

11-17-2004

Docket No.: 86654-M (page 1 of 4)

EET

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

PART 1 OF 2

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To the Director of the United States Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
HYPERCHIP INC.

2. Name and address of receiving party(ies):

Name: **4198638 CANADA INC.**

Address: **4028 Marlowe**

Additional names(s) of conveying party(ies)

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

City: **Montreal** State/Prov.: **Quebec**

Country: **CANADA** ZIP: **H4A 3M2**

Execution Date: **October 14, 2004**

Additional name(s) & address(es)

☐ Yes ☒ No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is:

Patent Application No.

Filing date

B. Patent No.(s)

10/330,069

December 30, 2002

10/330,068

December 30, 2002

10/462,283

June 17, 2003

10/739,047

December 19, 2003

Additional numbers

☒ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: **Stephan P. Georgiev**

Registration No. **37,563**

Address: **SMART & BIGGAR**

1000 de la Gauchetière Street West

Suite 3300

City: **Montreal**

State/Prov.: **Quebec**

Country: **CANADA**

ZIP: **H3B 4W5**

6. Total number of applications and patents involved:

13

7. Total fee (37 CFR 3.41):.....\$ **520.00**

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Stephan P. Georgiev, Reg. No. 37,563

Name of Person Signing

11/16/2004 DBYRNE 00000148 10330069

Signature

November 11, 2004

Date

11

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PATENT

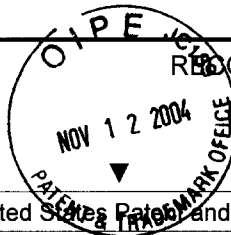
REEL: 015983 FRAME: 0675

FORM PTO-1695 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp. 5/31/2002)
P08A/REV03

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☐ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other _____

City: _____ State/Prov.: _____

Country: _____ ZIP: _____

Execution Date: _____

Additional name(s) & address(es) ☐ Yes ☐ No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.

Filing date

B. Patent No.(s)

10/330,231

December 30, 2002

10/330,232

December 30, 2002

10/330,234

December 30, 2002

10/330,067

December 30, 2002

Additional numbers

☒ Yes ☐ No

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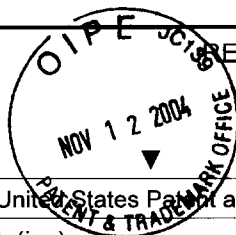
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PATENT
REEL: 015983 FRAME: 0676

FORM PTO-1595 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp. 5/31/2002)
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Execution Date: _____

City: _____ State/Prov.: _____

Country: _____ ZIP: _____

Additional name(s) & address(es)

☐ Yes ☐ No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: _____

Patent Application No.

Filing date

B. Patent No.(s)

10/330,233

December 30, 2002

10/330,319

December 30, 2002

10/606,886

June 27, 2003

10/677,333

October 3, 2003

Additional numbers

☒ Yes ☐ No

5. Name and address of party to whom correspondence concerning document should be mailed:

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Registration No. _____

Address: _____

City: _____ State/Prov.: _____

Country: _____ ZIP: _____

6. Total number of applications and patents involved: 

7. Total fee (37 CFR 3.41):.....\$ _____

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PATENT
REEL: 015983 FRAME: 0677

FORM PTO-1595 (Modified)
(Rev. 03-01)
OMB No. 0651-0027 (exp. 5/31/2002)
P08A/REV03

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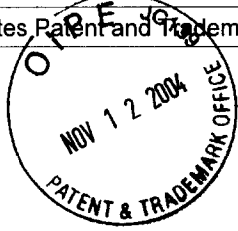
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Execution Date: _____

City: _____ State/Prov.: _____

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Additional name(s) & address(es)

☐ Yes ☐ No

4. Application number(s) or patent numbers(s):

If this document is being filed together with a new application, the execution date of the application is: _____

Patent Application No.

Filing date

B. Patent No.(s)

10/677,292

October 3, 2003

Additional numbers

☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

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Registration No. _____

Address: _____

City: _____ State/Prov.: _____

Country: _____ ZIP: _____

6. Total number of applications and patents involved:

7. Total fee (37 CFR 3.41):.....\$ _____

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PATENT
REEL: 015983 FRAME: 0678

ASSIGNMENT

WHEREAS,

HYPERCHIP INC. (acting through RSM RICHTER INC., interim receiver for Hyperchip Inc. pursuant to court orders dated July 13, 2004 and September 20, 2004)

hereinafter referred to as Assignor, whose full post office address is,

2 Place Alexis Nihon, Montreal, Quebec, H3Z 3C2

is the owner of the Intellectual Property as fully set forth and described in the Letters Patents and Patent Applications listed on Schedule A hereto attached,

hereinafter referred to as The Invention(s);

AND WHEREAS,

4198638 Canada Inc.

hereinafter referred to as Assignee, whose full post office address is,

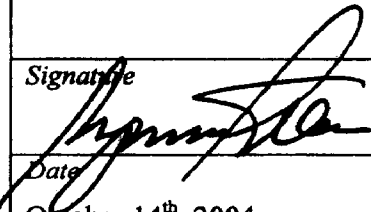
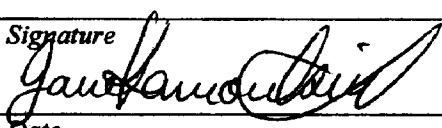
4028 Marlowe, Montreal, Quebec, H4A 3M2

desires to acquire Assignor's entire right, title and interest in and to The Invention(s);



NOW THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, and pursuant to the terms and conditions of the Sale Agreement dated September 17, 2004, Assignor does hereby sell, assign, transfer and set over to Assignee, its successors, assigns, or legal representatives, its entire right, title and interest for Canada, the United States and all other countries throughout the World in and to The Invention(s), together with its entire right, title and interest to any and all Letters Patent that have issued or may issue for The Invention(s), including any and all divisions, reissues, continuations and extensions of The Invention(s), to the full end of the term for which each said Letters Patent may be granted, and including any right to claim priority based on The Invention(s), and including the right to bring suit and recover damages for past infringement, the same to be held and enjoyed as fully and completely as the same would have been held and enjoyed by Assignor had this Assignment not been made;

AND ASSIGNOR, on behalf of itself and its executors and administrators, does hereby covenant and agree to do all such lawful acts and things and to execute without further consideration such further lawful assignments, documents, assurances, applications and other instruments as may reasonably be required by said Assignee, its successors, assigns, or legal representatives, to obtain any and all Letters Patent for The Invention and vest the same in said Assignee, its successors, assigns, or legal representatives.

THE PARTIES agree to this Assignment being drawn up in the English language.

Assignor	Witness
Raymond Massi <i>Per</i> RSM RICHTER INC. (interim receiver of Hyperchip Inc.)	Janet Kamoutsis
<i>Signature</i> 	<i>Signature</i> 
<i>Date</i> October 14 th , 2004	<i>Date</i> October 14 th 2004

THE UNDERSIGNED Assignee hereby accepts the Assignment of the Invention(s) and associated Letters Patent and Patent Applications.

Assignee	Witness
Frances Layden <i>Per</i> 4198638 CANADA INC.	<i>Name</i> LINDA HUBERT
<i>Signature</i> 	<i>Signature</i> 
<i>Date</i> October 14, 2004	<i>Date</i> October 14, 2004

Petabit Router (PBR) Patents

PBR Data Plane

Inventor (1)	Category	File Number	Application number	Description	Status	Filing Date
				PBR LOGICAL ROUTERS		
Daniel G. Clemmensen	PBR-Software	P(US)2002-109 P(WO)2003-015	US 10/299,857 PCT/CA03/01711	Forwarding System With Multiple Logical Sub-Systems	Pending	20/11/2002
				PBR TRAFFIC MANAGEMENT		
Steve Rochon, et al.	PBR-TM	P(US)2001-041 P(CN)2004-004 P(EP)2004-005	US 09/963,487	Congestion Avoidance in Packet Switching Devices	Pending	27/09/2001
Marcelo A.R. De Maria, et al.	PBR-TM	P(US)2001-102	US 09/943,004	Congestion Management for Packet Routers	Pending	31/08/2001
John Haughey	PBR-TM	P(US)2003-004	US 10/446,707	Forwarding Data Packets Over Multiple Parallel Paths	Pending	29/05/2003
John Haughey	PBR-TM	P(US)2003-005	US 10/446,884	Forwarding Data Packets Over Multiple Parallel Paths	Pending	29/05/2003
Richard Norman, et al.	PBR-TM	P(US)2003-006	US 10/448,196	Forwarding Data Packets Over Multiple Parallel Paths	Pending	30/05/2003
Mohammed Sammour, et al.	PBR-TM	P(WO)2003-014	PCT/CA03/01353	Packet Flow Regulation and Verification of Switching Entity	Pending	03/09/2003

PBR Data Plane (Continued)

Inventor (1)	Category	File Number	Application number	Description	Status	Filing Date
				PBR SWITCH FABRIC (Matrix, OIM)		
Richard Norman, et al.	PBR-Fabric	P(US)2001-044 P(EP)2003-017 P(CN)2003-018 P(CA)2003-019	US 09/870,766 02 729 739.9	Switch Fabric Architecture Implemented on a Single Chip	Pending	01/06/2001
Richard Norman, et al.	PBR-Fabric	P(US)2001-045	US 09/870,800	Switch Fabric with Distributed Scheduling	Pending	01/06/2001
Richard Norman, et al.	PBR-Fabric	P(US)2001-046	US 09/870,703	Switch Fabric with Distributed Arbitration	Pending	01/06/2001
Richard Norman, et al.	PBR-Fabric	P(US)2001-047	US 09/870,767	Switch Fabric with Inter-Cell Control for Regulating Packet Flow	Pending	01/06/2001
Richard Norman, et al.	PBR-Fabric	P(US)2001-048	US 09/870,841	Switch Fabric with Control for Regulating Injection of Packets	Pending	01/06/2001
René Toutant, et al.	PBR-Fabric	P(US)2001-139	US 09/994,017	Programmable Interconnect System for Scalable Router	Pending	27/11/2001
				PBR MECHANICAL (Matrix, OIM)		
Dorinel Patriche, et al.	PBR-Mech	P(US)2000-094	US 09/871,959	Compact Shelf Unit for Electronic Equipment Rack	Issued	04/06/2001
Emmanuel Stathopoulos, et al.	PBR-Mech	P(US)2000-153	US 09/871,942	Insertion and Extraction Aid for Printed Circuit Card	Issued	04/06/2001
Dorinel Patriche	PBR-Mech	P(US)2001-068	US 09/870,842	Midplane for Data Processing Apparatus	Issued	01/06/2001
Nicolas Villeneuve	PBR-Mech	P(US)2003-002	US 10/445,315	Apparatus and Method for Inspecting Optical Fiber end Face	Pending	27/05/2003
Daniel Tasse	PBR-Mech	P(US)2003-007	US 10/447,329	Circuit Breaker Module Safety Device and Method	Pending	29/05/2003

PBR Control Plane

Inventor (1)	Category	File Number	Application number	Description	Status	Priority Date
Richard Norman, et al.	PBR - Control Plane	P(US)2001-078	US 09/916,200	Storage and Processing of Routing Information	Pending	27/07/2001
Jérôme Duplaix, et al.	PBR - Control Plane	P(US)2001-079	US 09/915,332	Router with a Distributed Routing Architecture	Pending	27/07/2001
John Haughey	PBR - Control Plane	P(US)2001-110	US 09/981,883	Executing Multiple Tasks in a Task Set	Pending	19/10/2001
Jérôme Duplaix, et al.	PBR - Control Plane	P(EP)2004-002		Scalable Router	Pending	

Orphaned IP

Inventor (1)	Category	File Number	Application number	Description	Status	Filing Date	
				LARGE AREA (LA) IC - DEFECT TOLERANCE			
Richard Norman	LAIC-DT	P(CA)1996-002 P(JP)1996-004 P(KR)1996-005 P(US)1999-009 P(US)2000-116	2,185,787 7-524267 705245/96 US 09/376,194 US 09/679,168	Efficient Direct Cell Replacement Fault Tolerance	Pending Pending Issued Issued Issued		OR
Richard Norman	LAIC-DT	P(EP)1996-003	95912116.1	Defect Tolerance with Use of Unassigned Spare Cells	Issued	22/03/1995	
Richard Norman	LAIC-DT	P(US)1996-001	US 08/618,397	Direct Replacement Cell Fault Tolerance	Issued	22/03/1995	OR
Richard Norman	LAIC-DT	P(US)2002-124	US 10/330,069	Array of Discrete Modules Fabricated on a Wafer	Allowed	30/12/2002	
Richard Norman, et al.	LAIC-DT	P(US)2002-133	US10/324,071	Bus For Parallel Processing System	Pending	20/12/2002	OR
Yvon Savaria, et al.	LAIC-DT	P(US)2002-134	US 10/324,110	Large Scale Signal Paths in Parallel Processing System	Pending	20/12/2002	OR
Yvon Savaria, et al.	LAIC-DT	P(US)2002-135	US 10/323,896	Fault Tolerant Scan Chain for a Parallel Processing System	Pending	20/12/2002	OR
Richard Norman	LAIC-DT	P(US)2003-001	US10/368,003	Fault Tolerant Cell Array Architecture	Pending	19/02/2003	OR
				LA IC - INTER-RETICLE STITCHING			
Richard Norman	LAIC/IRS	P(US)1998-004	US 09/144,695	Integrated Circuit Having Lithographic Array Interconnections	Issued	01/09/1998	OR
Richard Norman, et al.	LAIC-IRS	P(US)2002-131	US 10/330,068	Wave-Front Clock Synchronization	Pending	30/12/2002	
Richard Norman, et al.	LAIC-IRS	P(US)2003-011	US 10/462,283	Bus Architecture with Efficient Use of Integrated Circuit Area	Pending	17/06/2003	
				LA IC - INPUT/OUTPUT			
Richard Norman	LAIC-I/O	P(US)1994-002	US 08/323,580	Massively-Parallel Array with Outputs from Individual Processors	Issued	17/10/1994	OR
Richard Norman	LAIC-I/O	P(EP)1999-013 P(GB)2003-003	00110048.6 00110048.6	Massively Parallel System w/ Photovoltaic Cells Display Architecture with Integrated Power Supply	Issued Validated	22/03/1995	OR
Richard Norman	LAIC-I/O	P(US)2001-183	US 10/000,813	Output and/or Input Coordinated Processing Array	Issued	30/11/2001	OR
				LA IC - SIGNAL INTERGRITY			

Inventor (1)	Category	File Number	Application number	Description	Status	Filing Date	
Karl Fecteau, et al. Yvon Savaria, et al.	LAIC-SI	P(US)2001-199 P(US)2001-200 P(US)2001-201 P(US)2001-019	US 10/022,856 US 10/022,852 US 10/023,478 US 10/022,851	Method for Reducing Interference on Nearby Conductors	Pending Allowed Pending Pending	20/12/2001	OR OR OR OR
Claude Thibeault et al.	LAIC-SI	P(US)2002-130	US 10/330,230	Reference Wires for an Electrical Bus	Pending	30/12/2002	
Richard Norman	LAIC-SI	P(US)2003-016	US 10/739,047	Conductive Fabric with Balanced Mutual Interference	Pending	19/12/2003	
				LA IC – MECHANICAL/PACKAGING			
Richard Norman	LAIC-Mech	P(US)2002-125	US 10/330,231	High-Performance Interconnect for Discrete Modules	Pending	30/12/2002	
Richard Norman	LAIC-Mech	P(US)2002-126	US 10/330,232	Connector Between Contact Pads on Two Surfaces	Pending	30/12/2002	
Richard Norman, et al.	LAIC-Mech	P(US)2002-127	US 10/330,234	Reduced Thermal Expansion Effects	Pending	30/12/2002	
Richard Norman	LAIC-Mech	P(US)2002-128	US 10/330,067	Defect Tolerant Method of Mounting Chip to Substrate	Pending	30/12/2002	
Richard Norman	LAIC-Mech	P(US)2002-129	US 10/330,233	Compound Semiconductor Structure	Pending	30/12/2002	
Richard Norman	LAIC-Mech	P(US)2002-132	US 10/330,319	Architecture for a Microelectronic Complex on a Planar Body	Pending	30/12/2002	
Richard Norman	LAIC-Mech	P(US)2003-008	US 10/458,734	Method for Continuous Linear Production of Integrated Circuits	Pending	11/06/2003	OR
Richard Norman, et al.	LAIC-Mech	P(US)2003-009	US 10/606,886	Flexible Device for Interfacing with a Wafer	Pending	27/06/2003	
Richard Norman	LAIC-Mech	P(US)2003-012		Connectors with Fault Tolerance	Pending	03/10/2003	
Richard Norman	LAIC-Mech	P(US)2003-013	US 10/677,292	Cooling Multiple Discrete Functional Modules	Pending	03/10/2003	