# PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
Norihisa ANDO	03/04/2019
Sunao MASUDA	03/25/2019
Masahiro MORI	03/07/2019
Kayou MATSUNAGA	03/04/2019
Kosuke YAZAWA	03/04/2019

## RECEIVING PARTY DATA

Name:	TDK Corporation	
Street Address:	2-5-1, Nihonbashi, Chuo-ku	
City:	Tokyo	
State/Country:	Japan	
Postal Code:	103-6128	

# **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16351060

# **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.

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ATTORNEY DOCKET NUMBER:	185776	
NAME OF SUBMITTER:	JAVIER E. TORRES	
SIGNATURE:	/JAVIER Torres/	
DATE SIGNED:	04/12/2019	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

**PATENT REEL: 048870 FRAME: 0176** 

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# **Total Attachments: 2**

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PATENT REEL: 048870 FRAME: 0177

# ASSIGNMENT (BEING FILED FOR DUAL PURPOSE UNDER 37 CFR 1.63(e)) For Application with Filing Date on or after September 16, 2012

## **ASSIGNMENT**

	Insert	(1)	Norihisa ANDO	(2)	Sunao MASUDA
(1-8)	Legal Name(s)	(3)	Masahiro MORI	(4)	Kayou MATSUNAGA
	of Inventor(s)	(5)	Kosuke YAZAWA	(6)	
(9)	Insert Name of	the unde		y of which are he	good and valuable consideration paid to each of ereby acknowledged, each undersigned agrees to
	Assignee Insert Address of				
(10)	Assignee	(10)	2-5-1, Nihonbashi, Chuo-ku, T	okyo 103-6128,	JAPAN
		the entir inventio continua	e right, title and interest for the Un n, and in all applications for paten	nited States of Ar t including any a reissue application	rs, successors, assigns and legal representatives, nerica as defined in 35 U.S.C. §100, in the nd all provisional, non-provisional, divisional, on(s), and all Letters Patent, extensions, reissues extension known as
(11)	Insert Identification such as Title, Case	(11)			
	Number, or Foreign				
	Application Number	(Attor	ney Docket No.	),	filed on even date herewith or as
(12)	Alternative	(12)	U.S. Application Number		
	Identification for				
	filed applications	filed			

- 1) Each undersigned agrees to execute all papers necessary in connection with any application and/or patent for the invention and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.
- 2) Each undersigned agrees to execute all papers necessary in connection with any interference or post-grant proceeding which may be declared concerning any application or patent for the invention and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference or post-grant proceeding.
- 3) Each undersigned agrees to execute all papers and documents and perform any act which may be necessary in connection with claims or provisions of the International Convention for Protection of Industrial Property or similar agreements.
- 4) Each undersigned agrees to perform all affirmative acts which may be necessary to obtain, maintain or confirm by reissue or reexamination a grant of a valid United States patent to the Assignee.
- 5) Each undersigned authorizes and requests the Commissioner of the U.S. Patent and Trademark Office to issue any and all patents resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he or she has full right to convey the entire interest herein assigned, and that he or she has not executed, and will not execute, any agreement(s) in conflict herewith, and agrees that this assignment is binding on Assignor and Assignor's heirs, successors, assigns and legal representatives.
- 6) Each undersigned hereby grants the firm of OLIFF PLC the power to insert on this assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

#### (13) Declaration

As an above named inventor, I hereby declare that:

I believe I am the original inventor or an original joint inventor of a claimed invention (or claimed design) in the above-identified application for which this declaration is being submitted.

The application was made or authorized to be made by me.

I have reviewed and understand the contents of the above-identified application, including the claims, and am aware of the duty to disclose to the Office all information known to me to be material to patentability as defined in 37 CFR §1.56.

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.

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	Mar. 4th , 2019	Inventor Signature	Norihisa Ando.	(SEAL)
Date	Mar. 25, 2019	Inventor Signature	Sunao Masuda Sunao MASUDA	(SEAL)
Date	Mar 7th, 2019	Inventor Signature	Masahiro Mori Masahiro MORI	_ (SEAL)
Date	Mar. 4, 2019	Inventor Signature	Kayou Matsunaga Kayou MATSUNAGA	_ (SEAL)
Date	Mar. 4. 2019	Inventor Signature	Kusuke YMZMWM Kosuke YAZAWA	_ (SEAL)
neither,	This assignment should preferably be signed then it should be signed before at least two with	pefore: (a) a Notary Public nesses who also sign here:	e if within the U.S.A. (b) a U.S. Consul if outside the	e U.S.A. If
Date		Witness		NACOTAL PROPERTY OF THE PROPER
Date		Witness		