

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Sudhanshu GAUR	09/03/2009
RECEIVING PARTY DATA	
Name:	HITACHI, LTD.
Street Address:	6-6, Marunouchi 1-chome, Chiyoda-ku
City:	Tokyo
State/Country:	JAPAN
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12554082
CORRESPONDENCE DATA	
Fax Number: (703)684-1157 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i> Phone: 703-684-1120 Email: csam@mmiplaw.com Correspondent Name: MATTINGLY & MALUR, P.C. Address Line 1: 1800 DIAGONAL ROAD, Suite 370 Address Line 4: ALEXANDRIA, VIRGINIA 22314	
ATTORNEY DOCKET NUMBER:	HTA-7109
NAME OF SUBMITTER:	Chun-Pok Leung
Total Attachments: 1 source=7109_Assignment#page1.tif	

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PATENT
REEL: 023194 FRAME: 0039

ASSIGNMENT

As a below named inventor, I hereby declare that:

IN CONSIDERATION of the sum of One Dollar (\$1.00) or the equivalent thereof, and other good and valuable consideration paid to me, a citizen of Japan, by HITACHI, LTD. (hereinafter referred to as ASSIGNEE), a corporation organized under the laws of JAPAN, located at 6-6, Marunouchi 1-chome, Chiyoda-ku, Tokyo, Japan, receipt of which is hereby acknowledged, I do hereby sell and assign to said corporation, its successors and assigns, all my right, title and interest, in and for the United States of America, in and to application serial no. _____, filed _____, and entitled:

**GENERALIZED DECISION FEEDBACK EQUALIZER PRECODER WITH INPUT
COVARIANCE MATRIX CALCULATION FOR MULTI-USER MULTIPLE-INPUT
MULTIPLE-OUTPUT WIRELESS TRANSMISSION SYSTEMS**

invented by me (if only one is named below) or us (if plural inventors are named below) and described in application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patents which may be granted therefor, and all divisions, continuations and extensions thereof, said interest being the entire ownership of said Letters Patents when granted, to be held and enjoyed by said ASSIGNEE, its successors, assigns or other legal representatives, to the full end of term for which said Letters Patents may be granted, as fully and entirely as the same would have been held and enjoyed by me or us if this assignment and sale had not been made;

And I hereby agree to sign and execute any further documents or instruments which may be necessary, lawful, and proper in the prosecution of the above-named application or in the preparation and prosecution of any continuing, continuation-in-part, substitute, divisional, renewal, reviewed or reissue applications or in any amendment, extension, or interference proceedings, or otherwise to secure the title thereto in said ASSIGNEE;

Whereby, I hereby grant the law firm of MATTINGLY & MALUR, P.C., the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document, including inserting the application serial number and filing date when known.

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patents to said ASSIGNEE.

Signed on the date(s) indicated aside signatures:

INVENTOR(S)

Date Signed

1)  09/03/2009
SUDHANSHU GAUR