

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Christopher H. GREIN</td> <td>04/17/2008</td> </tr> <tr> <td>Silviu VELICU</td> <td>04/16/2008</td> </tr> <tr> <td>Sivalingam SIVANANTHAN</td> <td>04/16/2008</td> </tr> </tbody> </table>		Name	Execution Date	Christopher H. GREIN	04/17/2008	Silviu VELICU	04/16/2008	Sivalingam SIVANANTHAN	04/16/2008
Name	Execution Date								
Christopher H. GREIN	04/17/2008								
Silviu VELICU	04/16/2008								
Sivalingam SIVANANTHAN	04/16/2008								
RECEIVING PARTY DATA									
Name:	EPIR Technologies, Inc.								
Street Address:	590 Territorial Drive								
Internal Address:	Unit B								
City:	Bolingbrook								
State/Country:	ILLINOIS								
Postal Code:	60440								
PROPERTY NUMBERS Total: 1									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12105082</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12105082				
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Application Number:	12105082								
CORRESPONDENCE DATA									
Fax Number:	(630)434-0444								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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ATTORNEY DOCKET NUMBER:	33176.000004								
NAME OF SUBMITTER:	Patricia Romanelli								

CH \$40.00 12105082

Total Attachments: 3

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PATENT
REEL: 020820 FRAME: 0455

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ASSIGNMENT

WHEREAS, We, the undersigned joint inventors of residence as listed, having invented a certain new and useful improvement as below entitled, for which we have applied for a United States patent, said application having been identified with Attorney Docket No. 33176.000004 and entitled NONEQUILIBRIUM PHOTODETECTORS WITH SINGLE CARRIER SPECIES BARRIERS; and

WHEREAS, EPIR TECHNOLOGIES, INC. (hereinafter referred to as "Assignee"), a corporation of the state of Illinois, with an address of 590 Territorial Drive, Unit B, Bolingbrook, Illinois, desires to acquire our entire right, title and interest in and to the invention, and in and to said application and any patent that may issue thereon;

NOW, THEREFORE, for and in consideration of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, we assign to Assignee, all right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all divisions, reissues, continuations, and continuations-in-part thereof; and we authorize and request the Director of the United States Patent and Trademark Office to issue all patents for said invention, insofar as our interest is concerned, to Assignee.

We also assign to Assignee, all right, title and interest in and to the invention disclosed in said application throughout the world, including the right to file applications for and obtain patents, utility models, industrial models and designs for said invention in EPIR TECHNOLOGIES, INC.'s own name throughout the world including all rights to publish cautionary notices reserving ownership of said invention and all rights to register said invention in appropriate registries; and we further agree to execute any and all powers of attorney, applications, assignments, declarations, affidavits, and any other papers in connection therewith necessary to perfect such right, title and interest in Assignee.

We will communicate to Assignee any facts known to us respecting any improvements; and, at the expense of Assignee, we will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, continuation-in-part, reissue and substitute applications, make lawful oaths and declarations, and generally do everything possible to vest title in Assignee and to aid Assignee to obtain and enforce proper protection for said invention in all countries.

This Assignment shall be binding on the parties' successors, assigns and legal representatives.

Title of Invention: NONEQUILIBRIUM PHOTODECTOR
WITH SUBERLATTICE EXCLUSION
LAYER

Patent Application Serial No.: 10/354,687

Attorney Docket No.: 303176-00003

Signature of Inventor:  _____

Inventor's Name: Christopher H. GREIN

Residence (City, Province or State, Country): 230 Bates Street
Wheaton, Illinois 60187

Date of Assignment: 4/17/08

Signature of Inventor:  _____

Inventor's Name: Silviu VELICU

Residence (City, Province or State, Country): 1047 Hinswood Drive
Darien, IL 60561

Date of Assignment: 04/16/08

Signature of Inventor:



Inventor's Name:

Sivalingam SIVANANTHAN

Residence (City, Province or State, Country):

1416 Dunrobin Road
Naperville, Illinois 60540

Date of Assignment:

4/16/08