

08-07-2001

FORM PTO-1595
(REV 6-93)

RECORD

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

OMB No. 0651-011 (exp.4/94)

101801418

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Kenneth MCGREER
Peter D. ASCANIO
Maria GUARDADO
Randal E. ZUGNONI

07/26/01

Additional name(s) of conveying
party(ies) attached? [] Yes [x] No

2. Name and address of receiving party(ies):

Name: Lightwave Microsystems Corporation

Internal Address: _____

Street Address: 2911 Zanker Road

City: San Jose

State/Country: California, U.S.A. ZIP: 95134

Additional name(s) & address(es) attached? [] Yes [x] No

4. Application number(s) or patent number(s):

09/915990

If this document is being filed together with a new application, the execution date of the application is: 7/26/01

A. Patent Application No.(s)

B. Patent No.(s)

Additional Numbers attached? [] Yes [x] No

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

Name: Gregory Turocy

Internal Address: _____

Street Address: Amin & Turocy, L.L.P.
24th Floor, 1900 East 9th Street

City: Cleveland

State: Ohio ZIP: 44114

6. Total number of applications and patents involved: [1]

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

[X] Enclosed

[] Authorized to be charged to deposit account

8. Deposit account number:

50-1063

(Attach duplicate copy of this page if paying by deposit account)

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9. 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.

Gregory Turocy

Name of Person Signing

Signature

July 26 2001
Date

Reg. No. 36,952 Total number of pages including cover sheet attachments, and document: [6]

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231PATENT
REEL: 012033 FRAME: 0318

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ASSIGNMENT

For good and valuable consideration received of the hereinafter named assignee, receipt of which is hereby acknowledged, the undersigned

Kenneth McGreer
843 Gregory Court
Fremont, California 94539

Peter D. Ascanio
45315 Parkmeadow Drive
Fremont, California 95139

Maria Guardado
2057 Laurelei Avenue
San Jose, California 95128

Randal E. Zugnoni
6854 Brighton Drive
Dublin, California 94568

hereby sell and assign to LIGHTWAVE MICROSYSTEMS CORPORATION, a corporation of California, having a place of business at 2911 Zanker Road, San Jose, California 95134, U.S.A., its successors and assigns, the entire right, title and interest, so far as concerns the United States and the Territories and Possessions thereof and all foreign countries, in and to the inventions entitled

**LIGHTWAVE CIRCUIT ASSEMBLY HAVING LOW DEFORMATION
BALANCED SANDWICH SUBSTRATE**

for which application for United States Letters Patent has been filed on _____ under Serial No. _____, or was executed by the undersigned on the date below and is being filed concurrently herewith, said application for United States Letters Patent, any and all other applications for Letters Patent on said inventions in countries foreign to the United States, including all divisional, renewal, substitute, continuation and Convention applications based in whole or in part upon said inventions or upon said applications, and any and all Letters Patent and reissues and extensions of Letters Patent granted for said inventions or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said applications and said Letters Patent; said assignee being hereby authorized to file patent applications in any or all countries on any or all said inventions in the name of the undersigned or in the name of said assignee or otherwise as said assignee may deem advisable, under the International Convention or otherwise; the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments being hereby authorized to issue or transfer all said Letters Patent to said assignee in accordance herewith; this assignment being under covenant, not only that full power to make the same is had by the undersigned, but also that such assigned right is not encumbered by any grant, license, or other right heretofore given, and that the undersigned will do all acts reasonably serving to assure that said inventions, patent applications and Letters Patent shall be held and enjoyed by said assignee as fully and entirely as the same could have been held and enjoyed by the undersigned if this assignment had not been made, and particularly to execute and deliver to said assignee all lawful documents including

petitions, specifications, oaths, assignments, invention disclaimers, and lawful affidavits in form and substance which may be requested by said assignee, to furnish said assignee with

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all facts relating to said inventions or the history thereof and any and all documents, photographs, models, samples or other physical exhibits which may be useful for establishing the facts of conception, disclosure and reduction to practice of said inventions, and to testify in any proceedings relating to said inventions, patent applications and Letters Patent.

ASSIGNMENT

Signed: Kenneth McGreer Date: 7/26/01
Kenneth McGreer

CERTIFICATE OF ACKNOWLEDGMENT

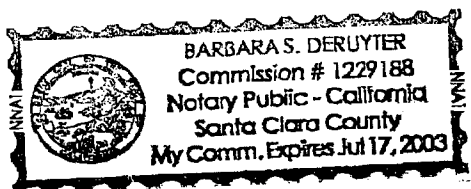
State of California

County of Santa Clara

On July 26, 2001 before me, Barbara S. deRuyter, Notary Public,

personally appeared Kenneth McGreer,

personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.



WITNESS my hand and official seal.

Barbara S. deRuyter
Signature of Notary Public

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Signed: Peter D. Ascanio Date: 7/26/01
Peter D. Ascanio

CERTIFICATE OF ACKNOWLEDGMENT

State of California

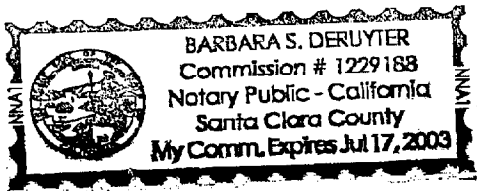
County of Santa Clara

On July 26, 2001 before me, Barbara S. deRuyter, Notary Public,

personally appeared Peter D. Ascanio,

__personally known to me - OR - __proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



Barbara S. deRuyter
Signature of Notary Public

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Signed: Maria Guardado
Maria GuardadoDate: 26 July 2001CERTIFICATE OF ACKNOWLEDGMENT

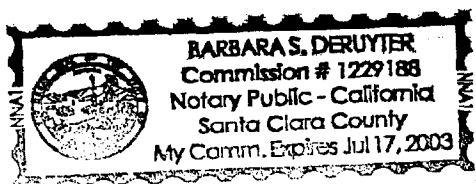
State of California

County of Santa Clara

On July 26, 2001 before me, Barbara S. deRuyter, Notary Public,

personally appeared Maria Guardado,

personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.



WITNESS my hand and official seal.

Barbara S. deRuyter
Signature of Notary Public

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Signed: Randal E. Zugnoni
Randal E. ZugnoniDate: 7/26/01CERTIFICATE OF ACKNOWLEDGMENT

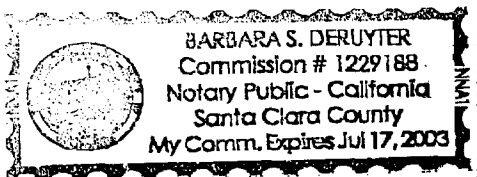
State of California

County of Santa Clara

On July 26, 2001 before me, Barbara S. deRuyter, Notary Public,

personally appeared Randal E. Zugnoni,

personally known to me to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.



WITNESS my hand and official seal.

Barbara S. deRuyter
Signature of Notary Public