504389351 05/30/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ALEXANDER GOLITSCHEK EDLER VON ELBWART	04/20/2017
MICHAEL EINHAUS	04/20/2017
HIDETOSHI SUZUKI	04/24/2017
SUJUAN FENG	05/13/2017
LILEI WANG	05/03/2017

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15521872

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NAME OF SUBMITTER:	SHOKO I. LEEK
SIGNATURE:	/Shoko Leek/
DATE SIGNED:	05/30/2017

PATENT REEL: 042533 FRAME: 0591 504389351

Total Attachments: 6 source=736456_452USPC_Assignment#page1.tif source=736456_452USPC_Assignment#page2.tif source=736456_452USPC_Assignment#page3.tif source=736456_452USPC_Assignment#page4.tif source=736456_452USPC_Assignment#page5.tif source=736456_452USPC_Assignment#page6.tif

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ASSIGNMENT

WHEREAS, we.

Alexander Golitschek Edler	c/o Panasonic R&D Center Germany GmbH, Monzastrasse
von Elbwart	4C, Langen, Germany 63225
Michael Einhaus	c/o Panasonic R&D Center Germany GmbH, Monzastrasse
	4C, Langen, Germany 63225
Hidetoshi Suzuki	c/o Panasonic Corporation, 1006, Oaza Kadoma, Kadoma-shi,
Traciona manna	Osaka, Japan 571-8501
Police Page	c/o Panasonic R&D Center Germany GmbH, Monzastrasse
Sujuan Feng	4C, Langen, Germany 63225
	c/o Panasonic R&D Center China Co., Ltd., 15F, Tower F
Lilei Wang	Phoenix Place, 5A Shuguang Xili, Chaoyang District, Beijing,
	Peoples Republic of China 100028

(hereinafter referred to as ASSIGNORS), having mailing addresses as listed above, are the joint inventors of an invention entitled "IMPROVED RESOURCE ALLOCATION FOR TRANSMISSIONS ON UNLICENSED CARRIERS," as described and claimed in the specification for which an application for United States letters patent was filed and assigned Application No. 15/521,872 _____, which application is a national stage application filed under 35 U.S.C. 371 of International Application No. PCT/CN2014/090610 accorded an International Filing Date of November 7, 2014;

WHEREAS, Panasonic Intellectual Property Corporation of America (hereinafter referred to as ASSIGNEE), having a usual place of business at 20000 Mariner Avenue, Suite 200, Torrance, California 90503, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States;

NOW, THEREFORE, in exchange for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE, the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions including any extensions or adjustments in term thereof, and in any and all divisions, reissues and continuations thereof, including the right to sue and collect damages for past and present infringement of said letters patent; said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns for their use and benefit and of their successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment,

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transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

Assignee's counsel is authorized to insert the application number information when it becomes available.

20 April 0	2017	Mad William Stoft
Date		Alexander Gölitschek Edler von Elbwart
1	certify that I know or h	nave satisfactory evidence that Alexander Golitschek
		of his/her own free will, as a voluntary act for the uses
	ntioned in the instrument,	
Date	or Print)	Signed at
(Type	or Print)	
(Type or Prin	nt Name of Witness)	(Signature of Witness)
Date	·	Michael Einhaus
	•	ve satisfactory evidence that Michael Einhaus signed a voluntary act for the uses and purposes mentioned in
Date		Signed at
Date(Type	or Print)	
Managan Bala	t Name of Witness	(Signature of Witness)

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transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States letters patent on said invention, for litigation regarding said letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

Assignee's counsel is authorized to insert the application number information when it becomes available.

Date	Alexander Golitschek Edler	von Elbwart
I certify that	I know or have satisfactory evidence that	t Alexander Golitschek
Edler von Elbwart signed this	instrument of his/her own free will, as a v	oluntary act for the uses
and purposes mentioned in the	e instrument.	
Date(Type or Print)	Signed at	
(Type or Print)		
(Type or Print Name of W	itness) (Signature of	Witness)
2004 (k		
Date	Michael Einhaus	
I certify that I	know or have satisfactory evidence that	Michael Einhaus signed
this instrument of his/her own	free will, as a voluntary act for the uses an	d purposes mentioned in
the instrument.		
	منا کسیس	*
Date(Type or Print)	Signed at	

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<u>April</u>	24,2017	Holy Smul
Date		Hidetoshi Suzuki
8.7. t	•	have satisfactory evidence that Hidetoshi Suzuki signed
this instrume		as a voluntary act for the uses and purposes mentioned in
me manumei	R¢	
Date		Signed at
T)	ype or Print)	
(Type or	Print Name of Witness)	(Signature of Witness)
Date		Sujuan Feng
	T certify that I know or	have satisfactory evidence that Sujuan Feng signed thi
instrument of		voluntary act for the uses and purposes mentioned in the
instrument.		
v		

(Type or Print)

(Type or Print Name of Witness)

(Signature of Witness)

Date		Hidetoshi Suzuki
	I certify that I know or ha	we satisfactory evidence that Hidetoshi Suzuki signed
this instrum	ent of his/her own free will, as	s a voluntary act for the uses and purposes mentioned in
the instrume	nt.	
Date		Signed at
	ype or Print)	<u> </u>
(Type or	Print Name of Witness)	(Signature of Witness)
43/0	5/2-13	Signam Fag
13/0 Date	5/2-13	Sujuan Feng
43/0 Date		Sujuan Feng Juan Feng signed this
	I certify that I know or ha	
instrument c	I certify that I know or hat f his/her own free will, as a v	ive satisfactory evidence that Sujuan Feng signed this oluntary act for the uses and purposes mentioned in the
instrument c	I certify that I know or ha	ive satisfactory evidence that Sujuan Feng signed this

Mwy,	2017 UU WOUL	
Date	Lilei Wang	
	I certify that I know or have satisfactory evidence that Lilei Wang signed this	
instrument of	his/her own free will, as a voluntary act for the uses and purposes mentioned in the	
instrument.		
Date	Signed at	
(T)	ype or Print)	
(Type or	Print Name of Witness) (Signature of Witness)	

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RECORDED: 05/30/2017