

09-26-2001

Docket No.: 2736.2018-000

RECC



HEET

101855416

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

1. Name of conveying party(ies)

- (1) Hongbiao Zhang
(2) Frank J. Effenberger
(3) Kyoo Lee

9-20-01

2. Name and address of receiving party(ies)

Name: Quantum Bridge Communications, Inc.

Internal Address:

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

3. Nature of conveyance:

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

Street Address: Two Tech Drive

City: Andover State: MA ZIP: 01810

Execution Date: (1) 09/07/01 (2) 09/10/01 (3) 09/11/01

Additional 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)

09/932,850

B. Patent No.(s)

Additional numbers attached? ☐ Yes ☒ No

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

Name: Leo R. Reynolds, Esq.

Internal Address:

Hamilton, Brook, Smith & Reynolds, P.C.

Street Address: Two Militia Drive

City: Lexington State: MA ZIP: 02421-4799

6. Total number of applications and patents involved:

7. Total Fee (37 C.F.R. 3.41)..... \$ 40.00

- ☒ Enclosed
☒ Authorized to charge any deficiencies or credit any overpayment to deposit account
☐ Authorized to be charged to deposit account

8. Deposit account number:

08-0380

(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.

Timothy J. Meagher

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: [4]

09/25/2001 6TOM11 00000227 09932850

01 FC:581

40.00

PATENT
REEL: 012186 FRAME: 0899

JointASSIGNMENT

WHEREAS, we, **Hongbiao Zhang, Frank J. Effenberger and Kyoo Lee**, have invented a certain improvement in **METHOD AND APPARATUS FOR PATH SELECTION AND WAVELENGTH ASSIGNMENT IN AN OPTICAL NETWORK** described in an application for Letters Patent of the United States, the specification of which:

- ☐ is being executed on even date herewith and is about to be filed in the United States Patent Office;
- ☒ was filed on **August 17, 2001** as Application No. **09/932,850**;
- ☐ was patented under U.S. Patent No. ☐ on ☐.

WHEREAS, **Quantum Bridge Communications, Inc.** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of Delaware**, and having a usual place of business at **Two Tech Drive, Andover, Massachusetts, 01810** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____

Hongbiao Zhang

Hongbiao Zhang

State/Commonwealth _____

of MARIAH HUSKES

County of ESSEX

Then personally appeared before me the above-named **Hongbiao Zhang** and acknowledged that she executed the foregoing instrument as her free act and deed this 7th day of SEPTEMBER, 20 01.

(SEAL)

Matthew A. Pava
MATTHEW A. PAVA

Notary Public

(print name)

My Commission expires 5/17/2002

Inventor's Signature: _____

Frank J. Effenberger

State/Commonwealth

of MASSACHUSETTS

County of ESSEX

Then personally appeared before me the above-named **Frank J. Effenberger** and acknowledged that he executed the foregoing instrument as his free act and deed this 10TH day of SEPTEMBER, 2001.

(SEAL)

Martin W. Petru

Notary Public

MARTIN W. PETRU

(print name)

My Commission expires 5/17/2002

Inventor's Signature: _____

Kyoo Lee

State/Commonwealth

of MASSACHUSETTS

County of _____

Then personally appeared before me the above-named **Kyoo Lee** and acknowledged that he/she executed the foregoing instrument as his/her free act and deed this 11TH day of SEPTEMBER, 2001.

(SEAL)

Martin W. Petru

Notary Public

MARTIN W. PETRU

(print name)

My Commission expires 5/17/2002