

## PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:

NEW ASSIGNMENT

NATURE OF CONVEYANCE:

ASSIGNMENT

## CONVEYING PARTY DATA

Name	Execution Date
Eduard A. Cartier	10/22/2007
Rashmi Jha	10/23/2007
Sivananda Kanakasabapathy	10/22/2007
Xi Li	11/06/2007
Renee T. Mo	10/23/2007
Vijay Narayanan	10/22/2007
Vamsi Paruchuri	11/06/2007
Mark T. Robson	10/22/2007
Kathryn T. Schonenberg	10/19/2007
Michelle L. Steen	10/24/2007
Richard Wise	10/22/2007
Ying Zhang	10/22/2007

## 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:	11852906

## CORRESPONDENCE DATA

Fax Number: (516)742-4366

*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

Phone: 516-742-4343

Email: kleon@ssmp.com

PATENT

500405746

REEL: 020158 FRAME: 0632

CH \$40.00 11852906

Correspondent Name: SCULLY, SCOTT, MURPHY & PRESSER, P.C.  
Address Line 1: 400 GARDEN CITY PLAZA  
Address Line 2: SUITE 300  
Address Line 4: GARDEN CITY, NEW YORK 11530

ATTORNEY DOCKET NUMBER:	YOR920070336US1(21291)
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NAME OF SUBMITTER:	Leslie S. Szivos
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**Total Attachments: 24**

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ASSIGNMENT

Whereas, we

INVENTOR  
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(1) Eduard A. Cartier  
County of New York  
(2) Rashmi Jha  
County of Dutchess  
(3) Sivananda Kanakasabapathy  
County of Schenectady  
(4) Xi Li  
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County of Orange  
(12) Ying Zhang  
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and State of New York,  
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of New Windsor,  
and State of New York,  
of Yorktown Heights,  
and State of New York,

have invented certain improvements in

TITLE

DIELECTRIC SPACER REMOVAL

DATES THAT  
INVENTORS  
SIGNED THE  
DECLARATION

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

(1) 10/22/ 2007, (2) \_\_\_\_\_, 2007, (3) \_\_\_\_\_, 2007  
(4) \_\_\_\_\_, 2007, (5) \_\_\_\_\_, 2007, (6) \_\_\_\_\_, 2007  
(7) \_\_\_\_\_, 2007, (8) \_\_\_\_\_, 2007, (9) \_\_\_\_\_, 2007  
(10) \_\_\_\_\_, 2007, (11) \_\_\_\_\_, 2007, and (12) \_\_\_\_\_, 2007.

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, 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 inventions 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.

PATENT

REEL: 020158 FRAME: 0634

Signed and sealed

Eduard Cartier  
Eduard Cartier

on 10/22, 2007

Rashmi Jha

on \_\_\_\_\_, 2007

Sivananda Kanakasabapathy

on \_\_\_\_\_, 2007

Xi Li

on \_\_\_\_\_, 2007

Renee Mo

on \_\_\_\_\_, 2007

Vijay Narayanan

on \_\_\_\_\_, 2007

Vamsi Paruchuri

on \_\_\_\_\_, 2007

Mark T. Robson

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PATENT

REEL: 020158 FRAME: 0636

Signed and sealed

Eduard Cartier

*Rashmi Jha*

Rashmi Jha

Sivananda Kanakasabapathy

Xi Li

*Renee Mo*

Renee Mo

Vijay Narayanan

Vamsi Paruchuri

Mark T. Robson

Kathryn T. Schonenberg

Michelle Steen

Richard Wise

Ying Zhang

on \_\_\_\_\_, 2007

on 10/23/, 2007

on \_\_\_\_\_, 2007

on \_\_\_\_\_, 2007

on 10/23, 2007

on \_\_\_\_\_, 2007

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(7) \_\_\_\_\_, 2007, (8) \_\_\_\_\_, 2007, (9) \_\_\_\_\_, 2007  
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PATENT

REEL: 020158 FRAME: 0638

Signed and sealed

\_\_\_\_\_  
Eduard Cartier

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Rashmi Jha

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Sivananda Kanakasabapathy

on 22<sup>nd</sup> October, 2007

\_\_\_\_\_  
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on \_\_\_\_\_, 2007

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on \_\_\_\_\_, 2007



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PATENT

REEL: 020158 FRAME: 0640

Signed and sealed

\_\_\_\_\_  
Eduard Cartier

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Rashmi Jha

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Sivananda Kanakasabapathy

on \_\_\_\_\_, 2007

  
\_\_\_\_\_  
Xi Li

on 11/06, 2007

\_\_\_\_\_  
Renee Mo

on \_\_\_\_\_, 2007

\_\_\_\_\_  
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on \_\_\_\_\_, 2007

\_\_\_\_\_  
Ying Zhang

on \_\_\_\_\_, 2007

SF (LSS) DLP

Dkt# 21291

ASSIGNMENT

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PATENT

REEL: 020158 FRAME: 0642

Signed and sealed

Eduard Cartier

*Rashmi Jha*  
Rashmi Jha

Sivananda Kanakasabapathy

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*Renee Mo*  
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on \_\_\_\_\_, 2007

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**PATENT****REEL: 020158 FRAME: 0644**

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on \_\_\_\_\_, 2007

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Renee Mo

on \_\_\_\_\_, 2007

*Vijay Narayanan*  
\_\_\_\_\_  
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on *22<sup>nd</sup> October*, 2007

\_\_\_\_\_  
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ASSIGNMENT

Whereas, we

INVENTOR  
AND CITY

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(1) Eduard A. Cartier  
County of New York  
(2) Rashmi Jha  
County of Dutchess  
(3) Sivananda Kanakasabapathy  
County of Schenectady  
(4) Xi Li  
County of Westchester  
(5) Renee T. Mo  
County of Westchester  
(6) Vijay Narayanan  
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(7) Vamsi Paruchuri  
County of Albany  
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(9) Kathryn T. Schonenberg  
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(10) Michelle L. Steen  
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(11) Richard Wise  
County of Orange  
(12) Ying Zhang  
County of Westchester

of New York,  
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and State of New York,  
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and State of New York,  
of Albany,  
and State of New York,  
of Danbury,  
and State of Connecticut,  
of Wappingers Falls,  
and State of New York,  
of Danbury,  
and State of Connecticut,  
of New Windsor,  
and State of New York,  
of Yorktown Heights,  
and State of New York,

have invented certain improvements in

TITLE

DIELECTRIC SPACER REMOVAL

DATES THAT  
INVENTORS  
SIGNED THE  
DECLARATION

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

(1) \_\_\_\_\_, 2007, (2) \_\_\_\_\_, 2007, (3) \_\_\_\_\_, 2007  
(4) \_\_\_\_\_, 2007, (5) \_\_\_\_\_, 2007, (6) \_\_\_\_\_, 2007  
(7) November 6, 2007, (8) \_\_\_\_\_, 2007, (9) \_\_\_\_\_, 2007  
(10) \_\_\_\_\_, 2007, (11) \_\_\_\_\_, 2007, and (12) \_\_\_\_\_, 2007.

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;

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PATENT

REEL: 020158 FRAME: 0646

Signed and sealed

\_\_\_\_\_  
Eduard Cartier

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Rashmi Jha

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Sivananda Kanakasabapathy

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Xi Li

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Renee Mo

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Vijay Narayanan

on \_\_\_\_\_, 2007

\_\_\_\_\_  
*P. Vamsi Krishna*  
Vamsi Paruchuri

on November 6, 2007

\_\_\_\_\_  
Mark T. Robson

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Kathryn T. Schonenberg

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Michelle Steen

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Richard Wise

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Ying Zhang

on \_\_\_\_\_, 2007



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(7) \_\_\_\_\_, 2007, (8) 22 Oct 07, 2007, (9) \_\_\_\_\_, 2007  
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Sivananda Kanakasabapathy

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Xi Li

on \_\_\_\_\_, 2007

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Renee Mo

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Vijay Narayanan

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Vamsi Paruchuri

on \_\_\_\_\_, 2007

*Mark T. Robson*  
\_\_\_\_\_  
Mark T. Robson

on 22 Oct 07, 2007

\_\_\_\_\_  
Kathryn T. Schonenberg

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Michelle Steen

on \_\_\_\_\_, 2007

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Richard Wise

on \_\_\_\_\_, 2007

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(7) \_\_\_\_\_, 2007, (8) \_\_\_\_\_, 2007, (9) Oct. 19, 2007  
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PATENT

REEL: 020158 FRAME: 0650

Signed and sealed

\_\_\_\_\_  
Eduard Cartier

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Rashmi Jha

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Sivananda Kanakasabapathy

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Xi Li

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Renee Mo

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Vijay Narayanan

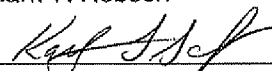
on \_\_\_\_\_, 2007

\_\_\_\_\_  
Vamsi Paruchuri

on \_\_\_\_\_, 2007

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Mark T. Robson

on \_\_\_\_\_, 2007

  
\_\_\_\_\_  
Kathryn T. Schonenberg

on Oct. 19, 2007

\_\_\_\_\_  
Michelle Steen

on \_\_\_\_\_, 2007

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Richard Wise

on \_\_\_\_\_, 2007

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Ying Zhang

on \_\_\_\_\_, 2007

ASSIGNMENT

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(4) \_\_\_\_\_, 2007, (5) \_\_\_\_\_, 2007, (6) \_\_\_\_\_, 2007  
(7) \_\_\_\_\_, 2007, (8) \_\_\_\_\_, 2007, (9) \_\_\_\_\_, 2007  
(10) October 24, 2007, (11) \_\_\_\_\_, 2007, and (12) \_\_\_\_\_, 2007.

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;

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PATENT

REEL: 020158 FRAME: 0652

Signed and sealed

\_\_\_\_\_  
Eduard Cartier

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Rashmi Jha

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Sivananda Kanakasabapathy

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Xi Li

on \_\_\_\_\_, 2007

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Renee Mo

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Vijay Narayanan

on \_\_\_\_\_, 2007

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Vamsi Paruchuri

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Mark T. Robson

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Kathryn T. Schonenberg

on \_\_\_\_\_, 2007

*Michelle Steen*  
\_\_\_\_\_  
Michelle Steen

on *October 24*, 2007

\_\_\_\_\_  
Richard Wise

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Ying Zhang

on \_\_\_\_\_, 2007

**ASSIGNMENT**

Whereas, we

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(1) Eduard A. Cartier  
County of New York  
(2) Rashmi Jha  
County of Dutchess  
(3) Sivananda Kanakasabapathy  
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**PATENT****REEL: 020158 FRAME: 0654**

Signed and sealed

\_\_\_\_\_  
Eduard Cartier

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Rashmi Jha

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Sivananda Kanakasabapathy

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Michelle Steen

on \_\_\_\_\_, 2007

  
\_\_\_\_\_  
Richard Wise

on Oct 22, 2007

\_\_\_\_\_  
Ying Zhang

on \_\_\_\_\_, 2007



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PATENT

REEL: 020158 FRAME: 0656

Signed and sealed

\_\_\_\_\_  
Eduard Cartier

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Rashmi Jha

on \_\_\_\_\_, 2007

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Sivananda Kanakasabapathy

on \_\_\_\_\_, 2007

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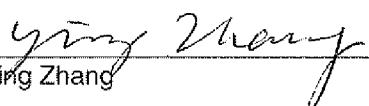
on \_\_\_\_\_, 2007

\_\_\_\_\_  
Michelle Steen

on \_\_\_\_\_, 2007

\_\_\_\_\_  
Richard Wise

on \_\_\_\_\_, 2007

  
\_\_\_\_\_  
Ying Zhang

on 10/22, 2007