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Form PTO-1595

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U.S. DEPARTMENT OF COMMERCE
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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Hilary S. Lackritz
Tony C. Kowalczyk
Yeong-Cheng Lee
David A.G. DeaconAdditional name(s) of conveying party(ies) attached? ☐ Yes ☐ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

August 10, 2001;
August 22, 2001; andExecution Date: September 25, 2001

2. Name and address of receiving party(ies)

Name: Gemfire Corporation

Internal Address: _____

Street Address: 2471 East Bayshore RoadCity: Palo Alto State: CA Zip: 94303Additional name(s) & address(es) attached? ☐ Yes ☒ No

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

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s)

09/828,278

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Charles B. KatzInternal Address: Gemfire CorporationStreet Address: 2471 East Bayshore RoadCity: Palo Alto State: CA Zip: 943036. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41).....\$ 40☒ Enclosed☐ Authorized to be charged to deposit account

8. Deposit account number:

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

DO NOT USE THIS SPACE

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.

Charles B. Katz, Reg. No. 36,564

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and documents: 4Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231PATENT
REEL: 012240 FRAME: 0434

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Hilary Sue Lackritz of 10952 Barranca Drive, Cupertino, CA 95014; Tony C. Kowalczyk of 1850 Ash Street, Palo Alto, CA 94306; Yeong-Cheng Lee of 802 Woodhams Oaks Place, Santa Clara, CA 95051 and David A.G. Deacon of 884 Santa Rita Ave., Los Altos, CA 94022; hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: OPTOELECTRONIC AND PHOTONIC DEVICES
 FORMED OF MATERIALS WHICH INHIBIT
 DEGRADATION AND FAILURE

Filing Date: April 5, 2001

Application No.: 09/828,278; and

WHEREAS, Gemfire Corporation, a corporation of the state of Delaware, located at 2471 East Bayshore Road, #600, Palo Alto, CA, 94303, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Townsend and Townsend and Crew LLP, Two Embarcadero Center, 8th Floor, San Francisco, CA 94111-3834, to insert herein above the application number and filing date of said application when known.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 8/10/01

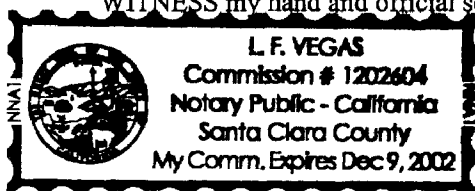
Hilary Sue Lackritz
Hilary Sue Lackritz

STATE OF CALIFORNIA)

COUNTY OF SANTA CLARA) SS.

On 8/10/01, before me, L.F. Vegas,
personally appeared Hilary Sue Lackritz, 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/she executed the same in his/her authorized capacity, and that by his/her 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.



L.F. Vegas
NOTARY PUBLIC

My Commission Expires: 12/9/02

Dated: Aug. 22, 01

Tony C. Kowalczyk
Tony C. Kowalczyk

STATE OF CALIFORNIA)

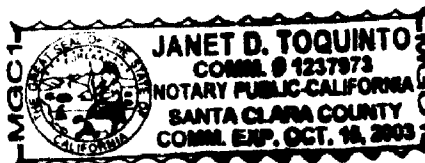
COUNTY OF Santa Clara) SS.

On August 22, 2001, before me, JANET D. TOQUINTO, Notary Public,
personally appeared Tony C. Kowalczyk, 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/she executed the same in his/her authorized capacity, and that by his/her 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.

Janet D. Toquinto
NOTARY PUBLIC

My Commission Expires: Oct. 15, 2003



Dated: 08/10/01

Yeong-Cheng Lee
Yeong-Cheng Lee

STATE OF CALIFORNIA)

COUNTY OF SANTA CLARA

SS.

On August 10, 2001, before me, L.F. VEGAS,
personally appeared Yeong-Cheng Lee, 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/she executed the same in his/her authorized capacity, and that by his/her 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.



My Commission Expires: 12/9/02

Dated: 9/28/01

[Signature]
NOTARY PUBLIC

[Signature]
David A.G. Deacon

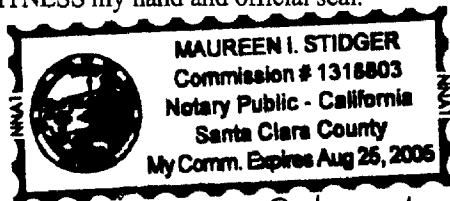
STATE OF CALIFORNIA)

COUNTY OF Santa Clara

SS.

On 9/24/01 ^{9/25/01} ^{M.S.}, before me, Maureen Stidger,
personally appeared David A.G. Deacon, 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/she executed the same in his/her authorized capacity, and that by his/her 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.



My Commission Expires: 8/25/05

[Signature]
NOTARY PUBLIC