

07-26-2004

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

102798722

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

## 1. Name of conveying party(ies):

Donald M. Cornwell, Jr.; John J. Veselka, Jr.;  
Stephen G. Grubb; Thomas D. Stephens;  
Ruxiang Jin; Alistair J. Price; Michael C. AntoneAdditional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: 3/31/2000

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

Name: Corvis Corporation

Internal Address: \_\_\_\_\_

Street Address: 7015 Albert Einstein Drive

City: Columbia State: MD Zip: 21046

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

## 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: 7/16/2004

A. Patent Application No.(s) \_\_\_\_\_

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

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

Name: Corvis Corporation

Internal Address: Intellectual Property Dept.

Street Address: 7015 Albert Einstein Drive

P.O. Box 9400

City: Columbia State: MD Zip: 21046-9400

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

7. Total fee (37 CFR 3.41).....\$ 40

- ☐ Enclosed  
☐ Authorized to be charged to deposit account

## 8. Deposit account number:

DO NOT USE THIS SPACE

## 9. Signature.

Michael C. Antone

Name of Person Signing

Signature

July 16, 2004

Date

Total number of pages including cover sheet, attachments, and documents: 5

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

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

# 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)

Donald M. Cornwell, Jr.	7015 Albert Einstein Drive, PO Box 9400, Columbia, MD 21046-9400	USA
name of Assignor	Address	Nationality
John J. Veselka, Jr.	7015 Albert Einstein Drive, PO Box 9400, Columbia, MD 21046-9400	USA
name of Assignor	Address	Nationality
Stephen G. Grubb	7015 Albert Einstein Drive, PO Box 9400, Columbia, MD 21046-9400	USA
name of Assignor	Address	Nationality
Thomas D. Stephens	7015 Albert Einstein Drive, PO Box 9400, Columbia, MD 21046-9400	AUSTRALIAN
name of Assignor	Address	Nationality
Ruxiang Jin	7015 Albert Einstein Drive, PO Box 9400, Columbia, MD 21046-9400	USA
name of Assignor	Address	Nationality
Alistair J. Price	7015 Albert Einstein Drive, PO Box 9400, Columbia, MD 21046-9400	UK
name of Assignor	Address	Nationality
Michael C. Antone	7015 Albert Einstein Drive, PO Box 9400, Columbia, MD 21046-9400	USA
name of Assignor	Address	Nationality

Recorded on \_\_\_\_\_ Reel \_\_\_\_\_ Frame \_\_\_\_\_

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 including Optical Amplifiers Apparatuses and Methods**

- (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.
- (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.

Donald M. Cornwell, Jr.

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

3/31/00  
Date

John J. Veselka, Jr.

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

3/31/00  
Date

Stephen G. Grubb

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

3/31/00  
Date

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

3/31/2000  
Date

Ruxiang Jin

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

3/31/2000  
Date

Alistair J. Price

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

3/31/2000  
Date

Michael C. Antone

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

3/31/2000  
Date

Place of signing of assignment

City/County : Columbia/Howard

State : Maryland

Country : USA

Before me this 31<sup>st</sup> day of March 2000, personally appeared Donald M. Cornwell, Jr., John J. Veselka, Jr., Stephen G. Grubb, Thomas D. Stephens, Ruxiang Jin, Alistair J. Price, and Michael C. Antone, to me known to be the persons who 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 3-17-2003

Assignment of Invention--page 3 of 3