504602400 10/19/2017

EPAS ID: PAT4649112

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

SUBMISSION TYPE:NEW ASSIGNMENTNATURE OF CONVEYANCE:ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MASAHIRO MATSUMOTO	06/04/2017
AKIRA YAJIMA	10/13/2017
KAZUYOSHI MAEKAWA	05/11/2017

RECEIVING PARTY DATA

Name:	RENESAS ELECTRONICS CORPORATION
Street Address:	2-24, TOYOSU 3-CHOME, KOUTOU-KU
City:	TOKYO
State/Country:	JAPAN
Postal Code:	135-0061

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15621745

CORRESPONDENCE DATA

Fax Number: (703)761-2375

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Email: admin@mcginniplaw.com

Correspondent Name: MCGINN I.P. LAW GROUP, PLLC

Address Line 1: 8321 OLD COURTHOUSE ROAD, SUITE 200

Address Line 4: VIENNA, VIRGINIA 22182-3817

ATTORNEY DOCKET NUMBER: TSUT.041

NAME OF SUBMITTER: SEAN M. MCGINN

SIGNATURE: /SEAN M. MCGINN/

DATE SIGNED: 10/19/2017

Total Attachments: 3

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PATENT 504602400 REEL: 043906 FRAME: 0584

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 Renesas Electronics Corporation, a corporation organized under the laws of Japan,

located at 2-24, Toyosu 3-chome, Koutou-ku, Tokyo 135-0061, Japan

receipt of which is hereby acknowledged I do hereby sell and assign to said Renesas Electronics Corporation, its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

SEMICONDUCTOR DEVICE

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 Renesas Electronics Corporation,

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 Renesas Electronics Corporation.

Signed on the date(s) indicated aside our signatures:

	INVENTOR(S) (発明者フルネームサイン)	Date Signed (署名日)
1)	Masahiro Matsumeta (Masahiro MATSUMOTO)	June 4. 2017
2)	(Akira YAJIMA)	
3)	(Kazuyoshi MAEKAWA)	
4)		
5)		
6)		

PATENT **REEL: 043906 FRAME: 0585**

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 Renesas Electronics Corporation, a corporation organized under the laws of Japan, located at 2-24, Toyosu 3-chome, Koutou-ku, Tokyo 135-0061, Japan receipt of which is hereby acknowledged I do hereby sell and assign to said Renesas Electronics Corporation, its successors and assigns, all my right, title and interest, in and for the United States of America, in and to

SEMICONDUCTOR DEVICE

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 Renesas Electronics Corporation,

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 Renesas Electronics Corporation.

Signed on the date(s) indicated aside our signatures:

THE PERSON PROPERTY.

(発明者フルネームサイン)		(署名 B)	
1)		(Masahiro MATSUMOTO)	
	iya Yajima	(AMILÂY STIXA)	October 13, 2017
		(Kazuyoshi MAEKAWA)	
4)			
5)			
8)			

PATENT REEL: 043906 FRAME: 0586

Data Classed

ASSIGNMENT (識 雅 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 Renesas Electronics Corporation, a corporation organized under the laws of Japan,

located at 2-24, Toyosu 3-chome, Koutou-ku, Tokyo 135-0061, Japan

receipt of which is hereby acknowledged I do hereby sell and assign to said. Renesas Electronics Corporation, 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. Renesas Electronics Corporation,

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 Renesas Electronics Corporation.

Signed on the date(s) indicated aside our signatures:

	INVENTOR(S) 〈発明者フルネームサイン)	Date Signed (署名日)
1)	(Masabiro MATSUMOTO)	
2)	(Akira YAJIMA)	
3)	Koznysaki Malkawa (Kazuyoshi MAEKAWA)	May 11. 2017
4)		
5)		
6)		

PATENT REEL: 043906 FRAME: 0587

RECORDED: 10/19/2017