505931899 02/24/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5978617

SUBMISSION TYPE:		NEW ASSIGNM	NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT			
CONVEYING PARTY D	ΑΤΑ					
		Name	Name		ecution Date	
NOVARTIS VACCINES AND DIAGNO		NOSTICS SRL	STICS SRL		0/2012	
RECEIVING PARTY DA	ΑΤΑ					
Name:	NOVAR	NOVARTIS AG				
Street Address:	LICHTS	LICHTSTRASSE 35				
City:	BASEL	BASEL				
State/Country:	SWITZE	SWITZERLAND				
Postal Code:	4056	4056				
Application Number:		6799113	I	-		
Property Type Application Number:		Numbe 6799113	ſ	-		
				-		
	ΟΑΤΑ					
Fax Number:		ha a mail addraca fi	rot, if that is up		ill be cont	
Fax Number: Correspondence will k	be sent to t				ill be sent	
Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Email:	be sent to a provided; U	<i>if that is unsuccess</i> S_CIPKOP@GSK.CC	f ul, it will be se i DM	nt via US Mail.	ill be sent	
Correspondence will t using a fax number, if Email: Correspondent Name:	be sent to t provided; U G	<i>if that is unsuccess</i> S_CIPKOP@GSK.CO LAXOSMITHKLINE (f ul, it will be sei DM BLOBAL PATEN	nt via US Mail.	ill be sent	
Fax Number: <i>Correspondence will & using a fax number, if</i> Email: Correspondent Name: Address Line 1:	be sent to t provided; U G 1	<i>if that is unsuccess</i> S_CIPKOP@GSK.CO LAXOSMITHKLINE (250 SOUTH COLLEG	f ul, it will be sei DM GLOBAL PATEN GEVILLE ROAD	n t via US Mail. TS UP4110	ill be sent	
Fax Number: <i>Correspondence will & using a fax number, if</i> Email: Correspondent Name:	be sent to t provided; U G 1	<i>if that is unsuccess</i> S_CIPKOP@GSK.CO LAXOSMITHKLINE (f ul, it will be sei DM GLOBAL PATEN GEVILLE ROAD	n t via US Mail. TS UP4110	ill be sent	
Fax Number: <i>Correspondence will & using a fax number, if</i> Email: Correspondent Name: Address Line 1: Address Line 4:	be sent to t provided; U G 1 C	<i>if that is unsuccess</i> S_CIPKOP@GSK.CO LAXOSMITHKLINE (250 SOUTH COLLEG	f ul, it will be sei DM GLOBAL PATEN GEVILLE ROAD	n t via US Mail. TS UP4110	ill be sent	
Fax Number: <i>Correspondence will & using a fax number, if</i> Email: Correspondent Name: Address Line 1: Address Line 4:	De sent to t provided; U G 1 C UMBER:	<i>if that is unsuccess</i> S_CIPKOP@GSK.CO LAXOSMITHKLINE (250 SOUTH COLLEG OLLEGEVILLE, PEN	f ul, it will be sei DM GLOBAL PATEN GEVILLE ROAD NSYLVANIA 194	n t via US Mail. TS UP4110	ill be sent	
Fax Number: <i>Correspondence will & using a fax number, if</i> Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET N	De sent to t provided; U G 1 C UMBER:	<i>if that is unsuccess</i> S_CIPKOP@GSK.CO LAXOSMITHKLINE (250 SOUTH COLLEG OLLEGEVILLE, PEN VN55039D1	f ul, it will be sei DM GLOBAL PATEN GEVILLE ROAD NSYLVANIA 194	n t via US Mail. TS UP4110	ill be sent	
Fax Number: <i>Correspondence will & using a fax number, if</i> Email: Correspondent Name: Address Line 1:	De sent to t provided; U G 1 C UMBER:	if that is unsuccess S_CIPKOP@GSK.CO LAXOSMITHKLINE O 250 SOUTH COLLEG OLLEGEVILLE, PEN VN55039D1 ABIGAIL HEDLE	f ul, it will be sei DM GLOBAL PATEN GEVILLE ROAD NSYLVANIA 194	n t via US Mail. TS UP4110	ill be sent	
Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER: SIGNATURE:	De sent to t provided; U G 1 C UMBER:	if that is unsuccess S_CIPKOP@GSK.CO LAXOSMITHKLINE (2000) 250 SOUTH COLLEG OLLEGEVILLE, PEN VN55039D1 ABIGAIL HEDLE /Abigail Hedley/	f ul, it will be sei DM GLOBAL PATEN GEVILLE ROAD NSYLVANIA 194	n t via US Mail. TS UP4110	ill be sent	
Fax Number: <i>Correspondence will b</i> <i>using a fax number, if</i> Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER: SIGNATURE: DATE SIGNED: Total Attachments: 3 source=VN55039D1_US	provided; provided; U G 1 C UMBER:	if that is unsuccess S_CIPKOP@GSK.CO LAXOSMITHKLINE O 250 SOUTH COLLEG OLLEGEVILLE, PEN VN55039D1 ABIGAIL HEDLE /Abigail Hedley/ 02/24/2020	f ul, it will be sei DM GLOBAL PATEN GEVILLE ROAD NSYLVANIA 194	n t via US Mail. TS UP4110	ill be sent	
Fax Number: <i>Correspondence will &</i> <i>using a fax number, if</i> Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET N NAME OF SUBMITTER: SIGNATURE: DATE SIGNED: Total Attachments: 3	De sent to a provided; U G 1 C UMBER: _Assignme _Assignme	if that is unsuccess S_CIPKOP@GSK.CO LAXOSMITHKLINE O 250 SOUTH COLLEG OLLEGEVILLE, PEN VN55039D1 ABIGAIL HEDLE /Abigail Hedley/ 02/24/2020 nt_Chain#page4.tif nt_Chain#page5.tif	f ul, it will be sei DM GLOBAL PATEN GEVILLE ROAD NSYLVANIA 194	n t via US Mail. TS UP4110	ill be sent	

ASSIGNMENT OF PATENT APPLICATION

Whereas NOVARTIS VACCINES AND DIAGNOSTICS SRL, a corporation of the country of Italy and having a place of business at Via Fiorentina 1, I-53100, Siena, Italy, ("ASSIGNOR") and Novartis AG, a corporation of the country of Switzerland and 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"):

Patent No.

<u>Application No.</u> 61/608,293 Filing Date March 8, 2012 Issue Date

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

PATENT REEL: 059906 FRAME: 0524

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 Siena, Italy this 30^{44} day of March, 2012.

Novartis Vaccines and Diagnostics SRL

Signature

Name: Stephen John Eves Evans Title: Attorney-in-Fact

Witness

Witness

PATENT REEL: 059906 FRAME: 0325 Case No. PAT055039-US-PSP

ACCEPTANCE OF ASSIGNMENT

With reference to the Assignment to NOVARTIS AG of an invention entitled "IN VITRO POTENCY ASSAY FOR PROTEIN-BASED MENINGOCOCCAL VACCINES" signed by Novartis Vaccines and Diagnostics SRL; this will certify that NOVARTIS AG accepts such Assignment.

NOVARTIS AG By: Name: Melodi K. Dice Nafra Bates Function: Authorized Representative Authorized Representative

Date:

PATENT REEL: 059906 FRAME: 0326

RECORDED: 02/24/2020