

FORM PTO-1619A

Expires 06/30/99
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Patent and Trademark Office
PATENT**RECORDATION FORM COVER SHEET
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Conveying Party(ies)

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Execution Date
Month Day Year
11012004

Name (line1) Oak Technology, Inc.

Name (line2)

Second PartyExecution Date
Month Day Year

Name (line1)

Name (line2)

Receiving Party

- ☐ Mark if additional names of receiving parties attached
- ☐ 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 1) Zoran Corporation

Name (line 2)

Address (line 1) 1390 Kifer Road

Address (line 2)

Address (line 3) Sunnyvale
CityCA 94086
Stat Enter for the first Receiving Party only.**Domestic Representative Name and Address**

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

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700129662

PATENT
REEL: 015355 FRAME: 0262

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OMB 0851-0027

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U.S. Department of Commerce
Patent and Trademark Office

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

Pages

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

6

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)

09199725 09217273 09607899

Patent Number(s)

5929857	6065006	6356914
6229523	6313850	6272625
6256730	6708334	6138175
6081855	6564255	6260143
6133920	6181339	6341330
6415101	6760915	6567979
6643450	6381404	6691268

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)

PCT

PCT

PCT

Enter PCT application number

only if a U.S. Application Number PCT

PCT

PCT

Has not been assigned.

Number of Properties

Enter the total number of properties involved. # 24

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$880.00

Method of Payment:

Enclosed ☐Deposit Account ☒

Deposit Account

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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
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indicated herein.

Bruce D. Jobse

Name of Person Signing

Signature

Date

PATENT

REEL: 015355 FRAME: 0263

ASSIGNMENT

Whereas Oak Technology, Inc., a California corporation, having a principal place of business at 1390 Kifer Road, Sunnyvale, California 94086 together with its successors and assigns, hereinafter called "Assignor" is the owner of the following Letters Patents of the United States of America and applications for Letters Patent of the United States of America:

- 1. Inventors: Amir M. Mobini, Chris A. Dinallo
 Patent No: 5,929,857
 Serial No.: 08/926,883
 Docket No: PA-1019
 Filed: 9/10/1997
 Title: METHOD AND APPARATUS FOR DYNAMICALLY
 CONSTRUCTING A GRAPHIC USER INTERFACE FROM A DVD
 DATA STREAM

- 2. Inventors: Amir M. Mobini, Linden A. deCarmo
 Patent No: 6,065,006
 Serial No.: 09/019,017
 Docket No: PA-1020
 Filed: 2/5/1998
 Title: AN ALGORITHM FOR SEAMLESS GRANSFER BETWEEN
 TITLES ON A DVD DISC WHILE MINIMIZING MEMORY
 CONSUMPTION

- 3. Inventors: Amir M. Mobini, Linden A. deCarmo
 Patent No: 6,356,914
 Serial No.: 09/566,360
 Docket No: PA-1020CNT
 Filed: 5/8/2000
 Title: DVD SYSTEM FOR SEAMLESS TRANSFER BETWEEN
 TITLES ON A DVD DISC WHICH MINIMIZES MEMORY
 CONSUMPTION

- 4. Inventors: Brian M. Czako
 Patent No: 6,229,523
 Serial No.: 09/025,354
 Docket No: PA-1021
 Filed: 2/18/1998
 Title: DIGITAL VERSATILE DISC PLAYBACK SYSTEM WITH
 EFFICIENT MODIFICATION OF SUBPICTURE DATA

5. Inventors: Brian M. Czako
 Patent No: 6,313,850
 Serial No.: 09/431,532
 Docket No: PA-1021CNT
 Filed: 11/01/1999
 Title: DIGITAL VERSATILE DISC PLAYBACK SYSTEM WITH
 EFFICIENT MODIFICATION OF SUBPICTURE DATA
6. Inventors: Linden A. deCarmo
 Patent No: 6,272,625
 Serial No.: 08/946,847
 Docket No: PA-1022
 Filed: 10/08/1997
 Title: APPARATUS AND METHOD FOR PROCESSING EVENTS IN A
 DIGITAL VERSATILE DISC (DVD) SYSTEM USING SYSTEM
 THREADS AND SEPARATE DORMANT/AWAKE COUNTER
 THREADS AND CLOCK DRIVEN SEMAPHORES
7. Inventors: Linden A. deCarmo
 Patent No: 6,256,730
 Serial No.: 09/421,576
 Docket No: PA-1022CNT
 Filed: 10/20/1999
 Title: APPARATUS AND METHOD OF PROCESSING COUNTER
 PARAMETERS IN A DIGITAL VERSATILE DISC SYSTEM
8. Inventors: Linden A. deCarmo, Amir M. Mobini
 Patent No: 6,708,334
 Serial No.: 09/104,480
 Docket No: PA-1023
 Filed: 1/28/1998
 Title: DVD NAVIGATION SYSTEM WITH MULTIPLE INDEPENDENT
 THREADS
9. Inventors: Linden A. deCarmo
 Patent No: 6,138,175
 Serial No.: 09/082,017
 Docket No: PA-1025
 Filed: 5/20/1998
 Title: SYSTEM FOR DYNAMICALLY OPTIMIZING DVD
 NAVIGATIONAL COMMANDS BY COMBINING A FIRST AND A
 SECOND NAVIGATIONAL COMMANDS RETRIEVED FROM A
 MEDIUM FOR PLAYBACK

10. Inventors: Linden A. deCarmo
Patent No: 6,081,855
Serial No.: 09/060,481
Docket No: PA-1026
Filed: 4/15/1998
Title: A FLEXIBLE METHODOLOGY FOR INCORPORATING INPUT DEVICES INTO A DVD PLAYER
11. Inventors: Chris A. Dinallo, Amir M. Mobini
Patent No: 6,564,255
Serial No.: 09/113,592
Docket No: PA-1034
Filed: 7/10/1998
Title: METHOD AND APPARATUS FOR ENABLING INTERNET ACCESS WITH DVD BITSTREAM
12. Inventors: Linden A. deCarmo
Patent No: 6,260,143
Serial No.: 09/122,967
Docket No: PA-1042
Filed: 7/27/1998
Title: A HOST-BASED CACHING ALGORITHM FOR COPY PROTECTED CONTENT
13. Inventors: Linden A. deCarmo, Jan Christensen, Amir M. Mobini
Patent No: 6,133,920
Serial No.: 09/122,954
Docket No: PA-1046
Filed: 07/27/1998
Title: METHOD AND APPARATUS FOR ACTIVATING BUTTONS FROM A DVD BITSTREAM USING A POINTING DEVICE
14. Inventors: Amir M. Mobini
Patent No: N/A
Serial No.: 09/199,725
Docket No: PA-1047
Filed: 11/25/1998
Title: METHOD AND APPARATUS FOR PROVIDING SOURCE INDEPENDENT MPEG PARSING
15. Inventors: Amir M. Mobini
Patent No: N/A
Serial No.: 09/217,273
Docket No: PA-1048
Filed: 12/21/1998
Title: DIGITAL VERSATILE DISC PLAYBACK SYSTEM WITH LOCATION MANIPULATION OF SUBPICTURE ADATA ON A DISPLAY

16. Inventors: Linden A. deCarmo, Jan Christensen
Patent No: 6,181,339
Serial No.: 09/122,811
Docket No: PA-1049
Filed: 7/27/1998
Title: METHOD AND APPARATUS FOR DETERMINING A
CORRECTLY SELECTED BUTTON VIA MOTION DETECTING
INPUT DEVICES IN DVD CONTENT WITH OVERLAPPING
BUTTONS
17. Inventors: Linden A. deCarmo
Patent No: 6,341,330
Serial No.: 09/122,812
Docket No: PA-1053
Filed: 7/27/1998
Title: METHOD AND SYSTEM FOR CACHING A SELECTED
VIEWING ANGLE IN A DVD ENVIRONMENT
18. Inventors: Linden A. deCarmo, Amir M. Mobini
Patent No: 6,415,101
Serial No.: 09/122,834
Docket No: PA-1061
Filed: 7/27/1998
Title: METHOD AND SYSTEM FOR SCANNING AND DISPLAYING
MULTIPLE VIEW ANGLES FORMATTED IN DVD CONTENT
19. Inventors: Linden A. deCarmo
Patent No: 6,760,915
Serial No.: 09/221,280
Docket No: PA-1099
Filed: 12/23/1998
Title: A METHOD AND SYSTEM FOR SELECTING CONTENT IN A
MEDIA STREAM
20. Inventors: Linden A. deCarmo
Patent No: 6,567,979
Serial No.: 09/220,090
Docket No: PA-1100
Filed: 12/23/1998
Title: METHOD AND APPARATUS FOR ENFORCING DVD
PARENTAL CONTROL ACROSS AN ENTERPRISE
21. Inventors: Linden A. deCarmo
Patent No: 6,643,450
Serial No.: 09/182,606
Docket No: PA-1101
Filed: 10/29/1998
Title: DIGITAL VERSATILE DISC PLAYBACK SYSTEM WITH

PROGRAM CHAIN OBJECT SEARCHING CAPABILITIES

- 22. Inventors: Linden A. deCarmo
Patent No: 6,381,404
Serial No.: 09/238,759
Docket No: PA-1102
Filed: 1/28/1999
Title: MEMORY EFFICIENT METHOD AND APPARATUS FOR
READING AND CACHING OF DVD DATA

- 23. Inventors: Douglas Chin
Patent No: N/A
Serial No.: 09/607,899
Docket No: PA-1170US1
Filed: 6/30/2000
Title: METHOD AND APPARATUS FOR MANAGING STATE DATA
WITH SCAN CHAIN LOGIC

- 24. Inventors: Douglas Chin
Patent No: 6,691,268
Serial No.: 09/607,775
Docket No: PA-1170US2
Filed: 6/30/2000
Title: A METHOD AND APPARATUS FOR SWAPPING STATE DATA
WITH SCAN CELLS

Whereas Zoran Corporation, a Delaware company, having a principal place of business at 1390 Kifer Road, Sunnyvale, California 94086 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 above listed Letters Patents of the United States of America and said applications 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.

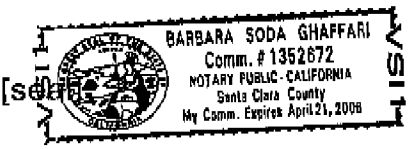
In testimony of which I have executed this Assignment on the date indicated next to my signature on behalf of Assignor.

[Signature] Date: 11/1/04

State of California }
County of Santa Clara } ss

On this 2nd day of November, 2004, before me appeared Christopher Senten 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



☒ Known to me personally ☐ Identification produced: _____