

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Vixel Corporation, a Delaware corporation	01/13/1999
RECEIVING PARTY DATA	
Name:	Cielo Communications, Inc., a Delaware corporation
Street Address:	325 Interlocken Parkway, Building A
City:	Broomfield
State/Country:	COLORADO
Postal Code:	80021
PROPERTY NUMBERS Total: 1	
Property Type	Number
Patent Number:	6835992
CORRESPONDENCE DATA	
Fax Number:	(401)273-4447
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>	
Phone:	401-273-4446
Email:	clc@barjos.com
Correspondent Name:	Carrie Coyne-Barlow, Josephs & Holmes
Address Line 1:	101 Dyer Street, 5th Floor
Address Line 4:	Providence, RHODE ISLAND 02903
ATTORNEY DOCKET NUMBER:	O013 P00805-US1
NAME OF SUBMITTER:	Carrie Coyne
Total Attachments: 4 source=Assignment2#page1.tif source=Assignment2#page2.tif source=Assignment2#page3.tif source=Assignment2#page4.tif	

OP \$40.00 6835992

ASSIGNMENT

WHEREAS, VIXEL CORPORATION, a Delaware corporation, having a place of business at 11911 North Creek Parkway South, Bothell, Washington 98011-8009 ("ASSIGNOR" herein), owns the following improvements, patent applications, and United States patents:

<u>Inventor</u>	<u>Application No.</u>	<u>Filing Date</u>	<u>Title/Docket #</u>
Timothy M. Cockerill Robert P. Bryan	08/602,609	02/16/96	Method of Manufacturing VCSEL Arrays Using Vapor Phase Epitaxy to Achieve Uniform Device-to-Device Operating Characteristics (C715:33722)
Stanley E. Swirhun Jeffrey W. Scott	08/803,891	02/21/97	Closely-Spaced VCSEL and Photodetector for Applications Requiring Their Independent Operation (C715:33723)

<u>Inventor</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Title/Docket #</u>
Jack L. Jewell Boris J. Muchnik	5,808,986	09/15/98	Multiple Beam Optical Memory System with Solid-State Lasers (C715:33718)
Andrew H. Keymer	5,767,999	06/16/98	Hot-Pluggable/Interchangeable Circuit Module and Universal Guide System Having a Standard Form Factor (C715:33716) <i>file</i>
Gregory R. Olbright Jack L. Jewell	5,642,376	06/24/97	Visible Light Surface Emitting Semiconductor Laser (C715:33544)
Stanley E. Swirhun Toshi K. Uchida	5,631,988	05/20/97	Parallel Optical Interconnect (C715:33713)
Stanley E. Swirhun Iain R. Mactaggart	5,625,480	04/29/97	Control Circuits for Parallel Optical Interconnects (C715:33720)
Stanley E. Swirhun William E. Quinn	5,606,572	02/25/97	Integration of Laser with Photodiode for Feedback Control (C715:33709)
Stanley E. Swirhun William E. Quinn	5,577,064	11/19/96	Integration of Laser with Photodiode for Feedback Control (C715:33699)
Stephen D. Walker Jack L. Jewell Greg R. Olbright Stanley E. Swirhun	5,570,697	11/05/96	Sensor for Analyzing Molecular Species (C715:33719)
Jack L. Jewell Boris J. Muchnik Robert P. Bryan	5,526,182	06/11/96	Multiple Beam Optical Memory System (C715:33715)

ASSIGNMENT

Docket No. C715:30/DBP

<u>Inventor</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Title/Docket #</u>
Jack L. Jewell Robert P. Bryan Winston S. Fu Stan E. Swirhun William E. Quinn	5,525,810	06/11/96	Self Calibrating Solid State Scanner (C715:33717)
Jack L. Jewell Greg R. Olbright	5,523,884	06/04/96	Optical Beam Delivery System (C715:33700)
Stanley E. Swirhun Iain R. Mactaggart	5,521,736	05/28/96	Control Circuits for Parallel Optical Interconnects (C715:33721)
Jack L. Jewell William E. Quinn Stan E. Swirhun Robert P. Bryan	5,500,540	03/19/96	Wafer Scale Optoelectronic Package (C715:33701)
Jack L. Jewell Boris J. Muchnik	5,483,511	01/09/96	Multiple Beam Optical Memory System with Solid-State Lasers (C715:33714)
Jack L. Jewell Greg R. Olbright	5,446,754	08/29/95	Phased Array Semiconductor Laser (C715:33702)
Stanley E. Swirhun Toshi K. Uchida	5,420,954	05/30/95	Parallel Optical Interconnect (C715:33708)
Stanley E. Swirhun Thomas J. O'Neill, Jr.	5,412,680	05/02/95	Linear Polarization of Semiconductor Laser (C715:33710)
Virginia Houlding	5,344,517	09/06/94	Method for Lift-Off of Epiptaxial Layers and Applications Thereof (C715:33711)
Jack L. Jewell Greg R. Olbright	5,331,654	07/19/94	Polarized Surface-Emitting Laser (C715:33712)
Jack L. Jewell Greg R. Olbright	5,319,496	06/07/94	Optical Beam Delivery System (C715:33703)
Jack L. Jewell Greg R. Olbright	5,295,147	03/15/94	Vertical Cavity, Surface-Emitting Laser with Expanded Cavity (C715:33704)
Gregory R. Olbright Jack L. Jewell	5,283,447	02/01/94	Integration of Transistors with Vertical Cavity Surface Emitting Lasers (C715:33705)
Gregory R. Olbright Jack L. Jewell	5,266,794	11/30/93	Vertical-Cavity Surface Emitting Laser Optical Interconnect Technology (C715:33706)

PATENT

REEL: 9711 FRAME: 0205

PATENT

REEL: 024278 FRAME: 0274

ASSIGNMENT

Docket No. C715:30/DBP

<u>Inventor</u>	<u>Patent No.</u>	<u>Issue Date</u>	<u>Title/Docket #</u>
Jack L. Jewell Gregory R. Olbright	5,245,622	09/14/93	Vertical-Cavity Surface-Emitting Lasers with Intra-Cavity Structures (C715:33707)

AND WHEREAS, CIELO COMMUNICATIONS, INC., a Delaware corporation, having a place of business at 325 Interlocken Parkway, Building A, Broomfield, Colorado 80021 (together with any successors, legal representatives of assigns thereof, called ASSIGNEE herein) wants to acquire the entire right, title, and interest in and to said improvements, patents, and patent applications.

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR has sold, assigned, transferred and set over, and does sell, assign, transfer and set over to ASSIGNEE the entire right, title, and interest in and to said improvements, and said patents and patent applications and all divisions and continuations of said patent applications, and all United States Letters Patents which may be granted thereon and all reissues, reexaminations and extensions of all said patents, and all priority rights under all available International Agreements, Treaties and Conventions for the protection of intellectual property in its various forms in every participating country, and all applications for patents (including related rights such as utility-model registrations, inventor's certificates, and the like) heretofore or hereafter filed for said improvements in all foreign countries (including all continuations, divisions and substitutes thereof), and all patents (including all extensions, renewals, substitutes, and reissues thereof) granted for said improvements in all foreign countries and including all damages and the right to sue for past infringements of all such patents; and ASSIGNOR hereby authorizes and requests the United States Commissioner of Patents and Trademarks, and any officials of foreign countries whose duty it is to issue patents on applications as aforesaid, to issue all patents for said improvements to ASSIGNEE in accordance with the terms of this Assignment;

AND ASSIGNOR HEREBY covenants that ASSIGNOR has the full right to convey the interest herein assigned, and that ASSIGNOR has not executed, and will not execute, any agreement in conflict herewith;

AND ASSIGNOR HEREBY further covenants and agrees that ASSIGNOR will communicate to ASSIGNEE any facts known to ASSIGNOR respecting said improvements and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute and reissue applications, make all rightful oaths and generally do everything possible to aid ASSIGNEE to obtain and enforce patent protection for said improvements in all countries.


PATENT

REEL: 9711 FRAME: 0206
PATENT

REEL: 024278 FRAME: 0275

IN TESTIMONY WHEREOF, ASSIGNOR through its authorized officer hereunto set its hand this 13th
day of JANUARY, 19 99.

VIXEL CORPORATION

By Kurtis L. Adams
Name: KURTIS L. ADAMS
Title: CHIEF FINANCIAL OFFICER

STATE OF Washington ;
COUNTY OF King ;

On January 13, 1999, before me Tamara F. Barrat, Notary Public,
personally appeared 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/she executed the same in his/her authorized capacity, and
that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Tamara F. Barrat
Signature of Notary

DBP/tmw
TMW PAS165705 1-12/98 10:21 am

TAMARA F. BARRAT
STATE OF WASHINGTON
NOTARY PUBLIC
7-06-02-16