

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5156923

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Tou CHIN	08/07/2018
Arinobu NAKAMURA	08/03/2018
RECEIVING PARTY DATA	
Name:	AUTONETWORKS TECHNOLOGIES, LTD.
Street Address:	1-14, NISHISUEHIRO-CHO
City:	YOKKAICHI-SHI, MIE
State/Country:	JAPAN
Postal Code:	510-8503
Name:	SUMITOMO WIRING SYSTEMS, LTD.
Street Address:	1-14, NISHISUEHIRO-CHO
City:	YOKKAICHI-SHI, MIE
State/Country:	JAPAN
Postal Code:	510-8503
Name:	SUMITOMO ELECTRIC INDUSTRIES, LTD.
Street Address:	5-33, KITAHAMA 4-CHOME
Internal Address:	CHUO-KU
City:	OSAKA-SHI, OSAKA
State/Country:	JAPAN
Postal Code:	541-0041
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16088207
CORRESPONDENCE DATA	
Fax Number:	(703)836-2787
<i>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.</i>	
Phone:	703-836-6400
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Correspondent Name:	JAMES A. OLIFF
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Address Line 2:	P.O. BOX 320850
Address Line 4:	ALEXANDRIA, VIRGINIA 22320-4850

ATTORNEY DOCKET NUMBER:	181585
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NAME OF SUBMITTER:	KIMBERLY SCOTT
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SIGNATURE:	/Kimberly C. Scott/ for James A. Oliff
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DATE SIGNED:	09/25/2018
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Total Attachments: 3

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ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e))**For Application with Filing Date on or after September 16, 2012****ASSIGNMENT
(Three Assignees)**

Insert	(1)	<u>Tou CHIN</u>	(2)	<u>Arinobu NAKAMURA</u>
(1-8) Legal Name(s)	(3)	<u></u>	(4)	<u></u>
of Inventor(s)	(5)	<u></u>	(6)	<u></u>
	(7)	<u></u>	(8)	<u></u>

In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the receipt and sufficiency of which are hereby acknowledged, each undersigned agrees to assign, and hereby does assign, transfer and set over to

(9A) Insert Name of First Assignee	(9A)	<u>AUTONETWORKS TECHNOLOGIES, LTD.</u>
(10A) Insert Address of First Assignee	(10A)	<u>1-14, Nishisuehiro-cho, Yokkaichi-shi, Mie 510-8503 Japan</u>
(9B) Insert Name of Second Assignee	(9B)	<u>SUMITOMO WIRING SYSTEMS, LTD.</u>
(10B) Insert Address of Second Assignee	(10B)	<u>1-14, Nishisuehiro-cho, Yokkaichi-shi, Mie 510-8503 Japan</u>
(9C) Insert Name of Third Assignee		<u>SUMITOMO ELECTRIC INDUSTRIES, LTD.</u>
(10C) Insert Address of Third Assignee		<u>5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0041 Japan</u>

(hereinafter designated as the Assignees) and Assignees' heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as

(11) Insert Identification such as Title, Case Number, or Foreign Application Number	(11)	<u>CIRCUIT BOARD, CIRCUIT ASSEMBLY, AND CIRCUIT BOARD MANUFACTURING METHOD</u>
		<u>(Attorney Docket No. 181585), filed on even date herewith or as</u>

(12) Alternative Identification for filed applications	(12)	<u>U.S. Application Number 16/088,207</u>
	filed	<u>September 25, 2018</u>

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignees may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patent for the invention and to cooperate with the Assignees in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees to execute 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.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignees.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignees, as Assignees of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of **OLIFF PLC** the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

(13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §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.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date August 7, 2018 Inventor Signature Tou Chin (SEAL)
Tou CHIN

Date _____ Inventor Signature _____ (SEAL)
Arinobu NAKAMURA

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date _____ Witness _____

Date _____ Witness _____

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date _____ Inventor Signature _____ (SEAL)

Tou CHIN

Date August 3, 2018

Inventor Signature Arinobu Nakamura (SEAL)

Arinobu NAKAMURA

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

Date _____ Inventor Signature _____ (SEAL)

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