PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

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

CONVEYING PARTY DATA

| Name | Execution Date |
|-------------------------|----------------|
| Derek J. Hansford | 09/20/2010 |
| Robbie J. Walczak | 12/13/2010 |
| Anthony A. Boiarski | 12/23/2010 |
| A. Terrence Conlisk Jr. | 12/15/2010 |

RECEIVING PARTY DATA

| Name: | The Ohio State University Research Foundation | |
|-----------------|-----------------------------------------------|--|
| Street Address: | 1216 Kinnear Road | |
| City: | Columbus | |
| State/Country: | ОНЮ | |
| Postal Code: | 43212 | |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|---------------------|----------|
| Application Number: | 11279515 |

CORRESPONDENCE DATA

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Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

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Address Line 4: Cleveland, OHIO 44114

| ATTORNEY DOCKET NUMBER: | 22727/04384 |
|-------------------------|--------------------|
| NAME OF SUBMITTER: | Raymond N. Russell |

Total Attachments: 4

PATENT REEL: 025593 FRAME: 0629 1127951

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> PATENT REEL: 025593 FRAME: 0630

ASSIGNMENT

For good and valuable consideration received of the hereinafter named assignee, receipt of which is hereby acknowledged, we, Derek J. Hansford, residing at 607 Glenmont Ave., Columbus, Ohio 43214; Robbie J. Walczak, residing at 3265 Foxpoint Dr., Hilliard, Ohio 43026; Anthony A. Boiarski, residing at 3494 Scioto Run Blvd., Hilliard, Ohio 43026 and A. Terrence Conlisk, Jr., residing at 5566 Rockport Rd., Columbus, Ohio 43235, hereby assigns all right, title and interest to **The Ohio State University Research Foundation**, 1216 Kinnear Road, Columbus, Ohio 43212, 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 inventions in

NANOPUMP DEVICES AND METHODS

as set forth in the following application(s): U.S. Patent Application Serial No. 11/279,515, filed April 12, 2006, to issue as U.S. Patent No. 7,799,197 on September 21, 2010; and any and all other applications for Letters Patent on said inventions in all countries foreign to the United States, including but not limited to all provisional, non-provisional, national, divisional, renewal, substitute, continuation, PCT and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patents and reissues and extension 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 of the United States of America and the empowered officials of all other governments 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 heretofore given, and that the undersigned will do all acts reasonably serving to assure 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

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PATENT REEL: 025593 FRAME: 0631 Attorney Docket: 22727/04384

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, and lawful affidavits in form and in 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, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

| Date: Sept. 20, 2010 | Derek J. Hansford |
|----------------------------------------------------------------------------|-----------------------------------|
| County of FRANKLIM State of OHIO |)) ss:) |
| Subscribed and sworn to before me this _ | 20 day of SEPTEMBER, 2010. |
| RYAN ZINN Notary Public, State of Chilo My Commission Expires 03-02-2014 | Notary Public ****** |
| Date: 12/13/10 | Robbie J. Walczak |
| County of FRANKUM State of OHIO |)) ss:) |
| Subscribed and sworn to before me this _ | 13 day of <u>DECEMBER</u> , 2010. |
| RYAN ZINN Notary Public, State of Ohio My Commission Expires 03-02-2014 | Notary Public ****** |

Attorney Docket: 22727/04384

| Date: | , |
|------------------------------------------------------------------|-----------------------------------|
| | Anthony A. Boiarski |
| County of | |
| State of |) ss:) |
| Subscribed and sworn to before me this | day of |
| | Notary Public |
| | ***** |
| Date: / 2/15/10 | A. Terrence Conlisk, Jr. |
| County of FZANKLIN |) |
| State of OHIO | |
| Subscribed and sworn to before me this _ | 15 day of <u>DECEMBER</u> , 2010. |
| RYAN ZINN Neter Public State of Obla | Notary Public \ |
| Notary Public, State of Ohlo My Commission Expires 03-02-2014 | ***** |

Attorney Docket: 22727/04384

| Date: 12/23/10 | AHBorarshi Anthony A. Boiarski |
|------------------------------------------------------------------------|--------------------------------|
| County of Freinklin State of 011 | _)) ss: _) |
| Subscribed and sworn to before me this | 23 day of <u>Dr.</u> , 2010. |
| ANJI MOHAN NOTARY PUBLIC, STATE OF OHIO MY COMMISSION EXPIRES 06/24/12 | Notary Public ****** |
| Date: | A. Terrence Conlisk, Jr. |
| County of |) |
| State of |) ss:) |
| Subscribed and sworn to before me this | , 2010. |
| | Notary Public |
| | tradicated to |

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PATENT REEL: 025593 FRAME: 0634

RECORDED: 01/06/2011