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To the Honorable Commissioner of Patents and Trademarks: Plea	To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.				
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):				
1. Morito AKIYAMA 5. Yoshihior UMEUCHI					
2. Naohiro UENO 6. Keiichiro JINUSHI	Name: NATIONAL INSTITUTE OF ADVANCED				
3. Hiroshi TATEYAMA	INDUSTRIAL SCIENCE AND TECHNOLOGY				
4. Yoshitaka SUNAGAWA	Internal Address:				
	Street Address: 1-3-1, Kasumigaseki, Chiyoda-ku,				
Additional name/s of conveying party/ies attached?					
3. Nature of conveyance:	City: Tokyo				
Assignment Merger	State/Country: JAPAN				
Security Assignment Change of Name	Zip: 100-8921				
Other					
Execution Date: 1-3) March 18, 2005; 4) March 24,	Additional name/s & address/es attached? Yes No				
2005; and 5-6) March 25, 2005.					
4. Application number(s) or patent number(s):					
If this document is being filed together with a new application, the execution	on date of the application is:				
A December 11 (1)	1				
A. Patent Application No(s).	B. Patent No(s).				
(1) 10/516,333					
(2)	(2)				
(3)	(3)				
Additional numbers at					
5. Name and address of party to whom correspondence	6. Total number of applications & patents involved:1				
concerning document should be mailed:	7 T (15 (27 CFP 2 41) (222) 4				
Nome: East D. D	7. Total fee (37 CFR 3.41) (8021) \$ 40.00				
Name: Frank P. Presta	Enclosed				
Internal Address:	Authorized to be charged to deposit account #14-1140				
michiai Addiess.	R The Commission of Land and Land				
Street Address: Nixon & Vanderhye P.C.	8. The Commissioner is hereby authorized to charge any				
1100 North Glebe Road	<u>deficiency</u> in the fee(s) filed, or asserted to be filed, or which				
8 th Floor	should have been filed herewith (or with any paper thereafter				
	filed in this application by this firm) to our Account No.				
City: Arlington State: VA Zip: 22201	14-1140.				
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9. Statements and signature.					
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy					
of the original document.					
no 1 h with					
Frank P. Presta Snaw V. Ma April 18, 2005					
Name of Person Signing Signa	ture Date				
Reg. No. 19,828					
Total number of pages including original cover sheet, attachments, and document: [4]					
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REEL: 016747 FRAME: 0420

			Case No. :	
•	ASSIGNI	MENT OF U.S. PATE	IT APPLICATION	
	Morito AKIYAMA			
	Naohiro UENO			
(Inventors)	Hiroshi TATEYA	MA .		
	considerations pai hereby does assig	d to each of the undersigne n, transfer and set over to	ollar (\$1.00) and other good and valuable ed, the undersigned agree(s) to assign, and	
(Assignee)		- -	DUSTRIAL SCIENCE AND TECHNOLOGY	
(Address)	a corporation of Tokyo, Japan 1-3-1, Kasumigaseki, Chiyoda-ku, Tokyo 100-8921 Japan			
(Title)	(hereinafter designated as the Assignee) the undersigned's entire right, title and interest for the United States, its territories, dependencies and possessions in the invention, and all applications for patent and any Letters Patent which may be granted therefore, known as PIEZOELECTRIC ELEMENT BASED ON SUPERHIGH-ORIENTED ALUMINUM			
			RING METHOD THEREOF	
	March (%, 200 November 30, 200 The undersigned a	d States of America or, if n عرض or has already filed ل الم	ed on even date herewith an application for out on even date, then has executed on J.S. application Serial No. 10/516,333, on of assignment of this invention to said	
The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to 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.				
The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a grant of a valid United States patent to the Assignee.				
any and all Le divisions or cand hereby cand	etters Patent of the longituding of the longituding application overnants that he ha	United States resulting fron ns thereof to the said Assig s (they have) full right to co	the Commissioner of Patents to issue n said application or any division or nee, as Assignee of the entire interest, onvey the entire interest herein assigned, te, any agreement in conflict herewith.	
The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.				
In wit signature(s).	ness whereof, exec	uted by the undersigned or	the date(s) opposite the undersigned	
Date <u>Mar</u>	ch 18 2015	Signature of inventor	Morito Akijama	
		Signature of inventor	hauf lum	
Date <u>Ma</u>	urch 18,2005	Signature of inventor	Hiroshi Tateyama	
Date		Signature of inventor		
Date		Signature of inventor		
Witnessed by	r:		Date	
Witnessed by	: :		Date	

PATENT 264637

REEL: 016747 FRAME: 0421

,	•		Case I	No. :	
	ASSIGN	MENT OF U.S. PATE	NT APPLICATION		
	Yoshitaka SUNAGAWA				
	Yoshihiro UMEL				
(inventors)					
			d-11 (04 00)		
			dollar (\$1.00) and other good ar ned, the undersigned agree(s) t		
		gn, transfer and set over to		o assign, and	
(Assignee)	NATIONAL INST	TTUTE OF ADVANCED IN	IDUSTRIAL SCIENCE AND TE	CHNOLOGY	
	a corporation of Tokyo, Japan				
(Address)		seki, Chiyoda-ku, Tokyo 10	00-8921 Japan e undersigned's entire right, title	and interest for	
			ies and possessions in the inve		
			nt which may be granted theref		
(Title)			N SUPERHIGH-ORIENTED A	LUMINUM	
			IRING METHOD THEREOF		
			ited on even date herewith an a		
			not on even date, then has exe U.S. application Serial No. 10		
	November 30, 20	04.	0.0. application, "Cona. 140. <u>11</u>	7010,000 , 0	
	The undersigned	acknowledges an obligation	on of assignment of this invention	on to said	
	assignee at the ti	me the invention was mad	e .		
The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to 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. The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a					
grant of a valid United States patent to the Assignee.					
The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.					
The undersigned hereby grant(s) the firm of NIXON & VANDERHYE P.C. the power to insert on this assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent Office for recordation of this document. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention.					
ln wi signature(s).	tness whereof, exec	cuted by the undersigned o	on the date(s) opposite the unde	ersigned	
Date Man	ch 24, 2005	Signature of inventor	Jostiteka Sun	ragoona_	
Date Mar	sh 15, 2005	Signature of inventor	Yoshihiro Ume	nohi	
Date		Signature of inventor			
Date		Signature of inventor			
Date		Signature of inventor			
Witnessed by	<i>r</i> :		Date		
Witnessed by	<i>r</i> :		Date		

	•		Case No. :		
	ASSIGNMENT OF U.S. PATENT APPLICATION				
	Keiichiro JINUSHI				
(inventors)					
	In consid	leration of the sum of one	dollar (\$1.00) and other good and valuable		
	considerations pa	aid to each of the undersi	gned, the undersigned agree(s) to assign, and		
(Assignee)		ign, transfer and set over	to NDUSTRIAL SCIENCE AND TECHNOLOGY		
(Assignee)	a corporation of		NADOS I NIAE SCIENCE AND TECHNOLOGI		
(Address)	1-3-1, Kasumiga	seki, Chiyoda-ku, Tokyo 1			
			he undersigned's entire right, title and interest for		
			cies and possessions in the invention, and all ent which may be granted therefore, known as		
(Title)			ON SUPERHIGH-ORIENTED ALUMINUM		
			URING METHOD THEREOF		
	for which the und	ersigned has (have) exec	cuted on even date herewith an application for		
			f not on even date, then has executed on d U.S. application Serial No. 10/516,333, on		
	November 30, 20		d 0.0. application General No. 10/010,000, 011		
			ion of assignment of this invention to said		
	assignee at the ti	me the invention was ma	de.		
The undersigned agree(s) to execute all papers and documents necessary in connection with the application or any interference which may be declared and any continuing or divisional applications thereof and also to execute separate assignments in connection with such applications as the Assignee may deem necessary or expedient and further to 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. The undersigned agree(s) to perform all affirmative acts which may be necessary to obtain a					
grant of a vali	d United States pa	tent to the Assignee.	•		
The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patent of the United States resulting from said application or any division or divisions or continuing applications thereof to the said Assignee, as Assignee of the entire interest, and hereby covenants that he has (they have) full right to convey the entire interest herein assigned, and that he has (they have) not executed and will not execute, any agreement in conflict herewith.					
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signature(s).	iess whereor, exec	cuted by the undersigned	on the date(s) opposite the undersigned		
Date March	1 25, 2005	Signature of inventor	Keiichero Jinushi		
Date		Signature of inventor			
Date		Signature of inventor			
Date	·	Signature of inventor			
Witnessed by:			Date		
Witnessed by:			Date		

RECORDED: 04/18/2005

PATENT ²⁶⁴⁶³⁷
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