505184890 11/09/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RAULI COLLIN	10/30/2018
KONSTA WJUGA	10/25/2018
LASSE AALTONEN	10/25/2018

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16300167

CORRESPONDENCE DATA

Fax Number: (703)720-7801

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: 703-720-7800

ipgeneraltyc@squirepb.com, jose.chang@squirepb.com Email:

SQUIRE PB (NVA/DC OFFICE) **Correspondent Name:** Address Line 1: 8000 TOWERS CRESCENT DRIVE

Address Line 2: 14TH FLOOR

Address Line 4: VIENNA, VIRGINIA 22182-6212

ATTORNEY DOCKET NUMBER:	059244.00176
NAME OF SUBMITTER:	DOUGLAS H. GOLDHUSH
SIGNATURE:	/Douglas H. Goldhush/
DATE SIGNED:	11/09/2018

Total Attachments: 2

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> **PATENT REEL: 047467 FRAME: 0080** 505184890

Docket No.	059244,00176

U.S. ASSIGNMENT

	U.S. ASSIGNMENT			
	For good and valuable conside ASSIGNOR) by	ration paid to the undersigned	inventor(s) (hereinafter	
Insert	MURATA MANUFACTURING CO., LTD	g s		
ASSIGNEE's Name(s)	10-1, Higashikotari 1-chome			
Address(es)]	Nagaokakyo-shi, Kyoto 617-8555, Japan			
	(hereinafter ASSIGNEE), the receipt and su ASSIGNOR hereby sells, assigns and trans interest to the invention entitled			
Title of [avention]	A SECONDARY SENSE LOOP WITH FO	RCE FEEDBACK CAPABILITY		
*If the assignment is being filed	for which application for Letters Patent of t otherwise indicated below:	he United States was executed on	even date herewith unless	
after the filing of the application, this section must be	*filed on	, Serial No.		
completed)	(Squire Patton Boggs (US) LLP is hereby authorized to insert the series code, serial number and/or filing date hereon, when known)			
	and all Letters Patent of the United States to division, renewal, substitute, reissue or ree same may be granted.	be obtained therefor on said application thereof for the full termination thereof for the full termination.	cation or any continuation, m or terms for which the	
	The ASSIGNOR agrees to execute all papers necessary in connection with application and any continuing, divisional, reissue or reexamination applications thereof and also to execute separate assignments in connection with such applications as the ASSIGNEE may deem necessary or expedient.			
	The ASSIGNOR agrees to execut litigation, or other legal proceeding whi continuation, division, reissue or reexamina and to cooperate with the ASSIGNEE in e proceeding with such interference, litigation	ch may be declared concerning tion thereof or Letters Patent or re- very way possible in obtaining an	this application or any issue patent issued thereon	
	IN WITNESS WHEREOF, the undersigned	inventor(s) has (have) affixed his/	her/their signature(s).	
[Signature(s)	And Com	Rauli COLLIN	/0/30/2019 /DATE:	
of Assignor(s)]	(SIGNATURE)	(TYPE NAME)	(DATE)	
		Konsta WJUGA		
	(SIGNATURE)	(TYPE NAME)	(DATE)	
	(SIGNATURE)	Lasse AALTONEN (TYPE NAME)	(DATE)	
	(SIGNATURE)	7.6 10 10 10 10 10 10 10 10 10 10 10 10 10	**************************************	
	(SIGNATURE)	(TYPE NAME)	(DATE)	
	(CIONATURE)	(EVAL VARALA	(DATE)	
	(SIGNATURE)	(TYPE NAME)	(EALTE)	

NO LEGALIZATION REQUIRED

PATENT REEL: 047467 FRAME: 0081

Docket No. 059244.00176

U.S. ASSIGNMENT

For good and valuable c ASSIGNOR) by	onsideration paid to the undersigned	I inventor(s) (hereinafter
MURATA MANUFACTURING CO 10-1, Higashikotari 1-chome Nagaokakyo-shi, Kyoto 617-8555, Ja		
	and sufficiency of which is hereby acknowld transfers to ASSIGNEE the entire and	
A SECONDARY SENSE LOOP WI	I'H FORCE FEEDBACK CAPABILITY	·
for which application for Letters Pate otherwise indicated below:	nt of the United States was executed on	even date herewith unless
*filed on	, Serial No.	
(Squire Patton Boggs (US)) and/or filing date hereon, when known	LLP is hereby authorized to insert the s	series code, serial number
	ates to be obtained therefor on said applic or reexamination thereof for the full ter	
continuing, divisional, reissue or re	secute all papers necessary in connection examination applications thereof and pplications as the ASSIGNEE may deem	also to execute separate
litigation, or other legal proceeding continuation, division, reissue or reext	execute all papers necessary in connecting which may be declared concerning amination thereof or Letters Patent or reing in every way possible in obtaining angation, or other legal proceeding.	this application or any issue patent issued thereon
IN WITNESS WHEREOF, the unders	igned inventor(s) has (have) affixed his/h	ner/their signature(s).
	Rauli COLLIN	
(SIGNATURE)	(TYPE NAME)	(DATE)

Konsta WJUGA

(TYPE NAME)

Lasse AALTONEN

(TYPE NAME)

(TYPE NAME)

(TYPE NAME)

NO LEGALIZATION REQUIRED

(SIGNATURE)

(SIGNATURE)

(SIGNATURE)

(SIGNATURE)

Salar Carrie

PATENT REEL: 047467 FRAME: 0082

ZS, Oct 2018

(DATE)

(DATE)

(DATE)

RECORDED: 11/09/2018

[Insert ASSIGNEE's Name(s) Address(es)]

[Title of Invention]

[*If the assignment is being filed after the filing of the application, this section must be completed]

[Signature(s) of Assignor(s)]