507589715 11/09/2022

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Hiroki SATO	09/30/2022
Masayuki SATO	09/30/2022
Noboru ISHIHARA	10/04/2022
Shinji MURATA	09/30/2022

RECEIVING PARTY DATA

Name:	Nisshinbo Micro Devices Inc.		
Street Address:	3-10, Nihonbashi Yokoyama-cho, Chuo-ku		
City:	Tokyo		
State/Country:	Japan		
Postal Code:	103-8456		
Name:	Tokyo Institute Of Technology		
Street Address:	12-1, Ookayama 2-chome, Meguro-ku		
City:	Tokyo		
State/Country:	Japan		
Postal Code:	152-8550		
Name:	Alps Alpine Co., Ltd.		
Street Address:	1-7, Yukigaya-otsukamachi, Ota-ku		
City:	Tokyo		
State/Country:	Japan		
Postal Code:	145-8501		

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	17924250	

CORRESPONDENCE DATA

Fax Number: (703)836-2787

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:
 703-836-6400

 Email:
 email@oliff.com

PATENT REEL: 061708 FRAME: 0757

507589715

Correspondent Name: EE MING T. BAHK

Address Line 1: OLIFF PLC

Address Line 2: P.O. BOX 320850

Address Line 4: ALEXANDRIA, VIRGINIA 22320-4850

ATTORNEY DOCKET NUMBER:	221856	
NAME OF SUBMITTER:	KARLI M. COLLINS	
SIGNATURE:	/Karli M. Collins/	
DATE SIGNED:	11/09/2022	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

Total Attachments: 3

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> PATENT REEL: 061708 FRAME: 0758

U.S. ASSIGNMENT

inventor(s) (hereina	TION of the sum of One Dollar (\$1.00), a fter, "ASSIGNOR") by dress(es) of ASSIGNEE(S))	ind of other good and valuable con	sideration paid to the undersigned
NISSHINBO M	ICRO DEVICES INC.		
3-10, Nihonbasl	ni Yokoyama-cho, Chuo-ku, Tokyo	103-8456 Japan	
TOKYO INSTI	TUTE OF TECHNOLOGY		
12-1, Ookayama	ı 2-chome, Megaro-ku, Tokyo 152-		
ALPS ALPINE	CO, LTD.		
1-7, Yukigaya-o	tsukamachi, Ota-ku, Tokyo 145-85	01 Japan	
	NEE"), the receipt of which is hereby acknot and exclusive right, title and interest to the		hereby sells, assigns and transfers to
SENSOR INTE	RFACE CIRCUIT AND SENSOR	MODULE	
executed on even date (a) executed on	at Patent Application PCT/JP2021/0174 therewith or, if not so executed, was: November 9, 2022	64, and/or for which application for L	
(b) filed on Serial No.	17, 924,250	Assignee's attorney is hereby aw data, when known.	thorized to insert in flij the specified
and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)"). The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, texamination, or public use proceeding, and in any highlation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence.			
in witness wh	EREOF, the undersigned inventor(s) has (he	ve) affixed his/her/their signature(s).	
n Hiroki	SATO	Hiroki SATO	Sep30,2×22
.23	(Signature)	(Type Name)	(Date)
2) <u>Anamon</u>	2.	Masayuki SATO (Type Name)	Sop 30, 2022 (base)
86	(Signālurs)	Noboni ISHIHARA	" enable).
3)	(S(gnature)	(Type Name)	(Date)
4)	· · · · · · · · · · · · · · · · · · ·	Shinji MURATA	
	(Signature)	(Type Same)	(Unite)

U.S. ASSIGNMENT

IN CONSIDERATION of the sum of One Dollar (\$1.00), and of other good and valuable consideration paid to the undersigned inventor(s) (hereinafter, "ASSIGNOR") by (Insert Name(s) & Address(es) of ASSIGNEE(S)) NISSHINBO MICRO DEVICES INC. 3-10, Nihonbashi Yokoyama-cho, Chuo-ku, Tokyo 103-8456 Japan TOKYO INSTITUTE OF TECHNOLOGY 12-1, Ookayama 2-chome, Meguro-ku, Tokyo 152-8550 Japan ALPS ALPINE CO., LTD. 1-7, Yukigaya-otsukamachi, Ota-ku, Tokyo 145-8501 Japan (hereinafter, "ASSIGNEE"), the receipt of which is hereby acknowledged, the undersigned ASSIGNOR hereby sells, assigns and transfers to ASSIGNEE the entire and exclusive right, title and interest to the invention entitled (Title of Invention) SENSOR INTERFACE CIRCUIT AND SENSOR MODULE relating to International Patent Application PCT/JP2021/017464 and/or for which application for Letters Patent of the United States was executed on even date herewith or, if not so executed, was: (a) executed on (Insert date of execution of application, if not concurrent) November 9, 2022 (b) filed on Assignee's attorney is hereby authorized to insert in (b) the specified data, when known. Serial No. and to said application and all Letters Patent(s) of the United States granted on said application and any continuation, division, renewal, substitute, reissue or reexamination application based thereon, for the full term or terms for which the said Letters Patent(s) may be granted and including any extensions thereof (collectively, hereinafter, "said application(s) and Letters Patent(s)"). The ASSIGNOR agree(s), when requested by said ASSIGNEE and without charge to but at the expense of said ASSIGNEE, to do all acts which the ASSIGNEE may deem necessary, desirable or expedient, for securing, maintaining and enforcing protection for said invention, including in the preparation and prosecution of said application(s) and the issuance of said Letters Patent(s), in any interference, reissue, reexamination, or public use proceeding, and in any litigation or other legal proceeding which may arise or be declared in relation to same, such acts to include but not be limited to executing all papers, including separate assignments and declarations, taking all rightful oaths, providing sworn testimony, and obtaining and producing evidence. IN WITNESS WHEREOF, the undersigned inventor(s) has (have) affixed his/her/their signature(s). Hiroki SATO (Date) (Type Name) Masayuki SATO (Type Name) Noboru ISHIHARA (Type Name) Shinji MURATA (Type Name)

U.S. ASSIGNMENT

inventor(s) (hereina	TION of the sum of One Dollar (\$1.00 fter, "ASSIGNOR") by dress(es) of ASSIGNEE(S))), and of other good and valuable co	onsideration paid to the undersigned
NISSHINBO M	ICRO DEVICES INC.		
3-10, Nihonbasi	ni Yokoyama-cho, Chuo-ku, Tok	yo 103-8456 Japan	
TOKYO INSTI	TUTE OF TECHNOLOGY		
12-1, Ookayama	2-chome, Meguro-ku, Tokyo 15	52-8550 Japan	
ALPS ALPINE			
1-7. Yukigaya-c	otsukamachi, Ota-ku, Tokyo 145-	8501 Japan	
(hereinafter, "ASSIG	NEE"), the receipt of which is hereby act and exclusive right, title and interest to t	knowledged, the undersigned ASSIGNO	OR hereby sells, assigns and transfers to .
SENSOR INTE	RFACE CIRCUIT AND SENSO	R MODULE	
relating to Internation	al Patent Application PCT/JP2021/01	7464 and/or for which application for	r Letters Patent of the United States was
	herewith or, if not so executed, was:	and the second s	
(a) executed on	;	(Insert date of execution of applica	ation, if not concurrent)
	November 9, 2022		
(b) filed on		designas 's attornos is haraby	authorized to insert in (b) the specified
Serial No.	17,924,250	data, when known.	aumorized to insert in (b) the specified
substitute, reissue or r	n and all Letters Patent(s) of the United S eexamination application based thereon, fons thereof (collectively, hereinafter, "sai	for the full term or terms for which the sa	
which the ASSIGNEE including in the prepa reexamination, or pub acts to include but not	gree(s), when requested by said ASSIGN may deem necessary, desirable or exped ration and prosecution of said application lie use proceeding, and in any litigation or be limited to executing all papers, include obtaining and producing evidence.	lient, for securing, maintaining and enfo n(s) and the issuance of said Letters Pato r other legal proceeding which may arise	orcing protection for said invention, ent(s), in any interference, reissue, e or be declared in relation to same, such
IN WITNESS WH	EREOF, the undersigned inventor(s) has	(have) affixed his/her/their signature(s)	
1)		Hiroki SATO	
	(Signature)	(Type Name)	(Date)
2)	(6:	Masayuki SATO	(2)
	(Signature)	(Type Name)	(Date)
3)	(Signature)	Noboru ISHIHARA	/D-t-i
Ohr.	(Signature)	(Type Name)	(Date)
4) sount	3 MMXA/Q) (Signature)	Shinji MURATA (Type Name)	Sep. 30th, 2022
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RECORDED: 11/09/2022