

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT3474640

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|---|--------------------------------|
| <b>SUBMISSION TYPE:</b>   | NEW ASSIGNMENT                 |
| <b>NATURE OF CONVEYANCE:</b>  | ASSIGNMENT                     |
| <b>CONVEYING PARTY DATA</b>   |                                |
| <b>Name</b>   | <b>Execution Date</b>          |
| JOEL Z. MELNICK   | 07/17/2008                     |
| <b>RECEIVING PARTY DATA</b>   |                                |
| <b>Name:</b>  | PROVENTIV THERAPEUTICS, LLC    |
| <b>Street Address:</b>  | 2333 WAUKEGAN ROAD             |
| <b>Internal Address:</b>  | SUITE E100                     |
| <b>City:</b>  | BANNOCKBURN                    |
| <b>State/Country:</b>   | ILLINOIS                       |
| <b>Postal Code:</b>   | 60015                          |
| <b>PROPERTY NUMBERS Total: 1</b>  |                                |
| <b>Property Type</b>  | <b>Number</b>                  |
| Application Number:   | 14607725                       |
| <b>CORRESPONDENCE DATA</b>  |                                |
| <b>Fax Number:</b>  | (312)474-0448                  |
| <i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i> |                                |
| <b>Email:</b>   | anagelberg@marshallip.com      |
| <b>Correspondent Name:</b>  | MARSHALL, GERSTEIN & BORUN LLP |
| <b>Address Line 1:</b>  | 233 SOUTH WACKER DRIVE         |
| <b>Address Line 2:</b>  | SUITE 6300                     |
| <b>Address Line 4:</b>  | CHICAGO, ILLINOIS 60606        |
| <b>ATTORNEY DOCKET NUMBER:</b>  | 31138/43351C                   |
| <b>NAME OF SUBMITTER:</b>   | AUDREY NAGELBERG               |
| <b>SIGNATURE:</b>   | /Audrey Nagelberg/             |
| <b>DATE SIGNED:</b>   | 08/07/2015                     |
| <b>Total Attachments: 4</b>   |                                |
| source=43351proventiv#page1.tif   |                                |
| source=43351proventiv#page2.tif   |                                |
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| source=43351proventiv#page4.tif   |                                |

MARSHALL, GERSTEIN & BORUN LLP, 233 S. Wacker Drive, Suite 6300, Sears Tower, Chicago, Illinois 60606-6357

ASSIGNMENT

Serial No: 61/041,898

Filed: April 2, 2008

Title: METHODS OF DIAGNOSING VITAMIN D DEFICIENCY, SUSCEPTIBILITY THERETO  
TREATMENT THEREOF, AND PREVENTION THEREOF

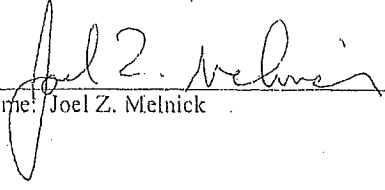
For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assigns to PROVENTIV THERAPEUTICS, LLC, a Delaware limited liability company, 2333 Waukegan Road, Suite E100, Bannockburn, IL, 60015, (hereinafter "Assignee"), its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in the above-identified application for letters patent and in said application and any and all other applications, both in the United States and in other countries, which the undersigned may file or be named as an inventor, either solely or jointly with others, on said invention or improvements, and in any and all letters patent of the United States and other countries, which may be obtained on any of said applications, and in any reissue or extension thereof.

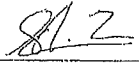
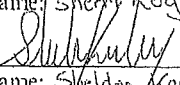
The undersigned hereby authorizes and requests the Commissioner for Patents to issue said letters patent to said Assignee.

The undersigned warrants himself to be the owner of the interest herein assigned and to have the right to make this assignment and further warrants that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned except in favor of Assignee.

For said consideration the undersigned hereby agrees, upon the request and at the expense of said Assignee, its successors and assigns, to execute any and all applications on said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any letters patent that may be granted upon any and all of said applications, and any and all applications and other documents for letters patent in other countries on said invention or improvements, that said Assignee, its successors or assigns, may deem necessary or expedient, and for said consideration the undersigned further agrees upon the request of said Assignee, its successors or assigns, in the event of any application or letters patent assigned herein becoming involved in Interference or Opposition, to cooperate to the best of the ability of the undersigned with said Assignee, its successors or assigns, in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said letters patent, both in the United States and in other countries, and vest all rights therein hereby conveyed in said Assignee, its successors and assigns, whereby said letters patent will be held and enjoyed by said Assignee, its successors and assigns, to the full end of the term for which said letters patent may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

WITNESS our hands this 17 day of July, 2008

  
Name: Joel Z. Melnick

Witnesses:  
  
Name: Sherry Kogan  
  
Name: Sheldon Kaworsky

MARSHALL, GERSTEIN & BORUN LLP, 233 S. Wacker Drive, Suite 6300, Sears Tower, Chicago, Illinois 60606-6357

### ASSIGNMENT

Serial No.: 61/161,292

Filed: March 18, 2009

Title: Methods of Diagnosing Vitamin D Deficiency, Susceptibility Thereto, Treatment Thereof, and Prevention Thereof

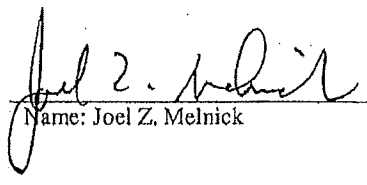
For other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the undersigned hereby assigns to PROVENTIV THERAPEUTICS, LLC, 2333 Waukegan Road, Suite E100, Bannockburn, Illinois 60015 (hereinafter "Assignee"), its successors and assigns, the entire right, title and interest in the invention or improvements of the undersigned disclosed in an application for letters patent of the United States, and in said application and any and all other applications, both in the United States and in other countries, which the undersigned may file or be named as an inventor, either solely or jointly with others, on said invention or improvements, and in any and all letters patent of the United States and other countries, which may be obtained on any of said applications, and in any reissue or extension thereof.

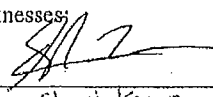
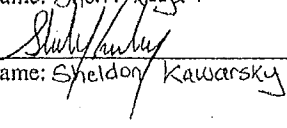
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The undersigned warrants himself to be the owner of the interest herein assigned and to have the right to make this assignment and further warrants that there are no outstanding prior assignments, licenses, or other rights in the interest herein assigned except in favor of Assignee.

For said consideration the undersigned hereby agrees, upon the request and at the expense of said Assignee, its successors and assigns, to execute any and all applications on said invention or improvements, and any necessary oath or affidavit relating thereto, and any application for the reissue or extension of any letters patent that may be granted upon any and all of said applications, and any and all applications and other documents for letters patent in other countries on said invention or improvements, that said Assignee, its successors or assigns, may deem necessary or expedient, and for said consideration the undersigned further agrees upon the request of said Assignee, its successors or assigns, in the event of any application or letters patent assigned herein becoming involved in Interference or Opposition, to cooperate to the best of the ability of the undersigned with said Assignee, its successors or assigns, in the matters of preparing and executing the preliminary statement and giving and producing evidence in support thereof, the undersigned hereby agreeing to perform, upon request, any and all affirmative acts to obtain said letters patent, both in the United States and in other countries, and vest all rights therein hereby conveyed in said Assignee, its successors and assigns, whereby said letters patent will be held and enjoyed by said Assignee, its successors and assigns, to the full end of the term for which said letters patent may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment and sale had not been made.

WITNESS our hands this 26 day of March, 2009.

  
Name: Joel Z. Melnick

Witnesses:  
  
Name: Sherri Kagan  
  
Name: Sheldon Kawarsky