

Aity. Docket No. I-2-158.1US

FORM PTO-1619A  
Expires 06/30/99  
OMB 0651-0027

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

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**Conveyance Type**

Assignment  Security Agreement

License  Change of Name

Merger  Other \_\_\_\_\_

**U.S. Government**  
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Departmental File  Secret File

**Conveying Party(ies)**

Mark if additional names of conveying parties attached Execution Date  
Month Day Year

Name (line 1) RAJ MANI MISRA 10232001

Name (line 2) \_\_\_\_\_

**Second Party**

Mark if additional names of conveying parties attached Execution Date  
Month Day Year

Name (line 1) GREGORY S. TEAL 07252001

Name (line 2) \_\_\_\_\_

**Receiving Party**

Mark if additional names of receiving parties attached

Name (line 1) INTERDIGITAL TECHNOLOGY CORPORATION

Name (line 2) \_\_\_\_\_

Address (line 1) 300 DELAWARE AVENUE, SUITE 527

Address (line 2) \_\_\_\_\_

Address (line 3) WILMINGTON DE 19801  
City State/Country Zip Code

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

**Domestic Representative Name and Address**

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**PATENT**

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Expires 08/30/99  
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U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

**Correspondent Name and Address** Area Code and Telephone Number

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Address (line 1)

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**Pages** Enter the total number of pages of the attached conveyance document including any attachments. #

**Application Number(s) or Patent Number(s)**  Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)			Patent Number(s)		
<input type="text" value="09810596"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor. Month  Day  Year

**Patent Cooperation Treaty (PCT)**

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT  PCT  PCT

PCT  PCT  PCT

**Number of Properties** Enter the total number of properties involved. #

**Fee Amount** Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment: Enclosed  Deposit Account

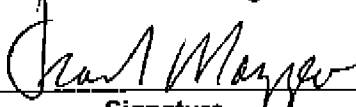
Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account.)

InterDigital Patent Corporation's Deposit Account Number: #

Authorization to charge additional fees: Yes  No

**Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

FRANK A. MAZZEO, ESQUIRE 

Name of Person Signing  Signature  Date

Reg. No. 46,259

Atty. Docket No. I-2-158.1US

**ASSIGNMENT**

WHEREAS, Raj Mani Misra, residing at 358 7th Avenue, #157, Brooklyn, NY 11215, United States of America, a citizen of India; and Gregory S. Teal, residing at 700 Cherry Trec Road, Apt. D-1, Aston, PA 19014, United States of America, a citizen of Canada (hereafter jointly and severally referred to as the undersigned), are the inventors of

**EFFICIENT SPREADER FOR SPREAD  
SPECTRUM COMMUNICATION SYSTEMS**

for which the undersigned have executed an application for United States Letters Patent, U.S. Patent Application No. 09/810,596, filed MARCH 16, 20001.

The undersigned hereby authorize assignee or assignee's representative to insert the Application Number and the filing date of this application if they are unknown at the time of execution of this assignment.

AND, WHEREAS, InterDigital Technology Corporation, a Delaware corporation, having its principal place of business at 300 Delaware Avenue, Suite 527, Wilmington, DE 19801, United States of America (hereafter referred to as the assignee), is desirous of acquiring the entire right, title and interest in said invention, all applications for and all letters patent issued on said invention.

NOW, THEREFORE, in consideration of One Dollar (\$1.00), receipt of which is acknowledged by the undersigned, and of other good and valuable consideration, the undersigned, intending to be legally bound, do hereby sell, assign and transfer to the assignee and assignee's successors, assigns and legal representatives the entire right, title and interest in said invention and all patent applications thereon, including, but not limited to, the application for United States Letters Patent entitled as above, and all divisions and continuations thereof, and in all letters patent, including all reissues thereof, throughout the world, including the right to claim priority under the Paris Convention.

It is agreed that the undersigned shall be legally bound, upon request of the assignee, to supply all information and evidence relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this instrument.

The undersigned warrant that the rights and property herein conveyed are free and clear of any encumbrance.

EXECUTED under seal on this 23<sup>rd</sup> day of October, 2000

at \_\_\_\_\_.

Witness:

\_\_\_\_\_

[Signature] (L.S.)  
Raj Mani Misra

State of New York

ss.

County of Suffolk

On this 23<sup>rd</sup> day of October, 2000 before me personally appeared Raj Mani Misra, to me known to be the persons described herein and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

[Signature]  
Notary Public

My Commission Expires:

**Laura J. Lopeck**  
**Notary Public, State of New York**  
**No. 01LO6004541**  
**Qualified in Nassau County**  
**Commission expires March 23 2007**

EXECUTED under seal on this \_\_\_\_\_ day of \_\_\_\_\_, 2000  
at \_\_\_\_\_.

Witness:

\_\_\_\_\_

\_\_\_\_\_(L.S.)  
Gregory S. Teal

State of \_\_\_\_\_

ss.

County of \_\_\_\_\_

On this \_\_ day of \_\_\_\_\_, 2000 before me personally appeared Gregory S. Teal,  
to me known to be the persons described herein and who executed the foregoing instrument,  
and acknowledged that he executed the same knowingly and willingly and for the purposes  
therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

\_\_\_\_\_  
Notary Public

My Commission Expires:

Atty. Docket No. I-2-158.1US

**ASSIGNMENT**

Raj Mani Misra, residing at 358 7<sup>th</sup> Avenue, #157, Brooklyn, NY 11215, a citizen of India and Gregory S. Teal, residing at 700 Cherry Tree Road, Apt. D1, Aston, PA 19014, a citizen of Canada (hereafter jointly and severally referred to as the undersigned), are the inventors of

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for which the undersigned have executed an application for United States Letters Patent, U.S. Patent Application No. 09/810,596, filed March 16, 2001.

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For good and valuable consideration, the receipt and sufficiency of which is acknowledged, the undersigned, intending to be legally bound, does hereby sell, assign and transfer to the assignee and assignee's successors, assigns and legal representatives the entire right, title and interest in said invention and all patent applications thereon, including, but not limited to, the application for United States Letters Patent entitled as above, and all divisions and continuations thereof, and in all letters patent, including all reissues thereof, throughout the world, including the right to claim priority under the Paris Convention.

It is agreed that the undersigned shall be legally bound, upon request of the assignee, to supply all information and evidence relating to the making and practice of said invention, to testify in any legal proceeding relating thereto, to execute all instruments proper to patent the invention throughout the world for the benefit of the assignee, and to execute all instruments proper to carry out the intent of this instrument.

The undersigned warrant that the rights and property herein conveyed are free and clear of any encumbrance.

EXECUTED under seal on this \_\_\_\_ day of \_\_\_\_\_, 2001  
at \_\_\_\_\_.

Witness:

\_\_\_\_\_  
Raj Mani Misra (L.S.)

State of \_\_\_\_\_

ss.

County of \_\_\_\_\_

On this \_\_ day of \_\_\_\_\_, 2001 before me personally appeared Raj Mani Misra, to me known to be the person described herein and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

\_\_\_\_\_  
Notary Public

My Commission Expires:

EXECUTED under seal on this 25<sup>th</sup> day of JULY, 2001  
at KING OF PRUSSIA, PA

Witness:

Robert Ruzella

Gregory S. Teal (L.S.)  
Gregory S. Teal

State of PENNSYLVANIA

ss.

County of MONTGOMERY

On this 25<sup>th</sup> day of JULY, 2001 before me personally appeared Gregory S. Teal, to me known to be the person described herein and who executed the foregoing instrument, and acknowledged that he executed the same knowingly and willingly and for the purposes therein contained.

Witness my hand and Notarial seal the day and year immediately above written.

Adrienne G. Juskalian

Notary Public

My Commission Expires:

Notarial Seal  
Adrienne G. Juskalian, Notary Public  
Philadelphia, Philadelphia County  
My Commission Expires June 15, 2002  
Member, Pennsylvania Association of Notaries

