

01-06-1999

FORM PTO-161  
Expires 06/30/99  
OMB 0651-0027



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U.S. Department of Commerce  
Patent and Trademark Office  
PATENT

*MRO*  
*1-4-99*

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### RECORDATION FORM COVER SHEET PATENTS ONLY

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  
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#### Conveyance Type

Assignment  Security Agreement

License  Change of Name

Merger  Other

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Mark if additional names of conveying parties attached

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Execution Date		
Month	Day	Year
12	11	1998

Name (line 2)

#### Second Party

Name (line 1)

Execution Date		
Month	Day	Year
12	11	1998

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Mail documents to be recorded with required cover sheet(s) information to:

**PATENT**

**REEL: 9674 FRAME: 0883**

**Correspondent Name and Address**

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

**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)**

<input type="text" value="09/176,014"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
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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.

**Patent Cooperation Treaty (PCT)**

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

PCT <input type="text"/>	PCT <input type="text"/>	PCT <input type="text"/>
PCT <input type="text"/>	PCT <input type="text"/>	PCT <input type="text"/>

**Number of Properties** Enter the total number of properties involved. #

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

Method of Payment: Enclosed  Deposit Account

Deposit Account

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

Deposit Account Number: #

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.

Jessica J. Clement

*Jessica J. Clement*

December 29, 1998

Name of Person Signing

Signature

Date

**Assignment of Rights, Title and Interest in Invention  
(Multiple inventors; single assignee)**

**Docket No.  
9086/102**

*This is an Assignment of the following rights, title and interest: (check all that apply):*

- United States of America rights, title and interest in the invention*
- Foreign rights, title and interest in the invention*
- United States Patent Application Serial No. 09/176,014*

*Date of Execution:* \_\_\_\_\_

*Date of Filing:* October 20, 1998

- United States Provisional Patent Application Serial No.* \_\_\_\_\_
- United States Patent No(s).* \_\_\_\_\_
- International (PCT) Patent Application Serial No.* \_\_\_\_\_
- Other (specify)* \_\_\_\_\_

*Title of the Invention*

MULTI-LEVEL ERROR DETECTION AND CORRECTION TECHNIQUE FOR DATA STORAGE RECORDING DEVICE

*Inventors (assignors)*

<i>Name</i>	<i>Address</i>
Richard H. McAuliffe	2960 Lafayette Drive, Boulder, CO 80303
Thomas E. Zaczek	952 Cleveland Ct., Louisville, CO 80027

*Assignee*

<i>Name</i>	<i>Address</i>
Ecrix	5500 Central Avenue Boulder, CO 80301

**Assignment of Rights, Title and Interest in Invention  
(Multiple inventors; single assignee)**

Docket No.  
9086/102

*Whereas, we, the above-identified Inventors, have invented certain new and useful improvements in the Invention identified above and described in the above-identified patent application(s) and/or patent(s) (hereinafter referred to as "Invention");*

*And, whereas we desire to assign our above-identified rights, title and interest in the Invention to the above-identified Assignee;*

*Now, this indenture witnesseth, that for good and valuable consideration, the receipt whereof is hereby acknowledged;*

*We hereby assign, sell and transfer our above-identified rights, title and interest in said Invention, said application(s) as identified above, including any divisions, continuations, and continuations-in-part thereof, and in and to any and all Letters Patent of the United States, and countries foreign thereto, which may be granted or have granted for said Invention, and in and to any and all reissues and reexaminations thereof, and in and to any and all priority rights, Convention rights, and other benefits accruing or to accrue to us with respect to the filing of applications for patents or securing of patents in the United States and countries foreign thereto, unto said Assignee;*

*And we hereby authorize and request the Commissioner of Patents and Trademarks to issue any United States Letters Patent which may issue for said Invention to said Assignee, as assignee of the whole right, title and interest thereto;*

*And we further agree to sign and execute all necessary and lawful future documents, including applications for foreign patents, for filing divisions, continuations and continuations-in-part of said application for patent, and/or, for obtaining any reissue or reissues of any Letters Patent which may be granted for my aforesaid Invention, as the Assignee or its Designee(s) may from time to time require and prepare at its own expense.*

*Inventors' Signatures (if Notarization is desired, do not sign here and proceed to next page)*

<i>Name</i>	<i>Signature/Date</i>
Richard H. McAuliffe	
Thomas E. Zaczek	

Assignment of Rights, Title and Interest in Invention  
(Multiple inventors; single assignee)

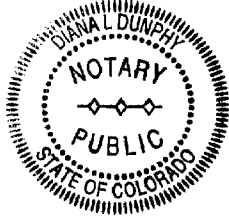
Docket No.  
9086/102

**Notarization**

(Although notarization is not necessary, it will be considered prima facie evidence of execution pursuant to 35 U.S.C. 261.)

Executed this 11 day of December, in the year 1998  
at Erie

State of Colorado  
County of Boulder



*Richard H. McAuliffe*  
(Signature of Inventor)

MY COMMISSION EXPIRES:

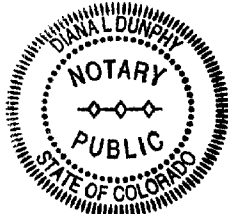
Before me personally appeared Richard H. McAuliffe

who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to execute the same this 11 day of December, in the year 1998

*Diana L. Dunphy*  
(Notary Public)

Executed this 11 day of December, in the year 1998  
at Erie

State of Colorado  
County of Boulder



*Thomas E. Zick*  
(Signature of Inventor)

MY COMMISSION EXPIRES:

Before me personally appeared Thomas E. Zick

who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to execute the same this 11 day of December, in the year 1998

*Diana L. Dunphy*  
(Notary Public)

Executed this \_\_\_\_\_ day of \_\_\_\_\_, in the year \_\_\_\_\_  
at \_\_\_\_\_

State of \_\_\_\_\_  
County of \_\_\_\_\_

Before me personally appeared

who acknowledged the foregoing instrument to be a free act and deed and also represented that he or she is authorized to execute the same this \_\_\_\_\_ day of \_\_\_\_\_, in the year \_\_\_\_\_

\_\_\_\_\_  
(Signature of Inventor)

\_\_\_\_\_  
(Notary Public)