Form PTO-1595 (Rev. 07/05) DMB No. 0651-0027 (exp. 6/30/2008)	U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office					
RECORDATION FO	RM COVER SHEET					
PATENTS ONLY ASA-761-04						
1. Name of conveying party(ies)	2. Name and address of receiving party(ies)					
HITACHI, LTD.	Name: HITACHI COMMUNICATION TECHNOLOGIES, LTD.					
	Internal Address:					
Additional name(s) of conveying party(ies) attached Yes No. 3. Nature of conveyance/Execution Date(s):	Street Address: 26-3, Minamiohi 6-chome, Shinagawa-ku					
Execution Date(s) March 15, 2007	direct tudises. 200, minament of statis, extragalar na					
Assignment Merger	Oit.					
Security Agreement Change of Name	City:					
Joint Research Agreement	State:					
Government Interest Assignment	Country: Tokyo, JAPAN Zip:					
Executive Order 0424, Confirmatory License	Additional Name(s) & Addresses attached? Yes No					
Other						
4. Application or patent number(s):	document is being filed together with a new application.					
A. Patent Application No.(s)	B. Patent No.(s)					
Serial No. 10/869,920, filed June 18, 2004						
Additional numbers	l attached? ☐ Yes ☒ No					
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:					
Name: MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C.	7. Total fee (37 CFR 1.21(h) & 3.41) \$40.00					
Internal Address:	Authorized to be charged by credit card					
Street Address: 1800 Diagonal Road - Suite 370	☑Authorized to be charged to deposit account					
City: Atexandría	Enclosed					
	None required (government interest not affecting title)					
State: Virginia Zip: 22314						
Phone Number: <u>703)</u> 684-1120	8. Payment Information					
Fax Number:703) 684-1157	a. Credit Card Last 4 Numbers 1006					
Email Address: imattingly@msmbpatentlaw.com	Expiration Date 08/09					
	b. Deposit Account Number <u>50-1417</u>					
	Authorized User Name John R. Mattingly					
0000	1					
9. Signature: White	March 21, 2007					
Signature	Date					
John R. Mattingly, Reg. No. 30,293	Total number of pages including cover					
Name of Person Signing	Sheet, attachments, and documents: 5					

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

PATENT REEL: 019056 FRAME: 0200

. ASSIGNME<u>NT</u>

WHEREAS, HITACHI, LTD., is the exclusive owner, by assignment, of the applications for Letters Patent of the United States of America and Letters Patents as listed in the attached APPENDIX A

WHEREAS, HITACHI COMMUNICATION TECHNOLOGIES, LTD., a corporation organized under the laws of Japan, having its place of business at 26-3, Minamiohi 6-chome, Shinagawa-ku, Tokyo, Japan, is desirous of acquiring the entire right, title and interest in, to and under the said applications for Letters Patents and Letters Patents, and the inventions covered thereby, as now owned by HITACHI, LTD.

NOW, THEREFORE, for good and valuable consideration, the sufficiency and receipt of which is hereby acknowledged, the said HITACHI, LTD., has sold, assigned, transferred and set over and does hereby sell, assign, transfer and set over to the said HITACHI COMMUNICATION TECHNOLOGIES, LTD., the entire right, title and interest in the said inventions. said applications for Letters Patents and any Letters Patents which may be granted thereon and said Letters Patents, and any reissue or reissues of said Letters Patents which may be granted, the same to be held and enjoyed by said HITACHI COMMUNICATION TECHNOLOGIES, LTD., for their own use and enjoyment, and for the use and enjoyment of their successors, assigns, or other legal representatives, to the end of the term for which said Letters Patents of the United States are granted or reissued as fully and entirely as the same would have been held and enjoyed by the said Hitachi, Ltd., if this assignment and sale had not been made.

Executed this 15th day of March, 2007.

HITACHI, LTD.

Hiroyuki HIRAYAMA

Corporate Officer

Managing Director, Intellectual Property Group

(Authorized Signing Officer)

APPENDIX A

ı	Our Ref & Your Ref	Patent No.	Issue Date	Serial No.	Filing Date	
- 1	500.34763CX3	7,154,875	12/26/2006	10/023,737	12/21/ 2001	ļ
	500.34763CX4	1,101,01		10/023,736	12/21/ 2001	<u> </u>
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	ASA-690-04			11/300,354	12/15/2005_	
٠	ASA-761-04		_	10/869,920	6/18/2004	~
	H-621-03			10/834,001_	4/29/2004	<u> </u>
	11-021-00		1			

PATENT REEL: 019056 FRAME: 0202

RECORDED: 03/21/2007