## PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
Massimo BIGIO	03/04/2010
Giovanni AVERANI	03/04/2010
Francesco NORELLI	03/04/2010
Francesco BERTI	02/16/2010
Cinzia BELLUCCI	02/10/2010

#### **RECEIVING PARTY DATA**

Name:	Novartis Vaccines and Diagnostics SRL
Street Address:	Via Fiorentina 1
City:	Siena
State/Country:	ITALY
Postal Code:	I-53100

## PROPERTY NUMBERS Total: 1

Property Type	Number
PCT Number:	IB0802690

## **CORRESPONDENCE DATA**

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ATTORNEY DOCKET NUMBER:	PAT052123-WO-PCT
NAME OF SUBMITTER:	Nafra Bates

**Total Attachments: 4** 

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Form PTO-1595 F (Rev. 07/05)	RECORDATION FORM		U.S. DEPARTMENT OF COMMERCE
OMB No. 0651-0027 (exp. 6/30/2008)	PATENTS	ONLY	U.S. Patent and Trademark Office
*			PATC52123-WD-PCT
To the Director of Patents and	Trademarks: Please rec	ord the attached original do	cuments or copy thereof.
1. Name of conveying party(ies):  Massimo BIGIO Giovanni AVERANI Francesco NORELLI Francesco BERTI Cinzia BELLUCI  Additional pame(s) of convenien party(ies) and		<ol> <li>Name and address of re Name:</li> <li>NOVARTIS VACCINE Via Fiorentina, 1 I-53100 Siena IT</li> </ol>	eceiving party(ies)
Additional name(s) of conveying party(ies) att. 3. Nature of conveyance:	acried ( Tites ( No		
☐ Security Agreement ☐ C	lerger hange of Name ther		
Executive Order 9424, Confirmatory Licens	se	∐ Other	
Execution Date(s): March 4, 2010; March 4, 201 February 16, 2010; February 10, 2010  4. Application number(s) or patent number(s):		Additional name(s) & add	dress(es) attached? ☐ Yes ☒ No
If this document is being filed together with  A. Patent Application No.(s)  PCT/IB2008/002690	a new application, the ex	ecution date of the application B. Patent No.(s)	on is:
T 01/1B2000/002090	Additional number(s) atta	ched ☐ Yes ⊠ No	
Name and address of party to whom correspondence concerning document should be mailed:		. Total number of applications a	and patents involved 1
NOVARTIS VACCINES AND DIAG	NOSTICS, INC.	Total fee (37 CFR 3.41)	\$40.00
Corporate Intellectual Property – X P.O. Box 8097 Emeryville, CA 94662-8097	100B	⊠ Authorized to be char	ged to deposit account,
US	8	Deposit account number:	
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Statement and signature.			
To the best of my knowledge and belie a true copy of the original document.  Helen Lee, Reg. No. 39,270	f, the foregoing information $\mathcal{U} \subset \mathcal{U}$		, ,
Name of Person Signing	Signature		MA 3010 Date
Total numb	per of pages including cover sh	neet, attachments, and documen	nt: <b>4</b>

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to: Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

#### **ASSIGNMENT**

For good and valuable consideration, the receipt and adequacy of which is hereby acknowledged, we (1) Massimo Bigio, (2) Giovanni Averani, (3) Francesco Norelli, (4) Francesco Berti, and (5) Cinzia Bellucci

do hereby sell, assign and transfer to **Novartis Vaccines and Diagnostics S.R.L.**, with a place of business at Via Fiorentina 1, I-53100, Siena, Italy, (hereinafter referred to as the "**ASSIGNEE**") and its successors, assigns and legal representatives, all our right, title and interest for all countries of the world in and to (1) all of our inventions and discoveries described in the patent application(s) entitled

#### CONJUGATE PURIFICATION

and filed in the United States Patent and Trademark Office on \_\_\_\_\_\_, 20\_ and accorded Application \_\* and/or filed in the RO/IB on July 17, 2008, and accorded International Patent Application Number PCT/IB2008/002690, (2) said patent application(s), (3) all national stages of said international patent application, (4) all other patent applications in all countries and regions claiming the priority of the <u>United Kingdom</u>, patent application filed on <u>July 17, 2007</u> and accorded Application Number 0713880.3 (5) all continuations and divisions of all of said patent applications (including further continuations and divisions such as, but not limited to, continuations of continuations and continuations of divisions), ((2)-(5) hereinafter referred to collectively as "patent applications"), (6) all patents that are granted on any of said patent applications, (7) all registrations and confirmations of, and importation certificates based on, one or more of said patents and (8) all reissues, renewals and extensions of said patents, reexamination certificates issued for said patents and supplementary protection certificates based on said patents (including the right to file patent applications on said inventions and discoveries in the names of ASSIGNEE, their designees or in any or all of our names, at their election and in accordance with applicable law in all countries and regions and all rights of priority in all countries and regions for all of said patent applications under the International Convention for the Protection of Industrial Property, and all other applicable similar international agreements), the same to be held and enjoyed by said ASSIGNEE, their successors, assigns and legal representatives, to the full ends of the terms for which all patents therefor may be granted, as fully and entirely as the same would have been held and enjoyed by us if this sale, assignment and transfer had not been made.

\*We hereby authorize **ASSIGNEE** and their representatives to insert in this instrument the Application Number and the filing date of said patent application when notified thereof.

And we hereby covenant and agree that we will, at any time, upon the request and at the expense of ASSIGNEE, execute and deliver all documents that may be necessary or desirable to perfect the title to the foregoing inventions and discoveries, patent applications, patents, registrations, confirmations, importation certificates, reissues, renewals, extensions, reexamination certificates and supplementary protection certificates in ASSIGNEE, their successors, assigns or other legal representatives, including the execution and procurement of all further documents evidencing this safe, assignment and transfer as may be necessary or desirable for recording the same in the patent office or other intellectual property office, agency or the like of any country or region, that we will, at any time, upon the request and at the expense of ASSIGNEE, execute all additional patent applications, applications for registration and/or confirmation of one or more of said patents, applications for certificates of importation based on one or more of said patents, applications for reissues, renewals and extensions of one or more of said patents and supplemental protection certificates based upon one or more of said patents, and that we will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein, without further compensation, but at the expense of ASSIGNEE, the successors, assigns or other legal representatives.

This Assignment is effective as from the earliest priority date as stated above.

Executed this Oli day of MARCH 20 10
Executed this OU day of MIRCH, 20 10
Name: Massing BIGIO
Waltafelle
Witness Signature
withese dignature
MARIA AUN
Print Name
Executed this Ob day of MARCH 20 10
LS.
Name: Gioyami AVERANI
$\langle \Lambda \rangle = 0.0$
Hatta Hille
Witness Signature
0 · 0 · - 30.
MARTA MUA
Print Name
Executed this Obj. day of NACCH, 20 10.
Manager 1
Tues New LS.
Name: Francesco NORELLI
Wasta Politica
Witness Signature
MARTA PAUA
Print Name

**RECORDED: 03/09/2010** 

Executed this 16 day of February	, 20 <u>-10</u>
Frances Besti	L.S.
Name: Francesco BERTI	
- Hacta Collu	
Witness Signature	
MARJA PALLA	
Print Name	
- Com In . Fred and agent	#C\
Executed this 10 day of TO NUALLY	, 20 <u>°E</u> )
Name: Cinzia BELLUCCI	L.S.
Name: Cińzia BELLUCCI	
Hatta Polle	
Witness Signature	
withess signature	
MARTA PALLA	
Print Name	·····