PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Yoshiaki Hachiya	11/02/2005
Ryutaro Arakawa	11/02/2005

RECEIVING PARTY DATA

Name:	Matsushita Electric Industrial Co., Ltd.	
Street Address:	1006, Oaza Kadoma, Kadoma-shi,	
City:	Osaka	
State/Country:	JAPAN	
Postal Code:	571-8501	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	11236818

CORRESPONDENCE DATA

Fax Number: (202)912-0774

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

Phone: 2029123800

Email: PPC@us.panasonic.com

Correspondent Name: Kenji Kamata

Address Line 1: 1130 Connecticut Ave., N.W., Suite1100

Address Line 2: Panasonic Patent Center

Address Line 4: Washington, DISTRICT OF COLUMBIA 20036

NAME OF SUBMITTER: Chika Eda

Total Attachments: 1

source=Assignment 11_236,818(P36899-01 Wende 2005-1516A)#page1.tif

-CH \$40

PATENT REEL: 016890 FRAME: 0811

11/236 818

ASSIGNMENT

P036899_01

Matsushita Ref:		Ap	opiication Seriai	No	_
Japanese Firm Ref: _	544784	Us	S Firm Ref:	2005-1516A	_
WHEREAS, the undersig	gned has (have) invented the invention entitled	d:			
Box 1					
Title of Invention:					
LED DRIVING SEM	IICONDUCTOR CIRCUIT AND LED DRIVING	APPARATUS INCLUDING	THE SAME		
	1. For use when signing Declaration prior to filing	g U.S. patent application (check	k only one box belov	v)	
(a)□ for which an app	olication for U.S. patent has been execute	ed by the undersigned co	ncurrently here	with, or	
date(s):	lication for U.S. patent has been execute, or , or ent are signed on the same day, check (a) and make no entry in the	_	ore this Assignment, enter	the date(s) on which you signed the	
	rnational Application has been filed as: check only (c) and enter PCT application number in the right)	PCT Application No.		and	i,
	2. For use when signing Declara	tion after filing U.S. patent appli	cation	•	
(d) X for which an ap	plication for U.S. patent has been filed	Application Filing	Septem	ber 28, 2005	
on:		Date		and	ı,

WHEREAS, <u>Matsushita Electric Industrial Co., Ltd. of 1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501 JAPAN</u>, its heirs, successors, legal representatives and assigns (hereinafter designated as "Assignee") is desirous of acquiring the entire right, title, and interest in and to said invention and in and to any Letters Patent(s) that may be granted therefor.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged and intended to be legally bound hereby, the undersigned, by these presents, does sell, assign and transfer unto said Assignee the entire and exclusive right, title and interest in and to; (i) said invention in the United States of America, its territories, dependencies and possessions (hereinafter designated as the United States) and in all countries foreign to the United States; and (ii) this patent application and any and all related patent application(s) disclosing said invention, including provisionals, non-provisionals, conversions, continuations, continuations-in-part and reissues thereof in the United States and all countries foreign to the United States (hereinafter designated as "Related Applications"), along with all rights of priority created by this patent application under any treaty relating thereto; and (iii) any and all Letters Patent(s), including all renewals, extensions, reissues and reexamination certificates which may be granted therefore, and all rights to sue for past and future infringement thereunder, in the United States and in all countries foreign to the United States for the full term or terms thereof.

The undersigned agree(s) to execute all papers necessary in connection with this application and any and all Related Applications thereof, 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, all papers necessary in connection with any interference which may be declared concerning this application or any and all Related Applications thereof and to cooperate with the Assignee in every way possible in obtaining and producing evidence and proceeding with such interference, and for any and all litigations regarding, or for the purpose of protecting the right, title and interest in and to said invention, this application and any and all Related Applications or Letters Patent(s) therefore, and to testify in any legal proceeding relating thereto and in support thereof, for the benefit of Assignee, and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient.

The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States and any foreign patent(s) to the Assignee and to vest all rights hereby conveyed to the Assignee as fully and entirely as the same would have been held by the undersigned if this Assignment had not been made.

The undersigned hereby authorize(s) and request(s) the Commissioner of Patents, and officials of all foreign countries, whose duty is to issue patents, to issue any and all Letters Patent(s) resulting from said application or any and all Related Applications thereof to said Assignee and hereby covenants that the undersigned has (have) full right to convey the entire interest herein assigned, and that the undersigned has (have) not executed, and will not execute, any assignment, sale, agreement or encumbrances in conflict herewith.

The undersigned hereby does sell, assign and transfer unto said Assignee the full and exclusive authority for revoking power of attorney(s) executed by the undersigned in connection with this application and for appointing a new power of attorney in place thereof.

The undersigned hereby grant(s) the Assignee and the appointed U.S. patent attorneys and agents 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 U.S. Patent Office for recordation of this document.

The undersigned hereby agree(s) that the above obligations shall apply to the undersigned both individually and collectively.

The undersigned hereby agree(s) that this Assignment shall be construed in accordance with the law of the appropriate jurisdiction within the United States.

IN WITNESS WHEREOF, executed by the undersigned on the date(s) following the undersigned name(s) and signature(s)

Box2	ox2 (Each Inventor, please Sign and Date below)				
	(e) First Name, Last Name	(f) Signature	(g) Date signed		
(1)	Yoshiaki HACHIYA	Yoshiali Hachiga	NOV. 2, 2004		
(2)	Ryutaro ARAKAWA R. A	Ryvturey Arakang	Nov. 2, 2005 7005/11/2		
(3)			2005/11/2		
(4)					

□ Check if additional paper(s) is/are attached. Total of ____ pages are submitted.

RECORDED: 11/21/2005

PATENT REEL: 016890 FRAME: 0812