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| OMB No. 0651-0027 (exp 5/31/2002) To the Honorable Commissioner Fe | or Patents: Please reco | 93 ord the attached original do | cuments or copy thereof: | | |
| Name of conveying party(ies): | 2. Name and address of receiving party(ies): | | | | |
| Amir Fazlollahi; Guozhu Long | 22.02 | Name: | Centillium Communicati | ons, Inc. | |
| | | | | | |
| Additional name(s) of conveying party(ies) | attached? | Internal Address: | | | |
| Yes No | | | | | |
| 3. Nature of Conveyance: | | Street Address: | 47211 Lakeview Bouleva | ard | |
| | | | | | |
| Security Agreement Change | of Name | City: | Fremont | | |
| Other: | | State: | CA Zip: 94538 | | |
| | | Additional name(s) | & address(es) attached? | | |
| Execution Date: July 23, 2002 | | ☐ Yes | ⊠ No | | |
| 4. Application number(s) or patent number | | | | | |
| If this document is being filed together v | ` ' | n, the execution date of | the application is $=$ | | |
| | I | | NCE | * ** | |
| A. Patent Application No.(s): | B. Patent No.(s): | | | | |
| 10/187,384 | | | ECT A | 22 | |
| A | dditional numbers at | tached? Yes | No 110 7: | RECOR | |
| 5. Name and address of party to whom corr concerning document should be mailed: | espondence | 6. Total number of ap | plications and patents invo | · 🖰 | |
| Name: Neil F. Maloney, E | sq. | 7. Total fee (37 CFR 3 | 3.41): \$40.00 | | |
| Internal Address: Fenwick & West L | LP | Check Enclose | ed | | |
| Street Address: Two Palo Alto Squ | are | Fee Transmitta | ıl Enclosed | | |
| City: Palo Alto State: CA Z | ip Code: 94306 | deposit accour | | entioned | |
| an edetal. (40.00 De | DO NOT LIS | 8. Deposit Account N | 0.: | | |
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| 9. Statement and signature: | 1.6 | | | | |
| To the best of my knowledge and belief, true copy of the original document. | the foregoing inform | ation is true and correc | t and any attached copy is | a | |
| $d/\sqrt{2}$ | | | | | |
| Neil F. Maloney, Reg. No. 42,833 August 15, 2002 | | | | | |
| Name of Person Signing Signature Date | | | | | |
| Total number of pages including cover sheet, attachments, documents: [3] | | | | | |
| 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.: 21676-06760 (CT-88) | | | | | |

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 | t in | all | inver | ntions | and |
|-----------|-------|-------|---------|------------|----------|--------|---------|-----------|--------|-------|--------|--------|-------|
| improvem | nents | ("SU | BJECT | Γ MATTEF | (") that | are di | isclose | ed in th | e pro | ovisi | onal a | applic | ation |
| filed und | er 35 | U.S | S.C. §1 | 11(b) or r | on-pro | vision | al app | olication | ı file | ed u | nder | 35 U | S.C. |
| §111(a) | and | entit | led Sy | NCHRONIZ | ing AI | DSL . | Anne | хСТ | RAN | SCE | IVERS | TO | TTR |
| ("APPLIC | CATIO | ON") | , which | 1: | | | | | | | | | |
| ` | _ | | | | | | | | | | | | |

| | is to be filed herewith | |
|-------------|-------------------------------------|-----------------|
| \boxtimes | was filed on <u>June 28, 2002</u> , | |
| | now bearing U.S. application number | 10/187,384; 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.

1 of 2

Case Docket # 21676-06760 (CT-88)

21676/06760/SF/5080118.1

| Application No.: | 10/187,384 | | | |
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| • | nt may be executed in or I all of which may be take | - | - | |
| Name and Signature | / | Date of Signature | Date Declaration <u>Executed By This Person</u> | |
| AMIR FAZLOLIAHI | <u>~~</u> | $\frac{2}{2}$ 3 / ,2002 | 2/23/,2002 | |
| State ofCounty of | }S.S. | | | |
| appeared <u>Amir Fazlolla</u> to be the person whose name | befor [DATE] ahi personally known to me is subscribed to the within incity, and that by his signature executed the instrument. | e or proved to me on the bas astrument and acknowledged | is of satisfactory evidence to me that he executed the | |
| Notary Seal | | Notary | | |
| Name and Signature | | Date of <u>Signature</u> | Date Declaration Executed By This Person | |
| Guozhu Long | | 7/23 , 2002 | 7/23 , 2002 | |
| State ofCounty of | - | | | |
| On | befor | e me, | personally | |
| be the person whose name | befor [DATE] personally known to me of its subscribed to the within institute, and that by his signature executed the instrument. | trument and acknowledged to | me that he executed the | |
| Notary Seal | | Notary | , | |
| Case Docket #_21676-06760 (CT-88)_ | 2 | of 2 | | |

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Title of Document: ASSIGNMENT

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PATENT REEL: 013216 FRAME: 0431

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