc.
<b>Street Address:</b>	Sanno Park Tower, 11-1
<b>Internal Address:</b>	Nagata-cho, 2-chome, Chiyoda-Ku
<b>City:</b>	Tokyo
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	100-6150
<b>PROPERTY NUMBERS Total: 1</b>	
Property Type	Number
<b>Application Number:</b>	12176958
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(214)200-0853
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
<b>Phone:</b>	214-651-5000
<b>Email:</b>	ipdocketing@haynesboone.com
<b>Correspondent Name:</b>	Haynes and Boone, LLP - IP Section
<b>Address Line 1:</b>	2323 Victory Lane, Suite 700
<b>Address Line 4:</b>	Dallas, TEXAS 75219
<b>ATTORNEY DOCKET NUMBER:</b>	97900.50 (M-17054 US)
<b>NAME OF SUBMITTER:</b>	Edward C. Kwok

Total Attachments: 2  
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**501198116**

**PATENT  
 REEL: 024500 FRAME: 0536**

**CH \$40.00 12176958**



## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

08/07/2008  
 500614928

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
<u>DOCOMO</u> Name	Execution Date
DoCoMo Communications Laboratories USA, Inc.	08/06/2008
RECEIVING PARTY DATA	
Name:	NTT DoCoMo Inc. <i>NTT DOCOMO Inc.</i>
Street Address:	Sanno Park Tower, 11-1, Nagata-cho
Internal Address:	2-chome, Chiyoda-Ku
City:	Tokyo
State/Country:	JAPAN
Postal Code:	100-6150
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12176958
CORRESPONDENCE DATA	
Fax Number:	(408)392-9262
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	(408) 392-9250
Email:	jha@macpherson-kwok.com
Correspondent Name:	Edward C. Kwok
Address Line 1:	MacPherson Kwok Chen & Heid LLP
Address Line 2:	2033 Gateway Place, Suite 400
Address Line 4:	San Jose, CALIFORNIA 95110
ATTORNEY DOCKET NUMBER:	M-17054 US
NAME OF SUBMITTER:	Edward C. Kwok
Total Attachments: 1 source=M-17054USAssignment2#page1.tif	

CH \$40.00 12176958

**ASSIGNMENT**

For good and valuable consideration, receipt of which is hereby acknowledged, DOCOMO Communications Laboratories USA, Inc. ("Assignor"), hereby sells, assigns and transfers to **NTT DOCOMO Inc.** ("Assignee"), having a place of business at Sanno Park Tower, 11-1, Nagata-cho, 2-chome, Chiyoda-Ku, Tokyo 100-6150, Japan, its successors and assigns, the Assignor's entire right, title and interest throughout the world in the inventions described in the U.S. patent application no. **12/176,958** filed on July 21, 2008, entitled "**METHOD AND SYSTEM OF TIME-OF-ARRIVAL ESTIMATION FOR ULTRA WIDEBAND MULTI-BAND ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING SIGNALS**", and all patent applications and patents of every country for said inventions, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; the Assignor authorizes the Assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from the Assignor; and agrees to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said Assignee, its successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said inventions in all countries; and requests that the United States Patent and Trademark Office issue all patents granted for said inventions to Assignee, its successors and assigns.

Executed this 29 day of April, 2010.

DOCOMO Communications Laboratories USA, Inc.



Kazuo Imai, President & CEO