

11-20-1998

FORM PTO-1986

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U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

11/14/98



100908594

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):
CHOW, Henry **HUNG, Anthony**
JANOSKA, Mark **RAMASWAMY, Srinivasan**

Additional names(s) of conveying party(ies) attached? Yes No

2. Name and address of receiving party(ies):
 Name: **Newbridge Networks Corporation**
 Internal Address: _____
Attention: Mr. John Granchelli

Street Address: **600 March Road**
P.O. Box 13600
 City: **Kanata** State: **Ontario** ZIP: **K2K 2E6**

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:
 Assignment Merger
 Security Agreement Change of Name
 Other _____

Execution Date: **November 3, 1998 & November 4, 1998**

4. Application number(s) or patent number(s):
 If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) **09/140,059**

B. Patent No.(s)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:
 Name: **Blake, Cassels & Graydon**
 Internal Address: **Intellectual Property Department**
Attention: Mr. Alex Porat

Street Address: **199 Bay Street, Suite 2800**
Box 25, Commerce Court West
 City: **Toronto** State: **Ontario** ZIP: **M5L 1A9**

6. Total number of applications and patents involved: **1**

7. Total fee (37 CFR 3.41): \$ **40.00**
 Enclosed
 Authorized to be charged to deposit account

8. Deposit account number: _____
 (Attached duplicate copy of this page if paying by deposit account)

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9. Statement of signature.
To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

Alex Porat (Reg. 43,372) Alexander Porat November 9, 1998
 Name of Person Signing Signature Date

Total number of pages comprising cover sheet: **20**

CMB No. 0861-0011 (?? 4/94)
11/19/1998 DMGUYEN 00000160 09140059

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Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Box Assignments
Washington, D.C. 20231

PATENT
REEL: 9588 FRAME: 0494



Ontario

THE MANAGEMENT BOARD OF CABINET

I HEREBY CERTIFY AS FOLLOWS:

DOUGLAS MICHAEL GILL STEWART

of the Province of Ontario, whose name is subscribed to the attached Instrument, was, at the time of subscribing thereto, a NOTARY PUBLIC in and for the Province of Ontario, Canada, duly commissioned and duly authorized by the laws thereof to administer oaths, to take affidavits and to certify the proof of deeds and other instruments in writing to be recorded within the said Province;

I FURTHER CERTIFY THAT I have compared the signature of the said NOTARY PUBLIC subscribed to the attached Instrument with the specimen signature of the said NOTARY PUBLIC filed in this office and verily believe the said signature to be genuine; and THAT I have compared the impression of the Seal of the said NOTARY PUBLIC appearing on the attached Instrument with the specimen of the Seal filed in this office and verily believe the impression of the Seal to be genuine.

IN TESTIMONY WHEREOF I have hereunto set my Hand and affixed the Seal of the Management Board of Cabinet of the Province of Ontario at the City of Toronto in the said Province this tenth day of November, A.D. 1998.



Jane Jamnag

for SECRETARY OF THE MANAGEMENT BOARD OF CABINET

PATENT

REEL: 9588 FRAME: 0495

ASSIGNMENT

In consideration of the sum of one dollar and other good and valuable consideration, the receipt and sufficiency of which is acknowledged, we, the undersigned, whose names and full post addresses are set out below:

Name of Inventors	Addresses
CHOW, Henry	60 Beamish Crescent Kanata, Ontario K2K 2R7 Canada
HUNG, Anthony	30 McEwen Avenue Apt. 1407 Ottawa, Ontario K2B 5K8 Canada
JANOSKA, Mark	350 Bridge Street Carleton Place, Ontario K7C 3J1 Canada
RAMASWAMY, Srinivasan	30 McEwen Avenue Apt. 1709 Ottawa, Ontario K2B 5K8 Canada

do hereby sell, assign and transfer unto **Newbridge Networks Corporation**, hereinafter called the Assignee, whose full post office address is **Newbridge Networks Corporation, 600 March Road, P.O. Box 13600, Kanata, Ontario, K2K 2E6, Canada**, and to the Assignee's successors, assigns, nominees or other legal representatives, our entire right, title, interest, property and benefit for Canada, the United States of America and all other countries, in and to our invention relating to **TWO-COMPONENT BANDWIDTH SCHEDULER HAVING APPLICATION IN MULTI-CLASS DIGITAL COMMUNICATIONS SYSTEMS** as fully set forth and described in the application for Letters Patent in the United States, filed on **August 24, 1998**, and allotted serial


09/140,059, and in the application for Letters Patent in Canada, filed on August 19, 1998, and allotted serial no. 2,245,367, together with our entire right, title, interest, property and benefit for Canada, the United States of America and all other countries, in and to the aforementioned application, any foreign applications corresponding thereto and any Letters Patent which may issue for the invention from such applications, including all divisions, continuations, continuations-in-part, re-examinations, reissues and extensions, and any rights of priority resulting from the filing of the above-identified application under international conventions, treaties or otherwise, the same to be held and enjoyed as fully and exclusively as they would have been by us had this sale, assignment and transfer not been made;

We hereby authorize any official whose duty it is to grant patents, to grant any Letters Patent for the invention to the Assignee, and to its successors, assigns, nominees or other legal representatives;

We hereby covenant and agree, for ourselves and for our heirs, executors and administrators, to do all such things and to execute and deliver without further consideration such further assurances, applications, instruments, assignments and other documents as may reasonably be required by the Assignee to obtain Letters Patent in Canada, the United States of America and all other countries, for the invention, and vest or secure the same in the Assignee;

IN WITNESS HEREOF, we have hereunto signed our names on the day and year set forth below.

Signed at Kanata, in the Province of Ontario, Canada, this 4th day of November, 1998.



HENRY CHOW

Signed at Kanata, in the Province of Ontario, Canada, this 4th day of November, 1998.



ANTHONY HUNG

Signed at Kanata, in the Province of Ontario, Canada, this 3rd day of November, 1998.



MARK JANOSKA

Signed at Kanata, in the Province of Ontario, Canada, this 3rd day of November, 1998.




SRINIVASAN RAMASWAMY

ACKNOWLEDGEMENT

Province of Ontario)
Canada)

On this 4th day of November, 1998, personally appeared before me the above named **HENRY CHOW**, to me personally known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he executed same, as his free act and deed, and for the purposes set forth, on the day and year aforesaid.




A Notary Public in and for the Province of Ontario

ACKNOWLEDGEMENT

Province of Ontario)
Canada)

On this 4th day of November, 1998, personally appeared before me the above named **ANTHONY HUNG**, to me personally known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he executed same, as his free act and deed, and for the purposes set forth, on the day and year aforesaid.

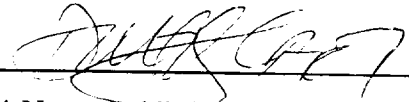


A Notary Public in and for the Province of Ontario

ACKNOWLEDGEMENT

Province of Ontario)
Canada)

On this 3rd day of November, 1998, personally appeared before me the above named **MARK JANOSKA**, to me personally known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he executed same, as his free act and deed, and for the purposes set forth, on the day and year aforesaid.




A Notary Public in and for the Province of Ontario

ACKNOWLEDGEMENT

Province of Ontario)
Canada)

On this 3rd day of November, 1998, personally appeared before me the above named **SRINIVASAN RAMASWAMY**, to me personally known, and known by me to be the same person described in and who executed the foregoing instrument, and acknowledged that he executed same, as his free act and deed, and for the purposes set forth, on the day and year aforesaid.


A Notary Public in and for the Province of Ontario

1/87

Canada)
Province of Ontario)
City of Toronto)
Consulate General of the)
United States of America)

SS: CERTIFICATE OF AUTHENTICATION
(Other Official)

I, the undersigned, _____ Consul of the United States of America
at Toronto, Canada, duly commissioned and qualified, do hereby certify
that ----- Anne Farraway -----

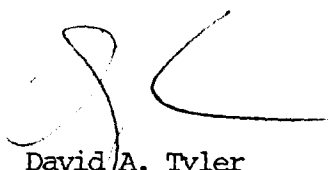
whose ~~(facsimile)~~(true) signature and seal are, respectively,
subscribed and affixed to the annexed document was, at the time of
~~(attaching)~~(subscribing) the same
Recording Officer For Secretary of The Management Board of Cabinet,
Province of Ontario, Canada

to whose official acts faith and credit are due.

For the contents of the annexed document, I assume no responsibility.

IN WITNESS WHEREOF I have hereunto set my hand and affixed the seal
of the Consulate General of the United States of America at Toronto,
Canada, this 10th day of November 19 98.

(SEAL)


David A. Tyler
Consul of the United States
of America