505521935 06/12/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	

CONVEYING PARTY DATA

Name	Execution Date
Hiroki KATOH	05/27/2019
Yuiko HIROSE	05/27/2019
Masakazu HIROSE	05/27/2019
Mirai ISHIDA	05/31/2019

RECEIVING PARTY DATA

Name:	TDK CORPORATION	
Street Address: 2-5-1, NIHONBASHI		
Internal Address: CHUO-KU		
City: TOKYO		
State/Country: JAPAN		
Postal Code: 103-6128		

PROPERTY NUMBERS Total: 1

Property Type	Number		
Application Number:	16357864		

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	185884	
NAME OF SUBMITTER:	KIMBERLY SCOTT	
SIGNATURE:	/Kimberly C. Scott/ for James A. Oliff	
DATE SIGNED:	06/12/2019	
	This document serves as an Oath/Declaration (37 CFR 1.63).	

PATENT REEL: 049449 FRAME: 0246

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Total Attachments: 2

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PATENT REEL: 049449 FRAME: 0247

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)	Hiroki KATOH	(2)	Yuiko HIROSE
(1-8)	Legal Name(s)	(3)	Masakazu HIROSE	(4)	Mirai ISHIDA
	of Inventor(s)	(5)	11777	(6)	
		the unde		which are he	good and valuable consideration paid to each of reby acknowledged, each undersigned agrees to
(9)	Insert Name of Assignee	(9)	TDK Corporation		
(10)	Insert Address of Assignee	(10) 2-5-1, Nihonbashi, Chuo-ku, Tokyo 103-6128, JAPAN			
		(hereinafter designated as the Assignee) and Assignee's heirs, successors, assigns and legal representatives, the entire right, title and interest for the United States of America as defined in 35 U.S.C. §100, in the invention, and in all applications for patent including any and all provisional, non-provisional, divisional, continuation, international, substitute and reissue application(s), and all Letters Patent, extensions, reissues and reexamination certificates that may be granted on the invention known as			
(11) Insert Identification such as Title, Case		(11)	PIEZOELECTRIC COMPOSITIO	N AND PIE	ZOELECTRIC ELEMENT
	Number, or Foreign Application Number	(Attor	ney Docket No. 185884), f	iled on even date herewith or as
(12)	Alternative	(12)	U.S. Application Number 16/35	57,864	
	Identification for filed applications	filed	March 19, 2019		

- 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.

PATENT REEL: 049449 FRAME: 0248 In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s).

Date	27/05/2019	Inventor Signature	HIVOKI KATUK	(SEAL)
Date	27/05/2019	Inventor Signature	Yuiko Hirose Yuiko Hirose	_ (SEAL)
Date	27/25-/2019	Inventor Signature	Masakuzy Hirose Masakazu HIROSE	(SEAL)
Date	31/05/2019	Inventor Signature	Mirai Ishida	(SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. (b) a U.S. Consul if outside the U.S.A. If neither, then it should be signed before at least two witnesses who also sign here:

Date	 Witness	
Date	Witness	