

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4744235

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
TAKAYUKI TSUMAGARI	12/07/2017
YOSHIFUMI UCHITA	12/07/2017
SHINICHI TAKASE	12/07/2017
HIROHISA SAITO	12/05/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	SUMITOMO ELECTRIC PRINTED CIRCUITS, INC.
<b>Street Address:</b>	30, HINOKIGAOKA, MINAKUCHI-CHO
<b>City:</b>	KOKA-SHI, SHIGA
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	528-0068
<b>Name:</b>	AUTONETWORKS TECHNOLOGIES, LTD.
<b>Street Address:</b>	1-14, NISHISUEHIRO-CHO
<b>City:</b>	YOKKAICHI, MIE
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	510-8503
<b>Name:</b>	SUMITOMO ELECTRIC INDUSTRIES, LTD.
<b>Street Address:</b>	5-33, KITAHAMA 4-CHOME, CHUO-KU
<b>City:</b>	OSAKA-SHI, OSAKA
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	541-0041
<b>Name:</b>	SUMITOMO WIRING SYSTEMS, LTD.
<b>Street Address:</b>	1-14, NISHISUEHIRO-CHO
<b>City:</b>	YOKKAICHI, MIE
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	510-8503
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15738301

**CORRESPONDENCE DATA****Fax Number:** (202)204-0289*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.***Phone:** 202-842-8800**Email:** DCPatentFiling@dbr.com**Correspondent Name:** DRINKER BIDDLE & REATH (DC)**Address Line 1:** 1500 K STREET, N.W.**Address Line 2:** SUITE 1100**Address Line 4:** WASHINGTON, D.C. 20005-1209

<b>ATTORNEY DOCKET NUMBER:</b>	201917-0278-00-US-572230
<b>NAME OF SUBMITTER:</b>	PETER J. SISTARE
<b>SIGNATURE:</b>	/Peter J. Sistare/
<b>DATE SIGNED:</b>	12/20/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 6**

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### COMBINED DECLARATION AND ASSIGNMENT

WHEREAS I/WE, the below-named inventor(s) – hereinafter referred to as Assignor(s) – have made an invention entitled:

Flexible Printed Circuit Board

for which I/WE are filing an application for United States Letters Patent, the application being the one identified in the Declaration set forth below; and

WHEREAS, (1) SUMITOMO ELECTRIC PRINTED CIRCUITS, INC., (2) AutoNetworks Technologies, Ltd., (3) Sumitomo Electric Industries, Ltd. and (4) Sumitomo Wiring Systems, Ltd., a corporation of Japan, whose post office address is (1) 30, Hinokigaoka, Minakuchi-cho, Koka-shi, Shiga 528-0068 Japan, (2) 1-14, Nishisuehiro-cho, Yokkaichi, Mie 510-8503 Japan, (3) 5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0041 Japan, and (4) 1-14, Nishisuehiro-cho, Yokkaichi, Mie 510-8503 Japan (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to issue upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration, the receipt of which from Assignee is hereby acknowledged, I/WE, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisionals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and I/WE hereby authorize and request the United States Patent and Trademark Office to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/WE have the full right to convey the interest assigned by this Assignment, and I/WE have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, and all rights to claim priority on the basis of such applications, make all rightful oaths or the like, and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns;

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s) in the appropriate space below.

出願データシート（連邦規則法典第 37 編規則 1.76）を用いた  
実用又は意匠出願のための、連邦規則法典第 37 編規則 1.63 の  
宣言書として、下記に記名され、署名のある各発明者は、次  
のように宣言する。

この宣言書は次に向けられたものである（次の 2 つの  
ボックスのうち 1 つにチェックを入れてください）：

添付された出願、又は  
 \_\_\_\_\_ に出願された  
出願番号 \_\_\_\_\_  
である米国出願若しくは PCT 国際出願。

上記の出願は、私によってなされたか、又は私によって  
なされるよう権限を与えられたものである。

私は、この出願で請求されている発明の最初の発明者又は  
最初の共同発明者であると信じている。

私は、特許請求の範囲を含むこの出願の内容を検討し、且つ  
理解した。

私は、連邦規則法典第 37 編規則 1.56 に規定されているよう  
に、特許性について私が知っているすべての重要な情報を  
庁に開示する義務があることを知っている。

私は、この宣言書においてなされたいかなる故意による虚偽  
の供述は、合衆国法典第 18 編第 1001 条の下、罰金若しくは  
5 年以下の懲役又はその両方に処される事をここに認める。

AS A DECLARATION UNDER 37 C.F.R. § 1.63, for a utility or  
design application using an Application Data Sheet (37 C.F.R. §  
1.76), each below-named inventor for which a signature has been  
provided hereby declares that:

This Declaration is directed to (please check one of the following  
two boxes):

The attached application, or  
 United States application or PCT international application  
number PCT/JP2016/068488 filed on June 22, 2016.

The above-identified application was made or authorized to be made  
by me.

I believe that I am the original inventor or an original joint inventor  
of a claimed invention in the application.

I have reviewed and understand the contents of the application,  
including the claims.

I am aware of the duty to disclose to the Office all information  
known to me to be material to patentability as defined in 37 C.F.R. §  
1.56.

I hereby acknowledge that any willful false statement made in this  
declaration is punishable under 18 U.S.C. 1001 by fine or  
imprisonment of not more than five (5) years, or both.


注記：もし前もって提出されていないのであれば、発明主体全員の  
名前を挙げた出願データシート（PTO/AIA/14 又はそれに相当する  
もの）をこの用紙に添付しなければならない。

Note: An application data sheet (PTO/AIA/14 or equivalent) naming the  
entire inventive entity must accompany this form if not submitted previously.

**STATEMENT OF ACCURATE TRANSLATION UNDER 37 C.F.R. § 1.69(b):**

To the best of my knowledge, the English-language translation provided in this document is an accurate translation.

Signature: \_\_\_\_\_



Masahiro Noda

唯一または第一発明者の法律上の氏名		LEGAL NAME OF SOLE/FIRST ASSIGNOR/INVENTOR	
氏名 : _____	Print Name: <u>Takayuki TSUMAGARI</u>	日付 : _____	Date: <u>December 07, 2017</u>
署名 : _____	Signature: <u>Takayuki Tsumagari</u>		
第二発明者の法律上の氏名		LEGAL NAME OF SECOND ASSIGNOR/INVENTOR	
氏名 : _____	Print Name: <u>Yoshifumi UCHITA</u>	日付 : _____	Date: <u>December 07, 2017</u>
署名 : _____	Signature: <u>Yoshifumi Uchita</u>		
第三発明者の法律上の氏名		LEGAL NAME OF THIRD ASSIGNOR/INVENTOR	
氏名 : _____	Print Name: <u>Shinichi TAKASE</u>	日付 : _____	Date: _____
署名 : _____	Signature: _____		
第四発明者の法律上の氏名		LEGAL NAME OF FOURTH ASSIGNOR/INVENTOR	
氏名 : _____	Print Name: <u>Hirohisa SAITO</u>	日付 : _____	Date: <u>December 05, 2017</u>
署名 : _____	Signature: <u>Hirohisa Saito</u>		
第五発明者の法律上の氏名		LEGAL NAME OF FIFTH ASSIGNOR/INVENTOR	
氏名 : _____	Print Name: _____	日付 : _____	Date: _____
署名 : _____	Signature: _____		
第六発明者の法律上の氏名		LEGAL NAME OF SIXTH ASSIGNOR/INVENTOR	
氏名 : _____	Print Name: _____	日付 : _____	Date: _____
署名 : _____	Signature: _____		
発明者のリストは添付のページに続く : <input type="checkbox"/> はい <input type="checkbox"/> いいえ		Name(s) of additional Assignor(s)/Inventor(s) attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

**COMBINED DECLARATION AND ASSIGNMENT**

WHEREAS I/WE, the below-named inventor(s) – hereinafter referred to as Assignor(s) – have made an invention entitled:

Flexible Printed Circuit Board

for which I/WE are filing an application for United States Letters Patent, the application being the one identified in the Declaration set forth below; and

WHEREAS, (1) SUMITOMO ELECTRIC PRINTED CIRCUITS, INC., (2) AutoNetworks Technologies, Ltd., (3) Sumitomo Electric Industries, Ltd. and (4) Sumitomo Wiring Systems, Ltd., a corporation of Japan, whose post office address is (1) 30, Hinokigaoka, Minakuchi-cho, Koka-shi, Shiga 528-0068 Japan, (2) 1-14, Nishisuehiro-cho, Yokkaichi, Mie 510-8503 Japan, (3) 5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0041 Japan, and (4) 1-14, Nishisuehiro-cho, Yokkaichi, Mie 510-8503 Japan (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, the application for United States Letters Patent on this invention and the Letters Patent to issue upon this application;

NOW THEREFORE, be it known that, for good and valuable consideration, the receipt of which from Assignee is hereby acknowledged, I/WE, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to this invention and this application, and all divisionals, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and I/WE hereby authorize and request the United States Patent and Trademark Office to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/WE have the full right to convey the interest assigned by this Assignment, and I/WE have not executed and will not execute any agreement in conflict with this Assignment;

AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors and assigns, execute all divisional, continuation, and reissue applications, and all rights to claim priority on the basis of such applications, make all rightful oaths or the like, and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns;

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The above-identified application was made or authorized to be made  
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I believe that I am the original inventor or an original joint inventor  
of a claimed invention in the application.

I have reviewed and understand the contents of the application,  
including the claims.

I am aware of the duty to disclose to the Office all information  
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Masahiro Noda

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氏名 : _____	Print Name: <u>Takayuki TSUMAGARI</u>	
日付 : _____	Date: _____	
署名 : _____	Signature: _____	
第二発明者の法律上の氏名		LEGAL NAME OF SECOND ASSIGNOR/INVENTOR
氏名 : _____	Print Name: <u>Yoshifumi UCHITA</u>	
日付 : _____	Date: _____	
署名 : _____	Signature: _____	
第三発明者の法律上の氏名		LEGAL NAME OF THIRD ASSIGNOR/INVENTOR
氏名 : _____	Print Name: <u>Shinichi TAKASE</u>	
日付 : _____	Date: <u>7/Dec/2017</u>	
署名 : _____	Signature: <u>Shinichi Takase</u>	
第四発明者の法律上の氏名		LEGAL NAME OF FOURTH ASSIGNOR/INVENTOR
氏名 : _____	Print Name: <u>Hirohisa SAITO</u>	
日付 : _____	Date: _____	
署名 : _____	Signature: _____	
第五発明者の法律上の氏名		LEGAL NAME OF FIFTH ASSIGNOR/INVENTOR
氏名 : _____	Print Name: _____	
日付 : _____	Date: _____	
署名 : _____	Signature: _____	
第六発明者の法律上の氏名		LEGAL NAME OF SIXTH ASSIGNOR/INVENTOR
氏名 : _____	Print Name: _____	
日付 : _____	Date: _____	
署名 : _____	Signature: _____	
発明者のリストは添付のページに続く : <input type="checkbox"/> はい <input type="checkbox"/> いいえ		Name(s) of additional Assignor(s)/Inventor(s) attached: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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