

## PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5009474

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT

## CONVEYING PARTY DATA

Name	Execution Date
HIDEAKI TAHARA	05/25/2018
ARINOBU NAKAMURA	05/23/2018
KAZUYOSHI OHARA	05/28/2018
MUNSOKU O	06/03/2018

## RECEIVING PARTY DATA

<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 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>Name:</b>	SUMITOMO ELECTRIC INDUSTRIES, LTD.
<b>Street Address:</b>	5-33 KITAHAMA 4-CHOME
<b>Internal Address:</b>	CHUO-KU, OSAKA-SHI
<b>City:</b>	OSAKA
<b>State/Country:</b>	JAPAN
<b>Postal Code:</b>	541-0041

## PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16062997

## CORRESPONDENCE DATA

Fax Number: (248)647-5210

*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: 248-647-6000

PATENT

<b>Email:</b>	Juli.Lawrence@dinsmore.com
<b>Correspondent Name:</b>	DINSMORE & SHOHL LLP
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<b>Address Line 2:</b>	SUITE 300
<b>Address Line 4:</b>	TROY, MICHIGAN 48084

<b>ATTORNEY DOCKET NUMBER:</b>	50SWSJ34002PA
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<b>NAME OF SUBMITTER:</b>	KEVIN MACKENZIE
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<b>SIGNATURE:</b>	/Kevin MacKenzie/
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<b>DATE SIGNED:</b>	06/15/2018
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**Total Attachments: 3**

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## ASSIGNMENT

WHEREAS, we, Hideaki Tahara, Arinobu Nakamura, Kazuyoshi Ohara, and Munsoku O (hereinafter referred to as Assignors), residing at 1-14 Nishisuehiro-cho, Yokkaichi, Mie, 510-8503, JAPAN; invented certain new and useful SUBSTRATE UNIT for which we executed an application for a United States Patent and for which said application for United States Patent was filed on June 15, 2018, under

Patent Application Serial No. 16/062,997

Attorney Docket No.: 50SWSJ34002PA:

WHEREAS, the *ASSIGNORS* hereby authorize(s) and request(s) the attorney(s) and/or agent(s) empowered to act on behalf of **AutoNetworks Technologies, Ltd., Sumitomo Wiring Systems, Ltd., and Sumitomo Electric Industries, Ltd.**, in the aforementioned application, to insert above the filing date and application number of said application, when known;

WHEREAS, **AutoNetworks Technologies, Ltd.**, a Limited Liability Company organized under and pursuant to the laws of Japan having its principal place of business at 1-14 Nishisuehiro-cho, Yokkaichi, Mie, 510-8503, JAPAN; **Sumitomo Wiring Systems, Ltd.**, a Limited Liability Company organized under and pursuant to the laws of Japan having its principal place of business at 1-14 Nishisuehiro-cho, Yokkaichi, Mie, 510-8503, JAPAN and **Sumitomo Electric Industries, Ltd.**, a Limited Liability Company organized under and pursuant to the laws of Japan having its principal place of business at 5-33 Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka, 541-0041 JAPAN, collectively hereinafter called the *ASSIGNEES*, is desirous of acquiring the entire right, title and interest in and to said application and the inventions therein disclosed and any Letters Patent that may issue thereon;

AND, WHEREAS, it is the intent of the *ASSIGNORS* to assign all rights to the above referenced application to the *ASSIGNEES*, including, but not limited to, all substantive rights in the above-referenced application as well as the right to claim priority, the right to be granted a patent in any and all countries and Regional Patent Offices, including, without limitation, the PCT Contracting States;

NOW, THEREFORE, for good and valuable consideration, receipt whereof is hereby acknowledged, *ASSIGNORS* hereby sell, assign and transfer unto said *ASSIGNEES*, its successors and assigns, the entire right, title and interest, including the right to claim priority in and to said application, the inventions therein disclosed, and any improvements thereon, and in any and all Letters Patent that may be granted therefor in the United States and its territorial possessions and in any and all countries and Regional Patent Offices, including, without limitation, the PCT Contracting States, and in and to any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof;

*ASSIGNORS* hereby authorize and request the Patent Office Officials in the United States and its territorial possessions, and in any and all countries and Regional Patent Offices, including, without limitation, the PCT Contracting States, to issue, when granted, any Letters Patent thereon, and any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof, to said *ASSIGNEES*, its successors and assigns, as the assignees of the entire right title and interest in and to the same, for the sole use and behalf of the *ASSIGNEES* and the *ASSIGNEES'* successors and assigns, to the full end of the term for which the Letters Patent

Attorney Docket No: 50SWSJ34002PA  
Client's Reference: FPCT18-136US

**PATENT**  
**REEL: 046102 FRAME: 0019**

may be granted, including the term of any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof, as fully and entirely as the same would have been held by the *ASSIGNORS* had this assignment not been made;

*ASSIGNORS* hereby authorize said *ASSIGNEES*, its successors and assigns, to file in its own name applications for patent in foreign countries in connection with the inventions hereby transferred, under the International Convention claiming the priority of said United States application or otherwise, and to secure in its own name the Letters Patent issued thereon, including any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof; and

*ASSIGNORS* hereby agree that, upon request, *ASSIGNORS* will sign all papers, and make all rightful oaths, and do all acts which said *ASSIGNEES*, its successors or assigns, may consider necessary in connection with said United States application, and in connection with any other United States application or foreign applications that may be filed in connection with said inventions, and with any improvements thereon, and in connection with any Letters Patent issued thereon, including any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof.

ASSIGNORS:

Date: May 25, 2018      Signature: Hideaki Tahara  
Hideaki Tahara

Date: May 23, 2018      Signature: Arinobu Nakamura  
Arinobu Nakamura

Date: May 28, 2018      Signature: Kazuyoshi Ohara  
Kazuyoshi Ohara

Date: \_\_\_\_\_      Signature: \_\_\_\_\_  
Munsoku O

may be granted, including the term of any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof, as fully and entirely as the same would have been held by the *ASSIGNORS* had this assignment not been made;

*ASSIGNORS* hereby authorize said *ASSIGNEES*, its successors and assigns, to file in its own name applications for patent in foreign countries in connection with the inventions hereby transferred, under the International Convention claiming the priority of said United States application or otherwise, and to secure in its own name the Letters Patent issued thereon, including any and all divisions, continuations, substitutions, renewals, re-examinations, extensions and reissues thereof; and

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ASSIGNORS:

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Hideaki Tahara

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Arinobu Nakamura

Date: \_\_\_\_\_ Signature: \_\_\_\_\_  
Kazuyoshi Ohara

Date: June, 3, 2018 Signature: OH MOONSEOK  
Munsoku O