

米田 謙次郎 0-2000002
/ (01-4)

ASSIGNMENT

- (1-8) Insert Name(s) of Inventor(s) (1) Tomohiko SHIBATA (5) _____
- (2) Keiichiro ASAI (6) _____
- (3) Teruyo NAGAI (7) _____
- (4) Mitsuhiro TANAKA (8) _____

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

- (9) Insert name of Assignee (9) NGK INSULATORS, LTD.
- (10) Insert address of Assignee (10) 2-56, Suda-Cho, Mizuho-Ku, Nagoya City,
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

- (11) Insert Identification of Invention, such as Title, Case Number or Foreign Application Number (11) A PHOTONIC DEVICE, A SUBSTRATE FOR FABRICATING A
PHOTONIC DEVICE, A METHOD FOR FABRICATING THE PHOTONIC
DEVICE AND A METHOD FOR MANUFACTURING THE PHOTONIC
DEVICE-FABRICATING SUBSTRATE (Case No. _____)

for which the undersigned have executed an application for patent in the United States of America

- (12) Insert Date of Signing of Application (12) on _____
- (13) Alternative identification (13) U.S. Application(s) Serial Number(s) 09/854,925
for filed application(s) filed May 14, 2001

- 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.
- 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.

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 Tomohiko Shibata (SEAL)
Tomohiko SHIBATA

Date May 31, 2001 Signature Keiichiro Asai (SEAL)
Keiichiro ASAI

Date May 31, 2001 Signature Teruyo Nagai (SEAL)
Teruyo NAGAI

Date May 31, 2001 Signature Mitsuhiro Tanaka (SEAL)
Mitsuhiro TANAKA

Date _____ Signature _____ (SEAL)

Date _____ Signature _____ (SEAL)

Date _____ Signature _____ (SEAL)

Date _____ Signature _____ (SEAL)

This assignment should preferably be signed before: (a) a Notary Public if within the U.S.A. or (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 May 31, 2001 Witness Junichi Aso

Date May 31, 2001 Witness Yoriko Konda