

Form PTO-1595 (Rev. 07/05)
OMB No. 0651-0027 (exp. 6/30/2008)

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RECORDATION FORM COVER SHEET PATENTS ONLY

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Thomas D. Stephens

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

2. Name and address of receiving party(ies)

Name: Broadwing Corporation

Internal Address: Office of the General Counsel

Street Address: 1122 Capital of Texas Highway South

City: Austin

State: Texas

Country: United States of America Zip: 78746-6426

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

3. Nature of conveyance/Execution Date(s):

Execution Date(s) December 14, 2004

- Assignment Merger
- Security Agreement Change of Name
- Joint Research Agreement
- Government Interest Assignment
- Executive Order 9424, Confirmatory License
- Other

4. Application or patent number(s):

This document is being filed together with a new application.

A. Patent Application No.(s)

B. Patent No.(s)

7,088,500

Additional numbers attached? Yes No

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

Name: Darren E. Wolf

Internal Address: Dickie, McCamey & Chilcote, P.C.

Street Address: Two PPG Place, Suite 400

City: Pittsburgh

State: Pennsylvania Zip: 15222-5402

Phone Number: 412-392-5681

Fax Number: 412-392-5650

Email Address: dwolf@dmclaw.com

6. Total number of applications and patents involved: One(1)**7. Total fee (37 CFR 1.21(h) & 3.41) \$40**

- Authorized to be charged by credit card
- Authorized to be charged to deposit account
- Enclosed
- None required (government interest not affecting title)

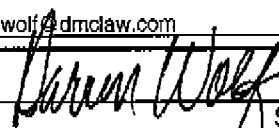
8. Payment Information

a. Credit Card Last 4 Numbers _____
Expiration Date _____

b. Deposit Account Number 50-3198

Authorized User Name Darren E. Wolf

9. Signature:


Signature

June 19, 2007

Date

Darren E. Wolf
Name of Person Signing

Total number of pages including cover sheet, attachments, and documents:

7

Documents to be recorded (including cover sheet) should be faxed to (571) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O.Box 1450, Alexandria, V.A. 22313-1450

CH \$40.00 503198 7088500

ASSIGNMENT OF INVENTION

For: U.S. and/or Foreign Rights
 For: U.S. Application or U.S. Provisional Application
 For: U.S. Patent
 For: PCT Application
 By: Inventor(s) or Present Owner

In consideration of the payment by ASSIGNEE(S) to ASSIGNOR(S) of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR(S)

Thomas D. Stephens 2 Cadby Street, Brighton, Victoria 3186, Australia Australia
 Name of Assignor Address Nationality

Recorded on _____ Reel _____ Frame _____

hereby sells, assigns and transfers to

ASSIGNEE(S):

Broadwing Corporation 7015 Albert Einstein Drive, P.O. Box 9400, Delaware Corporation
 (Name of ASSIGNEE) Address Nationality

and the successors, assigns and legal representatives of the ASSIGNEE(S)

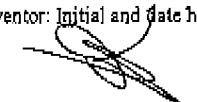
- the entire right, title and interest for the United States and its territorial possessions
- an undivided _____ percent (_____ %) interest for the United States and its territorial possessions
- and in all foreign countries;

including all rights to claim priority, all rights to file patent applications, and all other intellectual property rights, in and to any and all improvements, inventions, and other intellectual property which is/are found in:

- (a) U.S. patent application executed on even date herewith.
- (b) the application(s) and invention disclosure(s) identified in the Attachments hereto.
- (c) U.S. patent application executed on _____.
- (d) U.S. provisional application no.: _____ filed on _____.
- (e) U.S. application no.: _____ filed on _____.
- (f) International application no. _____ filed on _____.
- (g) U.S. patent no. _____ issued _____.

A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(h) Other: the invention entitled _____ a copy of which is attached.

Each Inventor: Initial and date here for acknowledgement of this page
 12/14/04

- (i) and any legal equivalent thereof in any country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by a new application or by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

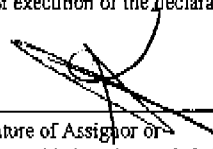
ASSIGNOR(S) hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR(S) further covenants that ASSIGNEE(S) will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR(S) and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE(S) or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, ASSIGNOR(S) have hereunto set hand and seal this:

WARNING: The date of signing must be the same as the date of execution of the declaration, if item (a) was checked above.

Thomas D. Stephens
 Name of Assignor or
 Name & Title of Person entitled to sign on behalf
 of Assignor


 Signature of Assignor or
 Person entitled to sign on behalf of Assignor

12/14/04
 Date

Place of signing of assignment

City/County :
 State :
 Country :

Before me this 14 day of December, 2004 personally appeared Thomas D. Stephens, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged its contents of his/her own free will for the purpose therein expressed.

refer to attached cover document

 Notary Public or Consular Officer of the United States of America

NOTE: Notarization of this document is only prima facie evidence of execution, 35 USC 261.



CONSULATE GENERAL OF THE UNITED STATES OF AMERICA

Commonwealth of Australia)
State of Victoria)
City of Melbourne) ss
Consulate General of the)
United States of America)

I, Karen L. Ogle, Consul of the United States of America at Melbourne, Victoria, Australia, duly commissioned and qualified, do hereby certify that on this 14th day of December, 2004, before me personally appeared Thomas David Stephens, to me personally known or proved to me on the basis of satisfactory evidence to be the individual described in, whose name is subscribed to, and who executed the annexed instrument, and being informed by me of the contents of said instrument he duly acknowledged to me that he executed the same freely and voluntarily for the uses and purposes therein mentioned.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above written.

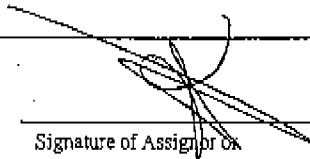
[Handwritten signature of Karen L. Ogle]
Karen L. Ogle
Consul of the United States of America

PATENT APPLICATIONS

Title	Application Number	Filing Date
Optical Communication Systems Including Optical Amplifiers and Amplification Methods	10/962,726	October 12, 2004
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]
[REDACTED]	[REDACTED]	[REDACTED]

Thomas D. Stephens

Name of Assignor or
Name & Title of Person entitled to sign on behalf
of Assignor



Signature of Assignor or
Person entitled to sign on behalf of Assignor

12/14/04

Date

Place of signing of assignment

City/County :
State :
Country :

Before me this ___ day of _____, 200__ personally appeared Thomas D. Stephens, to me known to be the person who is described in and who executed the foregoing assignment instrument and acknowledged its contents of his/her own free will for the purpose therein expressed.

*Refer to attached
cover document.* _____
Notary Public or Consular Officer of the United States of America