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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.			
Name of conveying party(ies): Alp Sehirlioglu		Name and address of receiving party(ies)	
Additional name(s) of conveying party(ies) attached? 디 Yes ⊠ No		Case Western Reserve University Cleveland, Ohio	
3. Nature of conveyance;  ☐ Assignment ☐ Merger ☐ Security Agreement ☐ Change of Name ☐ Other:		Additional name(s) & address(es) attached? ロ Yes ⊠ No	
Execution Date_09/21/12			
4. Application number(s) or patent number(s):  If this document is being filed together with a new application, the execution date of the application is:			
A. Patent Application No.(s):		B. Patent No.(s):	
13/556,636			
Additional numbers attached? ☐ Yes ☒ No			
	I		
Name and address of party to whom correspondence concerning document should be mailed:		Total number of applications     and patents involved:	
Name: Hudak Shunk 8	& Farine Co. LPA	7. Total fee (37 CFR 3.41) \$ 40.00	
Internal Address: Daniel J. Hudak, Jr.		□ Enclosed	
Street Address: 2020 Front Street, Suite 307		⊠ Authorized to be charged to deposit account.	
City: Cuyahoga Falls State: OH ZIP: 44221		Deposit account number:	
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9. Statement and signature To the best of my know copy of the original do  Daniel J. Hudal Name of Perso	wledge and belief, the foregoing information i cument.  k. Jr.	s true and correct and any	attached copy is a true
	er of pages including cover sheet, attachments, an	- I documents: 3 Atty Dock	et: CWRU-Q

Mail documents to be recorded with required cover sheet information to: Commissioner of Patents & Trademarks, Box Assignments Washington, D.C. 20231

**PATENT** 

## **ASSIGNMENT**

WHEREAS, Alp Sehirlioglu; Ali Sair; Fred Dynys, of Cleveland, County of Cuyahoga, State of Ohio; have made new and useful improvements in HIGH TEMPERATURE PIEZOLECTRIC CERAMICS; for which application for Letters Patent of the United States has been filed on JULY 24, 2012 under Serial No. 13/556,636; and

WHEREAS, Case Western Reserve University, is a tax-exempt nonprofit organization duly organized and existing under the laws of the State of Ohio, having a place of business at Cleveland, County of Cuyahoga, State of Ohio;

WHEREAS, Case Western Reserve University, Alp Sehirlioglu, Ali Sair, and Fred Dynys have certain rights and responsibilities pursuant to the Case Western Reserve University Intellectual Property Policy; and

WHEREAS, the Case Western Reserve University Intellectual Property Policy provides that Case Western Reserve University owns the entire right, title and interest in and to the said improvements and all patents therefor to be obtained in the United States of America and countries foreign to the United States;

NOW THEREFORE, BE IT KNOWN that for valuable considerations to us paid, the receipt whereof is hereby acknowledged, we the said Alp Sehirlioglu, Ali Sair, and Fred Dynys do hereby assign unto the said Case Western Reserve University, its successors or assigns, the entire right; title and interest in and to the said improvements and any and all inventions pertaining thereto, said application Serial No. 13/556,636, for the United States patent, all patents granted therefor in the United States of America and elsewhere, and the right to apply for patents therefor in all countries foreign to the United States and to claim for such applications the priority of United States applications, and we hereby request the Commissioner of Patents of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents, to issue such patents to the said Case Western Reserve University, its successors or assigns; and we further agree to execute such other applications and other instruments and do all other acts as may be deemed necessary by the said Case Western Reserve University, its successors or assigns in order to fully secure, protect and preserve its

PATENT REEL: 029046 FRAME: 0866 rights to the said improvements and to obtain patents therefor in the United States of America and all countries foreign to the United States, all without further consideration but at the expense of the said Case Western Reserve University, its successors or assigns.

Signed at County of Cuyahoga and State of Ohio On this day of 99/24 2012.

Alp Sehiriloglu∤

PATENT REEL: 029046 FRAME: 0867

RECORDED: 09/24/2012