506187023 08/04/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6233763

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
MOTOJI TSUDA	07/14/2020
TAKAYUKI NAKAMURA	07/15/2020
DAEROK OH	07/15/2020

RECEIVING PARTY DATA

Name:	MURATA MANUFACTURING CO., LTD.
Street Address:	10-1, HIGASHIKOTARI 1-CHOME, NAGAOKAKYO-SHI
City:	куото
State/Country:	JAPAN
Postal Code:	617-8555

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16984512

CORRESPONDENCE DATA

Fax Number: (216)579-6073

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: 216-579-1700

Email: cgilmore@pearne.com PEARNE & GORDON LLP **Correspondent Name:** Address Line 1: 1801 EAST 9TH STREET

Address Line 2: **SUITE 1200**

Address Line 4: **CLEVELAND, OHIO 44114-3108**

ATTORNEY DOCKET NUMBER:	MURATA-62820	
NAME OF SUBMITTER:	AARON A. FISHMAN	
SIGNATURE:	/Aaron A. Fishman/	
DATE SIGNED:	08/04/2020	

Total Attachments: 9

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PATENT REEL: 053395 FRAME: 0854 506187023

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PATENT REEL: 053395 FRAME: 0855

DECLARATION AND ASSIGNMENT FOR US UTILITY OR DESIGN PATENT APPLICATION

Attorney Docket No.: MURATA-62820

Murata Ref. No.: M20-02389

As a below-named inventor, I hereby declare that:

this declaration is directed to the application entitled:

HIGH-FREQUENCY FRONT END MODULE AND COMMUNICATION DEVICE

(check only one item below)

[] attached hereto,

OR

[X] filed on (YYYY/MM/DD) <u>2019/02/05</u> as United States Application Number or PCT International Application Number <u>PCT/JP2019/003988</u>.

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

I believe I am the original inventor or an original joint inventor of a claimed invention in the above-identified 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, new and useful improvements have been made by the undersigned as described in the above-identified application.

WHEREAS, Murata Manufacturing Co., Ltd. having a place of business at 10-1, Higashikotari 1-chome, Nagaokakyo-shi, Kyoto, 617-8555, Japan, hereafter referred to as "assignee", is desirous of acquiring all right, title, and interest throughout the world in, to, and under said improvements and inventions and patent rights therefor.

NOW, THEREFORE, be it known that, for valuable consideration, the receipt and sufficiency of which are hereby acknowledged, all right, title, and interest, in the United States and throughout the world, in, to and under said improvements and inventions and all patents, patent applications, patent rights, and inventors' certificates thereof, therefor, and therein, including without limitation said application for patent in the United States, all divisions and continuations thereof, all patents which may be granted thereon, all reissues and extensions thereof, all right to sue for past infringement thereunder, all patents which may be granted for said improvements and inventions by states or nations other than the United States, or by other authority, entity, or organization, and all applications therefor, have been and are hereby sold,

assigned, transferred, and delivered unto assignee, its successors and assigns by the undersigned; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the Director of the United States Patent and Trademark Office is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

IN WITNESS WHEREOF, this declaration and assignment has been executed below by the undersigned:

Legal Name of Invento	or: Motoji TSUDA
Signature of Inventor:	/Motoji Tsuda/
Date: July 14, 2020	·
<u> </u>	

[X] Signatures of additional inventors on attached sheet(s)

Notice to Inventor(s): A person may not execute this declaration unless that person has reviewed and understands the contents of the above-identified application, including the claims.

Notice to Inventor(s): A person may not execute this declaration unless that person is aware of the duty to disclose to the US Patent and Trademark Office all information known to the person to be material to patentability as defined in 37 CFR 1.56.

Additional Inventor(s) Legal Name of Inventor: Takayuki NAKAMURA Signature of Inventor: ______ Date: _____ Legal Name of Inventor: Daerok OH

Signature of Inventor:

Date:

DECLARATION AND ASSIGNMENT FOR US UTILITY OR DESIGN PATENT APPLICATION

Attorney Docket No.: MURATA-62820

Murata Ref. No.: M20-02389

As a below-named inventor, I hereby declare that:

this declaration is directed to the application entitled:

HIGH-FREQUENCY FRONT END MODULE AND COMMUNICATION DEVICE

[] attached hereto,

OR

[X] filed on (YYYY/MM/DD) <u>2019/02/05</u> as United States Application Number or PCT International Application Number PCT/JP2019/003988.

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assigned, transferred, and delivered unto assignee, its successors and assigns by the undersigned; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the Director of the United States Patent and Trademark Office is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

IN WITNESS WHEREOF, this declaration and assignment has been executed below by the undersigned:

Legal Name of Inventor: <u>Motoji 7</u>	<u> </u>
Signature of Inventor:	
Date:	

[X] Signatures of additional inventors on attached sheet(s)

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Legal Name of Inventor: <u>Takayuki NAKAMURA</u> Signature of Inventor: <u>/Takayuki Nakamura/</u> Date: <u>July 15, 2020</u> Legal Name of Inventor: <u>Daerok OH</u> Signature of Inventor: ______

Additional Inventor(s)

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Attorney Docket No.: MURATA-62820

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assigned, transferred, and delivered unto assignee, its successors and assigns by the undersigned; and it is covenanted and agreed by the undersigned, and for executors, administrators, and legal representatives of the undersigned, that at assignee's request any and all applications, affidavits, assignments, and other instruments will be made, executed, and delivered as may be necessary, or desirable to secure for or vest in assignee, its successors or assigns, any improvement, inventions, right, title, interest, application, patent, patent right or other right or property covered by this assignment, and the Director of the United States Patent and Trademark Office is hereby requested and authorized to issue any and all United States patents granted on any of said applications to assignee as owner of the entire right, title, and interest in, to, and under the same, and appropriately empowered officials of foreign countries are hereby authorized to issue any letters patent granted on any of said applications to assignee as owner of the entire right, title and interest in, to, and under the same.

IN WITNESS WHEREOF, this declaration and assignment has been executed below by the undersigned:

Legal Name of Inventor: Motoji TS	UDA
Signature of Inventor:	
Date:	

[X] Signatures of additional inventors on attached sheet(s)

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claims.

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Additional inventoris)	
Legal Name of Inventor: <u>Takayuki NAKAMURA</u>	: : :ההייההההההה
Signature of Inventor:	
Date:	
Legal Name of Inventor: <u>Daerok OH</u>	
Signature of Inventor: Doerok Oh.	
Date: 15th July 2010.	

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