

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
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EPAS ID: PAT3321201

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
Name		Execution Date
NOVARTIS INTERNATIONAL PHARMACEUTICAL LTD.		03/30/2015
RECEIVING PARTY DATA		
Name:	NOVARTIS AG	
Street Address:	LICHTSTRASSE 35	
City:	HAMILTON	
State/Country:	BERMUDA	
Postal Code:	92121	
PROPERTY NUMBERS Total: 5		
Property Type	Number	
Patent Number:	7253166	
Patent Number:	8592433	
Patent Number:	8927281	
Application Number:	13857939	
Application Number:	13383962	
CORRESPONDENCE DATA		
Fax Number:		
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.</i>		
Phone:	858-812-1525	
Email:	JCLARKE@GNF.ORG	
Correspondent Name:	JILL R CLARKE	
Address Line 1:	GNF, 10675 JOHN JAY HOPKINS DRIVE	
Address Line 4:	SAN DIEGO, CALIFORNIA 92121	
ATTORNEY DOCKET NUMBER:	IRM TSRI	
NAME OF SUBMITTER:	JILL R CLARKE	
SIGNATURE:	/JILL R CLARKE/	
DATE SIGNED:	04/22/2015	
Total Attachments: 5		
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CONFIRMATORY PATENT ASSIGNMENT

This confirmatory PATENT ASSIGNMENT ("**Confirmatory Assignment**") is dated March ~~30~~ 2015, and entered into by and between Novartis International Pharmaceutical Ltd., a company organized under the laws of Bermuda having a place of business at 131 Front Street, Hamilton, HM 12, Bermuda ("**Assignor**") and Novartis AG, a corporation organized under the laws of Switzerland having a place of business at Lichtstrasse 35, 4056 Basel, Switzerland ("**Assignee**"). Assignor and Assignee are collectively referred to herein as the "**Parties**."

WHEREAS, as of January 5, 2015, Assignor merged with IRM LLC, a limited liability company incorporated in the State of Delaware, whose address is 131 Front Street, Hamilton, HM 12, Bermuda, as evidenced by a copy of the relevant certificate of merger attached as **Schedule A** hereto; thereby becoming owner and successor-in-interest by merger to the patent rights of patent applications in the name of IRM LLC listed in **Schedule B** attached hereto, and associated rights.

WHEREAS, pursuant to the Patent Assignment between Assignor and Assignee dated February 19, 2015 (the "**Assignment**") but deemed to have an effect on January 5, 2015 (the "**Effective Date**"), the Assignor assigned to Assignee, and Assignee acquired from Assignor, the Assignor's title in and to the patent rights listed in **Schedule B** attached hereto.

NOW, THEREFORE, the Parties agree as follows:

1. Assignor hereby confirms having sold, transferred, conveyed, assigned, and delivered to Assignee, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the title Assignor held, or may come to hold, in any jurisdiction worldwide, in and to (i) the patent rights listed in **Schedule B** hereto, (ii) all reissues, divisions, continuations, continuations-in-part, extensions, renewals, reexaminations, national registrations and foreign counterparts of the foregoing, and (iii) all supplemental protection certificates and patent term extensions relying on or connected to any of the foregoing, (the foregoing (i), (ii) and (iii) comprising the "**Assigned Patents**") and (iv) all right as title holder to claim priority from any of the Assigned Patents and (v) all right as title holder to sue at law or in equity for any past, present, and future infringement, abuse, misappropriation, violation, or other impairment thereof of the Assigned Patents.

2. Assignee hereby confirms having accepted such title.

3. The Parties hereby request and authorize the authority at the relevant national patent office to record Assignee as the recorded holder of title, legal owner, registered owner, assignee, and/or applicant, as the case may be, of the Assigned Patents.

IN WITNESS WHEREOF, the Parties hereto have caused this Confirmatory Assignment to be executed on this 30 day of March, 2015.

Agreed and accepted by:

NOVARTIS INTERNATIONAL
PHARMACEUTICAL LTD.

NOVARTIS AG

By: [Signature]
Name:
Title: Kelly Stritenberger, authorized signatory

By: [Signature]
Name: Chihang Amy Smith
Title: Authorized Signatory

By: [Signature]
Name:
Title: Denise Cooper, Authorized Signatory

By: [Signature]
Name: DANIEL RAYMOND
Title: SR. PATENT AGENT
Authorized Signatory

WITNESS to NOVARTIS
INTERNATIONAL PHARMACEUTICAL
LTD.

WITNESS to NOVARTIS AG

By: [Signature]
Witness Name: Andra JACQUIN

By: [Signature]
Witness Name: SUSAN SESNOVICH

By: [Signature]
Witness Name: Cindy Klepacky

By: [Signature]
Witness Name: Jill R Clarke

Schedule A

(Copy of Certificate of Merger on following page)

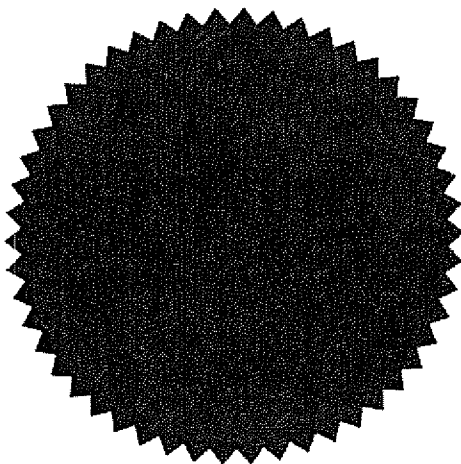


**BERMUDA
CERTIFICATE OF MERGER**

In accordance with the provisions of Section 108 of the Companies Act, 1981 ("Act"), I
HEREBY issue this Certificate of Merger to the surviving company bearing the name

Novartis International Pharmaceutical Ltd.

consequent upon the merger of IRM, LLC (a Delaware Limited Liability Company) and
Novartis International Pharmaceutical Ltd. effective the 5th day of January 2015.



Given under my hand and the Seal of
the REGISTRAR OF COMPANIES
this 5th day of January 2015

for Registrar of Companies

Schedule B

Case reference	Filing Date	Filing Number	Grant Date	Grant Number
PAT033268-US-NP	22 Apr 2004	10/829804	07 Aug 2007	7253166
PAT034790-US-PCT	20 Oct 2006	12/088649	26 Nov 2013	8592433
PAT052976-US-DIV	05 Apr 2013	13/857939		
PAT052976-US-NP	29 Oct 2009	12/608946	06 Jan 2015	8927281
PAT054235-US-PCT	13 Jul 2010	13/383962		