

# PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Jeff David Thomas	07/30/2008
Paul Daniel Kangas	07/30/2008
Dean Frederick Herring	07/30/2008
RECEIVING PARTY DATA	
Name:	International Business Machines Corporation
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State/Country:	NEW YORK
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PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	12182234
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<p>Total Attachments: 2</p> <p>source=RPS920080209US1Assignment#page2.tif</p>	

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**PATENT**  
**REEL: 021313 FRAME: 0057**



**ASSIGNMENT**

Whereas, we,

(1) JEFF DAVID THOMAS  
County of WAKE

of RALEIGH  
and State of NORTH CAROLINA

(2) PAUL DAVID KANGAS  
County of WAKE

of RALEIGH  
and State of NORTH CAROLINA

(3) DEAN FREDERICK HERRING  
County of FRANKLIN

of YOUNGSVILLE  
and State of NORTH CAROLINA

have invented certain improvements in

**LAYERED DISPOSABLE AIR FILTER WITH DUST CAPTURE TOPOLOGY**

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

(Dates Inventors Signed Declaration) (1) 7/30, (2008); (2) 7/30, (2008);  
(3) 7/30, (2008).

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 therefore;

Now therefore, for a valuable consideration, receipt whereof is hereby acknowledged, we, 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 and foreign countries, and in all foreign countries, and all rights of priority resulting from the filing of said United States application, and we request the Commissioner of Patents to issue any Letters Patent granted upon the invention set forth in said application 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) Signed at RTP on 7/30, 2008.  
(City) (Date)

Jeff David Thomas  
Jeff David Thomas

(2) Signed at RTP on 7/30, 2008.  
(City) (Date)

Paul David Kangas  
Paul David Kangas

(3) Signed at RTP on 7/30, 2008.  
(City) (Date)

Dean Frederick Herring  
Dean Frederick Herring