

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

|                            |                                     |
|----------------------------|-------------------------------------|
| SUBMISSION TYPE:           | NEW ASSIGNMENT                      |
| NATURE OF CONVEYANCE:      | SECURITY AGREEMENT                  |
| CONVEYING PARTY DATA       |                                     |
| Name                       | Execution Date                      |
| Vello Systems, Inc.        | 05/24/2013                          |
| RECEIVING PARTY DATA       |                                     |
| Name:                      | Venture Lending & Leasing VI, Inc.  |
| Street Address:            | 104 La Mesa Drive, Suite 102        |
| City:                      | Portola Valley                      |
| State/Country:             | CALIFORNIA                          |
| Postal Code:               | 94028                               |
| Name:                      | Venture Lending & Leasing VII, Inc. |
| Street Address:            | 104 La Mesa Drive, Suite 102        |
| City:                      | Portola Valley                      |
| State/Country:             | CALIFORNIA                          |
| Postal Code:               | 94028                               |
| PROPERTY NUMBERS Total: 26 |                                     |
| Property Type              | Number                              |
| Patent Number:             | 6525857                             |
| Patent Number:             | 6788899                             |
| Patent Number:             | 6895184                             |
| Patent Number:             | 7003231                             |
| Patent Number:             | 7024112                             |
| Patent Number:             | 7120359                             |
| Patent Number:             | 7206520                             |
| Patent Number:             | 7499647                             |
| Patent Number:             | 7515833                             |
| Patent Number:             | 7577367                             |

OP \$1040.00 6525857

|                     |          |
|---------------------|----------|
| Patent Number:      | 7773883  |
| Patent Number:      | 8139476  |
| Patent Number:      | 8175458  |
| Application Number: | 12253908 |
| Application Number: | 12391256 |
| Application Number: | 12961432 |
| Application Number: | 12961436 |
| Application Number: | 12961439 |
| Application Number: | 12961441 |
| Application Number: | 12961442 |
| Application Number: | 13019255 |
| Application Number: | 13031594 |
| Application Number: | 13440976 |
| Application Number: | 13796717 |
| Application Number: | 13797684 |
| Application Number: | 13851936 |

#### CORRESPONDENCE DATA

Fax Number: 4157774961

*Correspondence will be sent via US Mail when the fax attempt is unsuccessful.*

Phone: 415 981 1400

Email: gkiviat@grmslaw.com

Correspondent Name: Jeffrey T. Klugman

Address Line 1: Four Embarcadero Center, Suite 4000

Address Line 4: San Francisco, CALIFORNIA 94111

|                         |                      |
|-------------------------|----------------------|
| ATTORNEY DOCKET NUMBER: | 48046/0049 P         |
| NAME OF SUBMITTER:      | Jeffrey T. Klugman   |
| Signature:              | /Jeffrey T. Klugman/ |
| Date:                   | 05/28/2013           |

#### Total Attachments: 12

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## INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement (this "Agreement") is made as of May 24, 2013, by and between VELLO SYSTEMS, INC. ("Grantor"), and VENTURE LENDING & LEASING VI, INC. ("VLL6") and VENTURE LENDING & LEASING VII, INC. ("VLL7"), both Maryland corporations (sometimes referred to herein individually or together as "Secured Party").

### RECITALS

A. Pursuant to (i) that certain Loan and Security Agreement of even date herewith between Grantor, as borrower, and VLL6, as lender, and (ii) that certain Loan and Security Agreement of even date herewith between Grantor, as borrower, and VLL7, as lender, as such agreements may from time to time be amended, restated, supplemented or otherwise modified (individually and together, the "Loan Agreement"), Secured Party has agreed to make certain advances of money and to extend certain financial accommodations to Grantor (the "Loans") in the amounts and manner set forth in the Loan Agreement. All capitalized terms used herein without definition shall have the meanings ascribed to them in the Loan Agreement.

Secured Party is willing to make the Loans to Grantor, but only upon the condition, among others, that Grantor shall grant to Secured Party a security interest in substantially all of Grantor's personal property whether presently existing or hereafter acquired. To that end, Grantor has executed in favor of Secured Party the Loan Agreement granting a security interest in all Collateral, and are executing this Agreement with respect to certain items of Intellectual Property, in particular.

NOW, THEREFORE, THE PARTIES HERETO AGREE AS FOLLOWS:

(a) Grant of Security Interest. As collateral security for the prompt and complete payment and performance of all of Grantor's present or future Obligations, Grantor hereby grants a security interest and mortgage to Secured Party, as security, in and to Grantor's entire right, title and interest in, to and under the following Intellectual Property, now owned or hereafter acquired by Grantor or in which Grantor now holds or hereafter acquires any interest (all of which shall collectively be called the "Collateral" for purposes of this Agreement):

(a) Any and all copyrights, whether registered or unregistered, held pursuant to the laws of the United States, any State thereof or of any other country; all registrations, applications and recordings in the United States Copyright Office or in any similar office or agency of the United States, and State thereof or any other country; all continuations, renewals, or extensions thereof; and any registrations to be issued under any pending applications, including without limitation those registrations, applications, and recordings set forth on Exhibit A attached hereto (collectively, the "Copyrights");

(b) All letters patent of, or rights corresponding thereto in, the United States or any other country, all registrations and recordings thereof, and all applications for letters patent of, or rights corresponding thereto in, the United States or any other country, including, without limitation, registrations, recordings and applications in the United States Patent and Trademark Office or in any similar office or agency of the United States, any State thereof or any other country; all reissues, continuations, continuations-in-part or extensions thereof; all petty patents, divisionals, and patents of addition; and all patents to be issued under any such applications, including without limitation the patents and patent applications set forth on Exhibit B attached hereto (collectively, the "Patents");

(c) All trademarks, trade names, corporate names, business names, trade styles, service marks, logos, other source or business identifiers, prints and labels on which any of the foregoing have appeared or appear, designs and general intangibles of like nature, now existing or hereafter adopted or acquired, all registrations and recordings thereof, and any applications in connection therewith, including, without limitation, registrations,

recordings and applications in the United States Patent and Trademark Office or in any similar office or agency of the United States, any State thereof or any other country or any political subdivision thereof, and reissues, extensions or renewals thereof, and the entire goodwill of the business of Grantor connected with and symbolized by such trademarks, including without limitation those registrations and recordings set forth on Exhibit C attached hereto (collectively, the "Trademarks");

(d) Any and all claims for damages by way of past, present and future infringement of any of the rights included above, with the right, but not the obligation, to sue for and collect such damages for said use or infringement of the intellectual property rights identified above;

(e) All licenses or other rights to use any of the Copyrights, Patents or Trademarks, and all license fees and royalties arising from such use to the extent permitted by such license or rights;

(f) All amendments, renewals and extensions of any of the Copyrights, Trademarks or Patents; and

(g) All proceeds and products of the foregoing, including without limitation all payments under insurance or any indemnity or warranty payable in respect of any of the foregoing.

Notwithstanding the foregoing the term "Collateral" shall not include: (a) "intent-to-use" trademarks at all times prior to the first use thereof, whether by the actual use thereof in commerce, the recording of a statement of use with the United States Patent and Trademark Office or otherwise, but only to the extent the granting of a security interest in such "intent to use" trademarks would be contrary to applicable law or (b) any contract, instrument or chattel paper in which Grantor has any right, title or interest if and to the extent such contract, instrument or chattel paper includes a provision containing a restriction on assignment such that the creation of a security interest in the right, title or interest of Grantor therein would be prohibited and would, in and of itself, cause or result in a default thereunder enabling another person party to such contract, instrument or chattel paper to enforce any remedy with respect thereto; provided, however, that the foregoing exclusion shall not apply if (i) such prohibition has been waived or such other person has otherwise consented to the creation hereunder of a security interest in such contract, instrument or chattel paper, or (ii) such prohibition would be rendered ineffective pursuant to Sections 9-407(a) or 9-408(a) of the UCC, as applicable and as then in effect in any relevant jurisdiction, or any other applicable law (including the Bankruptcy Code or principles of equity); provided further that immediately upon the ineffectiveness, lapse or termination of any such provision, the term "Collateral" shall include, and Grantor shall be deemed to have granted a security interest in, all its rights, title and interests in and to such contract, instrument or chattel paper as if such provision had never been in effect; and provided further that the foregoing exclusion shall in no way be construed so as to limit, impair or otherwise affect Secured Party's unconditional continuing security interest in and to all rights, title and interests of Grantor in or to any payment obligations or other rights to receive monies due or to become due under any such contract, instrument or chattel paper and in any such monies and other proceeds of such contract, instrument or chattel paper.

(b) Covenants and Warranties. Grantor represents, warrants, covenants and agrees as follows:

(a) Grantor has rights (as defined in the UCC) in the Collateral owned by it, except for Permitted Liens;

(b) During the term of this Agreement, Grantor will not transfer or otherwise encumber any interest in the Collateral, except for Permitted Liens and except as permitted by the Loan Agreement;

(c) To its knowledge, each of the Patents is valid and enforceable, and no part of the Collateral has been judged invalid or unenforceable, in whole or in part, and no claim has been made that any part of the Collateral violates the rights of any third party;

(d) Grantor shall deliver to Secured Party within thirty (30) days of the last day of each fiscal quarter, a report signed by Grantor, in form reasonably acceptable to Secured Party, listing any applications or registrations that Grantor has made or filed in respect of any patents, copyrights or trademarks and the status of any outstanding applications or registrations. Grantor shall promptly advise Secured Party of any material change in the composition of the Collateral, including but not limited to any subsequent ownership right of Grantor in or to any Trademark, Patent or Copyright not specified in this Agreement;

(e) Grantor shall use reasonable commercial efforts to (i) protect, defend and maintain the validity and enforceability of the Trademarks, Patents and Copyrights material to its business, (ii) detect infringements of the Trademarks, Patents and Copyrights material to its business and promptly advise Secured Party in writing of material infringements detected, and (iii) not allow any material Trademarks, Patents or Copyrights to be abandoned, forfeited or dedicated to the public without the written consent of Secured Party, which consent shall not be unreasonably withheld;

(f) Grantor shall apply for registration on an expedited basis (to the extent not already registered) with the United States Patent and Trademark Office or the United States Copyright Office, as applicable: (i) those intellectual property rights listed on Exhibits A, B and C hereto within thirty (30) days of the date of this Agreement; and (ii) those additional intellectual property rights developed or acquired by Grantor from time to time in connection with any product or service, prior to the sale or licensing of such product or the rendering of such service to any third party (including without limitation revisions or additions to the intellectual property rights listed on such Exhibits A, B and C), except, in each case, with respect to such rights that Grantor determines in its sole but reasonable commercial judgment need not be registered to protect its own business interests or with respect to such intellectual property that is not material to the business of Grantor. Grantor shall, from time to time, execute and file such other instruments, and take such further actions as Secured Party may reasonably request from time to time to perfect or continue the perfection of Secured Party's interest in the Collateral. Grantor shall give Secured Party notice of all such applications or registrations; and

(g) Grantor shall not enter into any agreement that would materially impair or conflict with Grantor's obligations hereunder without Secured Party's prior written consent, which consent shall not be unreasonably withheld.

(c) Further Assurances; Attorney in Fact.

(a) On a continuing basis, Grantor will make, execute, acknowledge and deliver, and file and record in the proper filing and recording places in the United States, all such instruments, including appropriate financing and continuation statements and collateral agreements and filings with the United States Patent and Trademark Office and the Register of Copyrights, and take all such action as may reasonably be reasonably requested by Secured Party, to perfect Secured Party's security interest in all Copyrights, Patents and Trademarks and otherwise to carry out the intent and purposes of this Agreement, or for assuring and confirming to Secured Party the grant or perfection of a security interest in all Collateral.

(b) Grantor hereby irrevocably appoints Secured Party as Grantor's attorney-in-fact, with full authority in the place and stead of Grantor and in the name of Grantor, from time to time in Secured Party's discretion, to take any action and to execute any instrument which Secured Party may deem necessary or advisable to accomplish the purposes of this Agreement, (i) to modify, in its sole discretion, this Agreement without first obtaining Grantor's approval of or signature to such modification solely for the purpose of amending Exhibits A, B and C, hereof, as appropriate, to include reference to any right, title or interest in any Copyrights, Patents or Trademarks acquired by Grantor after the execution hereof to the extent constituting Collateral or to delete any reference to any right, title or interest in any Copyrights, Patents or Trademarks in which Grantor no longer has or claims any right, title or interest, (ii) to file, in its sole discretion, one or more financing or continuation statements and amendments thereto, relative to any of the Collateral without the signature of Grantor where permitted by law, and (iii) after the

occurrence of an Event of Default that is continuing, to transfer the Collateral into the name of Secured Party or a third party to the extent permitted under the California Uniform Commercial Code.

(d) Events of Default. The occurrence of any of the following shall constitute an Event of Default under this Agreement:

(a) An Event of Default under the Loan Agreement; or

(b) Grantor breaches any warranty or agreement made by Grantor in this Agreement and, as to any breach that is capable of cure, Grantor fails to cure such breach within thirty (30) days of the sooner to occur of Grantor's receipt of notice of such breach from Secured Party or the date on which such breach first becomes known to Grantor.

(e) Amendments. This Agreement may be amended only by a written instrument signed by all of the parties hereto, except for amendments permitted under Section 3 hereof to be made by Secured Party alone.

(f) Counterparts. This Agreement may be executed in two or more counterparts, each of which shall be deemed an original but all of which together shall constitute the same instrument.

(g) Several Nature of Secured Party's Obligations and Rights; Pari Passu Security Interests. This Agreement is and shall be interpreted for all purposes as separate and distinct agreements between Grantor and VLL6, on the one hand, and Grantor and VLL7, on the other hand, and nothing in this Agreement shall be deemed a joint venture, partnership or other association between VLL6 and VLL7. Each reference in this Agreement to "Secured Party" shall mean and refer to each of VLL6 and VLL7, singly and independent of one another. Without limiting the generality of the foregoing, the covenants and other obligations of "Secured Party" under this Agreement are several and not joint obligations of VLL6 and VLL7, and all rights and remedies of "Secured Party" under this Agreement may be exercised by VLL6 and/or VLL7 independently of one another. The security interests granted by Grantor to each of VLL6 and VLL7 hereunder and under the Loan Agreement shall be deemed to have been granted and perfected at the same time and shall be of equal priority.

*[Signature Pages Follow]*

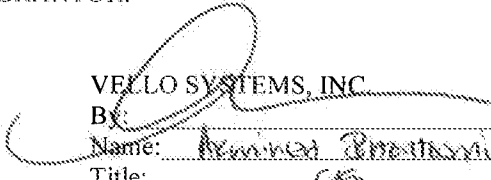
*[Signature page to Intellectual Property Security Agreement]*

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and year first above written.

GRANTOR:

Address of Grantor:  
1530 O'Brien Drive  
Menlo Park, CA 94025  
Attn: Chief Executive Officer

VELLO SYSTEMS, INC.

By: 

Name: Kenneth R. Branstetter  
Title: CEO

SECURED PARTY:

Address of Secured Party:  
104 La Mesa Dr., Suite 102  
Portola Valley, CA 94028  
Attn: Chief Financial Officer

VENTURE LENDING & LEASING VI, INC.

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

SECURED PARTY:

Address of Secured Party:  
104 La Mesa Dr., Suite 102  
Portola Valley, CA 94028  
Attn: Chief Financial Officer

VENTURE LENDING & LEASING VII, INC.

By: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

*[Signature page to Intellectual Property Security Agreement]*

IN WITNESS WHEREOF, the parties hereto have executed this Agreement on the day and year first above written.

GRANTOR:

Address of Grantor:  
1530 O'Brien Drive  
Menlo Park, CA 94025  
Attn: Chief Executive Officer

VELLO SYSTEMS, INC.

By: \_\_\_\_\_  
Name: \_\_\_\_\_  
Title: \_\_\_\_\_

SECURED PARTY:

Address of Secured Party:  
104 La Mesa Dr., Suite 102  
  
Portola Valley, CA 94028  
Attn: Chief Financial Officer

VENTURE LENDING & LEASING VI, INC.

By: \_\_\_\_\_  
Name: David Wanek  
Title: Vice President

SECURED PARTY:

Address of Secured Party:  
  
104 La Mesa Dr., Suite 102  
Portola Valley, CA 94028  
Attn: Chief Financial Officer

VENTURE LENDING & LEASING VII, INC.

By: \_\_\_\_\_  
Name: David Wanek  
Title: Vice President

EXHIBIT A

Copyrights

| <u>Description</u> | <u>Registration Number</u> | <u>Registration Date</u> | <u>Owner</u> |
|--------------------|----------------------------|--------------------------|--------------|
| (None)             |                            |                          |              |

**EXHIBIT B**

## Patents

| Case Number  | Status                                            | Application Serial Number, Patent No. | Title                                                                                                    |
|--------------|---------------------------------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------|
| VELLO-002US  | Pending<br>Filed on 2/23/2009                     | 12/391,256                            | Spectrally Efficient Parallel Optical WDM Channels for Long-Haul MAN and WAN Optical NetworksVELLO-002US |
| VELLO-004001 | Issued<br>Issued: 4/4/2006<br>Expires: 1/8/2021   | 09/755,136<br>7,024,112               | IN-BAND WAVELENGTH CONVERSION WAVELENGTH BUFFERING AND MULTI-PROTOCOL LAMBDA SWITCHINGVELLO-004001       |
| VELLO-005001 | Issued<br>Issued: 2/25/2003<br>Expires: 5/22/2020 | 09/575,811<br>6,525,857               | METHOD AND APPARATUS FOR INTERLEAVED OPTICAL SINGLE SIDEBAND MODULATIONVELLO-005001                      |
| VELLO-005DEI | Issued<br>Issued: 12/27/2006<br>Expires:          | 60125517.8-08<br>DE 601 25517         | VERFAHREN UND VORRICHTUNG ZUR VERSCHACHTELN OPTISCHEN EINSEITENBANDMODULATIONVELLO-005DEI                |
| VELLO-005EPI | Issued<br>Issued: 12/27/2006<br>Expires:          | 1913311.5<br>1264424                  | METHOD AND APPARATUS FOR INTERLEAVED OPTICAL SINGLE SIDEBAND MODULATIONVELLO-005EPI                      |
| VELLO-005FR1 | Issued<br>Issued: 12/27/2006<br>Expires:          | 1913311.5<br>1264424                  | PROCEDE ET APPAREIL DE MODULATION DE BANDE LATERALE OPTIQUE UNIQUE ENTRELACEEVELLO-005FR1                |
| VELLO-005UK1 | Issued<br>Issued: 12/27/2006<br>Expires:          | 1913311.5<br>1264424                  | METHOD AND APPARATUS FOR INTERLEAVED OPTICAL SINGLE SIDEBAND MODULATIONVELLO-005UK1                      |
| VELLO-006001 | Issued<br>Issued: 9/7/2004<br>Expires: 3/23/2021  | 09/814,929<br>6,788,899               | DYNAMIC WAVELENGTH ADD/DROP MULTIPLEXER FOR UDWDM OPTICAL COMMUNICATION SYSTEMVELLO-006001               |

| Case Number   | Status                                             | Application Serial Number, Patent No. | Title                                                                                                              |
|---------------|----------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| VELLO-008001  | Issued<br>Issued: 5/17/2005<br>Expires: 11/21/2021 | 09/990,196<br>6,895,184               | INTERCONNECTED BROADCAST AND SELECT OPTICAL NETWORKS WITH SHARED WAVELENGTHSVELLO-008001                           |
| VELLO-009001  | Issued<br>Issued: 3/3/2009<br>Expires: 1/6/2023    | 10/338,088<br>7,499,647               | FULLY PROTECTED BROADCAST AND SELECT ALL OPTICAL NETWORKVELLO-009001                                               |
| VELLO-010001  | Issued<br>Issued: 4/7/2009<br>Expires: 6/9/2026    | 11/450,136<br>7,515,833               | OPTICAL DOUBLE SIDEBAND MODULATION TECHNIQUE WITH INCREASED SPECTRAL EFFICIENCYVELLO-010001                        |
| VELLO--011001 | Issued<br>Issued: 2/21/2006<br>Expires: 4/19/2021  | 09/839,693<br>7,003,231               | Method and Apparatus for Interleaved Optical Single Sideband ModulationVELLO--011001                               |
| VELLO-011002  | Issued<br>Issued: 4/17/2007<br>Expires: 2/21/2026  | 11/358,990<br>7,206,520               | METHOD AND APPARATUS FOR INTERLEAVED OPTICAL SINGLE SIDEBAND MODULATIONVELLO-011002                                |
| VELLO-012001  | Issued<br>Issued: 10/10/2006<br>Expires: 6/19/2022 | 10/178,071<br>7,120,359               | BROADCAST AND SELECT ALL OPTICAL NETWORKVELLO-012001                                                               |
| VELLO-014001  | Issued<br>Issued: 8/18/2009<br>Expires: 6/15/2025  | 11/154,930<br>7,577,367               | OPTICAL COMMUNICATION USING DUOBINARY MODULATIONVELLO-014001                                                       |
| VELLO-017EP1  | Pending<br>Filed on 5/2/2006                       | 06769992.6                            | MULTIPLE INTERCONNECTED BROADCAST AND SELECT OPTICAL RING NETWORKS WITH REVERTIBLE PROTECTION SWITCHVELLO-017EP1   |
| VELLO-020001  | Issued<br>Issued: 3/20/2012<br>Expires: 12/13/2030 | 11/580,537<br>8,139,476               | OPTICAL RING NETWORKS USING CIRCULATING OPTICAL PROBE IN PROTECTION SWITCHING WITH AUTOMATIC REVERSIONVELLO-020001 |

| Case Number    | Status                                           | Application Serial Number, Patent No. | Title                                                                                                              |
|----------------|--------------------------------------------------|---------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| VELLO-020EP1   | Pending<br>Filed on 10/13/2006                   | 06836322.5                            | OPTICAL RING NETWORKS USING CIRCULATING OPTICAL PROBE IN PROTECTION SWITCHING WITH AUTOMATIC REVERSIONVELLO-020EP1 |
| VELLO-022001US | Issued<br>Issued: 8/10/2010<br>Expires: 6/5/2029 | 11/744,757<br>7,773,883               | SINGLE-FIBER OPTICAL RING NETWORKS BASED ON OPTICAL DOUBLE SIDEBAND MODULATIONVELLO-022001US                       |
| VELLO-025001   | Issued<br>Issued: 5/8/2012<br>Expires: 9/8/2030  | 12/175,422<br>8,175,458               | Optical Ring Networks Having Node-To-Node Optical Communication Channels For Carrying Data TrafficVELLO-025001     |
| VELLO-025002   | Pending<br>Filed on 4/5/2012                     | 13/440,976                            | OPTICAL RING NETWORKS HAVING NODE-TO-NODE OPTICAL COMMUNICATION CHANNELS FOR CARRYING DATA TRAFFICVELLO-025002     |
| VELLO-026001   | Pending<br>Filed on 10/17/2008                   | 12/253,908                            | Duobinary Signal Communications for Improved Spectral Efficiency and Signal-to-Noise RatioVELLO-026001             |
| VELLO-032001   | Pending<br>Filed on 2/23/2009                    | 12/391,256                            | Spectrally Efficient Parallel Optical WDM Channels for Long-Haul MAN and WAN Optical NetworksVELLO-032001          |
| VELLO-032EP1   | Pending<br>Filed on 9/22/2010                    | 09712882.12415                        | SPECTRALLY EFFICIENT PARALLEL OPTICAL WDM CHANNELS FOR LONG-HAUL MAN AND WAN OPTICAL NETWORKSVELLO-032EP1          |
| VELLO-032PCT   | Pending<br>Filed on 2/23/2009                    | PCT/US2009/001159                     | VELLO-032PCT                                                                                                       |
| VELLO-034W01   | Pending<br>Filed on 8/18/2008                    | PCT/US2009/054238                     | AUTOMATIC PHASE SHIFTER AND ALIGNER FOR HIGH-SPEED SERIAL DATAVELLO-0034W01                                        |
| VELLO-037001   | Pending<br>Filed on 12/6/2010                    | 12/961,432                            | Subchannel Photonic Routing, Switching and Protection with Simplified Upgrades of WDM Optical NetworksVELLO-037001 |

| Case Number     | Status                        | Application Serial Number, Patent No. | Title                                                                                                               |
|-----------------|-------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| VELLO-037001C   | Pending<br>Filed on 3/12/2013 | 13/797,684                            | Subchannel Photonic Routing, Switching and Protection with Simplified Upgrades of WDM Optical NetworksVELLO-037001C |
| VELLO-037002    | Pending<br>Filed on 12/6/2010 | 12/961,436                            | Optical Subchannel Routing, Protection Switching and SecurityVELLO-037002                                           |
| VELLO-037002DIV | Pending<br>Filed on 3/27/2013 | 13/851,936                            | Optical Subchannel Routing, Protection Switching and SecurityVELLO-037002DIV                                        |
| VELLO-037003    | Pending<br>Filed on 12/6/2010 | 12/961,439                            | Management, Monitoring and Performance Optimization of Optical NetworksVELLO-037003                                 |
| VELLO-037004    | Pending<br>Filed on 12/6/2010 | 12/961,441                            | Optical Subchannel-Based Cyclical Filter ArchitectureVELLO-037004                                                   |
| VELLO-037005    | Pending<br>Filed on 12/6/2010 | 12/961,442                            | Wavelength for improving Laser Wavelength Accuracy in WDM NetworksVELLO-037005                                      |
| VELLO-038001US  | Pending<br>Filed on 2/21/2011 | 13/031,594                            | SUBCHANNEL SECURITY AT THE OPTICAL LAYERVELLO-038001US                                                              |
| VELLO-039001    | Pending<br>Filed on 2/1/2011  | 13/019,255                            | Minimizing Bandwidth Narrowing Penalties in a Wavelength Selective Switch Optical NetworkVELLO-039001               |
| VELLO-039001C   | Pending<br>Filed on 3/12/2013 | 13/796,717                            | Minimizing Bandwidth Narrowing Penalties in a Wavelength Selective Switch Optical NetworkVELLO-039001C              |

EXHIBIT C

## Trademarks

| Mark               | Matter No.    | Country | Case Type         | Application Number | Filing Date | Registration Number | Date Registered | Status     |
|--------------------|---------------|---------|-------------------|--------------------|-------------|---------------------|-----------------|------------|
| CloudMaster        | VELLO-043TM   | US      | US Trademark      | 85/307,663         | 04/28/2011  | 4,066,928           | 12/06/2011      | Registered |
| CX Family          |               | US      | US Trademark      | 85/307,035         | 04/28/2011  |                     |                 | Pending    |
| OPVISTA            | VELLO-46TMEC  | EC      | Foreign Trademark | 005,654,801        | 01/31/2007  | 5,654,694           | 03/27/2008      | Registered |
| OPVISTA            | VELLO-045TM   | US      | US Trademark      | 78/955,544         | 08/18/2006  | 3,288,211           | 09/04/2007      | Registered |
| OPVISTA (stylized) | VELLO-046TM   | US      | US Trademark      | 78/955,777         | 08/18/2006  | 3,288,212           | 09/04/2007      | Registered |
| SCALEBLOCK         | VELLO-050TM   | US      | US Trademark      | 85/889,810         | 03/28/2013  |                     |                 | Pending    |
| VELLO SYSTEMS      | VELLO-044MP   | MP      | Madrid Protocol   | 1104818            | 12/06/2011  | 1104818             | 12/06/2011      | Registered |
| VELLO SYSTEMS      | VELLO-044TM   | US      | US Trademark      | 85/347,473         | 06/15/2011  | 4,077,236           | 12/27/2011      | Registered |
| Vellos             | VELLO-042TM   | US      | US Trademark      | 85/307,652         | 04/28/2011  | 4,203,168           | 09/04/2012      | Registered |
| VELLOS OPENBLOCK   | VELLO-049TM   | US      | US Trademark      | 85/889,818         | 03/28/2013  |                     |                 | Pending    |
| WAVEMASTER         | VELLO-047TMEC | EC      | Foreign Trademark | 005,654,546        | 01/31/2007  | 5,654,546           | 01/11/2008      | Registered |
| WAVEMASTER         | VELLO-047TM   | US      | US Trademark      | 78/955,643         | 08/18/2006  | 3,352,432           | 12/11/2007      | Registered |