

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT										
NATURE OF CONVEYANCE:	Corrective Assignment to correct the assignment document previously recorded on Reel 022452 Frame 0445. Assignor(s) hereby confirms the assignment of assignors interest.										
CONVEYING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 70%;">Name</th> <th style="width: 30%;">Execution Date</th> </tr> </thead> <tbody> <tr> <td>Ming-Da Tsai</td> <td>03/24/2010</td> </tr> <tr> <td>Arun Natarajan</td> <td>04/02/2010</td> </tr> </tbody> </table>		Name	Execution Date	Ming-Da Tsai	03/24/2010	Arun Natarajan	04/02/2010				
Name	Execution Date										
Ming-Da Tsai	03/24/2010										
Arun Natarajan	04/02/2010										
RECEIVING PARTY DATA											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>MEDIATEK INC.</td> </tr> <tr> <td>Street Address:</td> <td>No. 1, Dusing Rd. 1st, Science-Based Industrial Park</td> </tr> <tr> <td>City:</td> <td>Hsin-Chu</td> </tr> <tr> <td>State/Country:</td> <td>TAIWAN</td> </tr> </table>		Name:	MEDIATEK INC.	Street Address:	No. 1, Dusing Rd. 1st, Science-Based Industrial Park	City:	Hsin-Chu	State/Country:	TAIWAN		
Name:	MEDIATEK INC.										
Street Address:	No. 1, Dusing Rd. 1st, Science-Based Industrial Park										
City:	Hsin-Chu										
State/Country:	TAIWAN										
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Name:</td> <td>International Business Machines Corporation</td> </tr> <tr> <td>Street Address:</td> <td>New Orchard Road</td> </tr> <tr> <td>City:</td> <td>Armonk</td> </tr> <tr> <td>State/Country:</td> <td>NY</td> </tr> <tr> <td>Postal Code:</td> <td>10504</td> </tr> </table>		Name:	International Business Machines Corporation	Street Address:	New Orchard Road	City:	Armonk	State/Country:	NY	Postal Code:	10504
Name:	International Business Machines Corporation										
Street Address:	New Orchard Road										
City:	Armonk										
State/Country:	NY										
Postal Code:	10504										
PROPERTY NUMBERS Total: 1											
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>12411397</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	12411397						
Property Type	Number										
Application Number:	12411397										
CORRESPONDENCE DATA											
<p>Fax Number: (703)997-4517</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 3027291562</p> <p>Email: Patent.admin.uspto.cr@naipo.com</p> <p>Correspondent Name: WINSTON HSU</p> <p>Address Line 1: P.O.BOX 506</p> <p>Address Line 4: Merrifield, VIRGINIA 22116</p>											

501144411

PATENT
REEL: 024214 FRAME: 0835

CH \$40.00 12411397

ATTORNEY DOCKET NUMBER:	MTKP0767USA
NAME OF SUBMITTER:	SERENE CHANG
<p>Total Attachments: 12</p> <p>source=MTK-P0767-USA_Z3_NP072#page1.tif</p> <p>source=MTK-P0767-USA_Z3_NP072#page2.tif</p> <p>source=MTK-P0767-USA_Z3_NP072#page3.tif</p> <p>source=MTK-P0767-USA_Z3_NP072#page4.tif</p> <p>source=MTK-P0767-USA_Z3_NP072#page5.tif</p> <p>source=MTK-P0767-USA_Z3_NP072#page6.tif</p> <p>source=MTK-P0767-USA_Z3_NP072#page7.tif</p> <p>source=MTK-P0767-USA_Z3_NP072#page8.tif</p> <p>source=MTK-P0767-USA_Z3_NP072#page9.tif</p> <p>source=MTK-P0767-USA_Z3_NP072#page10.tif</p> <p>source=MTK-P0767-USA_Z3_NP072#page11.tif</p> <p>source=MTK-P0767-USA_Z3_NP072#page12.tif</p>	

ORIGINAL

USPTO. EPAS. Receipt

**United States Patent and Trademark Office**[Home](#) | [Site Index](#) | [Search](#) | [Guides](#) | [Contacts](#) | [eBusiness](#) | [eBiz alerts](#) | [News](#) | [Help](#)**Electronic Patent Assignment System**

Confirmation Receipt

Your assignment has been received by the USPTO.
The coversheet of the assignment is displayed below:

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Ming-Da Tsai	03/06/2009
Arun Natarajan	03/06/2009
RECEIVING PARTY DATA	
Name:	MEDIATEK INC.
Street Address:	No. 1, Dusing Rd. 1st, Science-Based Industrial Park
City:	Hsin-Chu
State/Country:	TAIWAN
Name:	International Business Machines Corporation
Street Address:	New Orchard Road
City:	Armonk
State/Country:	NEW YORK
Postal Code:	10504

ORIGINAL

USPTO, EPAS, Receipt

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12411397

CORRESPONDENCE DATA

Fax Number: (703)997-4517
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 3027291562
Email: Patent.admin.uspto.cr@naipo.com
Correspondent Name: WINSTON HSU
Address Line 1: P.O.BOX 506
Address Line 4: Merrifield, VIRGINIA 22116

ATTORNEY DOCKET NUMBER: MTKP0767USA

NAME OF SUBMITTER: WINSTON HSU

Signature: /WINSTON HSU/

Date: 03/26/2009

Total Attachments: 2
source=592486#page1.tif
source=592486#page2.tif

RECEIPT INFORMATION

EPAS ID: PAT834790
Receipt Date: 03/26/2009
Fee Amount: \$40

[Return to home page](#)

[Start another assignment from the same template](#)

[HOME](#) | [INDEX](#) | [SEARCH](#) | [BUSINESS](#) | [CONTACT US](#) | [PRIVACY STATEMENT](#)

ORIGINAL

PATENT

Docket No MTKP0767USA

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration.

ASSIGNOR(S) (Inventors):

Name: Ming-Da Tsai Nationality: TWN

Name: Arun Natarajan Nationality: IND

Hereby sells, assigns and transfers to

ASSIGNEE(S):

Name: MEDIATEK INC.

Address: No. 1, Dusing Rd. 1st, Science-Based Industrial Park, Hsin-Chu 300, Taiwan, R.O.C.

Name: International Business Machines Corporation

Address: New Orchard Road, Armonk, NY 10504, U.S.A

and the successors and assignees of the ASSIGNEE the entire right, title, and interest in and to any and all improvements which are disclosed in the invention entitled:

"REFLECTION-TYPE PHASE SHIFTER HAVING REFLECTION LOADS IMPLEMENTED
USING TRANSMISSION LINES AND PHASED-ARRAY RECEIVER/TRANSMITTER
UTILIZING THE SAME"

Which is found in :

- (a) + U.S. patent application executed on even date
(b) _____ U.S. patent application executed on _____
(c) _____ U.S. application serial no. _____
(d) _____ patent no. _____ issued _____

ORIGINAL

PATENT

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuations, continuation-in-part, divisions, renewals, substitutes, or extensions thereof, and as to Letters Patent any reissue or re-examination thereof

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the proposes thereof.

IN WITNESS WHEREOF, We have hereunto set hand and seal this 06 March 2009 (Date of signing). (請發明人務必簽署上列日期。)

(Type name of inventor)

Ming-Da Tsai

Arun Natarajan

Signature of INVENTOR

Ming-Da Tsai
Arun Natarajan

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Ming-Da Tsai, et al

Group Art Unit:

Serial No. 12/411,397

Examiner:

Filed: March 26, 2009

IBM Corporation
Anne Vachon Dougherty
3173 Cedar Road
Yorktown Hts, NY 10598

Title: REFLECTION-TYPE PHASE
SHIFTER HAVING REFLECTION LOADS
IMPLEMENTED USING TRANSMISSION
LINES AND PHASED-ARRAY
RECEIVER/TRANSMITTER UTILIZING THE SAME

ASSIGNMENT SUPPORT DOCUMENT

Commissioner for Patents
Sir:

Applicants submit herewith two new Assignments to replace the Assignment previously filed on March 26, 2009. In support of the two new Assignments, Applicants aver the following:

-that Applicant Ming-Da Tsai is an employee of MEDIATEK, Inc. and has a prior contractual obligation to assign his interest in his inventions solely to MEDIATEK, Inc.;

-that Applicant Arun Natarajan is an employee of International Business Machines Corporation (IBM) and has a prior contractual obligation to assign his interest in his inventions solely to IBM;

-that the Applicants are co-inventors of the subject invention, having developed the invention under a Joint Development Agreement between MEDIATEK and IBM;

-that the originally-filed Assignment, filed on March 26, 2009 (Acknowledgment Receipt attached), did not appropriately designate the respective Assignors and Assignees; and

MEDIATEK docket MTK1-08-094US 1
IBM docket YOR920080771US2

Docket No: MTKP0767USA

-that the currently-filed two new Assignments, one from Ming-Da Tsai to MEDIATEK and one from Arun Natarajan to IBM, appropriately designate the respective Assignors and Assignees for the subject invention.

Based on the foregoing facts and the new Assignments filed herewith, Applicants request entry of the new Assignments.

Respectfully submitted,

Ming-Da Tsai 2010/03/24
Ming-Da Tsai date

Arun Natarajan date

MEDIATEK docket MTK1-08-094US 2
IBM docket YOR920080771US2

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Ming-Da Tsai, et al

Group Art Unit:

Serial No. 12/411,397

Examiner:

Filed: March 26, 2009

IBM Corporation
Anne Vachon Dougherty
3173 Cedar Road
Yorktown Hts, NY 10598

Title: REFLECTION-TYPE PHASE
SHIFTER HAVING REFLECTION LOADS
IMPLEMENTED USING TRANSMISSION
LINES AND PHASED-ARRAY
RECEIVER/TRANSMITTER UTILIZING THE SAME

ASSIGNMENT SUPPORT DOCUMENT

Commissioner for Patents
Sir:

Applicants submit herewith two new Assignments to replace the Assignment previously filed on March 26, 2009. In support of the two new Assignments, Applicants aver the following:

- that Applicant Ming-Da Tsai is an employee of MEDIATEK, Inc. and has a prior contractual obligation to assign his interest in his inventions solely to MEDIATEK, Inc.;
- that Applicant Arun Natarajan is an employee of International Business Machines Corporation (IBM) and has a prior contractual obligation to assign his interest in his inventions solely to IBM;
- that the Applicants are co-inventors of the subject invention, having developed the invention under a Joint Development Agreement between MEDIATEK and IBM;
- that the originally-filed Assignment, filed on March 26, 2009 (Acknowledgment Receipt attached), did not appropriately designate the respective Assignors and Assignees; and

MEDIATEK docket MTK1-08-094US 1
IBM docket YOR920080771US2

Docket No: MTKP0767USA


-that the currently-filed two new Assignments, one from Ming-Da Tsai to MEDIATEK and one from Arun Natarajan to IBM, appropriately designate the respective Assignors and Assignees for the subject invention.

Based on the foregoing facts and the new Assignments filed herewith, Applicants request entry of the new Assignments.

Respectfully submitted,

Ming-Da Tsai

date



Arun Natarajan

2nd April 2010

date

MEDIATEK docket MTK1-08-094US 2
IBM docket YOR920080771US2

DOCKET NUMBER: MTKP0767USA
(MEDIATEK Docket: MTK1-08-094US)

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: **REFLECTION-TYPE PHASE SHIFTER HAVING REFLECTION
LOADS IMPLEMENTED USING TRANSMISSION LINES AND
PHASED-ARRAY RECEIVER/TRANSMITTER UTILIZING THE SAME**

and further identified by the MEDIATEK 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:

Serial Number: 12/411,397

Whereas, MEDIATEK, Incorporated, a corporation of Taiwan, R.O.C. having a place of business at Hsin-Chu, Taiwan (herein referred to as "MEDIATEK"), desires to acquire, and each undersigned Inventor desires to grant to MEDIATEK, 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 MEDIATEK (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 MEDIATEK, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by MEDIATEK, 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 MEDIATEK, its successors, legal representatives, and assigns, whenever requested by MEDIATEK, 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 MEDIATEK 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 MEDIATEK, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent application Serial Number) which may be necessary or desirable for recordation of this Assignment.

[Inventor Signature Page(s) Follows]

DOCKET NUMBER: MTKP0767USA
(MEDIATEK Docket: MTK1-08-094US)

Executed by Inventor 1

Signature: Ming-Da Tsai Date: 2010/03/24.
Ming-Da Tsai

DOCKET NUMBER: MTKP0767USA
(IBM DOCKET: YOR920080771US2)

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: **REFLECTION-TYPE PHASE SHIFTER HAVING REFLECTION LOADS IMPLEMENTED USING TRANSMISSION LINES AND PHASED-ARRAY RECEIVER/TRANSMITTER UTILIZING THE SAME**

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:

Serial Number: 12/411,397

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 Serial 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]

DOCKET NUMBER: MTKP0767USA
(IBM DOCKET: YOR920080771US2)

Executed by Inventor 1

Signature: 
Arun Natarajan

Date: 2nd April 2010