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RECU	O1852473 LOKM COVER SHEET ENTS ONLY
To the Honorable Commissioner of Patents and Trademarks. P	Please record the attached original documents on hand thereof.
1. Name of conveying party(ies) 19/15/11	2. Name and address of receiving party(ies):
Tomohiko SHIBATA, Keiichiro ASAI, Teruyo NAGAI and Mitsuhiro TANAKA Additional name(s) of conveying parties attached No	Name: NGK Insulators, Ltd. Address: 2-56, Suda-Cho, Mizuho-Ku Nagoya, Aichi-Prefecture 467-8530
3. Nature of Conveyance:	Japan
✓ Assignment Merger Security Agreement Change of Name Other Execution Date May 31, 2001	Additional name(s) attached? No
4. Application number(s) or patent number(s)	
••	LICATION, the execution date of this application is
A. Patent Application No.(s)	B. Patent No.(s)
09/854,925 filed May 14, 2001	
•	nbers attached? ✓ No
5. Name and address of party to whom correspondence concerning this document should be mailed:	6. Total number of application and patents involved: 1
Address: BURR & BROWN P.O. Box 7068 Syracuse, NY 13261-7068 Telephone: (315) 233-8300 Facsimile: (315) 233-8320	 7. Total fee (37 CFR 3.4) \$40.00 ✓ Enclosed ✓ Authorized to charge any deficiency or credit any over payment to Deposit Account No. 50-1446. 8. Charge Deposit account
DO NOT	USE THIS SPACE
original document. Kevin C. Brown Reg. No. 32,402 OMB NO 0651-0011(EXP. 4/94)	rmation is true and correct and any attached copy is a true copy of the September 11, 2001 Date Total Number of Pages Comprising Cover Sheet 4
	ETACH THIS PORTION
BOX	ion to: FPATENTS AND TRADEMARKS ASSIGNMENTS INGTON D.C. 20231

ASSI	GNM	IENT
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Tomohiko SHIBATA (1-8) Insert Name(s) of Inventor(s) (1)(5)Keiichiro ASAI (2)(6)Teruyo NAGAI (3) (7)Mitsuhiro TANAKA (8)(4) In consideration of the sum of dollar (\$1.00) and other good and valuable consideration paid to each of the undersigned, the undersigned agree(s). to assign, and hereby does assign, transfer and set over to NGK INSULATORS, LTD. (9) Insert name of Assignee (9)2-56, Suda-Cho, Mizuho-Ku, Nagoya City, (10) Insert address of Assignee (10)Aichi Pref., Japan (hereinafter designated as the Assignee) the 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 therefor, known as A PHOTONIC DEVICE, A SUBSTRATE FOR FABRICATING A (11) Insert Identification of (11)PHOTONIC DEVICE, A METHOD FOR FABRICATING THE PHOTONIC Invention, such as Title, Case DEVICE AND A METHOD FOR MANUFACTURING THE PHOTONIC Number or Foreign Application DEVICE-FABRICATING SUBSTRATE (Case No. Number for which the undersigned have executed an application for patent in the United States of America

1) The undersigned agree(s) to execute all papers necessary in connection with the application 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.

for filed application(s) filed ____

U.S. Application(s) Serial Number(s) 09/854 May 14, 2001

(12) Insert Date of Signing of

(13) Alternative identification

Application

(12)

(13)

011

- 2) The undersigned agree(s) to execute all papers necessary in connection with any interference which may be declared concerning this application or continuation or division thereof and to cooperate with the Assignee in every way possible in obtaining evidence and going forward with such interference.
- 3) The undersigned agree(s) 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) 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.

PATENT REEL: 012171 FRAME: 0200

09/854,925

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- 5) The undersigned hereby authorize(s) and request(s) the Commissioner of Patents to issue any and all Letters Patents of the United States resulting from said application or any 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.
- 6) The undersigned hereby grant(s) Stephen P. Burr, of BURR & BROWN 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 and Trademark Office recordation of this document.

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

Date _	May 31, 2001	_ Signature	Jomohike Shibata Tomohiko SHIBATA	(SEAL)
Date _	May 31, 2001	_ Signature	Kerichiro Asar Keiichiro ASAI	(SEAL)
Date _	May 31, 2001	_ Signature	Teruyo Magai	(SEAL)
Date _	May 31, 2001	Signature	Mitsuhiro Tanaka	
Date _		Signature		(SEAL)
Date _		Signature		(SEAL)
Date _		Signature		(SEAL)
Date _		_ Signature		(SEAL)
U.S. C	Consul if outside the U.S.A	4. If neither, the	gned before: (a) a Notary Public if within the in it should be signed before at least two with	
sign he Date_	ere: May 31, 2001	_ Witness	Junichi Aso	
D .	May 31, 2001	Witness	zjoriko konda	