Form PTO-1595 (Rev. 08/05) OMB No. 0651-0027 (exp. 6/30/2008)

Mark J. Thronson - 33,082 Name of Person Signing

02-04-2008

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To the Director of the U.S. Patent and Tr. 103	3479525 rents or the new address(es) below.
1. Name of conveying party(ies): Kazuma Yokoi (07/13/2005), Hiroshi Kitaguchi (07/18/2005), Takafumi Ishitsu (07/18/2005), Naoyuki Yamada (07/18/2005), Additional name(s) of conveying party(ies) attached? X Yes No 3. Nature of conveyance/Execution Date(s): Execution Date(s): in parentheses after inventor name X Assignment Merger Change of Name Security Agreement Joint Research Agreement Government Interest Assignment Executive Order 9424, Confirmatory License Other	2. Name and address of receiving party(ies) Name: Hitachi, Ltd. Internal Address: Street Address: 6-6, Marunouchi 1-chome Chiyoda-ku, Tokyo JAPAN City: State: Country: Zip: Additional name(s) & address(es) Yes X No attached?
4. Application or patent number(s): A. Patent Application No.(s) 11/206,738 Additional numbers attache	This document is being filed together with a new application. B. Patent No.(s) ed? Yes X No
5. Name and address to whom correspondence concerning document should be mailed:	6. Total number of applications and patents involved:
Name: Mark J. Thronson DICKSTEIN SHAPIRO LLP Internal Address: Atty. Dkt.: A8319.0073/P073 Street Address: 1825 Eye Street, NW	7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00 X Authorized to be charged by credit card Authorized to be charged to deposit account Enclosed None required (government interest not affecting title)
City: Washington State: DC zip: 20006-5403 Phone Number: (202) 420-4742 Fax Number: (202) 420-2201 Email Address: ThronsonM@dicksteinshapiro.com	Expiration Date 01/11 b. Deposit Account Number
9. Signature: Signature	January 30, 2008

01/31/2008 AWONDAF1 00000151 11206738 48.89 OP 01 FC:8021

Total number of pages including cover sheet, attachments, and documents:

U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office

DSMDB-2385537v01

Docket No.: A8319.0073/P073

Additional numbers attached?

Yes

OMB No. 065	1595 (Rev. 07/05) 11-0027 (exp. 8/30/2008)	103068		U.S. DEPAR United States Pa	RTMENT OF CO
	rector of the U.S. Patent and Traden	mark Office: Please re	cord the attached docu	iments or the new	andress(es)
	of conveying party(les):		Name and address		
(07/18/2 Naoyuk Additional in 3. Nature Execution X Assig Gover Execution Gover Other	rity Agreement Joint Research mment Interest Assignment utive Order 9424, Confirmatory Licen	Kitaguchi 8/2005), X Yes No : Intername ge of Name Agreement See CA	dame: Internal Address: Intern	Hitachi, Lte	Zip:Yes x
	Application No.(s) NEW		B. Patent No.(s)		
		numbers attached?	Yes X No)	
5. Name and concerni	Additional n d address to whom correspondent ng document should be mailed:		Yes X No Total number of app patents involved:		1
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Name: D Internal Add Street Addr City: State:	Mark J. Thronson ICKSTEIN SHAPIRO MORIN LLP dress: Atty. Dkt.: A8319.0073/P0 ress: 2101 L Street NW Washington DC Zip: Lber: (202) 775-474 r: (202) 887-068	6. 1 & OSHINSKY 7. 73 8. 20037-1526 12 9	Total number of app patents involved: Total fee (37 CFR 1.2 X Authorized to b Authorized to b Enclosed None required (Payment Information Credit Card Las	incations and in(h) & 3.41) \$ in charged by cred in charged to depond to de	40.00 dit card osit account
City: State: Phone Number	d address to whom correspondenting document should be mailed: Mark J. Thronson ICKSTEIN SHAPIRO MORIN LLP dress: Atty. Dkt.: A8319.0073/P0 dress: 2101 L Street NW Washington DC Zip: dbet: (202) 775-474 dr: (202) 887-0688 drss: ThronsonM@DSN	73 8. OSHINSKY 7. 73 8. 20037-1526 12 9 10.com	Total number of app patents involved: Total fee (37 CFR 1.2 X Authorized to b Authorized to b Enclosed None required (Payment Information Credit Card Last Explain Company Co	incations and in(h) & 3.41) \$ e charged by cred e charged to depo- igovernment interes ist 4 Numbers piration Date mber ine August	40.00 dit card posit account est not affectin

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ASSIGNMENT (譲渡証)

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 citizen of Japan by HITACHI, LTD., 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 HITACHI, LTD., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

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invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI, LTD., its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent 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;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD.

Signed on the date(s) indicated aside signatures:

	INVENTOR(S)	Date Signed
	(発明者フルネームサイン)	(署名日)
1) _	Kazuma Yokai Kazuma YOKOI	7/13/2005
2) _	Noroshi Kitaguchi Hiroshi KITAGUCHI	7/18 /2005
3) _	Tuhafumi lahitsu	7/13/2005
4)	Takafumi ISHITSU	7/18/2005
5)	Naoyuki Gamera Naoyuki YAMADA Jansuke Smemufa Kensuke AMEMIYA	7/15/2005
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7)	Yuuichirou UENO Katsutoshi Tsuchiya Katsutoshi TSUCHIYA	7/18/2005
8)	Katsutoshi TSUCHIYA Novihito Yanagita Norihito YANAGITA	7/14/2005
9)	Norihito YANAGITA	
•, .		
10)		

PATENT REEL: 020476 FRAME: 0079

RECORDATION FORM COVER SHEET (PTO-1595) (supplemental sheet)				
Additional Conve	ying Party(ies)/Exec	cution Date(s) (1. Continued):		
Kensuke Amemiya (Norihito Yanagita (0		ı Ueno (07/18/2005), Katsutoshi Tsuc	chiya (07/18/2005), and	
Additional Assign	nees (2. Continued):			
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Internal Address:				
Street Address:				
City:	State:	Country:	Zip:	
Additional Applica	ations and/or Patent	is (4. Continued):		
Additional Patent Applicat 4A. Continued:	ion Numbers	Additional Patent Numbers 4B. Continued:		
	Additional numbers	s attached? Yes X No		

2

Docket No.: A8319.0073/P073

DSMDB-2385537v01

W2478-71 H

Date Signed

ASSIGNMENT

(譲渡証)

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 citizen of Japan by HITACHI, LTD., 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 HITACHI, LTD., its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

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invented by me (if only one is named below) or us (if plural inventors are named below) and described in the application for United States Letters Patent therefor, executed on even date herewith, and all United States Letters Patent which may be granted therefor, and all divisions, continuations and extensions thereof, the said interest being the entire ownership of the said Letters Patent when granted, to be held and enjoyed by said HITACHI, LTD., its successors, assigns or other legal representatives, to the full end of term for which said Letters Patent 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;

And I do hereby authorize and request the Commissioner of Patents to issue said Letters Patent to said HITACHI, LTD.

Signed on the date(s) indicated aside signatures:

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	Norihito YANAGITA	, , , , , , , , , , , , , , , , , , , ,
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PATENT REEL: 020476 FRAME: 0081

RECORDED: 01/30/2008