

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>Erhard Dick</td> <td>10/24/2012</td> </tr> <tr> <td>Joerg Hinrich Fechner</td> <td>10/24/2012</td> </tr> </tbody> </table>		Name	Execution Date	Erhard Dick	10/24/2012	Joerg Hinrich Fechner	10/24/2012
Name	Execution Date						
Erhard Dick	10/24/2012						
Joerg Hinrich Fechner	10/24/2012						
RECEIVING PARTY DATA							
Name:	Schott AG						
Street Address:	Hattenbergstrasse 10						
City:	Mainz						
State/Country:	GERMANY						
Postal Code:	55122						
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>13594945</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13594945		
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Application Number:	13594945						
CORRESPONDENCE DATA							
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<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>							
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NAME OF SUBMITTER:	Charles N. J. Ruggiero						
Total Attachments: 3 source=0008696ASSIGN#page1.tif source=0008696ASSIGN#page2.tif source=0008696ASSIGN#page3.tif							

CH \$40.00 13594945

ASSIGNMENT

FOR valuable and legally sufficient considerations, receipt of which is hereby acknowledged, we, **ERHARD DICK**, a citizen of Germany, and a resident of Am Trottacker 23, 95701 Pechbrunn, Germany, and **JOERG HINRICH FECHNER**, a citizen of Germany, and a resident of Feldbergstrasse 30, 55118 Mainz, Germany have co-invented certain new and useful improvements in

BOROSILICATE GLASS COMPOSITION FOR PRODUCING GLASS TUBES AND ITS USE FOR PRODUCING GLASS TUBES AND AS OUTER TUBE FOR LAMPS

hereby assign to **SCHOTT AG**, a German corporation having its principal office at Hattenbergstrasse 10, 55122 Mainz, Germany (hereinafter referred to as "Assignee"), the entire right, title and interest in and to such invention, together with the patent rights and rights of protection to the same throughout the world, including any patent rights which may result from the application for United States Letters Patent which was filed in the United States Patent and Trademark Office on **August 27, 2012**, and assigned U.S. Application Serial No. **13/594,945**, and any continuation, divisions, continuation-in-part applications, inventor's certificates and extensions thereof, preparatory to obtaining Letters Patent of the United States therefor; said invention, application and Letters Patent to be held and enjoyed by said Assignee for its own use and behoof and for the use and behoof of its successors and assigns, to the full end of the term for which said Letters Patent or other rights of protection may be granted as entirely as the same would have been held and enjoyed by us had the assignment not been made.

AND WE COVENANT and AGREE and WARRANT that we have full and unencumbered title to the invention hereby assigned, and we further covenant and agree that we have the right to grant such rights to said invention and application and Letters Patent and that we will, at any time upon request without cost to us or further compensation, execute and deliver any and all papers or instruments that, in the

opinion of the Assignee, may be necessary or desirable to secure said Assignee the full enjoyment of the rights and properties herein conveyed or intended to be conveyed by this instrument.

IN WITNESS WHEREFORE, we have hereunto set our hands and seal:

Date: 10/24/2012

[Signature]
By: ERHARD DICK

Date: 10/24/2012

[Signature]
Witness Signature

Jutta Gross
Witness Printed Name
Helmholtzweg 10
Witness Address
65428 Kuesselheim
Germany

0008696USU/4149

USSN 13/594,945

Date: 24.10.2012


By: JOERG HINRICH FECHNER

Date: 24.10.2012


Witness Signature

WESTENHOFF
Witness Printed Name
NEROSTR 38
Witness Address
65483 WIESBADEN
GERMANY