

FORM PTO-1619A  
Expires 06/30/99  
OMB 0651-0027

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

### RECORDATION FORM COVER SHEET PATENTS ONLY

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or cop(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
  - Departmental File                       Secret File
- U.S. Government*  
(For Use ONLY by U.S. Government Agencies)

#### Conveying Party(ies)

Name (line1) Oak Technology, Inc.

Execution Date  
Month Day Year  
08302004

Name (line2)

#### Second Party

Name (line1)

Execution Date  
Month Day Year

Name (line2)

Mark if additional names of conveying parties attached

#### Receiving Party

Name (line 1) Zoran Corporation

Mark if additional names of receiving parties attached

Name (line 2)

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.)

Address (line 1) 1390 Kifer Road

Address (line 2)

Address (line 3) Sunnyvale  
City

CA Stat Enter for the first Receiving Party only. 94086

#### Domestic Representative Name and Address

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

FOR OFFICE USE ONLY

CIH \$40.00 023038 09239415

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**PATENT**

**Correspondent Name and Address**

Area Code and Telephone Number (617) 367-4600

Name Bruce D. Jobse, Esq.

Address (line 1) Kudirka & Jobse, LLP

Address (line 2) One State Street, Suite 800

Address (line 3) Boston, MA 02109

Address (line 4)

**Pages**

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

# 2

**Application Number(s) or Patent Number(s)**

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

Patent Application Number(s)  
09239415

Patent Number(s)

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): \$40.00

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:

# 02-3038

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.

Bruce D. Jobse  
Name of Person Signing

  
Signature

9/9/04  
Date

<b>ASSIGNMENT OF PATENT APPLICATION</b>	Docket No. PA-1098
Applicant: Linden A. deCarmo Serial No: 09/239,415 Filed: January 28, 1999 Title: MEMORY EFFICIENT METHOD AND APPARATUS FOR DETERMINING RUN TIMES OF DVD TITLES	

**Whereas** Oak Technology, Inc., a California corporation, having a principal place of business at 1390 Kifer Court, Sunnyvale, California 94086 together with its successors and assigns, hereinafter called "Assignor" is the owner of the above-identified application for Letters Patent of the United States of America, as evidenced by an assignment from the named inventors to Assignor, submitted to the United States Patent and Trademark Office on June 7, 2002, Reel number 012989, Frame number 0776.

**Whereas** Zoran, a Delaware company, having a principal place of business at 1390 Kifer Road, and which, together with its successors and assigns, hereinafter called "Assignee," is desirous of acquiring the title, rights, benefits and privileges hereinafter recited;

**Now, therefore**, to the extent not already done so by the Agreement and Plan for Reorganization by and between Assignor and Assignee dated May 4, 2003, and for valuable consideration furnished by Assignee to Assignor, receipt and sufficiency of which is hereby acknowledged, Assignor does hereby, without reservation:

1. Assign, transfer and convey to Assignee the entire right, title and interest in and to said inventions and discoveries, said application for Letters Patent of the United States of America, any and all other applications for Letters Patent on said inventions and discoveries in whatsoever countries, including all divisional, renewal, substitute, continuation, Convention and non-Convention applications based in whole or in part upon said inventions or discoveries, or upon said applications, and any and all Letters Patent, reissues, reexaminations, and extensions of Letters Patent granted for said inventions and discoveries or upon said applications, and every priority right that is or may be predicated upon or arise from said inventions, said discoveries, said applications and said Letters Patent;
2. Authorize Assignee to file patent applications in any or all countries on any or all of said inventions and discoveries in the inventors' names or in the name of Assignee or otherwise as Assignee may deem advisable, under the International Convention or otherwise;
3. Authorize and request the Commissioner of Patents and Trademarks of the United States of America and the empowered officials of all other governments to issue or transfer all said Letters Patent to Assignee, as assignee of the entire right, title and interest therein or otherwise as Assignee may direct;
4. Bind the its heirs, legal representatives and assigns, as well as itself to do, upon Assignee's request and at Assignee's expense, but without additional consideration to it or them, all acts reasonably serving to execute and deliver to Assignee all lawful application documents including petitions, specifications, and oaths, and all assignments, disclaimers, and lawful affidavits in form and substance as may be

requested by Assignee; to communicate to Assignee all facts known to it relating to said inventions and discoveries or the history thereof; and to furnish Assignee with any and all documents, photographs, models, samples and other physical exhibits in its control or in the control of its heirs, legal representatives or assigns which may be useful for establishing the facts of its conceptions, disclosures, and reduction to practice of said inventions and discoveries.

In testimony of which I have executed this Assignment of Patent Application on the date indicated next to my signature on behalf of Assignor.



KARL SCHNEIDER  
Chief Financial Officer

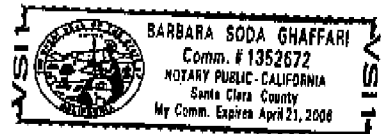
Date: 8/30/04

State of California }  
County of Santa Clara } ss

On this 30<sup>th</sup> day of August, 2004, before me appeared Karl Schneider to me known and known to me to be the person described in, and who executed the foregoing instrument, and he acknowledged the same to be his free act and deed.

Barbara Soda Ghaffari  
Notary Public

[seal]



Known to me personally

Identification produced: \_\_\_\_\_