

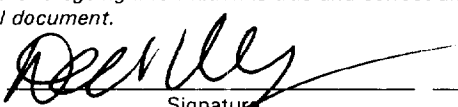
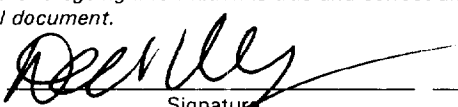
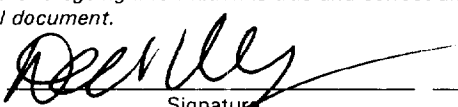


MRD 11-2-99

Attorney Docket No.: 99110901(US)US MCRO

Form PTO-595 (Rev. 6-93)	RECOR	11-05-1999 	 U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office				
To the Honorable Commissioner of		101193826	documents or copy thereof.				
1. Name of conveying party(ies): Micropolis (S) Limited Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): Name: Discovision Associates Internal Address: P.O. Box 19616 Irvine, CA 92623 Street Address: 2355 Main Street, Suite 200 City: Irvine, State: CA ZIP: 92614 Additional name(s) and address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other _____ Execution Date: <u>August 27, 1999</u>							
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: _____ <table style="width: 100%;"> <tr> <td style="width: 50%;">A. Patent Application No.(s)</td> <td style="width: 50%;">B. Patent No.(s)</td> </tr> <tr> <td></td> <td style="text-align: center;">4,317,146</td> </tr> </table> Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				A. Patent Application No.(s)	B. Patent No.(s)		4,317,146
A. Patent Application No.(s)	B. Patent No.(s)						
	4,317,146						
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Donald Bollella Internal Address: Discovision Associates P.O. Box 19616 Street Address: City: Irvine State: CA ZIP: 92623		6. Total number of patents involved: [1] 7. Total fee (37 CFR 3.41) \$ 40.00 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account 8. Deposit Account Number: 04-1175					
DO NOT USE THIS SPACE							
9. Statement and signature. <i>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.</i> <table style="width: 100%;"> <tr> <td style="width: 30%;"> <u>Donald L. Wenskay</u> Name of Person Signing </td> <td style="width: 30%; text-align: center;">  Signature </td> <td style="width: 40%; text-align: center;"> <u>11-2-99</u> Date </td> </tr> </table> Total number of pages including cover sheet, attachments and document: <u>5</u>				<u>Donald L. Wenskay</u> Name of Person Signing	 Signature	<u>11-2-99</u> Date	
<u>Donald L. Wenskay</u> Name of Person Signing	 Signature	<u>11-2-99</u> Date					

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

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PATENT
REEL: 010351 FRAME: 0584

ASSIGNMENT

Effective as of August 14th, 1999, Micropolis (S) Limited, a Singapore corporation in creditors' voluntary liquidation ("MSL"), acting by Kon Yin Tong as representing the liquidators for MSL ("Liquidator"), hereby assigns, transfers and conveys to Discovision Associates, a California general partnership ("DVA"), the entire right, title and interest in and to the United States and foreign patents and patent applications listed on Exhibit A, attached hereto and made a part hereof, any and all patents and patent applications, otherwise owned by MSL, any and all extensions, renewals, provisionals, divisionals, continuations, continuations-in-parts, reissues and reexaminations thereof, all proceeds therefor (including but not limited to, all license royalties and proceeds of infringement suits), all United States and foreign letters patents which may be granted on the patent applications hereby assigned or any corresponding applications in a country foreign to the United States, and all reissues or extensions thereof, and in and to any and all causes of action for past, present and future infringement relating thereto or to any inventions or discoveries described therein, including the right to collect royalties for all such infringements and the right to sue on all such causes of action for its own use and benefit and the use and benefit of its successors, assigns, and legal representatives, each and every of the foregoing rights, title and interests herein assigned to be held and enjoyed by DVA, its successors, assigns and legal representatives, as fully and entirely as the same would have been held and enjoyed by MSL had this Assignment not been made.

IN TESTIMONY WHEREOF, MSL has caused this Assignment to be duly executed in its name and on its behalf by Liquidator, whose name and title appear below.

MICROPOLIS (S) LIMITED
(In Creditors' Voluntary Liquidation)

By: 

Name: Kon Yin Tong

Title: Liquidator

Date: 14th August 1999

EXHIBIT A

INTELLECTUAL PROPERTY

<u>PATENT NUMBER(S)</u>	<u>INVENTOR(S)</u>	<u>ISSUE DATE</u>	<u>TITLE</u>
RE34,399	Gami, et al.	October 5, 1993	Winchester Disk Drive Motor Circuitry
4,317,146	Gervais	February 23, 1982	Compact Magnetic Disk Storage System
4,329,604	Dunstan, et al.	May 11, 1982	Low Loss Brushless DC Motor
4,717,977	Brown	January 5, 1988	High Capacity Winchester Disk Drive
4,739,427	Kilmer, et al.	April 19, 1988	High Capacity Hard Disk Construction
4,796,122	Levy, et al.	January 3, 1989	Integral Head Positioner For Hard Disk Storage System
4,796,131	Chang	January 3, 1989	Head Positioner Preloaded Stop
4,797,762	Levy, et al.	January 10, 1989	Stress Free Winchester Drive Shaft Mounting
4,829,391	Vargas, Jr.	May 9, 1989	High Speed Integrated Charge Pump Circuit For Phase Lock Loops
4,839,754	Gami, et al.	June 13, 1989	Winchester Disk Drive Motor Circuitry
4,875,117	Slezak, et al.	October 17, 1989	Digital Head Positioner Assembly
4,939,600	Desai, et al.	July 3, 1990	Efficient Head Positioner Power Amplifier
4,947,093	Dunstan, et al.	August 7, 1990	Shock Resistant Winchester Disk Drive
4,949,201	Abed	August 14, 1990	Disk Drive Head Position Controller With Static Bias Compensation on Plural Velocity Detectors
4,967,155	Magnuson	October 30, 1990	Environmentally Controlled Media Defect Detection System For Winchester Disk Drives
4,989,108	Chang	January 29, 1991	Electro-Mechanical Latch
5,068,755	Hamilton, et al.	November 26, 1991	Sector Pulse Generator For Hard Disk Drive Assembly
5,121,273	Slezak	June 9, 1992	Computer Disk Head

PATENT NUMBER	INVENTOR(S)	ISSUE DATE	TITLE
			Interconnect Assembly
5,161,073	Gami, et al.	November 3, 1992	Low Power Disk Drive Spindle Motor Controller
5,162,959	Arin, et al.	November 10, 1992	Actuator Lock
5,233,275	Danino	August 3, 1993	Simplified Sensorless DC Motor Commutation Control Circuit Using Analog Timing Techniques
5,246,479	Gami, et al.	September 21, 1993	Drive Motor Controller For Low Power Disk Drive
5,249,086	Sharma	September 28, 1993	H.D.A. Pulse Shaping System Using A Differential Delay Line With Multiple Inputs
5,268,805	Peng, et al.	December 7, 1993	Low Inertia Winchester Disk Drive Actuator
5,366,200	Scura	November 22, 1994	Shock Mount Assembly
5,404,258	Arin, et al.	April 4, 1995	Hard Disk Drive Precision Head Positioner Having A Self-Aligning Head Positioner/Magnetic Coil Bobbin Interface
5,414,577	Arin, et al.	May 9, 1995	Magnetically Coupled Hard Disk Drive Head Positioner Latch
5,455,726	Liu	October 3, 1995	Versatile Head Positioner Stop
5,510,939	Lewis	April 23, 1996	Disk Drive With Adaptive Positioning
5,523,899	Parker, et al.	June 4, 1996	Method And Apparatus For Thermal Calibration Of Hard Disk Drive
5,537,264	Pinteric	July 16, 1996	Method For Optimally Selecting Media Transfer Rates For Different Data Heads Based On Individual Data Head Performance
5,602,693	Brunnett, et al.	February 11, 1997	Method And Apparatus For Sensing Position In A Disk Drive
5,609,496	Kilmer, et al.	March 11, 1997	Air-Tight Connector Assembly
5,793,566	Scura, et al.	August 11, 1998	Self Securing Compliant Gasket For A Disk Drive Assembly Housing

PATENT NUMBER	INVENTOR(S)	ISSUE DATE	TITLE
5,805,919	Anderson	September 8, 1998	Method and System For Interleaving The Distribution Of Data Segments From Different Logical Volumes On A Single Physical Drive
Application Number 08/563,679	Kilmer, et al.	Filed November 28, 1995	Twin Coil Positioner
Application Number 08/873,269	Scura	Filed June 11, 1997	Compact Hard Disk Drive Head Positioner Latch

Foreign Patents and Applications

0305479 (EPC)	Garni, et al.	December 28, 1994	Winchester Disk Drive Motor Circuitry
2,610,508 (Japan)	Garni, et al.	February 13, 1997	Winchester Disk Drive Motor Circuitry
P3731141 (Germany)	Brown	June 13, 1996	High Capacity Winchester Disk Drive
Pending (Germany)	Garni, et al.		Drive Motor Controller For Low Power Disk Drive
Pending (Germany)	Sharma		H.D.A. Pulse Shaping System Using A Differential Delay Line With Multiple Inputs
2,195,812 (UK)	Brown	August 1, 1990	High Capacity Winchester Disk Drive

