

12-02-1999



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Name (line 1)	<u>NABIL M. BADR</u>	Execution Date Month Day Year	<u>11 16 1999</u>
Name (line 2)	_____		
Second Party		Execution Date Month Day Year	
Name (line 1)	<u>RAYMOND ZANONI</u>		<u>11 16 1999</u>
Name (line 2)	_____		

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) CORVIS CORPORATION

Name (line 2) _____

Address (line 1) 7015 ALBERT EINSTEIN DRIVE

Address (line 2) _____

Address (line 3) COLUMBIA MARYLAND 21046-9700
City State/Country Zip Code

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PATENT
REEL: 010402 FRAME: 0596

Correspondent Name and Address

Area Code and Telephone Number 443-259-4150

Name MICHAEL C. ANTONI

Address (line 1) CORNIS CORPORATION - IP DEPARTMENT

Address (line 2) 7015 ALBERT EINSTEIN DRIVE

Address (line 3) P.O. BOX 9400

Address (line 4) COLUMBIA, MD 21046-9400

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

2

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

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

Patent Application Number(s)

Patent Number(s)

09/310,324

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

Patent Cooperation Treaty (PCT)

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

PCT PCT PCT

PCT PCT PCT

Number of Properties

Enter the total number of properties involved. # 1

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ 40.

Method of Payment:
Deposit Account

Enclosed Deposit Account

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

Deposit Account Number: # 500477

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.

MICHAEL C. ANTONI

Name of Person Signing

[Signature]

Signature

11/24/99

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)

Nabil M. Badr	7015 Albert Einstein Drive, PO Box 9400, Columbia, MD 21046-9400	Lebanese
name of Assignor	Address	Nationality
Raymond Zanoni	7015 Albert Einstein Drive, PO Box 9400, Columbia, MD 21046-9400	U.S.A.
name of Assignor	Address	Nationality

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hereby sells, assigns and transfers to

ASSIGNEE(S):

CORVIS Corporation	7015 Albert Einstein Drive PO Box 9400 Columbia, MD 21046-9400	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, in and to any and all improvements which are disclosed in the invention entitled:

Optical Transmission Systems and Optical Amplifiers for use therein

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.: 09/310,324 filed on May 12, 1999
- (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.


(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.

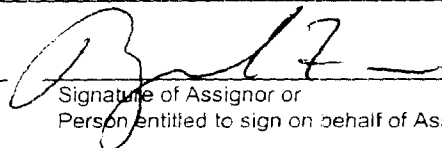
ASSIGNOR(S) hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

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.

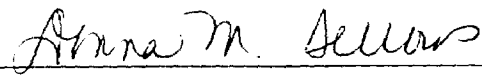
Nabil M. Badr		11/16/99
Name of Assignor or	Signature of Assignor or	Date
Name & Title of Person entitled to sign on behalf of Assignor	Person entitled to sign on behalf of Assignor	

Raymond Zanoni		11/16/1999
Name of Assignor or	Signature of Assignor or	Date
Name & Title of Person 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 : USA

Before me this 16th day of November, 1999 personally appeared Nabil M. Badr 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.



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. My Commission expires March 12, 2003