

**PATENT ASSIGNMENT**

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
Alexander V. Goncharov	07/17/2008
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	National University of Ireland, Galway
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<b>City:</b>	Galway
<b>State/Country:</b>	IRELAND
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	12139602
<b>CORRESPONDENCE DATA</b>	
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<b>ATTORNEY DOCKET NUMBER:</b>	84-08
<b>NAME OF SUBMITTER:</b>	Susan K. Doughty
<b>Total Attachments: 3</b>	
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**CH \$40.00 12139602**

**ASSIGNMENT  
TO NATIONAL UNIVERSITY OF IRELAND, GALWAY**

WHEREAS, I:

1. **Alexander V. GONCHAROV**, residing at 67 Riasc na Ri, Old Ragoon Road, Galway, Ireland;

(herein called "ASSIGNOR"), am an inventor of the invention entitled:

**"Inverse Optical Design";**

for which the following patent application:

Application Type	Application Serial No.	Filing Date
United States Patent Application	12/139,602	June 16, 2008

was submitted or filed (collectively, the "LISTED APPLICATION");

AND WHEREAS, **NATIONAL UNIVERSITY OF IRELAND, GALWAY** (herein called "ASSIGNEE"), an entity organized and existing under the laws of Ireland, having a principal place of business at:

University Road  
Galway, IRELAND,

is desirous of obtaining my entire right, title and interest in, to and under the said invention and the said application;

NOW, THEREFORE, for good and valuable consideration the receipt of which is hereby acknowledged, I, the said ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, our entire right, title and interest in, to and under the said invention, and said application herein, including said LISTED APPLICATION and all continuations and subsequent applications, including divisional applications thereof, and national phase applications as applicable; and all Patents of the United States which may be granted thereon and all reissues and extensions; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention in any country or countries foreign to the United States; together with the right to file such applications and the right to claim for the same the priority of patent application(s) herein, including said LISTED APPLICATIONS and applications thereof and therefrom, applications for industrial protection under the International Convention

for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application is filed, as may be applicable; and applications thereof and therefrom; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention in any country or countries foreign to the United States and all extensions, renewals and reissues thereof;

AND I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

AND I HEREBY covenant and agree that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith;

AND I HEREBY authorize the above-mentioned ASSIGNEE or its legal representative to insert in this instrument the filing date and serial number of said application(s) or any other information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document;

AND I HEREBY further covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me/us respecting said invention, and testify in any legal proceeding, sign all lawful papers, execute all continuing and subsequent applications, including divisional, reissue and foreign applications, make all rightful oaths, and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain, maintain, and enforce proper protection for said invention in any and all countries;

IN TESTIMONY WHEREOF, I hereunto set my hand and seal (if applicable) the day and year set opposite my signature.

<b>Inventor</b>	
Date: <u>17 July 2008</u>	<u><i>Alexander Goncharov</i></u> <b>ALEXANDER V. GONCHAROV</b>
<b>Certificate of Witness</b>	
I acknowledge that I was personally present and did see the above person, who is personally known to me, duly execute the above assignment on the date therein set forth.	
Signature of Witness	<u><i>Patrick Vincent Kelly</i></u>
Printed Name of Witness	<u>PATRICK VINCENT KELLY</u>
Address of Witness	<u>Ignite Technology Transfer NUI Galway</u> <u>University Road, Galway, IRELAND</u>

Additional sheets for additional inventors: No