## 503960889 08/15/2016

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT4007544

NATURE OF CONVEYANCE: ASSIGNMENT CONVEYING PARTY DATA Name			
Name			
	Execution Date		
YOSUKE HAMAOKA	06/07/2016		
MITSUHIRO FURUKAWA	06/13/2016		
TORU YAMAJI	06/06/2016		
RECEIVING PARTY DATA			
Name: SKYWORKS PANASONIC FILTER SOLUTIONS J	SKYWORKS PANASONIC FILTER SOLUTIONS JAPAN CO., LTD.		
Street Address: 1006, OAZA KADOMA	1006, OAZA KADOMA		
City: KADOMA-SHI, OSAKA-FU	KADOMA-SHI, OSAKA-FU		
State/Country: JAPAN	JAPAN		
<b>Postal Code:</b> 571-0050	571-0050		
PROPERTY NUMBERS Total: 1 Property Type Number			
Application Number:     14810122			
CORRESPONDENCE DATA			
<b>Fax Number:</b> (949)231-3206	<b>Fax Number:</b> (949)231-3206		
Correspondence will be sent to the e-mail address first; if that is unsucc using a fax number, if provided; if that is unsuccessful, it will be sent via			
Phone: 9492313073			
Email: ip.docketing@skyworksinc.com			
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Address Line 1: 5221 CALIFORNIA AVENUE, 21-1	21 CALIFORNIA AVENUE, 21-1		

ATTORNEY DOCKET NUMBER:	PNSC 14123003(JP)JPWOUS
NAME OF SUBMITTER:	DONALD BOLLELLA
SIGNATURE:	/Donald Bollella/
DATE SIGNED:	08/15/2016
Total Attachments: 2	

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## ASSIGNMENT

WHEREAS, we, Yosuke Hamacka of Osaka-Fu, Japan, Mitsuhiro Furukawa of Hyogo-Ken, Japan, and Toru Yamaji of Kyoto-Fu, Japan, have invented certain new and useful ELASTIC WAVE DEVICES for which we have made application for Letters Patent of the United States as fully set forth and described in the specification duly filed in the United States Patent and Trademark Office on July 27, 2015 and assigned Application Serial No. 14/810,122 which derived priority benefit from PCT International Patent Application No. PCT/JP2015/003372 filed July 3, 2015 which in turn derived priority benefit from Japanese Application No. 2014-155795 filed July 31, 2014; and

WHEREAS. Skyworks Panasonic Filter Solutions Japan Co., Ltd., a *kabushiki kalsha* incorporated under the laws of Japan, having a principal office address at 1006, Oaza Kadoma, Kadoma-Shi, Osaka-Fu 571-0050, Japan, is desirous of acquiring the entire interest in and to said invention, the atoresaid United States, PCT International applications, any and all inventions and improvements disclosed in said applications, and all Letters Patent to be had therefor.

NOW THEREFORE, to all whom it may concern, be it known, that for good and valuable consideration, the sufficiency and receipt of which are hereby acknowledged, we said Yosuke Hamaoka, Milsuhiro Furukawa, and Toru Yamaji have soki, assigned, transferred, and set over, and by these presents do sell, assign, transfer, and set over unto said Skyworks Panasonic Filter Solutions Japan Co., Ltd., the whole right, title, and interest in and to said ELASTIC WAVE DEVICES, the aforesaid applications, and any and all inventions and improvements disclosed in the aforesaid United States and PCT International applications for patent, as fully set forth and described therein, and all divisional, continuing, substitute, renewal, reissue, and all other applications for Letters Patent derived from or claiming priority to the aforesaid applications which have been or shall be filed in the United States and in and to the United States Letters Patent to be issued thereon for the territory of the United States, and all corresponding foreign counterpart applications derived from or claiming priority to the aforesaid United States and PCT International applications and related applications as prepared for and filed in any and all foreign countries, said whole right, title, and interest being the same for said Skyworks Panasonic Filter Solutions Japan Co., Ltd.'s own use and for the use of its assigns, successors, and legal representatives to the full end of the term for which all said Letters Patent may be granted, as fully and entirely as the same would have been held and enjoyed by us had this assignment and sale not been made. And we hereby acknowledge, agree, and understand that this assignment conveys any and all other related intellectual property rights including, but not so limited to, copyright rights, copyrightable subject matter, know how, trade secrets, copyright registrations, and reproduction rights, including any and all right to sue for past, current, or future infringement of the intellectual property rights hereby sold, assigned, and transferred, and we lunher hereby waive any and all moral rights under 17 U.S.C. § 106A or as so otherwise provided.

And we, for ourselves, our heirs, assigns, and legal representatives hereby covenant to and with said assignee Skyworks Panasonic Filter Solutions Japan Co., Ltd., its assigns, successors, and legal representatives, that we have full right to sell, assign, and transfer the whole right, title, and interest in and to said inventions and improvements, said United States and PCT International applications, and all the Letters Patent to be had therefor and that the entire interest herein conveyed is free from all prior assignment, grant, mortgage, license, or other encumbrance whatsoever. And we also, for ourselves, our heirs, assigns, and legal representatives hereby further covenant to and with said assignee Skyworks Panasonic Filter Solutions Japan Co., Ltd., its assigns, successors, and legal representatives to fully cooperate therewith in the prosecution of the aloresaid applications in the United States Patent and Trademark Office and in any and all foreign

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jurisdictions, said cooperation extending to any U.S. or foreign divisional, continuing, substitute, renewal, reissue, or any other application derived from or claiming priority to the aforesaid applications, and including the execution of additional declarations, assignments, and other formal documents as may be required in connection therewith.

And we do hereby covenant and agree not to challenge or oppose, on any grounds whatsoever, the validity of this assignment or to assist or request any third party to contest the validity of this assignment, and we further agree not to contest the validity or enforceability of any intellectual property rights assigned herein, or to assist or request any third party to contest the validity or enforceability of any intellectual property rights assigned herein. And we also agree that no course of conduct or dealing by us shall act as an amendment, modification, or waiver of any provision of this assignment unless specifically set forth in writing.

And we do hereby authorize and request the United States Commissioner of Patents to issue Letters Patent to said Skyworks Panasonic Filter Solutions Japan Co., Ltd. as the assignee of our entire right, title, and interest therein.

IN TESTIMONY WHEREOF, we have hereunto set our respective hand and seal on the day and month of the year 2016 as indicated below.

濱明陽介 Yosuke Hamaoka LS	Date: June 7 2016			
Yosuke Hamaoka				
The undersigned nereby certifies that he/she personally witnessed the foregoing handwritten in his/her presence in the city of Osaka, J	i signatura ol Yosuke Hamaoka apan			
With essed by R. R. Mg tob 18118	any of Jurie 2018			
print: <u>Skiavi dai Selai</u> ono Engli Witness Nome	<u>A. F. Á. y</u> řítness Title			
******				

In H. F.L. Mitru Airo Furuleur LS. Date: June 13 2016

Mitsuhiro Furukawa

The undersigned hereby conflies that ho/she personally witnessed the foregoing signature of Misubito Funkawa narowinten in his/her presence in the city of Osaka, Japan.

Witnessed by <u>R</u><u>/6</u>, 2016 point <u>Shunick: Sec</u> and <u>Englished C</u> Wilness Name

<u>Torn Yamaji</u> LS. Date: June, 6, 2016

Toru Yamali

The undersigned hereby cereties that he/she personally witnessed the foregoing signature of Toru Yemaş handwritten in his/her presence in the city of Oseka, Japan.

Witnessed by	/ Scores	on this	_ day of, 2016
Punt: <u>Shististi</u>		and <u>English</u>	₹.₹¥"
Witness		With	ess 7₩9

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**RECORDED: 08/15/2016**