

04-15-2008



103496681

To the Director of the U.S. Patent and Trademark Office. Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)/Execution Date(s):

Christopher D. MOFFATT
Anders MATTSSON
John W. PAJUNEN

Execution Date(s) 3/11/08 and 3/17/08

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Government Interest Assignment
☐ Executive Order 9424, Confirmatory License
☐ Other _____

2. Name and address of receiving party(ies)

Name: HARRIS CORPORATION

Internal Address: _____

Street Address: 1025 West NASA Blvd.

City: Melbourne

State: FL

Country: USA Zip: 32919

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application or patent number(s):

☐ This document is being filed together with a new application.

A. Patent Application No.(s)

12/060,283

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

5. Name and address to whom correspondence concerning document should be mailed:

Name: CHRISTOPHER F. REGAN, ESQ.

Internal Address: ALLEN, DYER, DOPPELT,
MILBRATH & GILCHRIST, P.A.

Street Address: 255 S ORANGE AVENUE SUITE 1401

City: ORLANDO

State: FL Zip: 32801

Phone Number: 407-841-2330

Fax Number: 407-841-2343

Email Address: cregan@addmg.com

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 1.21(h) & 3.41) \$ 40.00

- ☐ Authorized to be charged by credit card
☐ Authorized to be charged to deposit account
☐ Enclosed
☒ None required (government interest not affecting title)

8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 08-0870

Authorized User Name _____

9. Signature:

Signature

APRIL 9, 2008

Date

Richard K. WARTHER

61635

Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

5

Documents to be recorded (including cover sheet) should be faxed to (703) 306-5995, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

A S S I G N M E N T

WHEREAS, **Christopher D. MOFFATT** of Palm Bay, Florida; **Anders MATTSSON** of Mason, Ohio; and **John W. PAJUNEN** of Satellite Beach, Florida; hereinafter referred to as **ASSIGNORS**, have made certain improvements or inventions in **SYSTEM AND METHOD FOR COMMUNICATING DATA USING EFFICIENT FAST FOURIER TRANSFORM (FFT) FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING (OFDM) MODULATION**, for which **ASSIGNORS** have executed an application for United States Letters Patent filed herewith in the United States Patent and Trademark Office; and

WHEREAS, **HARRIS CORPORATION**, a Delaware corporation, hereinafter referred to as **ASSIGNEE**, is desirous of acquiring the same;

NOW THEREFORE, This Indenture Witnesseth: That for good and valuable consideration, receipt whereof is hereby acknowledged, said **ASSIGNORS** do hereby sell, assign and transfer to said **ASSIGNEE**, its successors and assigns, all right, title and interest in and to said United States Patent application, the invention or inventions therein shown and described and any improvements on said inventions heretofore or hereafter made, any divisions or continuations of said application, and all patents, United States and foreign, to be granted upon any such application or for the invention or inventions thereof, and any reissues, continuations or extensions of said patents; and said **ASSIGNORS** do hereby authorize and request the Commissioner of Patents to issue all patents on said United States Patent applications or for the invention or inventions hereof, in accordance with this assignment.

And said **ASSIGNORS** for said consideration hereby covenants and agrees that said **ASSIGNORS** are the owners of the

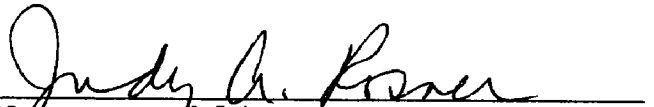
full title herein conveyed and have the right to convey the same, and agree that said **ASSIGNORS** will communicate to said **ASSIGNEE** any facts known to said **ASSIGNORS** respecting said invention or inventions, and testify in any legal proceedings when called upon by said **ASSIGNEE**, sign all lawful papers deemed by said **ASSIGNEE** as expedient to vest in it the legal title herein sought to be conveyed or for the filing and prosecution of all applications and patents, United States and foreign, and otherwise aid said **ASSIGNEE**, its successors and assigns, in obtaining full patent protection on said invention and enforcing proper protection under said patents, but in every instance at the **ASSIGNEE'S** expense.

In Witness Whereof, I have hereunto set my hand and seal this 11th day of March, 2008.

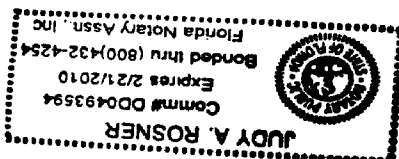

CHRISTOPHER D. MOFFATT

State of Florida :
County of Brevard : ss.

On this 11th day of March, 2008, before me personally appeared the above-named ASSIGNOR, **CHRISTOPHER D. MOFFATT**, to me personally known as the individual who executed the foregoing assignment, and who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.


Notary Public
My commission expires: 2/21/2010

S E A L



In Witness Whereof, I have hereunto set my hand
and seal this 17 day of March, 2008.

Anders Mattsson
ANDERS MATSSON

State of California:
: ss.
County of San Diego:

On this 17 day of March, 2008,
before me personally appeared the above-named ASSIGNOR, **ANDERS
MATSSON**, to me personally known as the individual who executed
the foregoing assignment, and who acknowledged to me that he
executed the same of his own free will for the purposes therein
set forth.

S E A L



Carrie Mazzola
Notary Public
My commission expires: JAN 3 2010

In Witness Whereof, I have hereunto set my hand
and seal this _____ day of _____, 2008.

JOHN W. PAJUNEN

State of _____:
: ss.
County of _____:

On this _____ day of _____, 2008,
before me personally appeared the above-named ASSIGNOR, **JOHN W.
PAJUNEN**, to me personally known as the individual who executed
the foregoing assignment, and who acknowledged to me that he
executed the same of his own free will for the purposes therein
set forth.

S E A L

Notary Public
My commission expires:

TO: ALLEN, DYER, DOPPELT, MILBRATH & GILCHRI COMPANY: 255 S ORANGE AVENUE

**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE



500501813

APRIL 02, 2008

PTAS

ALLEN, DYER, DOPPELT, MILBRATH & GILCHRI
255 S ORANGE AVENUE
SUITE 1401
ORLANDO, FL 32801

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF NON-RECORDATION OF DOCUMENT

DOCUMENT ID NO.: 500501813

THE ENCLOSED DOCUMENT HAS BEEN EXAMINED AND FOUND NON-RECORDABLE BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. THE REASON(S) FOR NON-RECORDATION ARE STATED BELOW. DOCUMENTS BEING RESUBMITTED FOR RECORDATION MUST BE ACCOMPANIED BY A NEW COVER SHEET REFLECTING THE CORRECT INFORMATION TO BE RECORDED AND THE DOCUMENT ID NUMBER REFERENCED ABOVE.

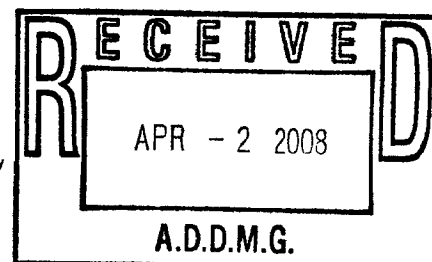
THE ORIGINAL DATE OF FILING OF THIS ASSIGNMENT DOCUMENT WILL BE MAINTAINED IF RESUBMITTED WITH THE APPROPRIATE CORRECTION(S) WITHIN 30 DAYS FROM THE DATE OF THIS NOTICE AS OUTLINED UNDER 37 CFR 3.51. THE RESUBMITTED DOCUMENT MUST INCLUDE A STAMP WITH THE OFFICIAL DATE OF RECEIPT UNDER 37 CFR 3. APPLICANTS MAY USE THE CERTIFIED PROCEDURES UNDER 37 CFR 1.8 OR 1.10 FOR RESUBMISSION OF THE RETURNED PAPERS, IF THEY DESIRE TO HAVE THE BENEFIT OF THE DATE OF DEPOSIT IN THE UNITED STATES POSTAL SERVICE.

SEND DOCUMENTS TO: U.S. PATENT AND TRADEMARK OFFICE,
MAIL STOP: ASSIGNMENT SERVICES BRANCH, P.O. BOX 1450, ALEXANDRIA, VA 22313.
IF YOU HAVE ANY QUESTIONS REGARDING THIS NOTICE,
YOU MAY CONTACT THE INDIVIDUAL WHOSE NAME APPEARS ON THIS NOTICE AT
571-272-3350.

1. DOCUMENT SUBMITTED IS NOT LEGIBLE FOR RECORDING PURPOSES.

TONYA LEE, EXAMINER
ASSIGNMENT SERVICES BRANCH
PUBLIC RECORDS DIVISION

P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.USPTO.gov



PATENT
REEL: 020814 FRAME: 0065

TO: ALLEN, DYER, DOPPELT, MILBRATH & GILCHRI COMPANY: 255 S ORANGE AVENUE

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.104/01/2008
500501813

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"><thead><tr><th>Name</th><th>Execution Date</th></tr></thead><tbody><tr><td>Christopher D. MOFFATT</td><td>03/11/2008</td></tr><tr><td>Anders MATSSON</td><td>03/17/2008</td></tr><tr><td>John W. PAJUNEN</td><td>03/11/2008</td></tr></tbody></table>		Name	Execution Date	Christopher D. MOFFATT	03/11/2008	Anders MATSSON	03/17/2008	John W. PAJUNEN	03/11/2008		
Name	Execution Date										
Christopher D. MOFFATT	03/11/2008										
Anders MATSSON	03/17/2008										
John W. PAJUNEN	03/11/2008										
RECEIVING PARTY DATA											
<table border="1"><tr><td>Name:</td><td>HARRIS CORPORATION</td></tr><tr><td>Street Address:</td><td>1025 W. Nasa Blvd.</td></tr><tr><td>City:</td><td>Melbourne</td></tr><tr><td>State/Country:</td><td>FLORIDA</td></tr><tr><td>Postal Code:</td><td>32919</td></tr></table>		Name:	HARRIS CORPORATION	Street Address:	1025 W. Nasa Blvd.	City:	Melbourne	State/Country:	FLORIDA	Postal Code:	32919
Name:	HARRIS CORPORATION										
Street Address:	1025 W. Nasa Blvd.										
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Postal Code:	32919										
PROPERTY NUMBERS Total: 1											
<table border="1"><thead><tr><th>Property Type</th><th>Number</th></tr></thead><tbody><tr><td>Application Number:</td><td>12060283</td></tr></tbody></table>		Property Type	Number	Application Number:	12060283						
Property Type	Number										
Application Number:	12060283										
CORRESPONDENCE DATA											
Fax Number: (407)841-2343 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone: 407-841-2330											
Email: creganoa@addmg.com											
Correspondent Name: ALLEN, DYER, DOPPELT, MILBRATH & GILCHRI											
Address Line 1: 255 S ORANGE AVENUE											
Address Line 2: SUITE 1401											
Address Line 4: ORLANDO, FLORIDA 32801											
ATTORNEY DOCKET NUMBER:	GCSD-1957 (61635)										
NAME OF SUBMITTER:	Richard K. Warther										
Total Attachments: 4 source=Assignment#page1.tif											

CH \$40.00 12060283

TO: ALLEN, DYER, DOPPELT, MILBRATH & GILCHRI COMPANY: 255 S ORANGE AVENUE

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source=Assignment#page4.tif

TO: ALLEN, DYER, DOPPELT, MILBRATH & GILCHRI COMPANY: 255 S ORANGE AVENUE

OCED-1457 (K1635)

A S S I G N M E N T

WHEREAS, Christopher D. NOFFATT of Palm Bay, Florida; Anders MATTESSON of Mason, Ohio; and John W. PAJUNEN of Satellite Beach, Florida; hereinafter referred to as ASSIGNORS, have made certain improvements or inventions in SYSTEM AND METHOD FOR COMMUNICATING DATA USING EFFICIENT FAST FOURIER TRANSFORM (FFT) FOR ORTHOGONAL FREQUENCY DIVISION MULTIPLEXING (OFDM) MODULATION, for which ASSIGNORS have executed an application for United States Letters Patent filed herewith in the United States Patent and Trademark Office; and

WHEREAS, HARRIS CORPORATION, a Delaware corporation, hereinafter referred to as ASSIGNEE, is desirous of acquiring the same;

NOW THEREFORE, This Indenture Witnesseth: That for good and valuable consideration, receipt whereof is hereby acknowledged, said ASSIGNORS do hereby sell, assign and transfer to said ASSIGNEE, his successors and assigns, all right, title and interest in and to said United States Patent application, the invention or inventions therein shown and described and any improvements on said inventions heretofore or hereafter made, any divisions or continuations of said application, and all patents, United States and foreign, to be granted upon any such application or for the invention or inventions thereof, and any reissues, continuations or extensions of said patents; and said ASSIGNORS do hereby authorize and request the Commissioner of Patents to issue all patents on said United States Patent applications or for the invention or inventions hereof, in accordance with this assignment.

And said ASSIGNORS for said consideration hereby covenants and agrees that said ASSIGNORS are the owners of the

TO: ALLEN, DYER, DOPPELT, MILBRATH & GILCHRI COMPANY: 255 S ORANGE AVENUE

GC95-1937 (41625)

full title herein conveyed and have the right to convey the same, and agree that said ASSIGNORS will communicate to said ASSIGNEE any facts known to said ASSIGNORS respecting said invention or inventions, and testify in any legal proceedings when called upon by said ASSIGNEE, sign all lawful papers deemed by said ASSIGNEE as expedient to vest in it the legal title herein sought to be conveyed or for the filing and prosecution of all applications and patents, United States and foreign, and otherwise aid said ASSIGNEE, its successors and assigns, in obtaining full patent protection on said invention and enforcing proper protection under said patents, but in every instance at the ASSIGNEE's expense.

In Witness Whereof, I have hereunto set my hand and seal this 11th day of March, 2008.

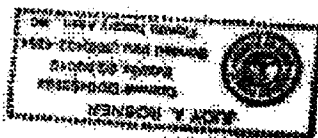
State of Florida :
County of Brevard : ss.

Christopher D. Moffatt
CHRISTOPHER D. MOFFATT

On this 11th day of March, 2008, before me personally appeared the above-named ASSIGNOR, CHRISTOPHER D. MOFFATT, to me personally known as the individual who executed the foregoing assignment, and who acknowledged to me that he executed the same of his own free will for the purposes therein set forth.

S E A L

Judy A. Rosen
Notary Public
My commission expires: 2/24/2010



TO: ALLEN, DYER, DOPPELT, MILBRATH & GILCHRI COMPANY: 255 S ORANGE AVENUE

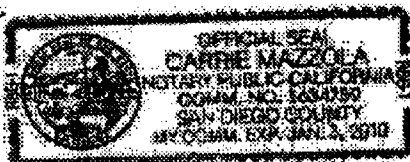
GC90-1957 (61635)

Witness Whereof, I have hereunto set my hand
and seal this 17 day of March, 2008.

State of California:
County of San Diego: ss.

On this 17 day of March, 2008,
before me personally appeared the above-named ASSIGNOR, **ANDERS
MATSSON**, to me personally known as the individual who executed
the foregoing assignment, and who acknowledged to me that he
executed the same of his own free will for the purposes therein
set forth.

S E A L



Carrie Mazzola
Notary Public

My commission expires: JAN 3 2010

In Witness Whereof, I have hereunto set my hand
and seal this _____ day of _____, 2008.

State of _____:
County of _____: ss.

JOHN W. PAJUNEN

On this _____ day of _____, 2008,
before me personally appeared the above-named ASSIGNOR, **JOHN W.
PAJUNEN**, to me personally known as the individual who executed
the foregoing assignment, and who acknowledged to me that he
executed the same of his own free will for the purposes therein
set forth.

S E A L

Notary Public

My commission expires:

TO: ALLEN, DYER, DOPPELT, MILBRATH & GILCHRI COMPANY: 255 S ORANGE AVENUE

OCED-1957 (61635)

In Witness Whereof, I have hereunto set my hand
and seal this _____ day of _____, 2008.

State of _____
County of _____ ss.

ANDERS MATSSON

On this _____ day of _____, 2008,
before me personally appeared the above-named ASSIGNOR, ANDERS
MATSSON, to me personally known as the individual who executed
the foregoing assignment, and who acknowledged to me that he
executed the same of his own free will for the purposes therein
set forth.

S E A L

Notary Public
My commission expires:

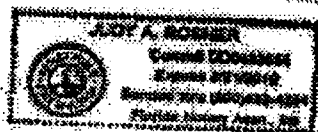
In Witness Whereof, I have hereunto set my hand
and seal this 11 day of March, 2008.

State of Florida ss.
County of Brevard

John W. Pajunen
JOHN W. PAJUNEN

On this 11th day of March, 2008,
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PAJUNEN, to me personally known as the individual who executed
the foregoing assignment, and who acknowledged to me that he
executed the same of his own free will for the purposes therein
set forth.

S E A L



John A. Korman
Notary Public
My commission expires: 2/21/2010

In re Patent Application of:)
MOFFATT ET AL.)
)
Serial No. 12/060,283)
)
Filing Date: April 1, 2008)
)
Confirmation No. 6328)
)
For: SYSTEM AND METHOD FOR)
COMMUNICATING DATA USING)
EFFICIENT FAST FOURIER)
TRANSFORM (FFT) FOR)
ORTHOGONAL FREQUENCY DIVISION)
MULTIPLEXING (OFDM) MODULATION)
)

RECEIVED
2008 APR 14 AM 10:42
OPR/FINANCE

REQUEST FOR CORRECTION OF
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

Mail Stop Assignment Services Branch
U.S. Patent & Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The Notice of Non-Recordation of Assignment Document for the subject patent application has been received and reviewed. Applicants hereby submit a more legible copy of the Assignment with a new cover sheet as requested by the Patent Office.

Also submitted is a copy of the Notice of Non-Recordation of Document, Document ID No. 500501813, with the original Assignment attached, which has been not been recorded.

In re Patent Application of:

MOFFATT ET AL.

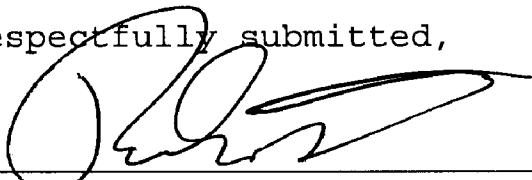
Serial No. 12/060,283

Filing Date: April 1, 2008

It is respectfully requested that a Notice of Recordation of Assignment Document be issued in this application in place of the prior Assignment submitted for recordation.

The filing fee of \$40.00 was submitted to the U.S. Patent and Trademark Office on April 1, 2008 via EFS-Web. Therefore, Applicants believe no fee is required. However, if any fee is believed to be necessary, authorization is given to charge Harris Corporation Deposit Account No. 08-0870.

Respectfully submitted,



RICHARD K. WARTHER

Reg. No. 32,180

Allen, Dyer, Doppelt, Milbrath &
Gilchrist, P.A.

255 S. Orange Avenue, Suite 1401

Post Office Box 3791

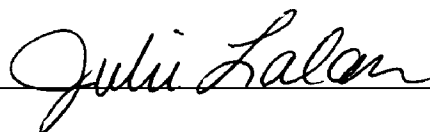
Orlando, Florida 32802

407/841-2330

Attorney for Applicant

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: **MAIL STOP ASSIGNMENT SERVICES BRANCH, U.S. PATENT & TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450**, on this 9th day of April, 2008.



PATENT

RECORDED: 04/14/2008

REEL: 020814 FRAME: 0073