# PATENT ASSIGNMENT

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| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

# **CONVEYING PARTY DATA**

| Name                   | Execution Date |
|------------------------|----------------|
| Santosh Kumar Gangwal  | 10/09/2007     |
| Brian Scott Turk       | 10/08/2007     |
| Raghubir Prasael Gupta | 10/09/2007     |

### **RECEIVING PARTY DATA**

| Name:           | Research Triangle Institute          |  |
|-----------------|--------------------------------------|--|
| Street Address: | 3040 Cornwallis Road; P.O. Box 12194 |  |
| City:           | Research Triangle Park               |  |
| State/Country:  | NORTH CAROLINA                       |  |
| Postal Code:    | 27709                                |  |

### PROPERTY NUMBERS Total: 1

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 11771396 |

031037/330519

### **CORRESPONDENCE DATA**

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NAME OF SUBMITTER: Christopher M. Humphrey

Total Attachments: 4

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ATTORNEY DOCKET NUMBER:

PATENT REEL: 019936 FRAME: 0289

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PATENT REEL: 019936 FRAME: 0290

### ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor has sold and assigned, and by these presents hereby sells and assigns, unto

Research Triangle Institute
P.O. Box 12194
3040 Cornwallis Road
Research Triangle Park, NC 27709

its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries in and to the invention in "ZINC OXIDE-BASED SORBENTS AND PROCESSES FOR PREPARING AND USING SAME"

as set forth in this United States Patent Application

executed concurrently herewith
executed on
Application No. 11/771,396; filed June 29, 2007
Application claims priority from Application No. , filed above being hereinafter referred to as the "application(s)";

(We hereby authorize and request the Assignee and its attorney (Alston & Bird LLP) to insert above the application number and filing date of said application when known.)

said application for United States Letters Patent, including all divisional, renewal, substitute, continuation, nonprovisionals, continuation-in-parts, and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues, reexaminations, and extensions of Letters Patent granted for said inventions or upon said applications and every priority right that is or may be predicated upon or arise from said inventions, said applications, and said Letters Patent; said Assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said Assignee or otherwise as said Assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America being hereby authorized to issue or transfer all said Letters Patent to said Assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right theretofore given, and that the undersigned will do all acts reasonably serving to ensure that the said inventions, patent applications and Letters Patent shall be held and enjoyed by said Assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said Assignee all lawful documents including petitions, specifications, oaths, assignments, invention disclaimers, declarations, and lawful affidavits in form and substance which may be requested by said Assignee, to furnish said Assignee with all facts relating to said inventions or the history thereof and any and all documents, photographs,

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| Oct 9, 2007                                      | Roghusii P. Grytn   | ······································ |
|--|---|--|
| Date   | Raginabir Prasael Gupta   |  |
| State of North Cardeni  Country of Alamana       |   |  |
|  | lic for said County and State, do hereby ared before me this day and acknowledged | đ                                      |
| Witness my hand and official seal, this the _q+L | day of October, 2007.   |  |
| (Official Seal)                                  | mme & Dietrick  |  |
| My commission expires Spril 17, 2010             | Notary Public   |  |
|  |   |  |
| Attorney Docket No. 031037/330519                | artina.<br>Santon   |  |

| October 6, 2007  | 82 3  |  |  |
|--|---|--|--|
| Date   | Brian Scott Turk  |  |  |
|  |   |  |  |
| State of North Constance   | Ų   |  |  |
| County of <u>Alamone</u>   | _)  |  |  |
| I Dronge 5. Dietrick<br>certify that Brian Scott Turk person<br>execution of the foregoing instrum | , a Notary Public for said County and State, do hereby mally appeared before me this day and acknowledged the durent. |  |  |
| Witness my hand and official seal  | , this the 8th day of Octobe, 2007.   |  |  |
| (Official Seal)  | Donni de Du   |  |  |
| My commission expires <u>april</u>   | Notary Public   |  |  |

models, samples or other physical exhibits which may embody said inventions, and to testify in any proceedings relating to said inventions, patent applications, and/or Letters Patent.

The undersigned hereby grant(s) an authorized representative of Assignee the power to insert in this Assignment any further identification that may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

| october 8, 2007  | Santosh                            | Kumar    | Gaugual |
|--|------------------------------------|----------|---------|
| Date   | Santosh Kumar Gangwal              |          |         |
| State of North Caustin ) County of Clamona )  I, Donnie & Dutach , a Nota certify that Santosh Kumar Gangwal persona | lly appeared before i              |          |         |
| the due execution of the foregoing instrumen   |                                    |          |         |
| Witness my hand and official seal, this the  | $\mathcal{L}$ day of $\mathcal{O}$ | 26ber    | , 2007. |
| (Official Seal)  | Donnie S                           | ( ) ( )  |         |
| My commission expires Charles (17, 2010)   | Notár<br>)                         | y Public |         |

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**RECORDED: 10/09/2007**