

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

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>P. Vijay Kumar</td><td>02/13/2006</td></tr><tr><td>Reza Omrani</td><td>03/03/2006</td></tr><tr><td>Joseph D. Touch</td><td>03/07/2006</td></tr><tr><td>Alan E. Willner</td><td>04/05/2006</td></tr><tr><td>Poorya Saghari</td><td>03/03/2006</td></tr></tbody></table>		Name	Execution Date	P. Vijay Kumar	02/13/2006	Reza Omrani	03/03/2006	Joseph D. Touch	03/07/2006	Alan E. Willner	04/05/2006	Poorya Saghari	03/03/2006
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RECEIVING PARTY DATA													
<table border="1"><tr><td>Name:</td><td>University of Southern California</td></tr><tr><td>Street Address:</td><td>3716 South Hope Street</td></tr><tr><td>Internal Address:</td><td>Suite 313</td></tr><tr><td>City:</td><td>Los Angeles</td></tr><tr><td>State/Country:</td><td>CALIFORNIA</td></tr><tr><td>Postal Code:</td><td>90007-4344</td></tr></table>		Name:	University of Southern California	Street Address:	3716 South Hope Street	Internal Address:	Suite 313	City:	Los Angeles	State/Country:	CALIFORNIA	Postal Code:	90007-4344
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PROPERTY NUMBERS Total: 1													
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CORRESPONDENCE DATA													
Fax Number: (310)277-4730 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone: (310) 788-1569													
Email: jsbrown@mwe.com													
Correspondent Name: Marc E. Brown													
Address Line 1: McDermott Will & Emery LLP													
Address Line 2: 2049 Century Park East, Suite 3400													
Address Line 4: Los Angeles, CALIFORNIA 90067													
ATTORNEY DOCKET NUMBER:	28080-187												

CH \$40.00 11289259

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PATENT
REEL: 017517 FRAME: 0880

NAME OF SUBMITTER:

Marc E. Brown

Total Attachments: 4

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ASSIGNMENT

(Joint Inventors)

WHEREAS, we, P. Vijay Kumar, Reza Omrani, Joseph D. Touch, Alan E. Willner, and Poorya Saghari, ("ASSIGNORS") have invented "**CODE CYCLE MODULATION IN OPTICAL CODE DIVISION MULTIPLE ACCESS SYSTEMS**" ("Invention") for which we have filed a patent application ("Application") in the United States, Application Serial No. 11/289,259, filed November 29, 2005, which is based on and claims priority to Provisional Patent Application Serial No. 60/631,685, filed November 30, 2004;

WHEREAS, we are the joint inventors of the Invention;

WHEREAS, the University of Southern California, (ASSIGNEE) is a corporation organized and existing under the laws of California having a place of business at 3716 South Hope Street, Suite 313, Los Angeles, CA 90007-4344. ASSIGNEE desires to acquire the entire right, title and interest in and to the inventions, applications and letters patent to be granted and issued for the inventions and applications;

WHEREAS, ASSIGNEE desires to acquire the entire right, title and interest in and to the Invention and Application and to all patents based on the Application;

NOW, THEREFORE, for valuable consideration, the receipt and legal sufficiency of which ASSIGNORS acknowledge, ASSIGNORS have and hereby do assign and transfer to ASSIGNEE, its successors and assigns, the entire right, title and interest in and to:

1. The Invention;
2. The Application;
3. All applications based on or claiming priority from the Application, including all utility patent applications, divisionals and continuations ("Application Family");
4. All patents which may be granted on the Invention, Application and Application Family by the United States of America, its territories and possessions, and by all foreign countries, including all priority rights and all reissues thereof ("Patents"); and
5. The right to sue for past infringement of the Invention, Application, Application Family and Patents.

ASSIGNORS agree, at the request of ASSIGNEE, to sign any and all papers reasonably needed to file and prosecute the Application and Application Family, to obtain the Patents, and to perfect and vest in ASSIGNEE the entire right, title and interest in the Invention, Application, Application Family and Patents. ASSIGNORS also agree to provide assistance that is reasonably needed to prepare and prosecute the Application and Application Family.

ASSIGNORS authorize and empower ASSIGNEE, its successors and assigns, to apply for and obtain, in its own name, the Application, Application Family and Patents before competent International Authorities, including the World Intellectual Property Organization and in any and all foreign countries in which applications for patents can be made or patents obtained.

Feb 13
Dated: _____, 2006

P. V. Kumar.

Name: P. VIJAY KUMAR
Address: 42 Country Lane
Rolling Hills Estates, California 90274

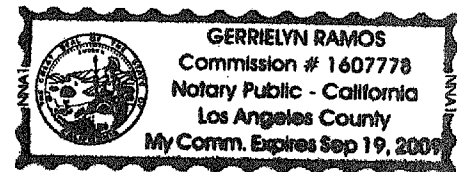
STATE OF CALIFORNIA)
) ss.
COUNTY OF LOS ANGELES)

On FEB. 13, 2006 before GERRIELYN RAMOS personally appeared P. Vijay Kumar
☒ personally known to me or ☐ proved to me on the basis of satisfactory evidence) to be the
person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that
he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their
signature(s) on the instrument, the person(s), or the entity upon behalf of which the person(s)
acted, executed the instrument.

WITNESS my hand and official seal.

Gerrielyn Ramos
Notary Public

(SEAL)



Dated: Feb, 2006

Reza Omrani
Name: REZA OMRANI
Address: 1137 West 27th Street
Los Angeles, California 90007

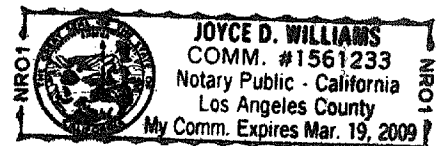
STATE OF CALIFORNIA)
) ss.
COUNTY OF LOS ANGELES)

On 3/3, 2006 before Joyce D. Williams personally appeared Reza Omrani
☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence) to be the
person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that
he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their
signature(s) on the instrument, the person(s), or the entity upon behalf of which the person(s)
acted, executed the instrument.

WITNESS my hand and official seal.

Joyce D. Williams
Notary Public

(SEAL)



Dated: Mar 7, 2006

Joseph D. Touch
 Name: JOSEPH D. TOUCH
 Address: 1101 John Street
 Manhattan Beach, California 90266

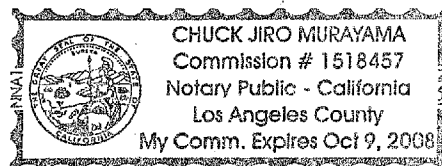
STATE OF CALIFORNIA)
) ss.
 COUNTY OF LOS ANGELES)

On March 7, 2006 before me, Chuck Jiro Murayama personally appeared Joseph D. Touch ☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument, the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Chuck Jiro Murayama
 Notary Public

(SEAL)

Dated: April 5, 2006

Alan E. Willner
 Name: ALAN E. WILLNER
 Address: 9326 Sawyer Street
 Los Angeles, California 90035

STATE OF CALIFORNIA)
) ss.
 COUNTY OF LOS ANGELES)

On April 5, 2006 before Gerridyn Ramos personally appeared Alan E. Willner ☒ personally known to me or ☐ proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that ~~he/she/they~~ executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument, the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

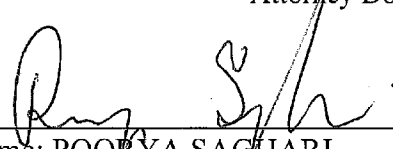
WITNESS my hand and official seal.

Gerridyn Ramos
 Notary Public

(SEAL)




Dated: 3/3, 2006


Name: POORYA SAGHARI
Address: 959 West Adams Boulevard, #40
Los Angeles, California 90007

STATE OF CALIFORNIA)
) ss.
COUNTY OF LOS ANGELES)

On 3/3, 2006 before Joyce D. Williams personally appeared Poorya Saghari
☐ personally known to me or ☒ proved to me on the basis of satisfactory evidence) to be the
person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that
he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their
signature(s) on the instrument, the person(s), or the entity upon behalf of which the person(s)
acted, executed the instrument.

WITNESS my hand and official seal.


Notary Public

(SEAL)

