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03-18-2004

3.9.04



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102697496

File No. Delphi 308342
original document(s) or copy(ies).17510 U.S. PTO
10/797301

030904

1. SUBMISSION TYPE**2. CONVEYANCE TYPE (# Of Pages) (# Of Items)**

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☐ Other

3a. PATENT OR APP. #**3b. EXECUTION DATE****4. CONVEYING PARTY(IES)**

1. <u>Vincent L. Sprenkle</u>	Date <u>12/22/03</u>	7. <u>10797301</u>	Date _____
2. <u>Kerry D. Meinhardt</u>	Date <u>12/18/03</u>	8. _____	Date _____
3. <u>Nathan L. Canfield</u>	Date <u>12/18/03</u>	9. _____	Date _____
4. _____	Date _____	10. _____	Date _____
5. _____	Date _____	11. _____	Date _____
6. _____	Date _____	12. _____	Date _____

5. RECEIVING PARTY

Name: Battelle Memorial Institute
 Internal Address: K1-53
 Street Address: P.O. Box 999
 City: Richland State WA Zip 99352
 Any additional names of conveying parties attached? ☐ Yes
☒ No

6. CORRESPONDENT NAME AND ADDRESS

Name: Todd J. Harrington
 Street Address: P.O. Box 999
 City: Richland State WA Zip 99352
 Area Code and Telephone Number: (509) 375-2981

7. FEE & DEPOSIT ACCOUNT #

Method Of Payment:
☐ Enclosed ☒ Deposit Account \$40.00
 Deposit Account Number: 02-1275
 Authorization to charge additional fees: ☒ Yes
☐ No

8. 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. Charges to deposit account are authorized, as indicated herein.

Vincent A. Branton
 Name of Person Signing

VSA 30
 Signature

12/22/2003
 Date

03/16/2004 LWEILER 0000067 021275 10797301

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PATENT
 REEL: 015086 FRAME: 0554

A S S I G N M E N T

Vincent L. Sprenkle
Kerry D. Meinhardt
Nathan L. Canfield

To

Battelle Memorial Institute

WHEREAS, we, Vincent L. Sprenkle, of Richland, County of Benton, State of Washington, and Kerry D. Meinhardt, of Kennewick, County of Benton, State of Washington, and Nathan L. Canfield, of Kennewick, County of Benton, State of Washington, have made certain inventions in, CERAMIC ASSEMBLY WITH A STABILIZER LAYER, for which we are about to make letters patent; and

WHEREAS, Battelle Memorial Institute, a corporation of Ohio, organized and existing under the laws of the State of Ohio, having a place of business in the City of Richland, Washington, is desirous of acquiring an interest in the said invention and in any patent or any patents to be obtained therefore;

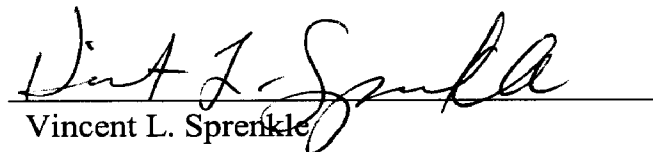
NOW, THEREFORE, To All Whom It May Concern, be it known that, for and in consideration of the sum of One Dollar (\$1.00) each, and other good valuable considerations, the receipt of which is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign, and transfer unto the said Battelle Memorial Institute, the entire right, title, and interest in and to the invention shown, described, or claimed therein, and the full and exclusive right and title to the said application; and in and to any extensions, reissues, divisions, or renewals thereof; and we do hereby authorized and request the Commissioner of Patents or other proper Officer, to issue such Letters Patent, or any of them, to the said Battelle Memorial Institute, as the assignee of our entire right, title, and interest in and to the same for the sole use and benefit of the said Battelle Memorial Institute, and its successors or assigns.

And we further covenant and agree that we will, at the request and expense of the said Battelle Memorial Institute, execute such other and further assurances of title as may be necessary or proper to fully convey the interest herein sought to be conveyed; that we will, at the request and expense of the said Battelle Memorial Institute, execute such application papers as may be desired by the said Battelle Memorial Institute, for the filing of any divisional or renewal

of the application herein conveyed, or for reissues or extensions, of any Letters Patent that may be granted upon said Statements, or other papers as desired by the said Battelle Memorial Institute.

And we further assign unto the said Battelle Memorial Institute, the whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Battelle Memorial Institute to apply for patents therefore in its own name in countries where such procedure is proper and to claim the benefit of the International Convention and do agree to execute applications for the said invention in the several countries where it is necessary that the same be executed by the inventors, and to execute assignments of such applications and the assignee herein, as well as all other necessary papers.

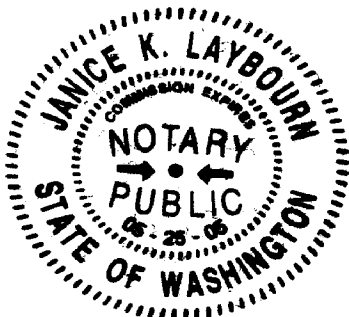
IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at Richland, Washington, this 22nd day of December, 2003.




Vincent L. Sprenkle

STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 22nd day of December, 2003, before me personally came the above-named Vincent L. Sprenkle, who executed the foregoing instrument in my presence, and who acknowledged to me that he executed the same of his own free will for the purposes set forth therein.

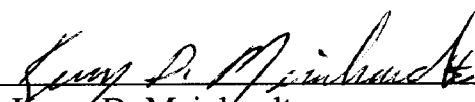


[SEAL]



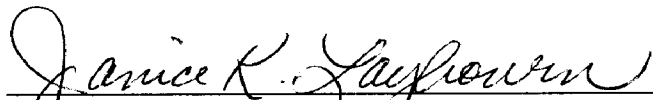
Notary Public for Washington
My commission expires: 5/25/05

IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at
Richland, Washington, this 18 day of December, 2003.


Kerry D. Meinhardt

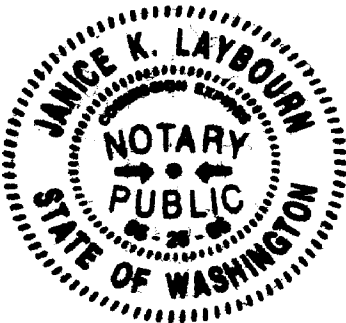
STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 18th day of December, 2003, before me personally came the above-named _
Kerry D. Meinhardt, who executed the foregoing instrument in my presence, and who
acknowledged to me that he executed the same of his own free will for the purposes set forth
therein.


Notary Public for Washington

My commission expires: 5/25/05

[SEAL]



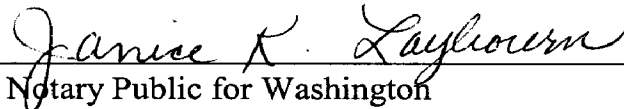
IN TESTIMONY WHEREOF I have hereunto set my hand and affixed my seal at
Richland, Washington, this 18th day of December, 2003.



Nathan L. Canfield

STATE OF WASHINGTON)
) ss.
COUNTY OF BENTON)

This 18th day of December, 2003, before me personally came the above-named
Nathan L. Canfield, who executed the foregoing instrument in my presence, and who
acknowledged to me that he executed the same of his own free will for the purposes set forth
therein.


Notary Public for Washington

My commission expires: 5/25/05

[SEAL]

