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U.S. DEPARTMENT OF COMMERCE
U.S. Patent And Trademark Office

(. 03/01) (modified)

OMB No. 0651-0027 (exp 5/31/2002)

102202402

To the Honorable Commissioner For Patents: Please record the attached original documents or copy thereof:

1. Name of conveying party(ies):

Guozhu Long; Les Brown; Sanjay Gupta

8/22/02

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

Name: Centillum Communications, Inc.

Additional name(s) of conveying party(ies) attached?

Yes No

Internal Address:

3. Nature of Conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other: _____

Street Address: 47211 Lakeview Boulevard

City: Fremont

State: CA Zip: 94538

Execution Date: 7/23/2002; 7/25/2002; 8/8/2002

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):

10/187,388

B. Patent No.(s):

Additional numbers attached? Yes No

FINANCE SECTION
AUG 22 AM 7:15
RECORDS

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

Name: Neil F. Maloney, Esq.
Internal Address: Fenwick & West LLP
Street Address: Two Palo Alto Square
City: Palo Alto State: CA Zip Code: 94306

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

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

Check Enclosed
 Fee Transmittal Enclosed
 Charge the indicated fees to the below mentioned deposit account.

06/26/2002 TDIAZ1 00000129 10187388

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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.

Neil F. Maloney, Reg. No. 42,833

Name of Person Signing

Neil F. Maloney
Signature

August 15, 2002

Date

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

Mail documents to be recorded with required cover sheet information to: Box Assignment, Commissioner For Patents and Trademarks, Washington, D.C. 20231

Case Docket No.: 21676-06951 (CT-91)

21676/06951/SF/5081905.1

PATENT
REEL: 013216 FRAME: 0176

ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, the person(s) named below (referred to as "INVENTOR" whether singular or plural) has sold, assigned, and transferred and does hereby sell, assign, and transfer to Centillium Communications, Inc., a Delaware corporation, having a place of business at 47211 Lakeview Boulevard, Fremont, California 94538, ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the provisional application filed under 35 U.S.C. §111(b) or non-provisional application filed under 35 U.S.C. §111(a) and entitled SYNCHRONIZING INITIAL HANDSHAKE IN ADSL ANNEX C TO TTR ("APPLICATION"), which:

is to be filed herewith

was filed on June 28, 2002,

now bearing U.S. application number 10/187,388; and

2. The entire worldwide right, title, and interest in and to:
 (a) the APPLICATION; (b) all applications claiming priority from the APPLICATION;
 (c) all utility, divisional, continuation, substitute, renewal, reissue, and other related applications thereto which have been or may be filed in the United States or elsewhere in the world; (d) all patents (including reissues and re-examinations) which may be granted on the applications set forth in (a), (b), (c) and (d) above; and (e) all right of priority in the APPLICATION, together with all rights to recover damages for infringement of provisional rights.

INVENTOR agrees that ASSIGNEE may apply for and receive patents for SUBJECT MATTER in ASSIGNEE's own name.

INVENTOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titles and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER and for vesting in ASSIGNEE the rights, titles, and interests herein conveyed. INVENTOR further agrees to provide any successor, assign, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

INVENTOR represents that INVENTOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the INVENTOR has not made and will not hereafter make any assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

INVENTOR grants the attorney of record the power to insert on this Assignment any further identification that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

Title of Document: ASSIGNMENT

Re: SYNCHRONIZING INITIAL HANDSHAKE IN ADSL ANNEX C TO TTR
Filed: June 28, 2002
Application No.: 10/187,388

This Assignment may be executed in one or more counterparts, each of which shall be deemed an original and all of which may be taken together as one and the same Assignment.

Name and Signature _____ Date of Signature 7/23, 2002 Date Declaration Executed By This Person 7/23, 2002
Guozhu Long
GUOZHU LONG

State of _____ } S.S.
County of _____ }

On _____ before me, _____ personally
[DATE] [NOTARY PUBLIC]
appeared Guozhu Long 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.

Notary Seal

Notary

Name and Signature _____ Date of Signature 7/25, 2002 Date Declaration Executed By This Person 7/25, 2002
Les Brown
LES BROWN

State of _____ } S.S.
County of _____ }

On _____ before me, _____ personally
[DATE] [NOTARY PUBLIC]
appeared Les Brown 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.

Notary Seal

Notary

Title of Document: ASSIGNMENT

Re: SYNCHRONIZING INITIAL HANDSHAKE IN ADSL ANNEX C TO TTR
Filed: June 28, 2002
Application No.: 10/187,388

<u>Name and Signature</u>	<u>Date of Signature</u>	<u>Date Declaration Executed By This Person</u>
<u>Sanjay Gupta</u> SANJAY GUPTA	<u>8/8</u> , 2002	<u>8/8</u> , 2002

State of _____ } S.S.
County of _____ }

On _____ before me, _____ personally
[DATE] [NOTARY PUBLIC]
appeared Sanjay Gupta 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.

Notary Seal

Notary