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U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

PATENTS ONLY (Rev. 6-93) OMB No. 0651-0011 (exp. 4/94) To the Hon. Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof. 2. Name and address of receiving party(ies): Name of conveying party(ies): Name: Novo Nordisk A/S Lars Kongsbak Martin Schülein Internal Address: Mads Eskelund Bjørnvad Street Address: Novo Alle DK-2880 Bagsvaerd, Denmark Additional name(s) of conveying party(ies) attached? Additional name(s) & address(es) attached? []Yes [x] No 3. Nature of conveyance: [x] Assignment [] Security Agreement [] Change of Name [] Other Execution Date: 11/30/98; 11/24/98; 11/24/98 4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application is: __ A. Patent Application No.(s) 09/184,217 B. Patent No.(s) Additional numbers attached? [] Yes [x] No Name and address of the party to whom correspondence concerning document should be mailed: 6. Total number of applications and patents involved: one Name: Steve T. Zelson, Esq. 7. Total fee (37 CFR 3.41) \$ 40.00 Internal Address: [] Enclosed Novo Nordisk of North America, Inc. [x] Authorized to be charged to deposit account Street Address: 405 Lexington Avenue, 8. Deposit account number: Suite 6400 city: New York State: NY Zip: 10174-6401 (Attach duplicate copy of this page if paying by deposit account) DO NOT USE THIS SPACE 9. Statement and signature. To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true opy of the original document. Reza Green, Esq Name of Person Signing Total number of pages including cover sheet, attachments, and document: 26/11/1999 JANTIKINS 000000833

REEL: 9751 FRAME: 0813

PATENT

ASSIGNMENT OF APPLICATION FOR PATENT

WHEREAS:

Lars Kongsbak, a citizen of Denmark, residing at Vaengestien 2A, DK-2840 Holte, Denmark;

Martin Schülein, a citizen of Denmark, residing at Wiedeweltsgade 51, DK-2100 Copenhagen Ø, Denmark; and

Mads Eskelund Bjørnvad, a citizen of Denmark, residing at Dr. Abildgaards Allè 8, 3th, DK-1955 Frederiksberg, Denmark

(hereinafter ASSIGNORS), have made a discovery or invention entitled:

Biopreparation of Textiles At High Temperatures

for which application of Letters Patent of the United States has been filed on November 2, 1998, under Serial No. 09/184,217, and

WHEREAS:

Novo Nordisk A/S, a corporation organized under the laws of Denmark, located at Novo Alle, DK-2880 Bagsvaerd, Denmark (hereinafter ASSIGNEE), is desirous of acquiring the entire interest in, to and under said invention and in, to and under Letters Patent or similar legal protection to be obtained therefor in the United States and in any and all foreign countries.

NOW, THEREFORE, in consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of one dollar (\$1) or the equivalent thereof, the receipt of which is hereby acknowledged, and for other good and valuable consideration, ASSIGNORS hereby sell, assign and transfer to ASSIGNEE, its successors, legal representatives and assigns, the full and exclusive rights, titles and interests to said discovery or invention in the United States and its territorial possessions and in all foreign countries and to all Letters Patent or similar legal protection in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any continuation, division, renewal, extension, substitute or reissue thereof or any legal equivalent thereof in a foreign country for the full term or terms for which the same may be granted.

SAID ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks of the United States of America and any Official of any country or countries foreign to the United States of America whose duty it is to issue Letters Patent on applications as aforesaid,

PATENT REEL: 9751 FRAME: 0814 to issue all such Letters Patent for said discovery or invention to the ASSIGNEE, as assignee of the entire right, title and interest in, to and under the same, for the sole use and behalf of the ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

SAID ASSIGNORS hereby covenant that we have full right to convey the entire right, title and interest herein sold, assigned, transferred and set over.

AND SAID ASSIGNORS hereby further covenant and agree that the ASSIGNEE, its successors, legal representatives, and assigns, may apply for foreign Letters Patent on said discovery or invention and claim the benefits of the International Convention, and that we will, at any time, when called upon to do so by the ASSIGNEE, its successors, legal representatives, or assigns, communicate to the ASSIGNEE, its successors, legal representatives, or assigns, as the case may be, any facts known to us respecting said discovery or invention, and execute and deliver any and all lawful papers that may be necessary or desirable to perfect the title to the said discovery or invention, the said applications and the said Letters Patent in the ASSIGNEE, its successors, legal representatives and assigns, and that if reissues of the said Letters Patent or disclaimers relating thereto, or divisions, continuations, or refilings of the said applications, or any thereof, shall hereafter be desired by the ASSIGNEE, its successors, legal representatives or assigns, we will, at any time, when called upon to do so by the ASSIGNEE, its successors, legal representatives, or assigns, sign all lawful papers, make all rightful oaths, execute and deliver all such disclaimers and all divisional, continuation and reissue applications so desired, and do all lawful acts requisite for the application for such reissues and the procuring thereof and for the filing of such disclaimers and such applications, and generally do everything possible to aid the ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said invention or discovery in all countries, all without further compensation but at the expense of the ASSIGNEE, its successors, legal representatives and assigns.

Date: 30 Nov 1998

Date: 24-NOV, -1998

Date: 24-10V-1998

RECORDED: 02/09/1999

Lars Kongsbak

Martin Schülein

Mads Eskelund Biernvad

PATENT REEL: 9751 FRAME: 0815