

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2645491

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
NOVARTIS VACCINES & DIAGNOSTICS SRL		10/19/2009
RECEIVING PARTY DATA		
Name:	NOVARTIS AG	
Street Address:	LICHTSTRASSE 35	
City:	BASEL	
State/Country:	SWITZERLAND	
Postal Code:	4056	
PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	13384224	
CORRESPONDENCE DATA		
Fax Number:	(415)268-7522	
Phone:	(415) 268-7000	
Email:	lyadao@mofo.com	
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>		
Correspondent Name:	MORRISON & FOERSTER LLP	
Address Line 1:	425 MARKET ST.	
Address Line 4:	SAN FRANCISCO, CALIFORNIA 94105	
ATTORNEY DOCKET NUMBER:	529552004200	
NAME OF SUBMITTER:	OTIS B. LITTLEFIELD	
Signature:	/Otis Littlefield/	
Date:	12/11/2013	
Total Attachments: 1 source=Assignment3_61226219_Corp#page1.tif		

CH \$40.00 13384224

ASSIGNMENT JOINT

THIS ASSIGNMENT, by Novartis Vaccines & Diagnostics Srl., an Italian corporation (hereinafter "assignor"), is the sole and exclusive owner, by assignment, of United States Patent Application No. 61/226,219 and filed on July 16, 2009, entitled "DETOXIFIED ESCHERICHIA COLI IMMUNOGENS," and the inventions described therein; and

WHEREAS, Novartis AG, a corporation of Switzerland (hereinafter "assignee"), is desirous of acquiring the right, title and interest in, to and under said Patent application and the inventions covered thereby:

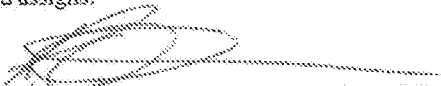
NOW, THEREFORE, for good and sufficient consideration, the receipt of which is hereby acknowledged, said assignors have sold, assigned, transferred and set over, and by these presents does sell, assign, transfer and set over, unto said assignee, its successors, legal representatives and assigns, the entire right, title and interest in and to the above-mentioned inventions, provisional patent application and application for Letters Patent, and any and all Letters Patent or Patents in the United States of America and all foreign countries which may be granted therefor and thereon, and in and to any and all conversions, divisions, continuations and continuations-in-part of said application, or reissues or extensions of said Letters Patent or Patents, and all rights under the International Convention for the Protection of Industrial Property, the same to be held and enjoyed by said assignee, for its own use and the use of its successors, legal representatives and assigns, to the full end of the term or terms for which Letters Patent or Patents may be granted, as fully and entirely as the same would have been held and enjoyed by the assignors, had this sale and assignment not been made.

AND for the same consideration, said assignors hereby covenant and agree to and with said assignee its successors, legal representatives and assigns, that, at the time of execution and delivery of these presents, said assignors are the sole and lawful owners of the entire right, title and interest in and to said inventions and the provisional patent application above-mentioned, and that the same are unencumbered and that said assignors have good and full right and lawful authority to sell and convey the same in the manner herein set forth.

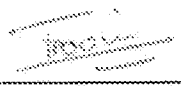
AND for the same consideration, said assignors hereby covenant and agree to and with said assignee, its successors, legal representatives and assigns, that said assignors will, whenever counsel of said assignee, or the counsel of its successors, legal representatives and assigns, shall advise that any proceeding in connection with said inventions, provisional patent application, or said application for Letters Patent, or any proceeding in connection with Letters Patent for said inventions in any country, including interference proceedings, is lawful and desirable, or that any division, continuation or continuation-in-part of any application for Letters Patent or any reissue or extension of any Letters Patent, to be obtained thereon, is lawful and desirable, sign all papers and documents, take all lawful oaths, and do all acts necessary or required to be done for the procurement, maintenance, enforcement and defense of Letters Patent for said inventions, without charge to said assignee, its successors, legal representatives and assigns, but at the cost and expense of said assignee, its successors, legal representatives and assigns.


AND said assignors hereby request the Commissioner of Patents to issue said Letters Patent of the United States to said assignee as the assignee of said inventions and the Letters Patent to be issued thereon for the sole use of said assignee, its successors, legal representatives and assigns.

19/07/09
Date


Name: Richard S. Pitman
Title: Authorized Signatory
Company: Novartis Vaccines & Diagnostics Srl.

19/07/2009
Date


Name: Isabelle Frouin
Title: Authorized Signatory
Company: Novartis AG


Name: Maria Palla
Title: Authorized Signatory
Company: Novartis AG