

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
CHRIS WILHELM BARNARD	11/29/2010
RECEIVING PARTY DATA	
Name:	VELLO SYSTEMS, INC.
Street Address:	1530 O'BRIEN DRIVE
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State/Country:	CALIFORNIA
Postal Code:	94025
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	15851673
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NAME OF SUBMITTER:	GREGORY D. CALDWELL
SIGNATURE:	/Gregory D. Caldwell/
DATE SIGNED:	02/15/2019
Total Attachments: 2	
source=37560.602DC2 Assignment Barnard to Vello filed 20190215#page1.tif	
source=37560.602DC2 Assignment Barnard to Vello filed 20190215#page2.tif	

ASSIGNMENT

I, as the below sole inventor, for good and valuable consideration, receipt of which is hereby acknowledged, have assigned and do hereby assign to:

**VELLO SYSTEMS, INC.
1530 O'Brien Drive
Menlo Park, CA 94025**

a corporation (hereinafter referred to as "Assignee"), its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter invented by **Chris Wilhelm Barnard** disclosed and/or claimed in applications for Letters Patent of the United States of America filed concurrently herewith, entitled:

"Optical Subchannel Routing, Protection Switching and Security"

and first signed by me on the date set forth below;

and in and to any and all divisions, reissues, continuations and extensions thereof; and in and to all corresponding applications for Letters Patent and all Convention and Treaty Rights of any kind, in all countries throughout the world, for all such subject matter.

I hereby authorize and request that the Patent Office Officials in the United States, and in countries foreign to the United States, issue any and all of said Letters Patent or similar documents, when granted, to said Assignee, as the Assignee of our entire right, title and interest in and to the same, for the sole use and enjoyment of said Assignee, its successors and assigns.

Further, I agree that I will communicate to said Assignee, or its representatives, any facts known to me respecting said invention, and testify in any legal proceedings, sign all lawful papers, execute all divisions, continuations, substitutions, and renewal reexamination and reissue applications, execute all necessary Assignment papers to cause any and all of said Letters Patent to be issued to said Assignee, make all rightful oaths and generally do everything necessary or desirable to aid said Assignee, its successors and assigns, to obtain and enforce proper protection for said invention in the United States.

The undersigned hereby authorizes the firm of IPxLaw Group, LLP to correct errors in this assignment or to insert any further identification or other information necessary or desirable to make this assignment suitable for recordal in the United States Patent Office, and any Patent Office foreign to the United States.

In Testimony Whereof, I hereunto set my hand.

SIGNATURES

Full Name of Sole Inventor: Chris Wilhelm Barnard
Home Address: 587 Turnbull Court, Sunnyvale, CA 94087
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Citizenship: ~~U.S.A.~~ CANADA
Inventor's Signature: Chris Barnard Date: Nov. 29, 2010