

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2761368

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	NOVARTIS VACCINES & DIAGNOSTICS SRL	11/18/2008
RECEIVING PARTY DATA		
Name:	NOVARTIS AG	
Street Address:	LICHTSTRASSE 35	
City:	BASEL	
State/Country:	SWITZERLAND	
Postal Code:	4056	
PROPERTY NUMBERS Total: 2		
	Property Type	Number
	Application Number:	13253018
	Application Number:	13253024
CORRESPONDENCE DATA		
Fax Number:	(415)268-7522	
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>		
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Email:	mstout@mofo.com	
Correspondent Name:	OTIS LITTLEFIELD	
Address Line 1:	MORRISON & FOERSTER LLP	
Address Line 2:	425 MARKET STREET	
Address Line 4:	SAN FRANCISCO, CALIFORNIA 94105	
ATTORNEY DOCKET NUMBER:	223002119412 AND 2119413	
NAME OF SUBMITTER:	OTIS LITTLEFIELD	
SIGNATURE:	/Otis Littlefield/	
DATE SIGNED:	03/10/2014	
Total Attachments: 4		
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ASSIGNMENT OF PATENT APPLICATION

Whereas Novartis Vaccines & Diagnostics SRL, a corporation of the country of Italy, having a place of business at Via Fiorentina 1, I-53100, Siena, ITALY, ("ASSIGNOR") and Novartis AG, a corporation of Switzerland having a place of business at Lichtstrasse 35, 4056 Basel, Switzerland, ("ASSIGNEE") have agreed that ASSIGNEE shall acquire from ASSIGNOR the following patents and/or patent applications ("PATENT PROPERTIES"):

<u>Matter No.</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Patent No.</u>
PP000313.0004	US 08/457,310	06/01/1995	5,719,049
PP000314.0002	US 08/295,081	08/24/1994	5,900,372
PP000314.0003	US 08/468,372	06/06/1995	5,866,375
PP000316.0002	US 08/466,662	06/06/1995	6,130,059
PP000317.0001	US 08/256,847	11/01/1994	6,403,099
PP000323.0004	US 08/444,189	06/06/1995	6,110,705
PP000327.0001	US 08/229,980	04/19/1994	5,629,167
PP000327.0006	US 09/012,716	01/23/1998	6,649,374
PP000327.0009	US 08/465,465	06/05/1995	6,210,968
PP000332.0001	US 08/776,259	01/21/1997	6,074,635
PP000336.0001	US 09/011,910	02/17/1998	6,737,233
PP000336.0110	US 09/755,251	01/05/2001	6,777,538
PP000338.0106	US 10/986,582	04/27/1999	
PP000343.0001	US 09/367,609	08/16/1999	6,361,969
PP000353.0102	US 09/647,637	10/02/2000	7,038,012
PP000356.0001	US 09/303,518	04/30/1999	6,914,131
PP000362.0102	US 09/674,183	11/14/2000	6,855,321
PP000362.0106	US 11/030,635	01/06/2005	
PP000367.0103	US 09/674,393	01/18/2001	6,841,155
PP000368.0102	US 09/673,867	05/17/2001	6,676,938
PP001562.0109	US 10/312,273	05/05/2003	
PP001608.0103	US 09/980,602	09/20/2002	7,368,261
PP001651.0102	US 10/089,367	12/27/2002	7,279,169
PP001692.0103	US 10/181,600	03/31/2003	
PP015898.0003	US 10/221,993	01/07/2003	7,179,457
PP016164.0003	US 10/312,490	04/22/2003	
PP017712.0003	US 10/471,571	03/27/2002	
PP018317.0003	US 10/484,703	03/07/2005	
PP019245.0003	US 10/497,709	03/07/2005	
PP019737.0004	US 10/535,168	06/29/2006	
PP019743.0003	US 10/526,113	02/28/2006	

PATENT
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PATENT
REEL: 032397 FRAME: 0891

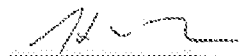
PP019745.0003	US 10/526,124	06/16/2006
PP019752.0003	US 10/564,474	11/20/2006
PP019813.0003	US 10/526,125	06/15/2006
PP020031.0002	PCT/IB03/02382	05/14/2003
PP021065.0001	US 60/590,648	07/23/2004
PP021401.0012	US 10/574,424	04/19/2007
PP023152.0001	US 11/018,868	12/22/2004
PP028149.0013	US 11/661,996	10/19/2007

Therefore, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNOR, the owner of the entire right, title, and interest in the PATENT PROPERTIES, hereby sells, assigns, transfers and conveys to ASSIGNEE, its designees, successors, assigns and legal representatives, the entire right, title and interest in the PATENT PROPERTIES and all divisions, continuations, reissues and reexaminations thereof, the inventions therein, and all rights to claim priority from the PATENT PROPERTIES and all applications for patent that may be filed for the inventions in any foreign country and all patents that may be granted on the inventions in any foreign country, and all extensions, renewals, and reissues thereof; each and every of the foregoing rights, titles and interests herein assigned shall be held and enjoyed by ASSIGNEE, its successors, assigns and legal representatives, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

IN TESTIMONY WHEREOF, Assignor has caused this Assignment to be duly executed in its name and behalf by affixing its hand and seal thereto by its designated officer, director, or agent, whose name and title appear below.

Executed at Emeryville, California this 18 day of November, 2008.

Novartis Vaccines & Diagnostics SRL



Signature

Name: Helen Lee

Title: Attorney-in-Fact

PATENT
REEL: 021904 FRAME: 0970

PATENT
REEL: 032397 FRAME: 0892

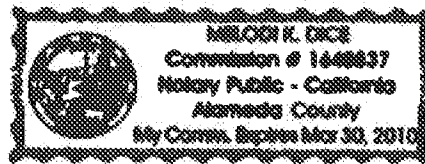
State of California)
)
County of Alameda)

On 18 November 2008 before me, Melodi K. Dice, Notary Public, personally appeared Helen Lee, personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that she executed the same in her authorized capacity, and that by her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Melodi K. Dice

Signature of Notary Public



Place Notary Seal Above

RECORDED: 12/01/2008

PATENT
REEL: 021904 FRAME: 0971

PATENT
REEL: 032397 FRAME: 0893

ATTACHMENT

<u>Matter No.</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Patent No.</u>
PP000313.0004	US 08/457,310	06/01/1995	5,719,049
PP000314.0002	US 08/295,081	08/24/1994	5,900,372
PP000314.0003	US 08/468,372	06/06/1995	5,866,375
PP000316.0002	US 08/466,662	06/06/1995	6,130,059
PP000317.0001	US 08/256,847	11/01/1994	6,403,099
PP000323.0004	US 08/444,189	06/06/1995	6,110,705
PP000327.0001	US 08/229,980	04/19/1994	5,629,167
PP000327.0006	US 09/012,716	01/23/1998	6,649,374
PP000327.0009	US 08/465,465	06/05/1995	6,210,968
PP000332.0001	US 08/776,259	01/21/1997	6,074,635
PP000336.0001	US 09/011,910	02/17/1998	6,737,233
PP000336.0110	US 09/755,251	01/05/2001	6,777,538
PP000338.0106	US 10/986,582	04/27/1999	
PP000343.0001	US 09/367,609	08/16/1999	6,361,969
PP000353.0102	US 09/647,637	10/02/2000	7,038,012
PP000356.0001	US 09/303,518	04/30/1999	6,914,131
PP000362.0102	US 09/674,183	11/14/2000	6,855,321
PP000362.0106	US 11/030,635	01/06/2005	
PP000367.0103	US 09/674,393	01/18/2001	6,841,155
PP000368.0102	US 09/673,867	05/17/2001	6,676,938
PP001562.0109	US 10/312,273	05/05/2003	
PP001608.0103	US 09/980,602	09/20/2002	7,368,261
PP001651.0102	US 10/089,367	12/27/2002	7,279,169
PP001692.0103	US 10/181,600	03/31/2003	
PP015898.0003	US 10/221,993	01/07/2003	7,179,457
PP016164.0003	US 10/312,490	04/22/2003	
PP017712.0003	US 10/471,571	03/27/2002	
PP018317.0003	US 10/484,703	03/07/2005	
PP019245.0003	US 10/497,709	03/07/2005	
PP019737.0004	US 10/535,168	06/29/2006	
PP019743.0003	US 10/526,113	02/28/2006	
PP019745.0003	US 10/526,124	06/16/2006	
PP019752.0003	US 10/564,474	11/20/2006	
PP019813.0003	US 10/526,125	06/15/2006	
PP020031.0002	PCT/IB03/02382	05/14/2003	
PP021065.0001	US 60/590,648	07/23/2004	
PP021401.0012	US 10/574,424	04/19/2007	
PP023152.0001	US 11/018,868	12/22/2004	
PP028149.0013	US 11/661,996	10/19/2007	

PATENT

REEL: 021904 FRAME: 0968

PATENT

REEL: 032397 FRAME: 0894

RECORDED: 03/10/2014