# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6536328

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
MASATO SUZUKI	01/30/2021
YOSHINORI YAMAMOTO	01/29/2021
YOSHIAKI TAMURA	01/29/2021
TAKEMI HASEGAWA	01/29/2021

## **RECEIVING PARTY DATA**

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

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	17168468

## **CORRESPONDENCE DATA**

**Fax Number:** (202)204-0289

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ATTORNEY DOCKET NUMBER:	202262-0253-00-US-000017
NAME OF SUBMITTER:	JOHN G. SMITH
SIGNATURE:	/John G. Smith/
DATE SIGNED:	02/05/2021

# **Total Attachments: 4**

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> PATENT REEL: 055161 FRAME: 0277

Masato SUZUKI  1) Masato SUZUKI  2) Voshinori YAMAMOTO  2) Voshinori YAMAMOTO  3) Voshinki TAMURA  3) Voshinki TAMURA  3) Voshinki TAMURA  4) Takemi HASEGAWA  4) Takemi HASEGAWA  4) Takemi HASEGAWA  5-33, Kinhama 4-chone, Chuo-ku, Chuo-k		ASSIGN	MENT	
che SUMITOMO ELECTRIC INDUSTRIES, LTD., 5-33, Kinhama 4-chone, Chun-ha, Olaka-shi, Coalas 54-004 I Japan che SUMITOMO ELECTRIC INDUSTRIES, LTD., 5-34, Kinhama 4-chone, Chun-ha, Olaka-shi, Coalas 54-004 I Japan che SUMITOMO ELECTRIC INDUSTRIES, LTD., 5-34, Kinhama 4-chone, Chun-ha, Olaka-shi, Coalas 54-004 I Japan che SUMITOMO ELECTRIC INDUSTRIES, LTD., 5-34, Kinhama 4-chone, Chun-ha, Olaka-shi, Olaka 54-004 I Japan che SUMITOMO ELECTRIC INDUSTRIES, LTD., 5-34, Kinhama 4-chone, Chos-ha, Olaka-shi, Olaka 54-004 I Japan che SUMITOMO ELECTRIC INDUSTRIES, LTD., 5-34, Kinhama 4-chone, Chos-ha, Olaka-shi, Olaka 54-004 I Japan che SUMITOMO ELECTRIC INDUSTRIES, LTD., 5-33, Kinhama 4-chone, Chos-ha, Olaka-shi, Olaka 54-004 I Japan and executed an application for Letters Patent of the United States of America therefor on even date herewith ure otherwise indicated below: filed on , , Serial No.  Whereas SUMITOMO ELECTRIC INDUSTRIES, LTD. 5-33, Kinhama 4-chone, Chun-ha, Osaka-shi, Osaka 54-004 I Japan assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United States to be obtained therefor; NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of ereby acknowledged, IVWE, as assignor(s), have sold, assigned, transferred, and set ower, and do hereby sell, as ransfer, and set over unto the assignee, its invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the Unith the trans to fluid States to issue all Letters Patent for this Invention to assignee, its successor states to be rotherwarks of the United States to issue all Letters Patent for this invention to assignee, its successor signee, its successors and assigns, any fortex known to MEUS respecting this invention in the United States, it be desirable to perfect the title to this invention is and assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it	Whereas, I/we,			
5-33, Kitshama 4-chouse, Chus-ka, Osaka-shi, Osaka 54-0041 Japan  be SUMITONO ELECTRIC INDUSTRIES, LTD. 5-34, Kitshama 4-chouse, Chus-ka, Osaka-shi, Osaka 54-0041 Japan  be SUMITONO ELECTRIC INDUSTRIES, LTD. 5-34, Kitshama 4-chouse, Chus-ka, Osaka-shi, Osaka 54-0041 Japan  be SUMITONO ELECTRIC INDUSTRIES, LTD. 5-34, Kitshama 4-chouse, Chus-ka, Osaka-shi, Osaka 54-0041 Japan  be SUMITONO ELECTRIC INDUSTRIES, LTD. 5-34, Kitshama 4-chouse, Chus-ka, Osaka-shi, Osaka 54-0041 Japan  be SUMITONO ELECTRIC INDUSTRIES, LTD. 5-34, Kitshama 4-chouse, Chus-ka, Osaka-shi, Osaka 54-0041 Japan  DPTICAL FIBER LINE, MODULE, AND METHOD FOR MANUFACTURING OPTICAL FIBER LIN  and executed an application for Letters Patent of the United States of America therefor on even date herewith ur  therwise indicated below: filed on  Whereas  SUMITOMO ELECTRIC INDUSTRIES, LTD. 5-33, Kitshama 4-chouse, Chus-ka, Osaka-shi, Osaka 541-0041 Japan  assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United states to be obtained therefor;  NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of creby acknowledged, IVWE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, as ansfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR enter patient in the suminary of the	<u>Name</u>	Address		
che SUMITOMO BLECTRIC INDUSTRIES, LTD.  5.33, Kitahara 4-hone, Chao-ka, Coska-shi, Caska 541-0941 Japan  10) Takemi HASEGAWA  11) Takemi HASEGAWA  12) Takemi HASEGAWA  13) Takemi HASEGAWA  14) Takemi HASEGAWA  15) Takemi HASEGAWA  16) Takemi HASEGAWA  17) Takemi HASEGAWA  18) Takem	) Masato SUZUKI	5-33, Kitahama 4-chome, Chuo	-ku,	
Stantino Delicities, Chocken, Chocken, Charles, Chocken, Charles, Chocken, Charles,	2) Yoshinori YAMAMOTO	c/o SUMITOMO ELECTRIC II 5-33, Kitahama 4-chome, Chuo	NDUSTRIES, LTD., -kn,	
tereinafter called assignor(s), have invented certain improvements in  PPTICAL FIBER LINE, MODULE, AND METHOD FOR MANUFACTURING OPTICAL FIBER LIN  and executed an application for Letters Patent of the United States of America therefor on even date herewith ur therwise indicated helow;  filed on , Serial No.  Whereas  SUMITOMO ELECTRIC INDUSTRIES, LTD.  5-33, Kitahama 4-chome, Chuc-ku, Osaka-shi, Osaka 541-0041 Japan  assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United  atents to be obtained therefor;  NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of  ereby acknowledged, JWE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, as  ansifer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and intere  atents and Trademarks of the United States to issue all Letters Patent for the Unite  thich may be granted thereon, and all reissues thereof, and I/WE hereby authorize and request the Commission  atents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successors  gins, in accordance with the terms of this Assignment;  AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communications, and reissue applications, make all rightful ouths and generally do everything possible to aid assigns, in accoessors and assigns, seacute all divisional,  nutinuation, and reissue applications, make all rightful ouths and generally do everything possible to aid assigns.  Line event that the patent application filing date or serial number is not known at the time this Assignment  accessors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it is  adderstood that any expense incident to the execution of such papers shall be borne by the assignee, its successor  signs.  In the event that the patent application	3) Yoshiaki TAMURA	5-33, Kitahama 4-chome, Chuo	ku,	
and executed an application for Letters Patent of the United States of America therefor on even date herewith undifference indicated below:  filed on	1) Takemi HASEGAWA	5-33, Kitahama 4-chome, Chuo-	-ku,	
whereas SUMITOMO ELECTRIC INDUSTRIES, LTD. 5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0041 Japan assignee), desires to acquire the entire right, title and interest in the application and invention, and to any Unitedatents to be obtained therefor; NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of tereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, as ransfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in sinvention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United has be granted thereon, and all ressues thereof; and I/WE hereby authorize and request the Commissione fatents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successor ssigns, in accordance with the terms of this Assignment; AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communic 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 necessare esirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, ontinuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee accessors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it be understood that any expense incident to the execution of such papers shall be borne by the assignee, its successor and estings.  In the event that the patent application filing date or serial number is not known at the time this Assignment excuted, I/WE hereby grant permission to the attorneys of record in the patent application to fill in the filing date and number above, and t	tereinafter called assignor(s), have DPTICAL FIBER LINE, MODU	invented certain improvement LE, AND METHOD FOR M	s in IANUFACTURING OPTICAL FIB	ER LINE
Whereas SUMITOMO ELECTRIC INDUSTRIES, LTD. 5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0041 Japan assignee), desires to acquire the entire right, title and interest in the application and invention, and to any Uniter tent to be obtained therefor; NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of tereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, as ransfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and intereshis invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the Units which may be granted thereon, and all reissues thereof, and I/WE hereby authorize and request the Commission attents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successor assigns, in accordance with the terms of this Assignment;  AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, community stages, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal receding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessare estrable to perfect the title to this invention in said assignse, its successors and assigns, execute all divisional, ontinuation, and reissue applications, make all rightful ouths and generally do everything possible to aid assigns necessors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it be inderstood that any expense incident to the execution of such papers shall be borne by the assignee, its successor signs.  In the event that the patent application filing date or serial number is not known at the time this Assignment and number above, and to record this Assignment after such information is added.  INVENTORS  Masato SUZUKI  Masato SUZUKI	and executed an application for Let- otherwise indicated below:	ers Patent of the United State	s of America therefor on even date her	ewith unless
Whereas SUMITOMO ELECTRIC INDUSTRIES, LTD. 5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0041 Japan assignee), desires to acquire the entire right, title and interest in the application and invention, and to any United atents to be obtained therefor;  NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of ereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, as ransfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest is invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United high may be granted thereon, and all reissues thereof, and I/WE hereby authorize and request the Commission atents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successor signs, in accordance with the terms of this Assignment;  AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communited assignee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal receeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessal estrable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, notinuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assigne necessors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it be aderested that the patent application filing date or serial number is not known at the time this Assignment attention. If the event that the patent application filing date or serial number is not known at the time this Assignment at a many that the patent application to fill in the filing date rial number above, and to record this Assignment after such information is added.		٠,	Serial No.	; and
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5-33, Kitahama 4-chome, Chuo-ku, Osaka-shi, Osaka 541-0041 Japan ssignee), desires to acquire the entire right, title and interest in the application and invention, and to any United stents to be obtained therefor; NOW THEREFORE, be it known that, for good and valuable consideration from assignee, the receipt of preby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, as ansfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest is invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United Image of the Image of the United Image of the United Image of the Im	SUMITOMO ELECTRIC	INDUSTRIES, LTD		
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ssignee), desires to acquire the entire right, title and interest in the application and invention, and to any United atents to be obtained therefor;  NOW THERFORE, be it known that, for good and valuable consideration from assignee, the receipt of preby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, as ansfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interes is invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the Unithich may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissione stents and Trademarks of the United States to issue all Letters Patent for this invention to assignee, its successor signs, in accordance with the terms of this Assignment;  AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communitisginee, its successors and assigns, any facts known to ME/US respecting this invention and testify in any legal occeeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessare sirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, intinuation, and reissue applications, make all rightful ouths and generally do everything possible to aid assignee coessors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it be derstood that any expense incident to the execution of such papers shall be borne by the assignee, its successor signs.  In the event that the patent application filing date or serial number is not known at the time this Assignment ecuted, I/WE hereby grant permission to the attorneys of record in the patent application to fill in the filling date in number above, and to record this Assignment after such information is added.  INVENTORS  Masato SUZUKI  Masato SUZUKI				
NOW THEREPORE, be it known that, for good and valuable consideration from assignee, the receipt of preby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, as ansfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest is invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the Unith hich may be granted thereon, and all reissues thereof; and I/WE hereby authorize and request the Commissions at the analysis of the United States to issue all Letters Patent for this invention to assignee, its successor signs, in accordance with the terms of this Assignment;  AND, I/WE HEREBY further covenant and agree that I/WE will, without further consideration, communications, is successors and assigns, any facts known to ME/US respecting this invention and testify in any legal occeeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessar sirable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, intinuation, and reissue applications, make all rightful ouths and generally do everything possible to aid assigns eccessors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it be iderstood that any expense incident to the execution of such papers shall be borne by the assignee, its successor signs.  In the event that the patent application filing date or serial number is not known at the time this Assignment ecuted, I/WE hereby grant permission to the attorneys of record in the patent application to fill in the filing date fial number above, and to record this Assignment after such information is added.  INVENTORS  Masato SUZUKI  Masato SUZUKI			4	
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roceeding, sign all lawful papers when called upon to do so, execute and deliver all papers that may be necessary estrable to perfect the title to this invention in said assignee, its successors and assigns, execute all divisional, ontinuation, and reissue applications, make all rightful ouths and generally do everything possible to aid assigns accessors and assigns, to obtain and enforce proper patent protection for this invention in the United States, it is necessor and assigns, to obtain and enforce proper patent protection for this invention in the United States, it is necessor and assigns, to obtain and enforce proper patent protection for this invention in the United States, it is necessor and assigns, to obtain and enforce proper patent protection for this invention in the United States, it is necessor and assigns, to obtain and enforce proper patent papers shall be borne by the assignee, its successor signs.  In the event that the patent application filing date or serial number is not known at the time this Assignment recuted, I/WE hereby grant permission to the attorneys of record in the patent application to fill in the filing date rial number above, and to record this Assignment after such information is added.  INVENTORS  DATE SIGNED  Masato SUZUKI  Masato SUZUKI	ereby acknowledged, I/WE, as assignansfer, and set over unto the assignations in the assignation and this application, a which may be granted thereon, and atents and Trademarks of the Unite signs, in accordance with the term AND, I/WE HEREBY further	gnor(s), have sold, assigned, thee, its lawful successors and ind all divisions, and continuated all reissues thereof; and I/WE destates to issue all Letters Pass of this Assignment;	transferred, and set over, and do hereby assigns, MY/OUR entire right, title, an tions thereof, and all Letters Patent of thereby authorize and request the Compatent for this invention to assignee, its search, without further consideration, or	y sell, assign, and interest in and a the United States missioner of successors and
In the event that the patent application filing date or scrial number is not known at the time this Assignment ecuted, I/WE hereby grant permission to the attorneys of record in the patent application to fill in the filing dat rial number above, and to record this Assignment after such information is added.  INVENTORS  DATE SIGNED  Masato SUZUKI  Masato SUZUKI	oceeding, sign all lawful papers we sirable to perfect the title to this in antinuation, and reissue application accessors and assigns, to obtain and	hen called upon to do so, exect wention in said assignee, its so so, make all rightful oaths and lenforce proper patent protect	cute and deliver all papers that may be uccessors and assigns, execute all divis generally do everything possible to aid tion for this invention in the United Sta	necessary or sional, i assignee, its stes, it being
recuted, I/WE hereby grant permission to the attorneys of record in the patent application to fill in the filing date trial number above, and to record this Assignment after such information is added.  INVENTORS  DATE SIGNED  Su Zu L  Tamory 10, 202  ame:  Masato SUZUKI	ssigns.		The state of states at ma monther 119 3.	servopora anu.
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ame : Yoshinori YAMAMOTO		ori YAMAMOTO		

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. § 261)

Page 1 of 2

Yoshiaki TAMURA

3): Name:

4):					
Name:	Takemi HASEGAWA				

**REEL: 055161 FRAME: 0279** 

	ASSIC	NMENT	
Whereas, I/we,			
Name	<u>A</u>	<u>ddress</u>	
) Masato SUZUKI	c/o SUMITOMO ELEC 5-33, Kitaliama 4-cliom Osaka-shi, Osaka 541-0	The state of the s	
Yoshinori YAMAMOTO	c/o SUMITOMO ELEC	TRIC INDUSTRIES, LTD., c, Chuo-kii,	
) Yoshiaki TAMURA		TRIC INDUSTRIES, LTD., e, Chea-ku,	
) Takemi HASEGAWA		TRIC INDUSTRIES, LTD., e, Cluo-ku,	
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In the event that the pate xecuted, I/WE hereby grant p erial number above, and to re-	ermission to the attorneys of	serial number is not known at the t record in the patent application to ch information is added.	ime this Assignment is fill in the filing date and/or
	INVENTORS	D	ATE SIGNED
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lame :	Masato SUZUKI		
): York	in Jaarot	2 January	0,29,202/
lame:	Yoshinori YAMAMOTO		

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Name:

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January 29, 2021

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January 29 2021

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**PATENT** REEL: 055161 FRAME: 0281