506214324 08/20/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6261067

		NEW ASSIGNMEN	11			
NATURE OF CONVEY	ANCE:	ASSIGNMENT	ASSIGNMENT			
CONVEYING PARTY	DATA					
		Name		Execution Date		
AKIRA YASUDA				06/29/2020		
JUN-ICHI OKAMURA				06/24/2020		
HIROSHI IWAMURA				06/25/2020		
RECEIVING PARTY D	ΑΤΑ					
Name:	TRIGE	ICE SEMICONDUCTOR	, INC.			
Street Address:	2-5-15,	SOTOKANDA, CHIYOD	A-KU			
City:	ΤΟΚΥΟ					
State/Country:	JAPAN	JAPAN				
Postal Code:	101002	1010021				
				1		
Property Type	•	Number				
Application Number:		16920478				
CORRESPONDENCE	DATA					
Fax Number:		703)643-9789				
		,				
Correspondence will		the e-mail address firs		successful, it will be sent at via US Mail.		
Correspondence will	f provided	,				
Correspondence will using a fax number, i	f provided	<i>the e-mail address firs</i> ; <i>if that is unsuccessfu</i> 5712064847 patent@capitoliplaw.com	l, it will be ser			
Correspondence will using a fax number, i Phone: Email: Correspondent Name	f provided :	<i>the e-mail address firs</i> <i>; if that is unsuccessfu</i> 5712064847 patent@capitoliplaw.com CAPITOL IP LAW GROU	l, it will be ser			
Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1:	f providec :	<i>the e-mail address firs</i> <i>; if that is unsuccessfu</i> 5712064847 patent@capitoliplaw.com CAPITOL IP LAW GROU 1918 18TH ST., UNIT 4,	I, it will be ser IP PLLC NW			
Correspondence will using a fax number, i Phone: Email: Correspondent Name	f providec :	<i>the e-mail address firs</i> <i>; if that is unsuccessfu</i> 5712064847 patent@capitoliplaw.com CAPITOL IP LAW GROU	I, it will be ser IP PLLC NW			
Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1: Address Line 4:	f providec :	<i>the e-mail address firs</i> <i>; if that is unsuccessfu</i> 5712064847 patent@capitoliplaw.com CAPITOL IP LAW GROU 1918 18TH ST., UNIT 4,	I, it will be ser IP PLLC NW			
Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1: Address Line 4:	f provided : NUMBER:	<i>the e-mail address firs</i> <i>; if that is unsuccessfu</i> 5712064847 patent@capitoliplaw.com CAPITOL IP LAW GROU 1918 18TH ST., UNIT 4, WASHINGTON, D.C. 200	I, it will be ser IP PLLC NW 009			
Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET I NAME OF SUBMITTER	f provided : NUMBER:	the e-mail address firs if that is unsuccessfue of 12064847 batent@capitoliplaw.com CAPITOL IP LAW GROU 1918 18TH ST., UNIT 4, WASHINGTON, D.C. 200 PTH0001US	I, it will be ser			
Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET I NAME OF SUBMITTEF SIGNATURE:	f provided : NUMBER:	the e-mail address firs if that is unsuccessfue of 12064847 Datent@capitoliplaw.com CAPITOL IP LAW GROU 1918 18TH ST., UNIT 4, WASHINGTON, D.C. 200 PTH0001US BENJAMIN C. RO	I, it will be ser			
Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET I NAME OF SUBMITTEF SIGNATURE:	f provided : NUMBER:	the e-mail address firs if that is unsuccessfue 5712064847 batent@capitoliplaw.com CAPITOL IP LAW GROU 1918 18TH ST., UNIT 4, WASHINGTON, D.C. 200 PTH0001US BENJAMIN C. RO /benjamin c rotherr 08/20/2020	l, it will be ser			
Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1:	f provided : NUMBER:	the e-mail address firs if that is unsuccessfue 5712064847 batent@capitoliplaw.com CAPITOL IP LAW GROU 1918 18TH ST., UNIT 4, WASHINGTON, D.C. 200 PTH0001US BENJAMIN C. RO /benjamin c rotherr 08/20/2020	l, it will be ser	nt via US Mail.		
Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET I NAME OF SUBMITTER SIGNATURE: DATE SIGNED: Total Attachments: 6 source=PTH0001US_A	f provided	the e-mail address firs if that is unsuccessful 5712064847 batent@capitoliplaw.com CAPITOL IP LAW GROU 1918 18TH ST., UNIT 4, WASHINGTON, D.C. 200 PTH0001US BENJAMIN C. RO /benjamin c rotherr 08/20/2020 This document ser	l, it will be ser	nt via US Mail.		
Correspondence will using a fax number, i Phone: Email: Correspondent Name Address Line 1: Address Line 4: ATTORNEY DOCKET I NAME OF SUBMITTER SIGNATURE: DATE SIGNED: Total Attachments: 6	f provided : NUMBER: : ssignment ssignment	the e-mail address firs if that is unsuccessful 5712064847 patent@capitoliplaw.com CAPITOL IP LAW GROU 1918 18TH ST., UNIT 4, WASHINGTON, D.C. 200 PTH0001US BENJAMIN C. RO /benjamin c rotherr 08/20/2020 This document ser page1.tif page2.tif	l, it will be ser	nt via US Mail.		

source=PTH0001US_Assignment#page4.tif source=PTH0001US_Assignment#page5.tif source=PTH0001US_Assignment#page6.tif

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

As the below named Inventor and Assignor, I hereby declare that:

This declaration and assignment is directed to:

☑ The attached application, entitled SPEAKER DRIVING DEVICE having attorney docket number PTH0001US ("the Patent Application"), or
□ United States application or PCT international application number PCT/JP2018/000028 filed on January 4, 2018.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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.

Whereas, Assignors have invented certain new and useful processes, machines, articles of manufacture, composition of matter, and/or improvements thereof ("the Invention") disclosed in the Patent Application,

Whereas, by this Assignment, Assignors desire to convey all rights, titles, and interests in and to the Patent Application and any Letters Patent(s) that may be granted therefor to:

TRIGENCE SEMICONDUCTOR, INC.

2-5-15, Sotokanda, Chiyoda-ku, Tokyo 1010021 Japan

2

à,

TRIGENCE SEMICONDUCTOR, INC. herein further referred to as "Assignee",

Now, for valuable consideration by Assignee to Assignors, the receipt of which is hereby acknowledged by Assignors, and for other good and valuable consideration, Assignee and Assignors hereby agree as follows:

Assignors hereby convey, assign, sell and transfer to Assignee all right, title and interest in and to the Invention disclosed in the Patent Application and in and to any Letters Patent(s) of United States, any continuation, division, renewal, conversion or substitute thereof, and hereby grant to Assignee the right to apply in its own name for Letters Patent(s) or Inventor's certificates and related rights heretofore or hereafter filed for the invention in any and all countries, including (without limitation) all rights to claim priority based thereon, all Letters Patent(s) granted thereon, and all reissues, extensions and renewals thereof;

1

32

Assignors hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment;

Assignors further covenant that Assignors will, upon Assignee's request, provide Assignee with all pertinent facts and documents relating to the Invention, the Patent Application, and any Letters Patent(s) granted thereon, as may be known and accessible to Assignors, and Assignors will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to Assignee or Assignee's legal representative any and all papers, instruments or affidavits required to apply for, protect, obtain, maintain, issue, defend and enforce the Patent Application, whether in the United States or any and all foreign countries and any Letters Patent(s) granted thereon and/or for obtaining any reissue or reissues of any Letters Patent(s) which may be granted from the Patent Application, and perform such further acts which may be necessary or desirable to carry out the intent of this agreement as Assignee may require and prepare at Assignee's expense.

IN WITNESS WHEREOF, Inventor and Assignor has hereunto set hand and seal.

Name of Inventor and Assignor:	YASUDA, Akira
Signature:	Ayanda
Date :	Jun, 29, 2020
Name of Inventor and Assignor:	OKAMURA, Jun-ichi
Signature:	
Date :	2 2 2 20000000 00
Name of Inventor and Assignor:	IWAMURA, Hiroshi
Signature:	
Date :	° °

PATENT REEL: 053557 FRAME: 0323

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

As the below named Inventor and Assignor, I hereby declare that:

This declaration and assignment is directed to:

☑ The attached application, entitled SPEAKER DRIVING DEVICE having attorney docket number PTH0001US ("the Patent Application"), or
□ United States application or PCT international application number PCT/IP2018/000028 filed on January 4, 2018...

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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.

Whereas, Assignors have invented certain new and useful processes, machines, articles of manufacture, composition of matter, and/or improvements thereof ("the Invention") disclosed in the Patent Application,

Whereas, by this Assignment, Assignors desire to convey all rights, titles, and interests in and to the Patent Application and any Letters Patent(s) that may be granted therefor to:

TRIGENCE SEMICONDUCTOR, INC.

2-5-15, Sotokanda, Chiyoda-ku, Tokyo 1010021 Japan

120

TRIGENCE SEMICONDUCTOR, INC. herein further referred to as "Assignee",

Now, for valuable consideration by Assignee to Assignors, the receipt of which is hereby acknowledged by Assignors, and for other good and valuable consideration, Assignee and Assignors hereby agree as follows:

Assignors hereby convey, assign, sell and transfer to Assignee all right, title and interest in and to the Invention disclosed in the Patent Application and in and to any Letters Patent(s) of United States, any continuation, division, renewal, conversion or substitute thereof, and hereby grant to Assignee the right to apply in its own name for Letters Patent(s) or Inventor's certificates and related rights heretofore or hereafter filed for the invention in any and all countries, including (without limitation) all rights to claim priority based thereon, all Letters Patent(s) granted thereon, and all reissues, extensions and renewals thereof;

PATENT REEL: 053557 FRAME: 0324

 $\mathbf{\hat{s}}$

PAGE 2

Assignors hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment;

Assignors further covenant that Assignors will, upon Assignee's request, provide Assignee with all pertinent facts and documents relating to the Invention, the Patent Application, and any Letters Patent(s) granted thereon, as may be known and accessible to Assignors, and Assignors will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to Assignee or Assignee's legal representative any and all papers, instruments or affidavits required to apply for, protect, obtain, maintain, issue, defend and enforce the Patent Application, whether in the United States or any and all foreign countries and any Letters Patent(s) granted thereon and/or for obtaining any reissue or reissues of any Letters Patent(s) which may be granted from the Patent Application, and perform such further acts which may be necessary or desirable to carry out the intent of this agreement as Assignee may require and prepare at Assignee's expense.

IN WITNESS WHEREOF, Inventor and Assignor has hereunto set hand and seal.

Name of Inventor and Assignor:	YASUDA, Akira
Signature:	55
Date :	
Name of Inventor and Assignor:	OKAMURA, Jun-jehi
Signature:	<u>f ann</u>
Date :	1 2020 June 24
Name of Inventor and Assignor:	IWAMURA, Hiroshi
Signature:	
Date :	

COMBINED DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT

As the below named Inventor and Assignor, I hereby declare that:

This declaration and assignment is directed to:

M The attached application, entitled SPEAKER DRIVING DEVICE having attorney docket number PTH0001US ("the Patent Application"), or □ United States application or PCT international application number PCT/JP2018/000028 filed on January 4, 2018.

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

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.

Whereas, Assignors have invented certain new and useful processes, machines, articles of manufacture, composition of matter, and/or improvements thereof ("the Invention") disclosed in the Patent Application,

Whereas, by this Assignment, Assignors desire to convey all rights, titles, and interests in and to the Patent Application and any Letters Patent(s) that may be granted therefor to:

TRIGENCE SEMICONDUCTOR, INC.

2-5-15, Sotokanda, Chiyoda-ku, Tokyo 1010021 Japan

TRIGENCE SEMICONDUCTOR, INC. herein further referred to as "Assignee",

Now, for valuable consideration by Assignee to Assignors, the receipt of which is hereby acknowledged by Assignors, and for other good and valuable consideration, Assignee and Assignors hereby agree as follows:

Assignors hereby convey, assign, sell and transfer to Assignee all right, title and interest in and to the Invention disclosed in the Patent Application and in and to any Letters Patent(s) of United States, any continuation, division, renewal, conversion or substitute thereof, and hereby grant to Assignee the right to apply in its own name for Letters Patent(s) or Inventor's certificates and related rights heretofore or hereafter filed for the invention in any and all countries, including (without limitation) all rights to claim priority based thereon, all Letters Patent(s) granted thereon, and all reissues, extensions and renewals thereof;

Assignors hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this Assignment;

Assignors further covenant that Assignors will, upon Assignee's request, provide Assignee with all pertinent facts and documents relating to the Invention, the Patent Application, and any Letters Patent(s) granted thereon, as may be known and accessible to Assignors, and Assignors will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to Assignee or Assignee's legal representative any and all papers, instruments or affidavits required to apply for, protect, obtain, maintain, issue, defend and enforce the Patent Application, whether in the United States or any and all foreign countries and any Letters Patent(s) granted thereon and/or for obtaining any reissue or reissues of any Letters Patent(s) which may be granted from the Patent Application, and perform such further acts which may be necessary or desirable to carry out the intent of this agreement as Assignee may require and prepare at Assignee's expense.

IN WITNESS WHEREOF, Inventor and Assignor has hereunto set hand and seal.

Name of Inventor and Assignor:	YASUDA, Akira
Signature:	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Date :	
Name of Inventor and Assignor:	OKAMURA, Jun-ichi
Signature:	
Date :	

†					
2 Car Mil	e 22 7111	<i>70.5X :</i>	 	 	

Date :

Signature:

Name of Inventor and Assignor:

PATENT REEL: 053557 FRAME: 0327

RECORDED: 08/20/2020