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TO
10051 U.S. PATENT
09/316995
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Name (line 1) THOMAS D. STEPHENS 5 24 99

Name (line 2)

Second Party

Execution Date
Month Day Year

Name (line 1) RAYMOND ZANONI 5 24 99

Name (line 2)

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Name (line 1) CORVIS CORPORATION

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Name (line 2)

Address (line 1) 8320 GUILFORD ROAD

Address (line 2)

Address (line 3) COLUMBIA MARYLAND / USA 21046-1280
City State/Country Zip Code

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Name MICHAEL C. ANTONI

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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 5 24 99

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Michael C. Antoni MICHAEL C. ANTONI 5/24/99
Name of Person Signing Signature Date

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	8320 Guilford Road, Columbia, MD 21046-9400	Australian
name of Assignor	Address	Nationality
Raymond Zanoni	8320 Guilford Road, Columbia, MD 21046-9400	U.S.A.
name of Assignor	Address	Nationality

(if assignment is by person or entity to whom invention was previously assigned and this was recorded in PTO, add the following)

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hereby sells, assigns and transfers to

ASSIGNEE(S):

CORVIS Corporation	8320 Guilford Road Columbia, MD 21046-9400	Delaware Corporation
(name of ASSIGNEE)	Address	Nationality

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

(complete one of the following)

- 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

(check the following box, if foreign rights are also to be assigned)

- and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled:

Optical Transmission Systems including Optical Amplifiers and Methods of use therein

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

- (a) U.S. patent application executed on even date herewith
 (b) U.S. patent application executed on __

- (c) U.S. provisional application naming the above inventor(s) for the above-entitled invention
 - Express mail label no.: Mailed:
 - To comply with 37 CFR 3.21 for recordal of this assignment, ASSIGNOR(S) signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.
- (d) U.S. application no.: filed on
- (e) International application no. filed on and amended on
- (f) U.S. patent no. issued
 - A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

- (g) and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention 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 *[Signature]* 5/24/99
 Name of Assignor or Name & Title of Person Signature of Assignor or Date
 entitled to sign on behalf of Assignor Person entitled to sign on behalf of Assignor

Raymond Zanoni *[Signature]* 5/24/99
 Name of Assignor or Name & Title of Person Signature of Assignor or Date
 entitled to sign on behalf of Assignor Person entitled to sign on behalf of Assignor

Place of signing of assignment
 City/County : Columbia Howard
 State : Maryland
 Country : Howard

Before me this 24 day of May, 1999 personally appeared
Thomas D. Stephens and Raymond Zanoni
 to me known to be the person(s) who is are described in and who executed the foregoing assignment instrument and acknowledged its contents of their own free will for the purpose therein expressed.

GLADYS MARIE DONACHY
 NOTARY PUBLIC STATE OF MARYLAND
 My Commission Expires November 1, 2000 *[Signature]*
 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.
 Assignment of Invention—page 2 of 2