

## PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE:   | NEW ASSIGNMENT                    |
| NATURE OF CONVEYANCE:  | ASSIGNMENT                        |
| CONVEYING PARTY DATA   |                                   |
| Name   | Execution Date                    |
| NOVO NORDISK A/S   | 10/22/2013                        |
| RECEIVING PARTY DATA   |                                   |
| Name:  | MPM-HOLDING APS                   |
| Street Address:  | MOSESVINGET 78                    |
| City:  | COPENHAGEN                        |
| State/Country:   | DENMARK                           |
| Postal Code:   | 2400                              |
| PROPERTY NUMBERS Total: 1  |                                   |
| Property Type  | Number                            |
| Application Number:  | 10529397                          |
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| ATTORNEY DOCKET NUMBER:  | 12845.21FPWO                      |
| NAME OF SUBMITTER:   | ANDREW O. LARSEN                  |
| Signature:   | /Andrew O. Larsen/                |
| Date:  | 10/29/2013                        |
| Total Attachments: 2<br>source=2013-10-23-Assignment#page1.tif<br>source=2013-10-23-Assignment#page2.tif |                                   |

OP \$40.00 10529397

768201-43

Attorney Docket No.: 12845.0021FPWO

ASSIGNMENT

WHEREAS, NOVO NORDISK A/S., a Aktieselskab (corporation) organized under the laws of the Denmark, having an office and place of business at Novo Alle 2880 Bagsvaerd, Denmark, (hereinafter referred to as the "UNDERSIGNED"), has acquired by assignment, recorded on 3 May 2007 (Reel/Frame 019242/0831) an invention for which an application for United States Letters Patent was filed on 28 March 2005 under Serial No. 10/529,397 entitled SPATIALLY ENCODED POLYMER MATRIX; in consideration of the sum of Ten Dollar (\$10.00), or the equivalent thereof, and other good and valuable consideration, the sufficiency of which and receipt of which are hereby acknowledged paid to ASSIGNOR by

MPM-Holding APS

a Anpartsselskab (corporation) organized under the laws of Denmark and having an office and place of business at Mosesvinget 78, 2400 Copenhagen, Denmark (hereinafter referred to as "ASSIGNEE"), do hereby sell and assign to said ASSIGNEE, its successors and assigns, the above indicated right, title, and interest in and for the United States of America only to said invention in the United States and patent application and any U.S. Letters Patent to be obtained therefore, and all patents, divisions, reissues, continuations, reexamination certificates, and any extensions thereof and rights of priority therein, including the right to sue for past infringement and any recovery, said interest being our entire ownership interest in the same, to be held and enjoyed by said ASSIGNEE, its successors, assigns, or other legal representatives, to the full end of the term thereof, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made, including all rights of Assignor to recover for past infringement thereof;

And for the consideration aforesaid, we hereby covenant and agree to and with said ASSIGNEE, its successors and assigns, that whenever ASSIGNEE, its counsel or representative, or the counsel or representative of its successors or assigns, shall advise that an amendment to, or a division of, or any other proceeding or action in connection with an application concerning said Invention, including interference proceedings, is lawful and desirable, or that a reissue or continuation or extension of such application or patent issuing


therefrom is lawful and desirable, we will sign all papers and drawings, take all rightful oaths and affidavits, and do all acts necessary or required to be done for the procurement of all lawful rights associated with the Invention, or for the reissue or continuation or extension of the same, will do all acts necessary or required to secure in said ASSIGNEE, its successors or assigns, the title to and full benefit of all rights hereby assigned, without charge to said ASSIGNEE or its successors or assigns, but at its or their expense; and we hereby appoint every present or future officer of said ASSIGNEE as my agent to sign all such papers and to do all such necessary acts on my behalf, to the fullest extent permitted by law;

And we hereby authorize and request the Commissioner of Patents and Trademarks and any other granting authority to issue any Letters Patent resulting from said Invention and application(s) concerning same to said ASSIGNEE.

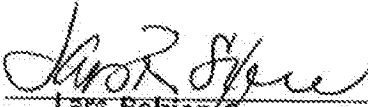
This assignment shall have an effective date corresponding to the last date of execution.

We declare under penalty of perjury under the laws of the United States of America, and under penalty of the laws of any other jurisdiction before which this document may be presented, that we have signed this document as my own free act and that all of the foregoing is true and correct.

Date 22 OCT 2013

By   
(Signature)  
Mads Krogsaard Thomsen  
Name: Chief Science Officer  
Title: Novo Nordisk A/S  
NOVO NORDISK A/S

Date 22 OCT 2013

By   
(Signature)  
Lars Rebien Sørensen  
President and CEO  
Name: Novo Nordisk A/S  
Title:   
NOVO NORDISK A/S

UWIN