Mail Stop: Assignment Recordation Services Director of the U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450	RECORDATION FORM PATENTS (	ONLY	U.S. DEPA Attorney Docket No.	RTMENT OF COMMERCE Patent and Trademark Office  156334
Please record the attached document.  Total number of pages including cover sh	eet, attachments, and docume	ent: 7		
1. A. Name of conveying party(ies):  (1) Junichi ONO (2) Eiji SAIJO (3) Hiroki HIRAI (4) Takuji OTSUKA (5) Hiroki SHIMODA (6) Hajime KAWASE (7) Takuya INOUE (8) Masaaki TABATA (9) Takehiro NAKATA (10) Satoshi MORIKAWA (11) Mikiko KOSAKA  B. Additional name(s) of conveying  3. A. Nature of conveyance:  Assignment  Security Agreement  Other  B. Execution Date: : (1), (3)-(5), (2) and (9): 12/27/12; (6), (7) and (9): 12/27/12; (6); (9): 12/27/12; (6); (9): 12/27/12; (6); (9): 12/27/12; (6); (9): 12/27/12; (6); (9): 12/27/12; (6); (9): 12/27/12; (6); (9): 12/27/12; (6); (9): 12/27/12; (6); (9): 12/27/12; (6); (9): 12/27/12; (6); (9): 12/27/12; (6); (9): 12/27/12; (6); (9): 12/27/12; (6); (9): 12/27/12; (6); (9): 12/27/12; (6	ng party(ies) attached?  Yes No  Merger  Change of Name  (8) and (10): 12/18/12;		1-14, NISHISUEHIRO YOKKAICHI-SHI, M SUMITOMO WIRINO 1-14, NISHISUEHIRO YOKKAICHI-SHI, M SUMITOMO ELECT 5-33, KITAHAMA 4- OSAKA-SHI, OSAKA	TECHNOLOGIES, LTD. D-CHO, IIE 510-8503 JAPAN G SYSTEMS, LTD. D-CHO, IIE 510-8503 JAPAN RIC INDUSTRIES, LTD. CHOME, CHUO-KU, A 541-0041 JAPAN
The Facous Supplication No.(a)	3/813,392  Additional numbers atta  TRIC WIRE WITH TER	iched? Yes 🛭	_	
5. Name and address of party to whom a concerning document should be mailed.  Name: James A. Oliff  Address: OLIFF & BERRIDGE P.O. Box 32085 Alexandria, VA 2232 Phone Number: 703-8 Fax Number: 703-83	ed: - - - - - - - - - - - - - - - - - - -	7. Please of fee (37 of 8. Credit any of	CFR 3.41) in the am	ount No. 15-0461 the total
9. Statement and signature. To the best of my knowledge and belioriginal document.  James A. Oliff Registration No. Todd M. Guise Registration No.	 . 27,075		t and any attached cop e: January 30, 2013	ry is a true copy of the

**PATENT** 

**REEL: 029737 FRAME: 0666** 

## ASSIGNMENT

	Insert	(i)	Junichi ONO	(7)	Takuya INOUE		
(1-4)	Name(s) of Inventor(s)	(2)	Eiji SAUO	(8)	Masaaki TABATA		
	of inventor(s)	(3)	Hiroki HIRAI	(9)	Takehiro NAKATA		
		(4)	Takuji OTSUKA	(10)	Satoshi MORIKAWA		
		(5)	Hiroki SHIMODA	(11)	Mikiko KOSAKA		
		(6)	Hajime KAWASE				
		paid to set over	each of the undersigned, each ur	of one dollar (\$ ndersigned agrees	1.00) and other good and valuable considerations to assign, and hereby does assign, transfer and		
(9)	Insert Name of Assignee	(9)	AUTONETWORKS TECHNOL	OGIES, LTD.			
(10)	Insert Address of Assignee	(10)	1-14, Nishisuehiro-cho, Yokkai	chi-shi, Mie 510	-8503 Japan		
(9)	Insert Name of Assignee	(9)	SUMITOMO WIRING SYSTEM	MS, LTD.			
(10)	Insert Address of Assignee	(10)	10) 1-14, Nishisuehiro-cho, Yokkaichi-shi, Mie 510-8503 Japan				
(9)	Insert Name of Assignee		SUMITOMO ELECTRIC INDU				
(10)	Insert Address of Assignee	(10)	5-33, Kitahama 4-chome, Chuo	-ku, Osaka-shi, C	Osaka 541-0041 Japan		
(11)	Insert	invention continua extension	e right, title and interest for the U n, and in all applications for pater tion, international, confirmation,	nited States of Ar nt including any a substitute and rei- rtificates that may	rs, successors, assigns and legal representatives, nerica as defined in 35 U.S.C. §100, in the nd all provisional, non-provisional, divisional, ssue application(s), and all Letters Patent, be granted on the invention known as		
(22)	Identification	(11) _	ELECTRIC WIRE WITH TERM	MNAL AND CO	NNECTOR		
	such as Title, Case Number, or Foreign	-					
	Application Number	•	y Docket No156334				
		for whic on even	h the undersigned has (have) exe date herewith or	cuted an applica	tion for patent in the United States of America		
(12)	Insert Date of Signing of	(12) on			<b>8</b>		
	Application	U11		·			
(13)	Alternative	(13) Number	U.S. application Serial	13/8	113,392		
	Identification for filed applications	filed	January 30, 2013				
any application of the Assignment of the Assignm	applications for the invention, ions and patents as the Assign 2) Each undersigned agree lication or continuation or divignee in every way possible in 3) Each undersigned agree r provisions of the Internation 4) Each undersigned agree nation a grant of a valid Unite 5) Each undersigned authoof the United States resulting to convey the entire interest est that this assignment is bine 6) Each undersigned hereb	and any passes and any passes to execute obtaining a to execute all Convents to perform ad States parizes and raffrom said and ing on hir y grants the	atent(s) issuing thereon, and also em necessary: e all papers necessary in connec- iof, or any patent or reissue appli- evidence and going forward will e all papers and documents and tion for Protection of Industrial mall affirmative acts which may atent to the Assignee. equests the Commissioner of the application(s) to the said Assign- gned, and that he has not execut m and his heirs, successors, assig- e firm of OLIFF & BERRIDGE. P	tion with any interest of the cation based their such interference perform any act very property or similable necessary to a U.S. Patent and see, as Assignee of the cation of the catio	which may be necessary in connection with ar agreements. obtain, maintain or confirm by reissue or  Trademark Office to issue any and all Letters f the entire interest, and covenants that he has execute, any agreements in conflict berewith		
	In witness whereof, execute	d by the u	ndersigned on the date(s) oppo	osite the undersi	gned name(s).		
Date _	Dec. 18.	2012	Inventor Signature	Juni'd Junichi ONO	ch' Ono (SEAL)		
Date _			Inventor Signature	Eiji SAIJO	(SEAL)		

Page 1

Date	Dec 18,2012	Inventor Signature	Hirohi Hirai	(SEAL)
Date	Dec. 18,2012	Inventor Signature	Takuji Otsuka.	(SEAL)
Date	Dec. 18, 20/2	Inventor Signature	Hiroki Shimoda	(SEAL)
Date	Dec. 24, 2012	Inventor Signature	Hajime Kawase	(SEAL)
Date	Dec. 24, 20/2	Inventor Signature	Taknya Inone	(SEAL)
Date	Dec. 18. 2012	Inventor Signature	Masaaki Tabata Masaaki TABATA	(SEAL)
Date		Inventor Signature	Takehiro NAKATA	(SEAL)
Date	Dec. 18. 2012	Inventor Signature	Satoshi Moukowa Safoshi MORIKAWA	(SEAL)
Date _	<u></u>	Inventor Signature	Mikiko KOSAKA	(SEAL)
If neithe	This assignment should preferably be signed r, then it should be signed before at least two	l before; (a) a Notary Pub witnesses who also sign	lic if within the U.S.A. (b) a U.S. Consul if outside there:	ie U.S.A.
Date _		Witness		
Date		Witness		··········

A.	TRE	CN	M	ENT	,
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	Su anud	(1)	Junichi ONO	(7)	Takuya INOUE		
(1-4)	Insert Name(s)	(2)	Eiji SAUO	(8)	Masaaki TABATA		
	of Inventor(s)	(3)	Hiroki HIRAL	(9)	Takehiro NAKATA		
		(4)	Takuji OTSUKA	(10)	Satoshi MORIKAWA		
		(5)	Hiroki SHIMODA	(11)	Mikiko KOSAKA		
		(6)	Hajimo KAWASE				
(0)	Ingant Name of	pald ( set ov	o each of the undersigned, each und	of one dollar (\$ ersigned agrees	1.00) and other good and valuable consideration to assign, and hereby does assign, transfer and		
(9) (10)	Insert Name of Assignce Insert Address of	(9)	AUTONETWORKS TECHNOLO	GIES, LTD.			
(9)	Assignee Insert Name of	(10)	1-14, Nishiguehiro-oho, Yokkalel	ni-shi, Mie S10	-8503 Japan		
(10)	Assignee Insert Address of	(9)	SUMITOMO WIRING SYSTEMS, LTD.				
(9)	Assignee Insert Name of	(10)	I-14. Nishisuchiro-cho, Yokkaichi-shi, Mie 510-8503 Japan				
(10)	Assignee Insert Address of	(9)	SUMITOMO ELECTRIC INDUSTRIES, L'TD.				
(**)	Assignee	(10)	5-33, Kilahama 4-chome, Chuo-k	u, Osaka-shi, C	Osaka 541-0041 Japan		
		invent contin	ire right, title and interest for the Uni lon, and in all applications for patent vation, international, confirmation, st	ited States of Ar including any a ibstitute and rel	rs, successors, assigns and legal representatives, nerica as defined in 35 U.S.C. §100, in the and all provisional, non-provisional, divisional, save application(s), and all Letters Patent, y be granted on the invention known as		
(11)	Insert Identification	(11)	ELECTRIC WIRE WITH TERMI	NAL AND CO	NNECTOR		
	such as Thie, Case Number, or Foreign Application Number	,	ney Docket No. 15633		tion for patent in the United States of America		
(12)	Insert Date of Signing of	(12) on	n date herewith or				
(13)	Application Alternative	(13)	U.S. application Serial	13/813	392		
	Identification for	Numbe	January 30, 2013	- +0/010	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	filed applications  1) Each undersigned agre	filed es to exec	ute all papers necessary in connection	on with any app	olication and any continuing, divisional or		
appnication app the Assiclaims of cexamic extents of the continuous appropries	ons and patents as the Assigned agree illeation or continuation or dignee in every way possible if an every way possible in provisions of the Internation of the United States resulting if to convey the entire interested that this assignment is bit in the every way to entire interested that this assignment is bit in the every way to entire interested that this assignment is bit in the every way to entire interested that this assignment is bit in the every way to entire interested that this assignment is bit of the every way to entire interested that this assignment is bit of the every way to entire interested that this assignment is bit of the every way to entire interested the every way to entire interested the every way to every way the every way to eve	gnee may yes to execute to execute the polytim in the perfect of t	Jean accessary. In connection of all papers accessary in connection roof, or any patent or reissue applie g evidence and going forward with all papers and documents and pention for Protection of Industrial Proma all affirmative acts which may be patent to the Assignee, requests the Commissioner of the U application(s) to the said Assignee signed, and that he has not execute im and his heirs, successors, assign the firm of OLIFF & BERRINGE, Plete in order to comply with the rules	on with any interest of interference form any act to operty or simil to necessary to J.S. Patent and J. as Assigned of the United Softhe United Softhe Softhe United Softhe Softhe Softhe United Softhe Softhe United Softhe Unite	which may be necessary in connection with an agreements, obtain, maintain or confirm by reissue or Trademark Office to issue my and all Letters of the entire interest, and covenants that he has execute, any agreements in conflict herewith, resentatives, insert on this assignment any further lates Patent and Trademark Office for		
	in Milless MycLeof excen	ed by the	undersigned on the date(s) oppos	ite the undersi	igned name(s).		
)ate .			Inventor Signature Ju	inichi ONO	(SEAL)		
ate	December 27	20/7	E	JI SAIJO	(SEAL)		
			Page 1		,		

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TIBELES CALD 11-9 BOOK HODROTELLIT

Date		Inventor Signature	1	_ (SEAL)
		_	Hiroki HIRAI	
Date		Inventor Signature	Takuji OTSUKA	_ (SEAL)
Date		Inventor Signature	Hiroki SHIMODA	_ (SEAL)
Date	•	Inventor Signature		
Date		Inventor Signature	Takuya INOUE	
Date		inventor Signature	Masaaki TABATA	_ (SEAL)
Date	December 27. 2012	Inventor Signature	Th. 1. 111+	
Date		Inventor Signature	Satoshi MORIKAWA	_ (SEAL)
Date	<u> </u>	Inventor Signature	Mikiko KOSAKA	_ (SEAL)
If neitl	This assignment should preferably be signed her, then it should be signed before at least two		blic if within the U.S.A. (b) a U.S. Consul if outside here:	the U.S.A.
Date		Witness _		
Date	<u> </u>	Witness		

## **ASSIGNMENT**

	•	<b>(I)</b>	Junichi ONO	(7)	Takuya INOUE
(1-4)	Insert Name(s)	(2)	Eiji SAIJO	(8)	Masaaki TABATA
	of Inventor(s)	(3)	Hiroki HIRAI	(9)	Takehiro NAKATA
		(4)	Takuji OTSUKA	(10)	Satoshi MORIKAWA
		(5)	Hiroki SHIMODA	(11)	Mikiko KOSAKA
		(6)	Hajime KAWASE	-	
(9)	Insert Name of	set ov	o each of the undersigned, each und er to	dersigned agree	1.00) and other good and valuable consideration s to assign, and hereby does assign, transfer and
(10)	Assignee Insert Address of	(9)	AUTONETWORKS TECHNOLO		
(9)	Assignee Insert Name of	(10)	1-14, Nishisuehiro-cho, Yokkaic	hi-shi, Mie 510	-8503 Japan
(10)	Assignee Insert Address of	(9)	SUMITOMO WIRING SYSTEM	IS, LTD.	
(9)	Assignee Insert Name of	(10)	1-14, Nishisuehiro-cho, Yokkaic	hi-shi, Mie 510	-8503 Japan
(10)	Assignee Insert Address of	(9)	SUMITOMO ELECTRIC INDUS	STRIES, LTD.	77.
(20)	Assignee	(10)	5-33, Kitahama 4-chome, Chuo-l	ku, Osaka-shi, (	Osaka 541-0041 Japan
		the ent invention	ire right, title and interest for the Un ion, and in all applications for patent uation, international, confirmation, s	ited States of Ast including any a substitute and re-	irs, successors, assigns and legal representatives, merica as defined in 35 U.S.C. §100, in the and all provisional, non-provisional, divisional, issue application(s), and all Letters Patent, y be granted on the invention known as
(11)	Insert Identification	(11)	ELECTRIC WIRE WITH TERM	INAL AND CO	NNECTOR
	such as Title, Case		,	~~	
	Number, or Foreign Application Number	(Attor	ney Docket No. 156334	1 .	
	•	for wh	-	cuted an applica	ation for patent in the United States of America
(12)	Insert Date of Signing of	(12) on			
	Application		,	•	
(13)	Alternative	(13) Numb	U.S. application Serial	13/813	,392
	Identification for filed applications	filed	January 30, 2013		
applicat any applithe Assi claims o reexamin Patents of full right and agre identific recordate	applications for the inventior ions and patents as the Assig 2) Each undersigned agre lication or continuation or dignee in every way possible is 3) Each undersigned agre r provisions of the Internatic 4) Each undersigned agre nation a grant of a valid Unit 5) Each undersigned auth of the United States resulting to convey the entire interesses that this assignment is bit 6) Each undersigned here ation that may be necessary ion of this document.	n, and any gree may ees to executivision then obtaining es to execute and Convest to perfeted States orizes and therein a adding on by grants or desirab	v patent(s) issuing thereon, and also deem necessary.  The all papers necessary in connect excef, or any patent or reissue appling evidence and going forward with the all papers and documents and pention for Protection of Industrial Form all affirmative acts which may patent to the Assignee.  If requests the Commissioner of the dapplication(s) to the said Assignee signed, and that he has not execute him and his heirs, successors, assig the firm of OLIFF & BERRIDGE, PI	to execute separation with any interaction based the such interferer perform any act Property or similate the necessary to U.S. Patent and the such and will not us and legal reput the power to sof the United in the soft the united in the sof the united in the soft the united in the united in the soft the united in the soft the united in the soft the united in the united	which may be necessary in connection with lar agreements.  obtain, maintain or confirm by reissue or a Trademark Office to issue any and all Letters of the entire interest, and covenants that he has execute, any agreements in conflict herewith, presentatives.  insert on this assignment any further States Patent and Trademark Office for
Date			Inventor Signature		(CE AT \
wate .	·			lunichi ONO	(\$EAL)
Date		<u>.</u>	Inventor Signature	Eiji SAIJO	(SEAL)

Page 1

Date	Inventor Signature		(SEAL)
		Hiroki HIRAI	<del></del>
Date	Inventor Signature	Takuji OTSUKA	_ (SEAL)
		Takuji OTSUKA	
Date	Inventor Signature	Hiroki SHIMODA	_ (SEAL)
	•	micki shimoda	
Date	Inventor Signature	Hajime KAWASE	_ (SEAL);
Date	Inventor Signature	Takuya INOUE	_ (SEAL)
Date	inventor Signature		(SEAL)
	In onto eguerate	Masaaki TABATA	_ (00,00)
Date	Inventor Signature		_ (SEAL)
	Ŀ	Takehiro NAKATA	
Date	Inventor Signature	Satoshi MORIKAWA	_ (SEAL)
D 1 24 22/2	,		
Date December 24,20/2	Inventor Signature	Mikiko Kosaka	_ (SEAL)
This assignment should preferably be s If neither, then it should be signed before at least	signed before: (a) a Notary Pub st two witnesses who also sign	lic if within the U.S.A. (b) a U.S. Consul if outside here:	the U.S.A.
Date	Witness		
Date	Witness		

Page 2

PATENT REEL: 029737 FRAME: 0672