

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
EFFECTIVE DATE:	07/14/2006
CONVEYING PARTY DATA	
Name	Execution Date
Bruce John Chamberlin	07/12/2006
Mitchell G. Ferrill	07/12/2006
Roger Scott Krabbenhoft	07/10/2006
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	
Property Type	Number
Application Number:	11457492
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NAME OF SUBMITTER:	Robert R. Williams
Total Attachments: 2	

CH \$40.00 11457492

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PATENT
REEL: 017933 FRAME: 0673

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ASSIGNMENT

Whereas, we

- | | | |
|-----|-------------------------|---|
| (1) | Bruce John Chamberlin | City of Vestal
and State of New York |
| (2) | Mitchell G. Ferrill | City of Little Meadows
and State of Pennsylvania |
| (3) | Roger Scott Krabbenhoft | City of Rochester
and State of Minnesota |

have invented certain improvements in:

**ENHANCED-RELIABILITY PRINTED CIRCUIT BOARD FOR TIGHT-PITCH
COMPONENTS**


and executed, respectively, a United States patent application therefor on

- | | | | | | |
|-----|----------|------|-----|----------|------|
| (1) | July 12, | 2006 | (2) | July 12, | 2006 |
| (3) | July 10, | 2006 | | | |

And whereas, INTERNATIONAL BUSINESS MACHINES CORPORATION, a corporation of New York, having a place of business at Armonk, New York 10504, (hereinafter called IBM), desires to acquire the entire right, title and interest in the said application and invention, and to any United States and foreign patents to be obtained therefor;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, I, the above named, hereby sell, assign, and transfer to IBM, its successors and assigns, the entire right, title and interest in the said application and invention therein disclosed for the United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the inventions set forth in said applications to IBM, its successors and assigns; and we hereby agree that IBM may apply for foreign Letters Patent on said invention and we will execute all papers necessary in connection with the United States and foreign applications when called upon to do so by IBM.

(1) at Endicott, New York
on 7/12 2006


(Bruce John Chamberlin) Signature
First Name Middle Last Name Inventor

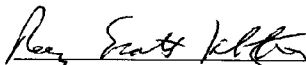
and (2) at Endicott, New York
on 7/12/ 2006



(Mitchell G. Ferrill)
First Name MI Last Name

Signature
Inventor

and (3) at Rochester, Minnesota
on 7/10/06 2006



(Roger Scott Krabbenhoft)
First Name Middle Last Name

Signature
Inventor