11-30-2006

Date 11/21/06 attachments and documents: 3	103342637         To the Director of the US Patent and Trademark Office: Please record documents or the new address(es) below.         1. Name of conveying party(les):       Gregory D. Miller Mark A. Arbore         Additional name(s) of conveying party(les) attached?       Yes       No         2. Name and address of receiving party(les):       Name: Collinear Corporation         Street address: 3930 Freedom Circle, Suite 103       To: Street address: 3930 Freedom Circle, Suite 103         City: Santa Clara       State: CA       Zip: 95054         3. Nature of conveyance/Execution Date(s):       Joint Research Agreement         Government       Interest Assignment         Becurity Agreement       Government Interest Assignment         Becurity Agreement       Other         Execution Date(s):       November 20, 2006         4. Application or patent number(s):       A. Patent No.(s)         Additional nameres attached?       Yes         This document is being filed together with a new application.         Additional numbers attached?       Yes         State: CA       Zip 94306       Country: USA         Phone No.: 650-424-0100       Fax No.: 650-424-0141       Ernal: admin@lumen.com         6. Total number of applications and patents Involved: 1       Total number of pages including cover 3         7. Total e (37 CFFI 121(	To the Director of the US Patent and T	103342637	PATENTS ONLY
1. Name of conveying party(les):       Gregory D. Miller Mark A. Arbore       Openation         Additional name(s) of conveying party(les) attached?       Yes X       No         2. Name and address of receiving party(les):       Name: Collinear Corporation       Yes X       No         2. Name and address of receiving party(les):       Name: Collinear Corporation       Yes X       No         2. Name and address of receiving party(les):       Name: Collinear Corporation       Yes X       No         3. Nature of conveyance/Execution Date(s):       Joint Research Agreement       Government Interest Assignment         3. Sature of conveyance/Execution Date(s):       Joint Research Agreement       Government Interest Assignment         4. Assignment       Joint Research Agreement       Government Interest Assignment       Here Yes X         6. Change of Name       Other       Executive Order 9424m Confirmatory License         7. This document is being filed together with a new application.       Additional numbers attached?       Yes X         8. A patent Application No.(s)       A. Patent No.(s)       A. Patent No.(s)         9. This document is being filed together with a new application.       Additional numbers attached?       Yes X       No         5. Name and address to whom correspondence concerning document should be mailed:       Name: LUMEN Intellectual Property Services, Inc.       Street address	1. Name of conveying party(ies):       Gregory D. Miller Mark A. Arbore       Organ         Additional name(s) of conveying party(ies):       Mark A. Arbore       Organ         Additional name(s) of conveying party(ies):       No       Organ         Name: Collinear Corporation       State: CA       Zip: 95054       Country: US         Additional name(s) and address(es) attached?       Yes       No       Organ         Additional name(s) and address(es) attached?       Yes       No       Outry: US         Additional name(s) and address(es) attached?       Yes       No       Outry: US         Additional name(s) and address(es) attached?       Yes       No       Outry: US         Additional name(s) and address(es) attached?       Yes       No       Outry: US         Additional name(s) and address(es) attached?       Yes       No       Outry: US         Additional name(s) in a conveyance/Execution Date(s):       Dotter       Executive Order 9424m Confirmatory License         Change of Name       Other       Executive Order 9424m Confirmatory License       Other         Execution Date(s):       No memory Second Floor       A. Patent No.(s)       Second Second Floor         S. Name and address to whom correspondence concerning document should be mailed:       Name: LUMEN Intellectual Property Services, Inc.         <		rademark Office: Please record	
Mark A. Arbore       Decision         Additional name(s) of conveying party(ies) attached?       Yes       No       Yes       No         2. Name and address of receiving party(ies):       Name: Collinear Corporation       Yes       No       Yes       No         2. Name and address of receiving party(ies):       Name: Collinear Corporation       Yes       No       Yes       Xes       Country: US         Additional name(s) and address(es) attached?       Yes       No       No       Xes	Mark A. Arbore       Additional name(s) of conveying party(ies) attached?       Yes       No       Yes       No         Additional name(s) of conveying party(ies):       Name: Collinear Corporation       State: CA       Zip: 95054       Country: US         Additional name(s) and address(es) attached?       Yes       No       Xet address: 3930 Freedom Circle, Suite 103         City: Santa Clara       State: CA       Zip: 95054       Country: US         Additional name(s) and address(es) attached?       Yes       No         3. Nature of conveyance/Execution Date(s):	1. Name of conveying party(ies):	racomune Onice. I lease recon	d documents or the new address(es) below.
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Image of Marger       Image of Name       Image of Other         Execution Date(s):       November 20, 2006       Other         4. Application or patent number(s):       A. Patent Application No.(s)       A. Patent No.(s)         Image of Name       Image of Name       Other         4. Application or patent number(s):       A. Patent Application No.(s)       A. Patent No.(s)         Image of Name       Image of Name       A. Patent No.(s)         Image of Name       Image of Name       A. Patent No.(s)         Image of Name       Image of Name       A. Patent No.(s)         Image of Name       Image of Name       Image of Name         Image of Name       Image of Name       Image of Name         Image of Name       Image of Name       Image of Name         Image of Name       Image of Name       Image of Name         Image of Name       Image of Name       Image of Name         Image of Name       Image of Name       Image of Name         Image of Name       Image of Name       Image of Name         Image of Name       Image of Name       Image of Name         Image of Name       Image of Name       Image of Name         Image of Name       Image of Name       Image of Name         Image of Name	☐ Merger       ☐ Executive Order 9424m Confirmatory License         ☐ Change of Name       ☐ Other         Execution Date(s):       November 20, 2006         4. Application or patent number(s):       A. Patent Application No.(s)         A. Patent Application No.(s)       A. Patent No.(s)         ☐ This document is being filed together with a new application.       Additional numbers attached?         Additional numbers attached?       Yes       No         5. Name and address to whom correspondence concerning document should be mailed:       Name: LUMEN Intellectual Property Services, Inc.         Street address: 2345 Yale Street, Second Floor       City: Palo Alto       State: CA       Zip: 94306       Country: USA         Phone No.:       650-424-0100       Fax No.: 650-424-0141       Email: admin@lumen.com         6. Total number of applications and patents involved: 1       7. Total fee (37 CFR 1.21(h) & 3.41): \$40_       Authorized to be charged by credit card         8. Payment information:       a. Credit Card Last 4 Numbers: 9737       Credit Card Expiration Date: 10/2006         9. Signature:       Signature:       Signature:       Total number of pages including cover sheet) should be faxed to (571-273-0140), or mailed to:         Documents to be recorded (including cover sheet) should be faxed to (571-273-0140), or mailed to:       Mait atchments and documents:3         Documents to be recorded	Assignment		Joint Research Agreement
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Signature       Robert       John Marger         Printed Name       Robert Lodenkamper       Total number of pages including cover s attachments and documents:3         Date       11/21/06       Including cover s attachments and documents:3	Signature       Robert       John Mail         Printed Name       Robert Lodenkamper       Total number of pages including cover seature attachments and documents:		37 Cre	dit Card Expiration Date: 10/2006
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		TEMMANNI AAAAAA12 116A7368		

REEL: 018633 FRAME: 0592

## ASSIGNMENT

## WHEREAS, I/WE:

Gregory D. Miller, a citizen of USA, residing at 1245 Lakeside Dr., Apt. 1016, Sunnyvale, CA 94085, USA

Mark A. Arbore, a citizen of USA, residing at 171 Pepper Court, Los Altos, CA 94022, USA

1) For valuable consideration, the receipt and adequacy of which receipt is acknowledged, I/we, the above-named Assignor(s), each sell and assign to hereinafter Assignee, the entire right, title and interest in and to the invention or inventions as described in US Patent Application, <u>PHN-102/CIP2</u>, entitled <u>Amplitude Modulation for Ouasi-Phasematched Nonlinear Optical Frequency Converters</u> filed <u>herewith</u> and naming Assignor(s) as inventor(s), and to any and all applications for patent and patents in any and all countries relating to said invention(s), including all divisions, continuations, reissues and extensions thereof, and including all domestic and foreign rights of priority resulting from the filing of said US patent application.

2) I/we hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment, and that at the time of execution and delivery of this assignment, I/we are the sole lawful owner(s) of the entire right, title and interest in and to said invention(s).

3) I/we hereby agree that Assignee may apply for foreign patents relating to said invention(s) and irrevocably authorize Assignee and grant Assignee the sole right to do so.

4) I/we agree that on request and without further consideration, but at the expense of Assignee, I/we will sign all lawful papers, make all rightful oaths, and testify in any legal proceedings relating to said invention(s), and generally aid Assignee, or its successors, assigns, or nominees, to obtain and enforce proper patent protection for said invention(s) in any and all countries.

5) I/wc authorize and request any official whose duty it is to issue patents to issue any patent on said invention(s) or resulting therefrom to Assignee, or its successors, assigns, or nominees.

Agent Reference: PHN-102/CIP2

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Inventor: Gregory D. Miller Signature:

Inventor: Mark A. Arbore

Signature: M

Date: 11/20/06

Agent Reference: PHN-102/CIP2

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**RECORDED: 11/21/2006**