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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

Alexandria, VA 22313-1450 103335646 Attorney Docket No. 130025 Please record the attached original document or copy thereof. Name of conveying parties: Name and address of receiving party: Tatsuhiko HATANO NGK INSULATORS, LTD. Takeshi SAKUMA 2-56, SUDA-CHO, MIZUHO-KU NAGOYA-CITY, AICHI-PREF. 467-8530 JAPAN Additional name(s) of conveying party(ies) attached? ☐ Yes 🖾 No Nature of conveyance: Additional name(s) & address(es) attached? A. ☐Yes 🖾 No Assignment Merger 11/579539 Security Agreement ☐ Change of Name Other _ Execution Date: All - September 27, 2006 B. This document is being filed together with a new application. \boxtimes Patent Application No.(s)___ Patent No.(s)_ Title of Application: HIGH VOLTAGE PULSE GENERATING CIRCUIT Name and address of party to whom correspondence Total number of applications and patents involved: $\underline{1}$ concerning document should be mailed: Name: James A. Oliff Total fee (37 CFR 3.41).....\$ 40.00 00000052 11579539 11/09/2006 HVUONG1 Enclosed (Check No. 185940) Address: & BERRIDGE, Credit any overpayment or charge any underpayment to P.O. Box 19928 deposit account number 15-0461. Alexandria, VA 22320 Statement 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, Date: November 3, 2006 nes A. Oliff Registration No. 27,075 Jøhn S. Kern Registration No. 42,719 Total number of pages including cover sheet, attachments, and document: 2

PATENT REEL: 018529 FRAME: 0402

		ASSIGNME	NT	
	(1)	Tatsuhiko HATANO	(5)	
Insert Name(s) of Inventor(s)	(2)	Takeshi SAKUMA	(6)	
	(3)		(7)	
	(4)		(8)	
		In consideration of the sun	n of one dollar (\$1.00) and other	good and valuable consideration

(1-8)

	Name(s) of Inventor(s)	(3) (7)
		(4)(8)
		In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, each undersigned agrees to assign, and hereby does assign, transfer and set over to
(9)	Insert Name of	(9) NGK INSULATORS, LTD.
(10)	Assignee Insert Address of Assignee	(9) NGK INSULATORS, LTD. 2-56, Suda-cho, Mizuho-ku, Nagoya-city, Aichi-pref. (10) 467-8530, 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, 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	(11) HIGH VOLTAGE PULSE GENERATING CIRCUIT
	Identification such as Title, Case	
	Number, or Foreign Application Number	(Attorney Docket No.
		for which the undersigned has (have) executed an application for patent in the United States of America on even date herewith or
(12)	Insert Date of Signing of	(12) on September 27, 2006
	Application	on September 21, 2005
(13)	Alternative	(13) U.S. application Serial

filed filed applications 1) Each undersigned agrees to execute all papers necessary in connection with any application and any continuing, divisional or reissue applications for the invention, and any patent(s) issuing thereon, and also to execute separate assignments in connection with such applications and patents as the Assignee may deem necessary.

November 3, 2006

Number

Identification for

2) Each undersigned agrees to execute all papers necessary in connection with any interference which may be declared concerning any application or continuation or division thereof, or any patent or reissue application based thereon, for the invention, and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.

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 Letters Patents of the United States resulting from said application(s) to the said Assignee, as Assignee of the entire interest, and covenants that he has full right to convey the entire interest herein assigned, and that he has not executed, and will not execute, any agreements in conflict herewith, and agrees that this assignment is binding on him and his heirs, successors, assigns and legal representatives.

6) Each undersigned hereby grants the firm of OLIFF & BERRIDGE, 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

In witness whereof, executed by the undersigned on the date(s) opposite the undersigned name(s) Inventor Signature Inventor Signature Date Inventor Signature (SEAL) Date (SEAL) Inventor Signature Date (SEAL) Inventor Signature Date Inventor Signature (SEAL) Date Inventor Signature (SEAL) Date Inventor Signature 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

> PATENT REEL: 018529 FRAME: 0403

ASSIGNMENT

(1-8)		(1)1	atsuniko na rano	⁽³⁾	
	Insert	(2) <u>T</u>	akeshi SAKUMA	(6)	
	Name(s) of Inventor(s)	(3)			
		(4)			
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(9) (10)	Insert Name of Assignee Insert Address of Assignee	2.	IGK INSULATORS, LTD. -56, Suda-cho, Mizuho-ku, 1 67-8530, JAPAN	Vagoya-city, Aichi-pref.	
	-	the entire invention, divisional	right, title and interest for the and in all applications for p continuation, substitute, an	e) and Assignee's heirs, successors, assigns and legal repre e United States of America as defined in 35 U.S.C. §1 atent including any and all provisional, non-provisional d reissue application(s), and all Letters Patent, extensi- s that may be granted on the invention known as	00, in the
(11)	Insert Identification such as Title, Case	(11)	HIGH VOLTAGE PULSE	GENERATING CIRCUIT	
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