

PATENT ASSIGNMENT

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SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Michael G. Vrazel</td> <td>07/18/2002</td> </tr> <tr> <td>Stephen E. Ralph</td> <td>07/18/2002</td> </tr> <tr> <td>Vincent Mark Hietala</td> <td>07/18/2002</td> </tr> </tbody> </table>		Name	Execution Date	Michael G. Vrazel	07/18/2002	Stephen E. Ralph	07/18/2002	Vincent Mark Hietala	07/18/2002
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Michael G. Vrazel	07/18/2002								
Stephen E. Ralph	07/18/2002								
Vincent Mark Hietala	07/18/2002								
RECEIVING PARTY DATA									
Name:	Quellan, Inc.								
Street Address:	250 14th Street, N.W.								
City:	Atlanta								
State/Country:	GEORGIA								
Postal Code:	30318								
PROPERTY NUMBERS Total: 1									
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11543693</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11543693				
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Application Number:	11543693								
CORRESPONDENCE DATA									
Fax Number:	(404)572-5134								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
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Address Line 4:	Atlanta, GEORGIA 30309-3521								
ATTORNEY DOCKET NUMBER:	07982.105034.3411.7882								
NAME OF SUBMITTER:	Minikia D. Blair, Paralegal								

Total Attachments: 3
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PATENT
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ASSIGNMENT

WHEREAS, we, **Michael G. Vrazel**, a citizen of the United States of America, residing at 379 Calhoun Street, N.W., Atlanta, Georgia 30318; **Stephen E. Ralph**, a citizen of the United States of America, residing at 115 Mark Trail, Atlanta, Georgia 30328; and **Vincent Mark Hietala**, a citizen of the United States of America, residing at 6200 Eubank, N.E., Apt. 528, Albuquerque, New Mexico 87111; have invented certain inventions and improvements disclosed in an application for Letters Patent entitled "**Multilevel Pulse Position Modulation for Efficient Fiber Optic Communication**", filed in the United States Patent and Trademark Office on March 29, 2002, and assigned U.S. Serial No. 10/112,586; and

WHEREAS, **Quellan, Inc.**, a corporation of the State of Delaware having a principal place of business at 250 14th Street, N.W., Atlanta, Georgia 30318, is desirous of acquiring an interest in the same;

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which we hereby acknowledge, we, **Michael G. Vrazel**, **Stephen E. Ralph**, and **Vincent Mark Hietala**, by these presents do sell, assign and transfer unto **Quellan, Inc.**, the full, exclusive and entire right, title, and interest in and to said application, in and to any divisions, continuations, and reissues thereof, and in and to all inventions and improvements disclosed and described in said application, preparatory to obtaining Letters Patent of the United States therefor; and we hereby request the Commissioner of Patents and Trademarks to issue any and all Letters Patent of the United States resulting from said application, or from a division, continuation, or reissue thereof, to **Quellan, Inc.** as the assignee, for its interest and for the sole use and benefit of **Quellan, Inc.** and its assigns and legal representatives;

For the same consideration, we, by these presents do sell, assign, and transfer to **Quellan, Inc.**, the full, exclusive, and entire right, title and interest in and to any foreign application or applications corresponding to said application, in whole or in part, in countries other than the United States, in and to any Letters Patent and similar protective rights granted on

said foreign applications, and in and to the right to claim any applicable priority rights arising from or required for said foreign applications under the terms of any applicable conventions, treaties, statutes, or regulations; said foreign applications to be filed and issued in the name of **Quellan, Inc.**, or its designee insofar as permitted by applicable law.


AND, for the same consideration, we agree to sign all lawful papers, execute all division, continuing, reissue and other applications, make all assignments and rightful oaths, and generally do everything possible to aid **Quellan, Inc.**, its successors, assigns, and nominees, to obtain and enforce proper protection for all said inventions and improvements in all countries throughout the world.



MICHAEL G. VRAZEL

STATE OF Georgia

Before me, a Notary Public in and for the State of Georgia, on this 18
day of July, 2002, personally appeared **Michael G. Vrazel**, who being duly sworn,
signed and acknowledged the foregoing Assignment as his free act and deed.



NOTARY PUBLIC

(SEAL)

My Commission Expires:

Notary Public, Fulton County, Georgia
My Commission Expires November 23, 2003

Stephen E. Ralph
STEPHEN E. RALPH

STATE OF Georgia

Before me, a Notary Public in and for the State of Georgia, on this 18 day of July, 2002, personally appeared **Stephen E. Ralph**, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

Sue Davis
NOTARY PUBLIC

(SEAL)

My Commission Expires:

Notary Public, Fulton County, Georgia
My Commission Expires November 23, 2003

Vincent Mark Hietala
VINCENT MARK HIETALA

STATE OF Georgia

Before me, a Notary Public in and for the State of Georgia, on this 18 day of July, 2002, personally appeared **Vincent Mark Hietala**, who being duly sworn, signed and acknowledged the foregoing Assignment as his free act and deed.

Sue Davis
NOTARY PUBLIC

(SEAL)

My Commission Expires:

Notary Public, Fulton County, Georgia
My Commission Expires November 23, 2003

K&S Docket No.: 07982.105003 US