

## 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>Rainer Krause</td><td>01/04/2010</td></tr><tr><td>Gerd Pfeiffer</td><td>12/23/2009</td></tr><tr><td>Thorsten Muehge</td><td>01/04/2010</td></tr><tr><td>Hans-Juergen Eickelmann</td><td>01/04/2010</td></tr><tr><td>Michael Haag</td><td>01/06/2010</td></tr><tr><td>Markus Schmidt</td><td>01/04/2010</td></tr></tbody></table>	Name	Execution Date	Rainer Krause	01/04/2010	Gerd Pfeiffer	12/23/2009	Thorsten Muehge	01/04/2010	Hans-Juergen Eickelmann	01/04/2010	Michael Haag	01/06/2010	Markus Schmidt	01/04/2010	
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Michael Haag	01/06/2010														
Markus Schmidt	01/04/2010														
RECEIVING PARTY DATA															
Name:	International Business Machines Corporation														
Street Address:	New Orchard Road														
City:	Armonk														
State/Country:	NEW YORK														
Postal Code:	10504														
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>12594146</td></tr></tbody></table>	Property Type	Number	Application Number:	12594146											
Property Type	Number														
Application Number:	12594146														
CORRESPONDENCE DATA															
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PATENT  
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Total Attachments: 6

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**ASSIGNMENT**

Whereas, the undersigned Inventor(s) has/have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") in:

Title of the Invention: **BACKSIDE CONTACTING ON THIN LAYER PHOTOVOLTAIC CELLS**

and further identified by the IBM Docket Number provided above in the header of this Assignment, for which an application for a United States Patent was executed concurrently herewith or was filed having:

Application No.: 12/594,146, filed on 9/30/2009; and amended on 9/30/2009.


Whereas, International Business Machines Corporation, a corporation of New York having a place of business at Armonk, New York (herein referred to as "IBM"), desires to acquire, and each undersigned Inventor desires to grant to IBM, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned Inventor ("ASSIGNOR") hereby sells, assigns, and otherwise transfers to IBM (the "ASSIGNEE"), its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned Inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to IBM, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by IBM, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned Inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in IBM, its successors, legal representatives, and assigns, whenever requested by IBM, its successors, legal representatives, or assigns.

Each undersigned Inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to IBM and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned Inventor also hereby grants IBM, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of New York, and any disputes will be resolved in a New York state court or federal court sited in New York.

[Inventor Signature Page(s) Follows]

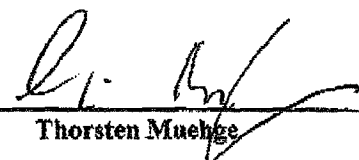
Executed by Inventor 1

Signature:  Date: 01/04/10  
Rainer Krause

Executed by Inventor 2

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Gerd Pfeiffer


Executed by Inventor 3

Signature:  Date: 4.1. 2010  
Thorsten Muehge

Executed by Inventor 4

Signature:  Date: 4.1. 2010  
Hans-Juergen Eickelmann

Executed by Inventor 5

Signature:  Date: 6.1.2010  
Michael Haag

Executed by Inventor 6

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Signature: M. Schmidt Date: 01/04/10  
Markus Schmidt

**ASSIGNMENT**

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[Inventor Signature Page(s) Follows]

Executed by Inventor 1

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
**Rainer Krause**

Executed by Inventor 2

Signature: Gerd Pfeiffer Date: 12/23/09  
**Gerd Pfeiffer**

Executed by Inventor 3

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
**Thorsten Muehge**

Executed by Inventor 4

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
**Hans-Juergen Eickelmann**

Executed by Inventor 5

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
**Michael Haag**

**Executed by Inventor 6**

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Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
**Markus Schmidt**