PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LILEI WANG	05/31/2016
HIDETOSHI SUZUKI	06/03/2016
JOACHIM LOEHR	05/31/2016
MASAYUKI HOSHINO	06/03/2016

RECEIVING PARTY DATA

Name:	PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA
Street Address:	20000 MARINER AVENUE
Internal Address:	SUITE 200
City:	TORRANCE
State/Country:	CALIFORNIA
Postal Code:	90503

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15190192

CORRESPONDENCE DATA

Fax Number:

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.

Email: kunou.yoshie@kk.jp.panasonic.com

Correspondent Name: PANASONIC IP MANAGEMENT CO., LTD.

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Address Line 2: 1-61, SHIROMI 2-CHOME, CHUO-KU

Address Line 4: OSAKA, JAPAN 540-6207

ATTORNEY DOCKET NUMBER:	P0623075US01
NAME OF SUBMITTER:	HIROO MAEDA
SIGNATURE:	/Hiroo MAEDA/
DATE SIGNED:	06/30/2016

Total Attachments: 3

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PATENT REEL: 039061 FRAME: 0385

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PATENT REEL: 039061 FRAME: 0386

Panasonic Ref*:P0623075US01	Application Serial No. 15 / 190 / 9 - Application Serial No. 15 / 9 - Applicat
Japan Firm Name: <u>PIPM Direct (尺处り)</u>	Japan Firm Ref: P0623075US01
US Firm Name*: PPC	US Firm Ref:
A must be allest	

ASSIGNMENT

WHEREAS, the undersigned has (have) invented the invention entitled:		
Box 1	<u>-</u>	
Title of Invention:		
D2D COMMUNICATION METHOD, D2D-ENABLED DEV	ICE AND ENODE B	•
		
1. For use when signing Declaration prior to filin	ig U.S. patent application (check or	nly one box below)
(a) for which an application for U.S. patent has been execute	d by the undersigned concu	urrently herewith, or
(b) for which an application for U.S. patent has been executed	on the following date(s):	, or
(if Declaration & Assignment are signed on the same day, check (a) and make no entry in the blank; if	the Declaration was signed before this Assign	nment, enter the date(s) on which you signed the Declaration)
(c)□ for which an International Application has been filed as:		
(for the PCT-US national entry, check only (c) and enter PCT application number in the right)	PCT Application No.	and
2. For use when signing Declara	tion after filing U.S. patent applicat	ion
(d) for which an application for U.S. patent has been filed on:		· · · · · · · · · · · · · · · · · · ·

WHEREAS, Panasonic Intellectual Property Corporation of America of 20000 Mariner Avenue, Suite 200, Torrance, CA 90503, U.S.A., its/their heirs, successors, legal representatives and assigns (hereinafter designated as "Assignee(s)") is/are 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(s) 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, divisions, 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(s) 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(s), and also to execute separate assignments in connection with such applications as the Assignee(s) 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(s) and to vest all rights hereby conveyed to the Assignee(s) 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(s) 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(s) 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(s) 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	(Each Inventor, please Sign and Date below	w)	
	(e) First Name, Last Name	(f) Signature	(g) Date signed
(1)	Lilei WANG	li lei Wang	Most 31, 2016
(2)	Hidetoshi Suzuki	· ·	Month, Date, Year
(3)	Joachim LOEHR		Month, Date, Year
(4)	Masayuki Hoshino		Month, Date, Year

□Check if additional paper(s) is/are attached. Total of __1_ page is submitted.

Panasonic Ref*: _	P0623075US01	Application Serial No	o. 15/190192	2014)
Japan Firm Name:	PIPM Direct	Japan Firm Ref:	P0623075US01	
US Firm Name*: _	PPC	US Firm Ref:		
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Title of Invention:		
D2D COMMUNICATION METHOD, D2D-ENABLED DEV	/ICE AND ENODE B	
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1. For use when signing Declaration prior to filin	ng U.S. patent application (check only one bo	x below)
(a) for which an application for U.S. patent has been execute	d by the undersigned concurrently	herewith, or
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(if Declaration & Assignment are signed on the same day, check (a) and make no entry in the blank; if	the Declaration was signed before this Assignment, enter	the date(s) on which you signed the Declaration)
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(for the PCT-US national entry, check only (c) and enter PCT application number in the right)	PCT Application No.	and
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WHEREAS, <u>Panasonic Intellectual Property Corporation of America of 20000 Mariner Avenue</u>, <u>Suite 200, Torrance, CA 90503, U.S.A.</u>, its/their heirs, successors, legal representatives and assigns (hereinafter designated as "Assignee(s)") is/are 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.

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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(s) in every way possible in obtaining and producing evidence and proceeding with such interference, and for any and all Itigations 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(s), and also to execute separate assignments in connection with such applications as the Assignee(s) may deem necessary or expedient.

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

Box2	(Each Inventor, please Sign and Date be	low)	
	(e) First Name, Last Name	(f) Signature	(g) Date signed
(1)	Lilei WANG		Month, Date, Year
(2)	Hidetoshi Suzuki	Hargu Anni	July 3th, 20/6
(3)	Joachim LOEHR		Month, Date, Year Fitter N. tr. Suc. 3.2016
(4)	Masayuki Hoshino	Manyshi Hoslimo	Month, Date, Year June, 3,206

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

Panasonic Ref*: P0623075US01	Assignment Form (Oct. 2014 Application Serial No. 15 190 192
Japan Firm Name: PIPM Direct	Japan Firm Ref: P0623075US01
US Firm Name*: PPC	US Firm Ref:
(* must be filled)	

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(1)	Lilei WANG		Month, Date, Year
(2)	Hidetoshi Suzuki	<i></i>	Month, Date, Year
(3)	Joachim LOEHR	<i>7.</i> &	Month, Date, Year May, 31, 2016
(4)	Masayuki Hoshino		Ménth, Date, Year

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