

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

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>Darran Robert Cairns</td> <td>02/19/2009</td> </tr> <tr> <td>Wade W. Huebsch</td> <td>02/19/2009</td> </tr> <tr> <td>Konstantinos A. Sierros</td> <td>02/19/2009</td> </tr> <tr> <td>Matthew S. Shafran</td> <td>02/19/2009</td> </tr> </tbody> </table>		Name	Execution Date	Darran Robert Cairns	02/19/2009	Wade W. Huebsch	02/19/2009	Konstantinos A. Sierros	02/19/2009	Matthew S. Shafran	02/19/2009		
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RECEIVING PARTY DATA													
<table border="1"> <tr> <td>Name:</td> <td>West Virginia University Research Corporation, WVU Office of Technology Transfer</td> </tr> <tr> <td>Street Address:</td> <td>886 Chestnut Ridge Road, Suite 210</td> </tr> <tr> <td>Internal Address:</td> <td>PO Box 6224</td> </tr> <tr> <td>City:</td> <td>Morgantown</td> </tr> <tr> <td>State/Country:</td> <td>WEST VIRGINIA</td> </tr> <tr> <td>Postal Code:</td> <td>26506</td> </tr> </table>		Name:	West Virginia University Research Corporation, WVU Office of Technology Transfer	Street Address:	886 Chestnut Ridge Road, Suite 210	Internal Address:	PO Box 6224	City:	Morgantown	State/Country:	WEST VIRGINIA	Postal Code:	26506
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PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13748239</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13748239								
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CORRESPONDENCE DATA													
<p>Fax Number: 7709510933 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 7709339500 Email: maddie.weller@thomashorstemeyer.com</p> <p>Correspondent Name: Scott A. Horstemeyer Address Line 1: 400 Interstate North Parkway Address Line 2: Suite 1500 Address Line 4: Atlanta, GEORGIA 30339</p>													
ATTORNEY DOCKET NUMBER:	52324-1081												
NAME OF SUBMITTER:	Randy R. Schoen												

OP \$40.00 13748239

Total Attachments: 6

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**ASSIGNMENT
OF UTILITY PATENT APPLICATION**

WHEREAS, the following parties:

<u>Name</u>	<u>Address</u>
Darran Robert Cairns	908 Tremont Street Morgantown, WV 26505
Wade W. Huebsch	32 Whites Run Court Morgantown, WV 26508
Konstantinos A. Sierros	1367 Stewartstown Rd., Apt. T5 Morgantown, WV 26505
Matthew S. Shafran	7117 Wood Hollow Dr., Apt. 123 Austin, TX 78731

hereinafter referred to as ASSIGNOR, has/have invented certain new and useful improvements ("invention(s)") as described and set forth in the below-identified utility application for United States Letters Patent entitled:

STIMULUS RESPONSIVE NANOPARTICLES,

which was:

- executed on even date herewith,
- filed with the United States Patent and Trademark Office (USPTO) on _____, and assigned Serial No. _____, and
- further described in U.S. Provisional application entitled Stimulus-Responsive Fluidic Dispersions of Nanoparticles, filed with the USPTO on February 19, 2008, and assigned Serial No. 61/066,384.

Note: Only one of the first two checkboxes will be checked. The third checkbox will be checked, only if appropriate.

WHEREAS, West Virginia University Research Corporation, WVU Office of Technology Transfer, having a place of business at Chestnut Ridge Research Building, 886 Chestnut Ridge Road, Suite 210, PO Box 6224, Morgantown, WV 26506-6216, hereinafter referred to as ASSIGNEE, is desirous of acquiring ASSIGNOR'S interest in and to said invention(s), said utility application, said provisional application, and any U.S. and foreign patents which are related to the same.

NOW, THEREFORE, TO ALL WHOM IT MAY CONCERN: Be it known that, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged by ASSIGNOR, ASSIGNOR has sold, assigned and transferred and does hereby sell, assign and

transfer unto ASSIGNEE, and ASSIGNEE'S successors and assigns, (a) the entire right, title and interest, for the United States of America, in and to said invention(s), said utility application, and said provisional application and all the rights and privileges in any application and under any and all patents that may be granted in the U.S. for said inventions, including all corresponding provisional, continuation, continuation-in-part, divisional, reissue, and reexamination applications; and (b) the entire right, title and interest in and to said invention(s), said utility application, and said provisional application for all countries foreign to the U.S., including all rights of priority arising from them, and all the rights and privileges under any and all forms of protection, including patents, that may be granted in said countries foreign to the U.S. for them.

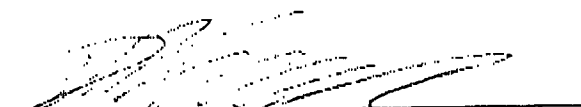
ASSIGNOR authorizes ASSIGNEE to make application for such protection in its own name and maintain such protection in any and all countries foreign to the U.S., and to invoke and claim for any application for patent or other form of protection for said inventions, without further authorization from ASSIGNOR, any and all benefits, including the right of priority provided by any and all treaties, conventions, or agreements.

ASSIGNOR hereby consents that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of ASSIGNEE to apply for patent or other form of protection for said inventions, said utility application, or said provisional application and to claim the aforesaid benefit of the right of priority.

ASSIGNOR requests that any and all patents for said inventions be issued to ASSIGNEE in the U.S. and to ASSIGNEE in all countries foreign to the U.S., or to such nominee as ASSIGNEE may designate.

ASSIGNOR covenants and agrees that, when requested, ASSIGNOR shall, without charge to ASSIGNEE but at ASSIGNEE'S expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable, or convenient in connection with the patent applications, patents, or other forms of protection of said invention(s), and for the defense and protection thereof if challenged in the court of law.

ASSIGNOR authorizes ASSIGNEE or its agents to insert, on ASSIGNOR's behalf, the filing date and/or serial number above pertaining to the utility application and/or the provisional application, if not known as of the date of execution of this document.



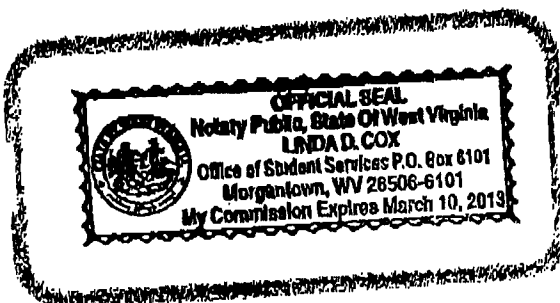
Darran Robert Cairns

Date: February 19, 2009

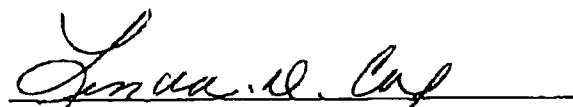
United States of America

State of WV

County of Monongalia



On this 19th day of February _____, 2009, before me personally came **Darran Robert Cairns** to me known to be the individual described above and who executed the foregoing instrument, or acknowledged execution of the same.



Notary Public

March 10, 2013

My Commission Expires (Date)



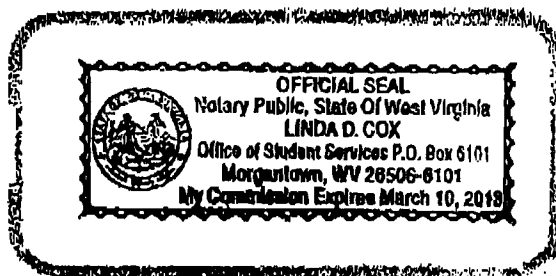
Wade W. Huebsch

Date: 2/19/09

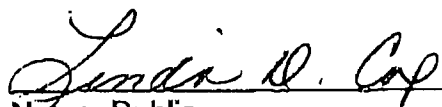
United States of America

State of WV

County of Monongalia



On this 19th day of February, 2009, before me personally came **Wade W. Huebsch** to me known to be the individual described above and who executed the foregoing instrument, or acknowledged execution of the same.



Notary Public

March 10, 2013

My Commission Expires (Date)



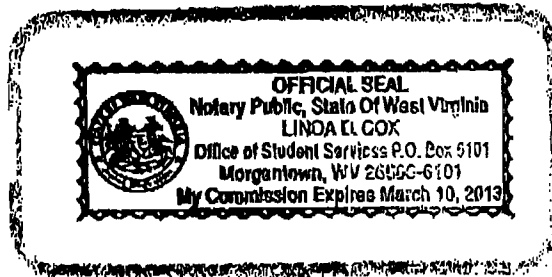
Konstantinos A. Sierros

Date: February 19, 2009

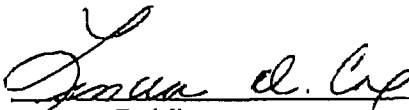
United States of America

State of WV

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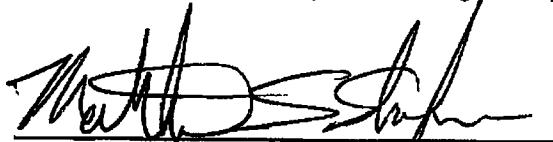
On this 19th day of February, 2009, before me personally came **Konstantinos A. Sierros** s to me known to be the individual described above and who executed the foregoing instrument, or acknowledged execution of the same.



Notary Public

March 10, 2013

My Commission Expires (Date)


Matthew S. Shafran

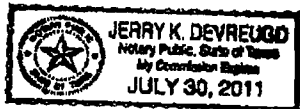
Date: 2/19/2009

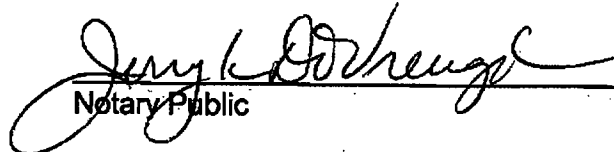
United States of America

State of TEXAS

County of TRAVIS

On this 19th day of February, 2009, before me personally came **Matthew S. Shafran** to me known to be the individual described above and who executed the foregoing instrument, or acknowledged execution of the same.




Notary Public

July 30, 2011
My Commission Expires (Date)