

02-01-2000

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TO THE ASSISTANT COMMISSIONER FOR PATENTS: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies): (If multiple assignors, list numerically)

1. Bruce L. Carneal
2. Min Zhu
3. Steven H. Bradshaw

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

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

Name: Tachyon, Inc  
Street Address: 6225 Nancy Ridge Drive, Suite 101  
City: San Diego State: CA ZIP: 92121

Additional name(s) of receiving party(ies) attached?  
( ) Yes (X) No

3. Nature of conveyance:

- (X) Assignment  
( ) Merger  
( ) Security Agreement  
( ) Change of Name  
( ) Other:

Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in 1 above) 1. 12/16/99  
2. 12/16/99  
3. 12/16/99

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

( ) Application(s) filed herewith Execution Date(s):

(X) Patent Application No.: 09/407,645  
Filing Date: 09/28/99( ) Patent No.:  
Issue Date:

Additional numbers attached? ( ) Yes (X) No

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

Name: Mark M. Abumeri  
KNOBBE, MARTENS, OLSON & BEAR, LLP  
Customer No. 20,995  
Internal Address: Sixteenth Floor  
Street Address: 620 Newport Center Drive  
City: Newport Beach State: CA ZIP: 92660  
Attorney's Docket No.: TACHYON.039A

7. Total fee (37 CFR 3.41): \$40

(X) Enclosed

(X) Authorized to be charged to deposit account if any additional fees are required, or to credit any overpayment

8. Deposit account number: 11-1410

Please charge this account for any additional fees which may be required, or credit any overpayment to this account.

6. Total number of applications and patents involved: 1

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.

Mark M. Abumeri  
Name of Person Signing

Signature

Date

43,458  
Registration No.

Total number of pages including cover sheet, attachments and document: 3

Mail documents to be recorded with required cover sheet information to:

01/31/2000 DNGUYEN 00000233 09407645

01 FC:581

( 40.00 OP )

Assistant Commissioner for Patents  
Box Assignments  
Washington, D.C. 20231

ASSIGNMENT

(Moz)

WHEREAS, ~~We~~ Min Zhu, a U.S. citizen, residing at 10278-239 Wateridge Circle, San Diego, California 92121, Steven H. Bradshaw, a U.S. citizen, residing at 1161 Cleo Court, Escondido, California 92027, ~~Peoples Republic of China~~ have invented certain new and useful improvements in a METHOD AND SYSTEM FOR FREQUENCY SPECTRUM RESOURCE ALLOCATION for which we have filed an application for Letters Patent in the United States, Application Number 09/407,645, filed on September 28, 1999;

AND WHEREAS, Tachyon, Inc. (hereinafter "ASSIGNEE"), a Corporation, with its principal place of business at 6225 Nancy Ridge Drive, Suite 101, San Diego, California 92121, desires to acquire the entire right, title, and interest in and to the said improvements and the said Application:

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) each to us in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, we, the said inventors, do hereby acknowledge that we have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and we hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND WE HEREBY covenant and agree that we will communicate to the said ASSIGNEE, successors, legal representatives and assigns, any facts known to us respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 16<sup>th</sup> day of December 1999.

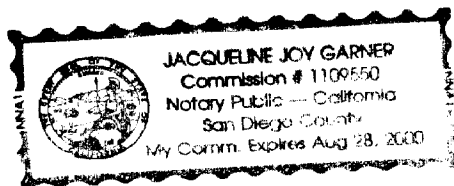
Bruce L. Carneal  
Bruce L. Carneal

STATE OF California  
COUNTY OF San Diego ] ss.

On 12.16.99, before me, Jacqueline Joy Garner <sup>Notary Public</sup>, personally appeared Bruce L. Carneal ~~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 executed the same in his authorized capacity(ies), and that by his 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.

[SEAL]



Jacqueline Joy Garner  
Notary Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 16<sup>th</sup> day of December 1999

Min Zhu  
Min Zhu

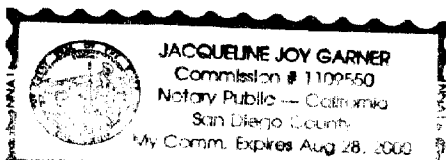
STATE OF California  
COUNTY OF San Diego

ss.

On 12.16.99, before me Jacqueline Joy Garner <sup>Notary Public</sup>, personally appeared Min Zhu 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 executed the same in his authorized capacity(ies), and that by his 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.

[SEAL]



Jacqueline Joy Garner  
Notary Signature

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 16<sup>th</sup> day of December 1999.

Steven H. Bradshaw  
Steven H. Bradshaw

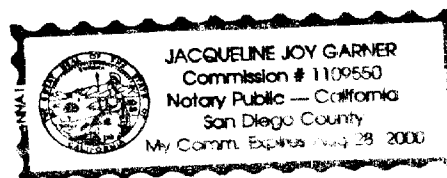
STATE OF California  
COUNTY OF San Diego

ss.

On 12.16.99, before me Jacqueline Joy Garner <sup>Notary Public</sup>, personally appeared Steven H. Bradshaw 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 executed the same in his authorized capacity(ies), and that by his 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.

[SEAL]



Jacqueline Joy Garner  
Notary Signature

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