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Atty Docket No.: 209243US0PCT/

FORM PTO-1595
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1. Name of conveying party(ies): 11.13.01 Yasuji HIRAMATSU Yasutaka ITO Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Name and address of receiving party(ies): Name: IBIDEN CO., LTD. Address: 1, Kandacho 2-chome, Ogaki-shi, Gifu 503-0917, JAPAN Additional name(s) and address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3. Nature of Conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: July 30, 2001	

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) 09/869,594	B. Patent No.(s)
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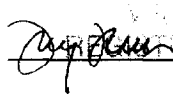
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5. Name and address of party to whom correspondence concerning document should be mailed:  22850	6. Total applications and patents involved: 1 7. Total fee (37 CFR 3.41): \$40.00 <input checked="" type="checkbox"/> Enclosed <input type="checkbox"/> Authorized to be charged to deposit account 8. Deposit account number: 15-0030 (Attach duplicate copy of this page if paying by deposit account)
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9. 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.

_____ Norman F. Oblon Name of Person Signing	 Signature	_____ November 13, 2001 Date
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PATENT
REEL: 012303 FRAME: 0839

09/869,594

Assignment Of Application

WHEREAS, I (WE) Yasuji HIRAMATSU and Yasutaka ITO, both of:

c/o IBIDEN CO., LTD., 1-1, Kitagata, Ibigawacho, Ibi-gun, Gifu,

Japan 501-0695

INSERT NAMES
AND RESIDENCE
ADDRESSES OF
THE INVENTORS:

_____, respectively,

INSERT TITLE
OF INVENTION:

have invented certain new and useful improvements in: CERAMIC SUBSTRATE AND PROCESS FOR PRODUCING THE SAME

INSERT DATE IN-
VENTORS SIGNED
DECLARATION:

for which an application for Letters Patent was executed on July 30, 2001

(Application No. 09/869,594, filed August 9, 2001), and

INSERT NAME
AND ADDRESS OF
COMPANY OR
OTHER ASSIGNEE:

WHEREAS, IBIDEN CO., LTD.

(hereinafter referred to as "ASSIGNEE") having a place of business at: 1, Kandacho 2-chome Ogaki-shi, Gifu 503-0917, JAPAN

is desirous of acquiring the entire right, title and interest in and to said invention and in and to any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

NOW, THEREFORE, in consideration of the sum of FIVE DOLLARS (\$5.00), the receipt whereof is hereby acknowledged, and for other good and valuable consideration, I (WE), by these presents do sell, assign and transfer unto said ASSIGNEE, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries and the entire right, title and interest in and to any and all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions and renewals thereof.

I (WE) hereby authorize and request the Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my (our) entire right, title and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its (his) successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me (us) had this Assignment and sale not been made.

Further, I (WE) agree that I (WE) will communicate to said ASSIGNEE or its (his) representatives any facts known to me (us) respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal and reissue applications, execute all necessary assignment papers to cause any and all of said Letter Patent to be issued to said ASSIGNEE, make all rightful oaths, and, generally do everything possible to aid said ASSIGNEE, its (his) successors and assigns, to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

The undersigned hereby grant(s) the firm of Oblon, Spivak, McClelland, Maier & Neustadt, P.C. of Fourth Floor, 1755 Jefferson Davis Highway, Arlington, Virginia 22202 the power to insert on this assignment any further identification, including the application number and filing date, which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Date: JUL. 30. 2001

Yasuji Hiramatsu
(Signature of Inventor) Yasuji HIRAMATSU

Date: JUL. 30. 2001

Yasutaka Ito
(Signature of Inventor) Yasutaka ITO

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

Date: _____

(Signature of Inventor)

OBLON, SPIVAK, McCLELLAND, MAIER & NEUSTADT, P.C.
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