

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>NAOTO TAKAHASHI</td> <td>12/26/2012</td> </tr> <tr> <td>YASUYUKI YAMAMOTO</td> <td>12/26/2012</td> </tr> </tbody> </table>		Name	Execution Date	NAOTO TAKAHASHI	12/26/2012	YASUYUKI YAMAMOTO	12/26/2012				
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<table border="1"> <tr> <td>Name:</td> <td>TOKUYAMA CORPORATION</td> </tr> <tr> <td>Street Address:</td> <td>1-1, MIKAGE-CHO</td> </tr> <tr> <td>City:</td> <td>SHUNAN-SHI, YAMAGUCHI</td> </tr> <tr> <td>State/Country:</td> <td>JAPAN</td> </tr> <tr> <td>Postal Code:</td> <td>745-8648</td> </tr> </table>		Name:	TOKUYAMA CORPORATION	Street Address:	1-1, MIKAGE-CHO	City:	SHUNAN-SHI, YAMAGUCHI	State/Country:	JAPAN	Postal Code:	745-8648
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CORRESPONDENCE DATA											
<p>Fax Number: 3124276663 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 3124271300 Email: cmoore@ladas.net Correspondent Name: RICHARD J. STREIT Address Line 1: LADAS & PARRY, 224 SOUTH MICHIGAN AVE. Address Line 4: CHICAGO, ILLINOIS 60604</p>											
ATTORNEY DOCKET NUMBER:	CU-70302 ZBF/CM										
NAME OF SUBMITTER:	Loren K. Thompson										
Total Attachments: 1 source=cu70302_assignment#page1.tif											

CH \$40.00 13818514

Assignment

Whereas, I/We, Naoto TAKAHASHI and Yasuyuki YAMAMOTO of Yamaguchi, Japan

hereinafter called assignor(s), have invented certain improvements in

VIA-HOLED CERAMIC SUBSTRATE, METALLIZED VIA-HOLED CERAMIC SUBSTRATE, AND
METHOD FOR MANUFACTURING THE SAME
and executed an application for Letters Patent of the United States of America therefor on
; and

Whereas, TOKUYAMA CORPORATION of 1-1, Mikage-cho, Shunan-shi, Yamaguchi,
745-8648 Japan

(assignee), desires to acquire the entire right, title, and interest in the application and invention, and to
any United States patents to be obtained therefor;

Now therefore, for valuable consideration, receipt whereof is hereby acknowledged,

I/We, the above named assignor(s), hereby sell, assign and transfer to the above named assignee, its
successors and assigns, the entire right, title and interest in the application and the invention disclosed
therein for the United States of America, including the right to claim priority under 35 U.S.C. §119, and
I/we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth
in the application to the assignee, its successors and assigns; and I/we will execute without further
consideration all papers deemed necessary by the assignee in connection with the United States application
when called upon to do so by the assignee.

Date: Dec. 26, 2012 s/ Naoto Takahashi
Naoto TAKAHASHI

Date: Dec. 26, 2012 s/ Yasuyuki Yamamoto
Yasuyuki YAMAMOTO

Date: s/ _____

Date: s/ _____

(Legalization not required for recording but is prima facie evidence of execution under 35 U.S.C. §261)