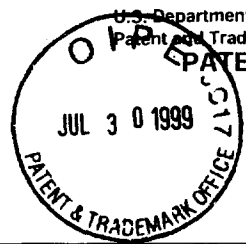


08-04-1999



101109924
RECORDATION FORM COVER SHEET
PATENTS ONLY

MRD
7/30/99

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

New

Resubmission (Non-Recordation)
Document ID# _____

Correction of PTO Error
Reel # _____ Frame # _____

Corrective Document
Reel # _____ Frame # _____

Conveyance Type

Assignment Security Agreement

License Change of Name

Merger Other _____

U.S. Government
(For Use ONLY by U.S. Government Agencies)

Departmental File Secret File

Conveying Party(ies)

Mark if additional names of conveying parties attached

Name (line 1) THOMAS D. STEVENS Execution Date 07 30 99
Month Day Year

Name (line 2) _____

Second Party

Name (line 1) MARIE A. KELTY Execution Date 07 30 99
Month Day Year

Name (line 2) _____

Receiving Party

Mark if additional names of receiving parties attached

Name (line 1) CORVIS CORPORATION If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

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

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name _____

Address (line 1) _____

Address (line 2) _____

Address (line 3) _____

Address (line 4) _____

08/03/1999 DNGUYEN 00000122 500477 09317141
01 FC:581 40.00 CH

FOR OFFICE USE ONLY

Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to:
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

Correspondent Name and Address

Area Code and Telephone Number 443-259-4150

Name MICHAEL C. ANTONIE

Address (line 1) CORVIS 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. # 3

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)

09/31/94

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): \$

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

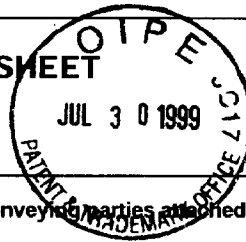
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

MICHAEL C. ANTONIE
Name of Person Signing

Michael C. Antonie
Signature

7/30/99
Date

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY



Conveying Party(ies)

Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) ALISTAIR J. PRICE

Execution Date
Month Day Year
07 30 99

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Receiving Party(ies)

Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

Name (line 1)

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) City State/Country Zip Code

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)

Grid of 5 rows and 3 columns of boxes for Patent Application Number(s).

Grid of 5 rows and 3 columns of boxes for Patent Number(s).

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	7015 Albert Einstein Drive, Columbia, MD 21046-9400	Australian
name of Assignor	Address	Nationality
Mark A. Kelty	7015 Albert Einstein Drive, Columbia, MD 21046-9400	U.S.A.
name of Assignor	Address	Nationality
Alistair J. Price	7015 Albert Einstein Drive, Columbia, MD 21046-9400	U.K.
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)

Recorded on _____ Reel _____ Frame _____

hereby sells, assigns and transfers to

ASSIGNEE(S):

CORVIS Corporation	7015 Albert Einstein Drive 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 System and Amplifier Control Apparatuses and Methods

(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 _

Place of signing of assignment

City/County : Howard
State : Maryland
Country :

Before me this 30th day of July, 1999 personally appeared **Thomas D. Stephens, Mark A. Kelty, and Alistair J. Price** 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.

Anna M. Jellous
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 13, 2003