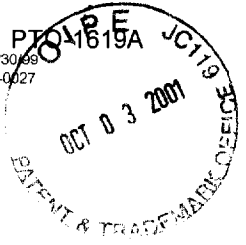


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10-16-2001

FORM PTO-1619A  
Expires 06/30/99  
OMB 0651-0027



101875005

U.S. Department of Commerce  
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**PATENT**

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10301

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Page 2

U.S. Department of Commerce  
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**PATENT**

**Correspondent Name and Address** Area Code and Telephone Number **(303) 379-1113**

Name **James M. Graziano**

Address (line 1) **Patton Boggs LLP**

Address (line 2) **P.O. Box 270930**

Address (line 3) \_\_\_\_\_

Address (line 4) **Louisville, CO 80027**

**Pages** Enter the total number of pages of the attached conveyance document including any attachments. # **6**

**Application Number(s) or Patent Number(s)**  Mark if additional numbers attached

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Patent Application Number(s)			Patent Number(s)		
<b>09029585</b>	<b>09029295</b>	<b>09077219</b>	<b>5436893</b>	<b>5615211</b>	<b>5712853</b>
<b>09172545</b>	<b>60093681</b>	<b>09744324</b>	<b>5949782</b>	<b>6044060</b>	<b>5841773</b>
<b>60093826</b>	<b>09744323</b>	<b>09289463</b>	<b>6122253</b>	<b>6115358</b>	<b>6028840</b>

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor. Month Day Year

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Enter PCT application number only if a U.S. Application Number has not been assigned.

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PCT \_\_\_\_\_ PCT \_\_\_\_\_ PCT \_\_\_\_\_

**Number of Properties** Enter the total number of properties involved. # **33**

**Fee Amount** Fee Amount for Properties Listed (37 CFR 3.41): \$ **1,320.00**

Method of Payment: Enclosed  Deposit Account

Deposit Account (Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: # **50-1848**

Authorization to charge additional fees: Yes  No

**Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

**John Cumberton** \_\_\_\_\_ **9/26/01**

Name of Person Signing Signature Date

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Name (line 2)

Execution Date  
Month Day Year

Name (line 1)

Name (line 2)

Name (line 1)

Execution Date  
Month Day Year

Name (line 2)

Receiving Party(ies)

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Address (line 1)

Address (line 2)

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If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Application Number(s) or Patent Number(s)

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Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

09289464

09371196

09408449

09806783

09636277

Patent Number(s)

6041064

6088365

6049544

6141322

6067286

5461609

5796956

5659540

5781529

5864555



**PATENT/INVENTION ASSIGNMENT AND TRANSFER**

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sums recited in the Asset Purchase Agreement between ASSIGNOR and ASSIGNEE of even date herewith, the receipt of which is hereby acknowledged, and for other good and valuable consideration,

**ASSIGNOR:** **General DataComm, Inc.**  
**Middlebury, CT**  
**A Delaware corporation**

hereby irrevocably sells, conveys, assigns and transfers to

**ASSIGNEE:** **Ahead Communications Systems, Inc.**  
**Middlebury, CT**  
**A Delaware corporation**

and its successors, assigns and legal representatives, the entire rights, title and interests, including all rights, appurtenant thereto, in and to certain Letters Patent and applications therefore and any continuations, continuations-in-part, divisionals, renewals, substitutions, reissues, re-examinations or extensions, thereof (the "Patents") identified in Exhibit 1 attached hereto, for the United States and its territorial possessions and for all countries foreign to the United States, including any and all associated rights, title and interests in and to all invention disclosures, whether or not formally disclosed, in the United States or in any country foreign to the United States, to be obtained for any and all inventions, concepts and ideas ("Inventions") constituting Acquired Assets as defined in the above referenced Asset Purchase Agreement, including all related rights of priority arising from the Patents and/or the Inventions under all treaties, conventions or agreements, and/or all the rights and privileges under any and all forms of United States or foreign protection outside of the United States, and which is commensurate with the full term of the granted patent.

This assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country for proof of right of Assignee to obtain and/or apply for a Patent or other form of protection for the invention and to claim the aforementioned benefit of the right of priority.

ASSIGNOR agrees that ASSIGNOR will execute, without further consideration, such further instruments and documents as are or may be necessary or convenient to effectuate and carry out this assignment and transfer.

ASSIGNOR agrees to the terms recited herein as evidenced by the signature of ASSIGNOR'S duly authorized representative.

Effective Date: August 13, 2001

CP Johnson  
General DataComm, Inc.

United States of America )  
State of Connecticut )  
County of New Haven )

On this 8<sup>th</sup> day of August, 2001, the above named individual personally appeared on behalf of the above entity in front of me and is known to be the person who is identified above, and who executed the foregoing assignment instrument and acknowledged to me that CP Johnson executed the same of his own free will for the purpose therein expressed.

Laurie A. Elias-Parker  
Notary Public

**LAURIE A. ELIAS-PARKER**  
**NOTARY PUBLIC**  
**My Commission Expires May 31, 2006**

**GDC ATM Patents, Patent Applications, and Patents in Process**

Attorney File #	Title	US File Date	US File Serial #	US Patent #	US Patent Date
GDC-111	Synchronizing ATM AAL2 Minicell Generation to Multiple Voice Processing Functions				
GDC-120	SS7 Signalling Gateway Server for Voice Trunking over ATM				
GDC-091	High Speed Switching of Transport Circuits				
GDC-097	Planned Capacity Based Routing for Wide Area ATM Systems				
GDC-098	Load Balancing in ATM Networks				
GDC-088	Priority in ATM Networks				
GDC-126	Voice Transmission Utilizing ATM Protocols				
GDC-086	ATM Network Switch Having Enhanced Call Setup Capability	02/27/98	09/029,585		
GDC-087	ATM Switch with VC Priority Buffers	03/05/98	09/029,285		

Attorney File #	Title	US File Date	US File Serial #	US Patent #	US Patent Date
GDC-088	Controlled Available Bit Rate Service in an ATM Switch	05/19/98	09/077,219		
GDC-118	Hot Insertable UTOPIA Interface	10/14/98	09/172,545		
GDC-128	A Dynamic Buffer Management for ATM Switches	provisional 7/22/98 final 1/19/01	60/093681 09/744,324		
GDC-129	An Explicit Rate ABR Algorithm for New Generation of ATM Switches	provisional 7/22/98 final 1/19/99	60/093826 09/744,323		
GDC-130	Method for Mapping Narrowband DSO circuits into AAL type 2 SVC's	04/09/99	09/289,463		
GDC-131	Method & Apparatus for Generation of ATM AAL2 type Broadband Setup Message from Narrowband Setup request	04/09/99	09/289,464		
GDC-132	Transporting Narrowband (voice) Traffic over a Broadband (ATM) Network	08/10/99	09/371,196		
GDC-134	Data Switch	9/29/99	09/408,449		
GDC-135	Bundle Shaping or Policing	09/29/99	PCT/US99/22643		

Attorney File #	Title	US File Date	US File Serial #	US Patent #	US Patent Data
GDC-137	Traffic Shaping Mechanism for Packetized Data In a Digital Network	08/10/00	09/636,277		
GDC-071	Allow Access to ILMl Address Registration MIB from Multiple Links and from SNMP Manager				
GDC-073	Route Encapsulation and Recovery of Node Dependent Paths				
GDC-085	Service Specific Convergence Sublayer for Narrowband Packetization & Transport				
GDC-089	Direct Telnet Protocol Over SPVCs				
GDC-117	Multicast Connection Label Allocator				
GDC-056	ATM Cell Switch Suitable for Multicast Switching	11/05/93	08/147,939	5,436,893	07/25/95
GDC-057	Data Network Switch	10/04/94	08/317,336	5,461,609	10/24/95
GDC-059	ATM Cell Switch	03/17/95	08/406,300	5,796,956	08/18/98



Attorney File #	Title	US File Date	US File Serial #	US Patent #	US Patent Date
GDC-063	Packet Mode Transfer for Microcell TDM Backplane	09/22/95	08/532,888	5,615,211	03/25/97
GDC-064	Use of OAM Cells across an ATM Frame UNI	09/11/95	08/526,846	5,712,853	01/27/98
GDC-070	User Programmable OAM Loopbacks and Physical Loopback Detection in an ATM Network	12/15/95	08/573,244	5,659,540	08/19/97
GDC-072	Routing ATM Switched Virtual Circuit Calls	03/27/96	08/624,812	5,781,529	07/14/98
GDC-075	"Proxy" Connection End-Points for ATM OAM Functions	07/05/96	08/675,955	5,864,555	01/26/99
GDC-077	Correlation Tag for Billing in ATM	03/29/96	08/622,897	5,949,782	09/07/99
GDC-079	A Traffic Shaping ATM Network Switch	09/15/97	08/913,815	6,044,060	03/28/00
GDC-080	ATM Network Switch with Congestion Level Signaling for Controlling Cell Buffers	05/10/96	08/644,308	5,841,773	11/24/98
GDC-082	ATM Network Switch Congestion Control	12/04/97	08/973,441	6,122,253	09/19/00
GDC-083	Controlling the Flow of ATM Cells in an ATM Network	12/04/97	08/973,442	6,115,358	09/05/00

Attorney File #	Title	US File Date	US File Serial #	US Patent #	US Patent Date
GDC-084	Method & Apparatus for Connection Admission Control of Variable BitRate Traffic in an ATM Switch	10/01/97	08/942,021	6,028,840	02/22/00
GDC-108	Dynamic Data Distribution to/from DSP Array (in VSM)	01/29/98	09/015,303	6,041,064	03/21/00
GDC-109	ATM AAL1 & AAL2 Adaptations Using Per Bearer Channel Selectable Data Patch	01/29/98	09/015,302	6,088,365	07/11/00
GDC-110	Fixed-Rate Serial Data Highway for Conveying Variable Rate Data for ATM AAL2 Processing	01/29/98	09/015,301	6,049,544	04/11/00
GDC-113	Precedence & Preemption in ATM Call Admission Control	05/09/97	08/853,654	6,141,322	10/31/00
GDC-139	Coordinating Multiple Processors (tent)				
GDC-140	Efficient Task Sharing between processors (tent)				
GDC-141	Signalling of an Internal Event in an Array of Processors (tent)				
GDC-142	Large Scale Multi-Environment DSP Array (tent)				

*Shrobb*  
*1/1/98*

Attorney File #	Title	UK Date	UK Serial #	US File Date	US File Serial #	US Patent #	US Patent Date
	ATM Network Switch (Semi-permanent Virtual Paths & Circuits)	10/20/99	2 306 849				
	Virtual Channel Management	05/11/98	2 337 404				
GDC-136	Network Management Information Processing	10/02/98	2 344 262	03/30/01	09/806,763		
GDC-078	Data Network Switch with Fault Tolerance	03/22/00	2 299 914	10/07/97	08/930,973	6,067,286	05/23/00
GDC-133	Communication Network	02/10/98	2 344 029	09/29/99	PCT/US99/22653		
	Data Switch Performance Monitoring	10/02/98	2 342 527				