

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Hans Frieder Schleiermacher</td> <td>01/11/2013</td> </tr> <tr> <td>Birger Zimmermann</td> <td>01/11/2013</td> </tr> </tbody> </table>		Name	Execution Date	Hans Frieder Schleiermacher	01/11/2013	Birger Zimmermann	01/11/2013				
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Birger Zimmermann	01/11/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Fraunhofer-Gesellschaft zur Forderung der Angewandten Forschung E.V</td> </tr> <tr> <td>Street Address:</td> <td>Hansastrasse 27c, 8086 Munchen</td> </tr> <tr> <td>City:</td> <td>Munich</td> </tr> <tr> <td>State/Country:</td> <td>GERMANY</td> </tr> <tr> <td>Postal Code:</td> <td>8086</td> </tr> </table>		Name:	Fraunhofer-Gesellschaft zur Forderung der Angewandten Forschung E.V	Street Address:	Hansastrasse 27c, 8086 Munchen	City:	Munich	State/Country:	GERMANY	Postal Code:	8086
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PROPERTY NUMBERS Total: 1											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13808268</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13808268						
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CORRESPONDENCE DATA											
<p>Fax Number: 2194641166 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 219-462-4999 Email: domenica@hartmanglobal-IP.com Correspondent Name: Hartman Global IP Law Address Line 1: 2621 Chicago St., Ste. A Address Line 4: Valparaiso, INDIANA 46383</p>											
ATTORNEY DOCKET NUMBER:	B2-3809										
NAME OF SUBMITTER:	Domenica N.S. Hartman										
Signature:	/Domenica N.S. Hartman/										
Date:	04/18/2013										

CH \$40.00 13808268

Total Attachments: 4

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Docket No. B2-3809

COMBINED DECLARATION AND ASSIGNMENT
FOR UTILITY OR DESIGN PATENT APPLICATION

As the below named inventor, I hereby declare that:

This declaration and assignment are directed to:

PATTERNING

- the specification of which is attached hereto OR
 United States application or PCT international application number
13/808,268 filed on January 4, 2013, claiming benefit to
PCT/GB11/51259 filed July 4, 2011.
(I hereby authorize and request the Company or its delegated attorneys or agents to
insert above the application number and filing date of the application when known.)

The above-identified application was made or authorized to be made by us.

We believe that we are original joint inventors of a claimed invention in the application.

We hereby acknowledge that any willful false statement made in this declaration is punishable
under 18 USC § 1001 by fine or imprisonment of not more than five (5) years, or both.

We have reviewed and understand the contents of the above-identified application,
including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose information which is material to the patentability of this
application as defined in 37 CFR § 1.56, including, for continuation-in-part applications, material
information which became available between the filing date of the prior application and the filing
date of the continuation-in-part application.

In accordance with our obligation(s) under an Employee Innovation and Proprietary Information
Agreement or (as applicable) arising out of other agreements (such as, but not limited to, the
Services Agreement between Fraunhofer-Gesellschaft zur Forderung der Angewandten
Forschung E.V, a German corporation, and our employers), and/or for other good and valuable
consideration of which we acknowledge receipt, I/we,

Inventor First Name	Inventor Middle Name	Inventor Last Name		Residence Town	Residence State	Residence Country
Hans Frieder		Schleiermacher	of	Freiburg		DE
Birger		Zimmermann	Of	Freiburg im Breisgau		DE

*Hans-
Frieder
12.01.13
B. Schleiermacher*

Docket No. B2-3809

hereby sell and assign to:

Name of Company: Fraunhofer-Gesellschaft zur Forderung der Angewandten Forschung E.V
Entity Type (optional):
Address: Hansastrasse 27c, 8086 Munchen, Munich, Germany

herein referred to as "Company", its successors and assigns our entire respective rights, titles and interests in and to the invention and improvements made or conceived by us described in the application(s) listed above and in the following table:

Country of Filing	Type of Filing	Application Number	Filing Date	Title
GB		1011282.9	07/05/2010	

(We hereby authorize and request the Company or its delegated attorneys or agents to insert above the application number and filing date of the application(s) when known.)

and any and all applications for patent and patents therefrom in any and all countries, including all divisions, continuations, continuations-in-part, reexaminations, renewals, and reissues thereof, and all rights of priority resulting from the filing of the application(s), and authorize and request any official whose duty it is to issue patents, to issue any patent on the inventions and improvements resulting therefrom to the Company, or its successors or assigns, and agree that on request and without further consideration, we will communicate to the Company or its representatives or nominees any facts known to us respecting the inventions and improvements and testify in any legal proceeding, make all rightful oaths, sign all lawful papers and execute all instruments or documents required or requested for the making and prosecution of any applications of any type for patent, utility model, or other similar rights in all countries including, but not limited to, any provisional, non-provisional, continuation, continuation-in-part, divisional, renewal or substitute thereof, for any derivation proceedings relating thereto, and, as to any patents that issue from such applications, for any supplemental examination, derivation proceeding, opposition, post grant review, reissue, re-examination, inter parties review, or extension thereof, and generally do everything possible to aid the Company, its successors, assigns, and nominees to obtain and enforce proper patent protection for the invention and its improvements in all countries.

Remuneration claims of the inventor(s)/assignor(s) potentially arising from German Law on Employee Inventions, or any other respective country law, remain unaffected by this assignment.

INVENTOR 1

Docket No. B2-3809

Signature: H. Schleiermacher
Hans-Frider Schleiermacher

Date: 11.01.2013

*11.1.13
H. Schleiermacher*

Witnessed by: Felix Stecler
Signature

Date: 11.01.2013

FELIX STECLER
Printed Name of Witness

Witnessed by: Sebastian Muhlbaek
Signature

Date: 11.1.2013

Sebastian Muhlbaek
Printed Name of Witness

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

_____ Date: _____

Hans-Frider Schleiermacher

STATE OF _____
COUNTY OF _____ ss.

This _____ day of _____, _____ before me personally came the above-named **Hans-Frider Schleiermacher**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal _____
(Notary Public)

Docket No. B2-3809

INVENTOR 2

Signature: [Signature]
Birger Zimmermann

Date: 11.01.13

Witnessed by: [Signature]
Signature

Date: 11.07.13

FELIX STELZL
Printed Name of Witness

Witnessed by: [Signature]
Signature

Date: 11.1.13

Sebastian Kuhlborn
Printed Name of Witness

SECTION BELOW IS FOR USE ONLY IF SIGNING IN PRESENCE OF A NOTARY

_____ Date: _____

Birger Zimmermann

STATE OF _____
COUNTY OF _____ ss.

This _____ day of _____, _____ before me personally came the above-named **Birger Zimmermann**, to me personally known as the individual who executed the foregoing assignment, who acknowledged to me that he/she executed the same of his/her own free will for the purposes therein set forth.

Seal

(Notary Public)