7,13/6952

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PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Yoshifumi Hosokawa	01/19/2007
Michiaki Matsuo	01/19/2007
Noriaki Saito	01/22/2007

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:	11576932

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NAME OF SUBMITTER: Kenji Kamata

Total Attachments: 1

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PATENT REEL: 019712 FRAME: 0780

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ASSIGNMENT

Matsushita Ref: P38796-01	Ap	plication Serial No. $\frac{1}{2}$	576932
Japanese Firm Ref: P38796-01	US	Firm Ref:	
WHEREAS, the undersigned has (have) invented the invention entitled			
Box 1 Title of Invention: BIDIRECTIONAL FREQUENCY CONVERTER AND RADIO EC		:	
1. For use when signing Declaration prior to fill (a)□ for which an application for U.S. patent has been executed.			
(b) or which an application for U.S. patent has been executed (if the Declaration and Assignment are signed on the same day, check (a) and make no only in the bloom.	on the following date(s):	this Assignment, enter the date(s) on which you	, Or
(c) for which an International Application has been filed as: (for the PCFUS national entry, check only (c) and enter PCF application number in the right)	PCT Application No.	PCT/JP2005/018523	and,
2. For use when signing Declara	ation after filing U.S. patent appli	cation	
(d) for which an application for U.S. patent has been filed on:	Application Filing Date		and,

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 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 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 thereto and in support thereof, for the benefit of Assignee, and also to execute separate assignments in connection with such applications as the

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 and will not execute, any assignment, sale, agreement or encumbrances in conflict herewith

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 each with the release of the said of

The undersigned hereby grantes 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).

	(Each Inventor, please Sign and Date (e) First Name, Last Name	below) (f) Signature	(g) Date signed
(1)	Yoshifumi HOSOKAWA	Yoshifui Hookama	Jan. 19.2007
(2)	Michiaki MATSUO	Marsher Marson	Jan. 19. 2007
(3)	Noriaki SAITO	Noriahi Suito	Jan. 22, 2007
(4)			

□Check if additional paper(s) is/are attached. Total of ___1_ page is submitted.

PATENT REEL: 019712 FRAME: 0781