

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	HONG XU	08/30/2011
RECEIVING PARTY DATA		
Name:	NOVARTIS AG	
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State/Country:	SWITZERLAND	
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PROPERTY NUMBERS Total: 1		
Property Type	Number	
Application Number:	13976628	
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NAME OF SUBMITTER:	DANIEL S. MATTHEWS	
SIGNATURE:	/Daniel S. Matthews/	
DATE SIGNED:	03/11/2014	
Total Attachments: 2		
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(sole)

Patent Case PAT054186-US-PSP

ASSIGNMENT

For good and valuable consideration, the receipt and adequacy of which are hereby acknowledged, I

Hong Xu

at

1000 Davit Lane, Unit 104
Redwood City, CA 94065

do hereby sell, assign and transfer to Novartis AG, a company organized under the laws of the Swiss Confederation, of Lichtstrasse 35, 4056 Basel, Switzerland, (hereinafter referred to as the "**ASSIGNEE**") and its successors, assigns and legal representatives, all of my right, title and interest for all countries of the world in and to (1) all of my inventions and discoveries described in the patent application(s) titled

PHOTODEFINED APERTURE PLATE AND METHOD FOR PRODUCING THE SAME

and filed in the United States Patent and Trademark Office on December 28, 2010 and accorded Application Number 61/427,715*, (2) the patent application identified in (1), (3) the right to file patent applications on said inventions and discoveries in the name of **ASSIGNEE** or their designees or in my name, at their election and in accordance with applicable law in all countries and regions, (4) for all patent applications, all rights of priority based upon the patent application identified in (1) in all countries and regions under the Paris Convention for the Protection of Industrial Property, the Inter-American Convention relating to Inventions, Patents, Designs, and Industrial Models and all other international agreements to which the United States now is or hereafter becomes a signatory and, if the patent application identified in (1) is a provisional patent application, under 35 USC 119(e), (5) all patent applications in all countries and regions claiming the priority of the patent application identified in (1) and only one or more inventions and/or discoveries disclosed in said patent application (including national stages of any international patent application), (6) all continuations and divisions of any non-provisional patent application identified in (1) and any patent application within the scope of (5) (including further continuations and divisions such as, but not limited to, continuations of continuations and continuations of divisions), ((2), (5) and (6) hereinafter referred to collectively as "patent applications"), (7) all patents that are granted on any of said patent applications, (8) all registrations and confirmations of, and importation certificates based upon, one or more of said patents and applications for such registrations, confirmations and importation certificates and (9) all reissues, renewals and extensions of said patents, registrations, confirmations and importation certificates, reexamination certificates issued for said patents and supplementary protection certificates based upon said patents and applications for such reissues, renewals, extensions, reexamination certificates and supplementary protection certificates, the same to be held and enjoyed by said **ASSIGNEES** and their successors, assigns and legal representatives to the full ends of the terms for which said patents, registrations, confirmations, importation certificates, reexamination certificates, supplementary protection certificates, reissues, renewals and extensions may be granted, as fully and entirely as the same would have been held and enjoyed by me if this sale, assignment and transfer had not been made.

*I hereby authorize **ASSIGNEE** and their representatives to insert in this Assignment the filing date and Application Number of said provisional or non-provisional patent application when notified thereof.

And I hereby covenant and agree that I will, at any time, (i) upon the request, but at the expense, of **ASSIGNEE** or their successors, assigns or legal representatives 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, supplementary protection certificates and applications within the scope of (8) and (9) in **ASSIGNEE** or their successors, assigns or legal representatives, including the execution and procurement of all further documents evidencing this sale, 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, (ii) upon the request, but at the expense, of **ASSIGNEE** or their successors, assigns or legal representatives execute all additional patent applications within the scope of (5) and (6) and all applications within the scope of (8) and (9) and (iii) make all rightful oaths and declarations and do all lawful acts required for procuring the same or for aiding therein, without further compensation, but at the expense of **ASSIGNEE** or their successors, assigns or legal representatives.

Executed this 30 day of August, 2011.

Hong Xu L.S.
Hong Xu

Witnessed:

Miao Yu
Print Name: MIAO YU
Date: 30 Aug 11