# PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
Avio Digital, Inc.	06/23/2000

### **RECEIVING PARTY DATA**

Name:	Centillium Communications, Inc.	
Street Address:	47211 Lakeview Boulevard	
City:	Fremont	
State/Country:	CALIFORNIA	
Postal Code:	94538	

#### PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	09079914

### **CORRESPONDENCE DATA**

Fax Number: (650)938-5200

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

Phone: 4158752444

Email: rhulse@fenwick.com
Correspondent Name: Robert A. Hulse
Address Line 1: 801 California Street

Address Line 4: Mountain View, CALIFORNIA 94041

ATTORNEY DOCKET NUMBER: 21676-05244

Robert A. Hulse

Total Attachments: 2

NAME OF SUBMITTER:

source=5244\_Assig\_Avio\_Centillium#page1.tif source=5244\_Assig\_Avio\_Centillium#page2.tif

340.00

PATENT REEL: 019853 FRAME: 0849

# **ASSIGNMENT**

For good and valuable consideration, the receipt of which is hereby acknowledged, Avio Digital, a California corporation, having a place of business at 957 Industrial Road, San Carlos, California 94070 ("ASSIGNOR"), has sold, assigned, and transferred and does hereby sell, assign, and transfer to Centillium Communications, Inc., a Delaware corporation, having a place of business at 47211 Lakeview Boulevard, Fremont, California 94538 ("ASSIGNEE"), for itself and its successors, transferees, and assignees, the following:

1. The entire worldwide right, title, and interest in all inventions and improvements ("SUBJECT MATTER") that are disclosed in the following applications ("PATENT RIGHTS"):

Country:	Patent Application Serial No.:	Title:	Filing Date:
US	09/079,914	Synchronous Network For Digital Media Streams	05/15/98
US	60/154,902	System And Methods For The Simultaneous Delivery Of Audio, Video, Telephony, Date, And Home Control Over A Single Wire	09/20/99
US	60/154,902	System And Method Of Network Data Encoding Utilizing Groups Of Five Symbols Having Five Levels Each	09/20/99
US	60/154,902	System And Method Of Digital In-Stream Signaling And Distributed Processing In A Loop Architecture	09/20/99
US	60/154,902	System And Method Of Synchronizing The Time Base Of Devices Connected On A Synchronous Logical Loop Utilizing Bi- Directional Communication To Almost Arbitrary Accuracy	09/20/99
US	60/145,461	Media Access Controller	07/23/99
US	N/A	System And Method Of Timing Recovery In An	N/A
	(based on 60/145.461)	Oversampled System In The Presence Of Echo Without Using An Echo Canceller	
US	N/A	Method And Apparatus For Transmitting Digital Data Over Coaxial Cable In A Restricted Bandwidth	N/A

## and;

ASSIGNOR agrees to do the following, when requested, and without further consideration, in order to carry out the intent of this Assignment: (1) execute all oaths, assignments, powers of attorney, applications, and other papers necessary or desirable to fully secure to ASSIGNEE the rights, titled and interests herein conveyed; (2) communicate to ASSIGNEE all known facts relating to the SUBJECT MATTER of the above-identified patent applications and Letters Patents; and (3) generally do all lawful acts that ASSIGNEE shall consider desirable for securing, maintaining, and enforcing worldwide patent protection relating to the SUBJECT MATTER of the above-identified patent applications and Letters Patents and for vesting in ASSIGNEE the rights, titles, and interests

PATENT REEL: 019853 FRAME: 0850

<sup>2.</sup> The entire worldwide right, title, and interest in and to:

<sup>(</sup>a) the PATENT RIGHTS, including any right of priority; (b) any divisional, continuation, substitute, renewal, reissue, and other related applications thereto which have been or may be filed in the United States or elsewhere in the world; (c) any patents which may be granted on the applications set forth in (a) and (b) above; and (d) the right to sue in its own name and to recover for past infringement of any or all of any applications or patents issuing therefrom.

herein conveyed. ASSIGNOR further agrees to provide any successor, transferee, assignee, or legal representative of ASSIGNEE with the benefits and assistance provided to ASSIGNEE hereunder.

ASSIGNOR represents that ASSIGNOR has the rights, titles, and interests to convey as set forth herein, and covenants with ASSIGNEE that the ASSIGNOR has made or will make hereafter no assignment, grant, mortgage, license, or other agreement affecting the rights, titles, and interests herein conveyed.

ASSIGNOR: Avio Digital, Inc.	ASSIGNEE: Centillium Communications, Inc.
By:	By: Wuttlab
Print Name: E PERGEN-H	Print Name: John Lulitala
Title:	Title: VPTCFO
Date: 6 23/00	Date: 6/23/00
State of CALTERNA County of San CLara	
On June 23, 2000 before me,	[NOTARY PUBLIC]
[ASSIGNOR] satisfactory evidence to be the person whose name is subscribed to the	
me that [he/she] executed the same in [his/her] authorized capacity instrument the person, or the entity upon behalf of which the person ac	, and that by [his/her] signature on the
SUZI BACHAN Comm. # 1156591 NOTARY PUBLIC - CALIFORNIA City And County of San Francisco My Comm. Expires Sept. 26. 2001	liei Brewn
State of CALIBRAINA  County of Santa Charact	
On June 23, Zooo before me, [DATE]	NOTARY PUBLIC]
appeared John Luhraus personally known [ASSIGNEE]	to me or proved to me on the basis of
satisfactory evidence to be the person whose name is subscribed to the me that [he/she] executed the same in [his/her] authorized capacity	

Notary Seal

SUZI BACHAN
Comm. # 1156591
NOTARY PUBLIC-CALIFORNIA
City And County of San Francisco
Av Comm. Expires Sept. 26, 2001

instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

21676/01000/DOCS/1060898.1

RECORDED: 09/20/2007