Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hironobu TANIGAWA	05/08/2009
Yasuhiro NAKAMURA	05/08/2009
Nobuaki TAKAMATSU	05/08/2009

RECEIVING PARTY DATA

Name:	KYOCERA CORPORATION	
Street Address: 6, Takeda Tobadono-cho, Fushimi-ku		
City:	Kyoto-shi, Kyoto	
State/Country:	JAPAN	
Postal Code:	612-8501	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12442340

CORRESPONDENCE DATA

Fax Number: (310)785-4601

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Phone: 310-785-4746

Email: ctkeyner@hhlaw.com

Correspondent Name: HOGAN & HARTSON L.L.P.

Address Line 1: 1999 AVENUE OF THE STARS

Address Line 2: SUITE 1400

Address Line 4: LOS ANGELES, CALIFORNIA 90067

ATTORNEY DOCKET NUMBER:	81887.0183
NAME OF SUBMITTER:	Troy M. Schmelzer

Total Attachments: 3

source=81887_0183_rfcl#page1.tif

PATENT REEL: 022864 FRAME: 0233 12442340

CH \$40.00

500893548

source=81887_0183_assg#page1.tif source=81887_0183_assg#page2.tif

> PATENT REEL: 022864 FRAME: 0234

Form PTO-1595 1-3-92

RECORDATION FORM COVER LETTER

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

PATENTS ONLY

	PAIENI	3		
			Attorney Docket No.: 81887.0183	
	To the Assistant Commissioner for Patents: Please re	cord	the attached original documents or copy thereof.	
1.	Name of conveying party(ies):	2.	Name and address of receiving party(ies):	
	Hironobu TANIGAWA Yasuhiro NAKAMURA Nobuaki TAKAMATSU		KYOCERA CORPORATION 6, Takeda Tobadono-cho, Fushimi-ku Kyoto-shi, Kyoto 612-8501 Japan	
Add	ditional name(s) of conveying party(ies) attached? 🔲 Yes 🗵 No		•	
3.	Nature of conveyance:			
	⊠ Assignment			
	Execution Date: May 8, 2009			
	1			
		<u> </u>	Additional name(s) & address(es) attached? 🔲 Yes 🗵 No	
4.	Application number(s) or patent number(s):			
-	If this document is being filed together with a new application, the execu	ation	date of the application is:	
	A. Patent Application No.(s) 12/442,340		B. Patent No.(s)	
	Additional numbers attac	hed?	? ☐ Yes ⊠ No	
5.	Name and address of party to whom correspondence concerning document should be mailed:	6.	Total number of applications and patents involved: [1]	
	Lawrence J. McClure, Esq. HOGAN & HARTSON L.L.P.	7.	Total fee (37 CFR 3.41) \$40.00	
	1999 Avenue of the Stars, Suite 1400 Los Angeles, CA 90067		☐ Enclosed ☐ Authorized to be charged to deposit account	
		8.	Deposit account number:	
			50-1314	
			(Attach duplicate copy of this page if paying by deposit account)	
	DO NOT USE	THI	IS SPACE	
9.	Statement and signature.			
	To the best of my knowledge and belief, the foregoing is true and correct	et and	d any attached copy is a true copy of the original document.	
	Troy M. Schmelzer	Da	ate: June 23, 2009	
	/B No. 0651-001+ (exp. 4/94)		otion to:	
Ma	Mail documents to be recorded with required cover sheet information to:			
Mail Stop Assignment Recordation Services Director of the U.S. Patent and Trademark Office				
	P.O. Bo			
	Alexandria, V	Α 2	2313-1450	

PATENT REEL: 022864 FRAME: 0235

ASSIGNMENT

譲渡証書

(1-8) 發明者名	(1) (5)						
(1 0/ 95%/4-4	(2) (6)	(1-8)	Name(s) of Inventor(s)	(1)	Hironobu TANIGAWA	(5)	[Inventor]
	(3) (7)		2777 678207 (25)	(2)	Yasuhiro	(6)	[Inventor]
	(4) (8)			(2)		(7)	[inventor]
	以下の署名者各々に対して支払わ				NAKAMURA	(8)	[Inventor]
	れる価値ある対価に基づき、下記 署名者は被譲渡人、			(3)	Nobuaki		
	有有有以政政政人			,	TAKAMATSU		
				(4)	[inventor]		
(9) 被譲渡人氏名	(9)						the good and
(10) 被譲渡人の会社	(10)						ns paid to each
設立の州名	4						he undersigned nd hereby does
(11) 被譲渡人の住所	(11)				assign, transfe		
	(上記を、以下被譲渡人) へ、下	(9)	Name of Assignee	(9)	KYOCERA (CORPO	RATION
	記署名者が米国に於いて特許出願	(10)	State of	(10)	Kyoto, Jap	an	
	した		Incorporation of	` `		_	
(12) 発明の名称、件	(12)		Assignee				
名番号、又は外国に於け る特許出願番号等の発明	and the second s	(11)	Address of Assignee	(11)			
を識別するもの	で識別される特許出願として公知				<u>Fushimi-ku,</u> 612-8501 Ja		shi, Kyoto
	の発明、及びそれに対応する若し くはそれに基づいた外国での全て						
	の特許出願として公知の発明の世				(hereinafter d Assignee) the		
	界各国に亙っての権利、所有権及				right, title and		
	び利益を譲渡することに同意し、				invention kno	wn as	
	ここに譲渡する。	(12)	Identification of	(12)	OFDMA CO	MMUN	ICATION
		, ,	Invention, such as	• •	SYSTEM AN	ID	
(13) 署名日宣言	(13) 日付		Title, Case Number		COMMUNIC		
- \ BB & do do 13			or Foreign Application Number		for which the		
	、上記の発明に関し米国及び外国		<i>Аррисанон</i> ічатоег		(have) execute patent in the \text{\chi}		
	f、分割出願及び継続出願に必要な fすることに同意する。さらに下記				America and		
	「することに同意する。 さらに下記 要もしくは便宜と看做した際に				in foreign cou	ntries c	prresponding
	個の譲渡手続きを行うことに同意				thereto or base	ed there	on.
する。		(13)	Date(s) of Signing	(13)	on		
,			of Declaration				

2) 下記署名者は、当該出願又はその継続出願又は

3) 下記署名者は、パリ条約条項又は類似の合意の

4) 下記署名者は、被譲渡人が有効な米国特許の付 与の獲得にあたり必要と看做されるあらゆる積極的行動を

分割出願に関し提起され得る抵触審査に関連して必要な全

ての書類手続きを遂行することに同意する。さらにかかる

抵触審査が発生した際には、証拠の収集等事態の進展に関

要求又は規定に関し必要な全ての書類手続き、及び必要と

し被譲渡人に対しあらゆる協力をすることに同意する。

看做される行為全てを遂行することに同意する

とることに同意する。

- 1) The undersigned agree(s) to execute all papers necessary in connection with any original, reissue, divisional and continuing United States and foreign applications for the above identified invention and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.
- 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
- 3) The undersigned agree(s) to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.

PATENT REEL: 022864 FRAME: 0236

5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest here in assigned and that he has (they have) not executed any agreement in conflict herewith.

F	Page 1 of 2
5) 下記署名者は、ここに、特許庁長官に対し、被	
譲渡人を全利益の被譲渡人と看做し、当該出願又はその名	}
割及び継続出願の米国特許証を被譲渡人に発行する権限を	
与え、かかる発行を要請する。下記署名者はさらに、被請	ŧ
渡人はここに譲渡される全利益の譲渡を受ける権利を有す	_
ること、及び当該内容に違反する内容の契約は締結してい	`
ないことを誓約する。	
_ · · · •	

6) 下記署名者は、ここに

RECORDED: 06/23/2009

0 / 1 pp/p /h	Hist Care
顧客番号	
000026021	
で表される者に、こ	の書類の登録に関して米国特許商標
の規則の順守にあた	り必要もしくは望ましい識別番号等
この譲渡証書に追加	1する権限を与える。
n.//-	Acres 100 Acres de
日付	第一署名者
日付	第二署名者
日付	第三署名者
日付	第四署名者
日付	第五署名者
日付	第六署名者

The undersigned hereby appoints the persons associated with
Customer Number:
000026021
the power to insert on this assignment any further identification which
may be necessary or desirable
in order to comply with the rues of the United States Patent and
Trademark Office for recordation of this document.
·
Date: May 8, 2009 Signature of Inventor I Hirozobu Tanigawa
. · · ·
Date: May 8, 2009 Signature of Inventor 2 Yasuhiro Nakamupa
Date: May 8, 2009 Signature of Inventor 3 Nobuaki Takamatsu
Date:Signature of Inventor 4
Date:Signature of Inventor 5
Date:Signature of Inventor 6

Page 2 of 2