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FORM PTO-1595 1-31-92	1998 J.3 DELARTMENT OF COMMERCE Faterit and Trademark Office
To the Honorable Commissioner of Patents and Tradema: 100760	
1. Name of conveying party(ies): $6-25-98$	2. Name and address of receiving party(ies):
VPL Newco. Inc., a California corporation	Name: Sun Microsystems, nc.
Additional name(s) of conveying party(ies) attached? Yes No	Internal Address:
	Street Address 901 San Antorio Road
	City Palo Alto State CA ZIP 94303
	Additional name(s) & address(#s) attached? Yes No
3. Nature of Conveyance:  Assignment  Merger  Security Agreement  Change of Name  Other	
Execution Date: October 7, 1997	
4. Application number(s) or patent number(s):  If this document is being filed together with a new application, the execution date of this application is:	
A. Patent Application No.(s) 08/165,046 Filed 10/6/93 B Patent No.(s)	
Additional numbers attached?	
Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of application and patents identified in this cover sheet. 1
Name: B Noël Kivlin	
Internal Address: Conley. Rose & Tayon, P.C.	
Street Address. P.O. Box 398	:
City Austin State TX ZIP 78767-0398	7. Total fee (37 CFR 3.41):
	Authorized to be clarged to deposit account
07/09/1998 DMBUYEM 00000133 08165046	Deposit account number:     (Attach a duplicate copy of this page if paying by deposit account)     03-2769
91 FC:581 40.00 UF DO NOT USE	THIS SPACE
9. Statement and Signature.	
To the best of my knowledge and belief, the foregoing information is true and correct <del>and g</del> ny attached copy is a true copy of the original document	
B. Noël Kivlin	6-22-90
Name of Person Signing Signature Reg. No. 33, 929	Date  Total number of pages 7
OMB No. 0651-011 (exp.4/94)	

PATENT REEL: 9287 FRAME: 0877

### PATENT ASSIGNMENT

THIS AGREEMENT, to be effective as of October 7, 1997, is by and between VPL Newco, Inc. ("Company"), a California corporation, and Sun Microsystems, Inc. ("Sun"), a Delaware corporation having a place of business at 2550 Garcia Avenue, Mountain View, California 94043-1100.

#### WITNESSETH:

WHEREAS, Company is the owner of the entire right, title, and interest in and to the patents and applications for patent listed in Exhibits A and B attached hereto (the "Patent Rights"); and

WHEREAS, Sun desires to obtain, and Company is villing to assign to Sun, the Patent Rights;

NOW, THEREFORE, for good and valuable consideration, the sufficiency and receipt of which are hereby acknowledged, the parties hereby agree as follows:

Company does hereby sell, assign, transfer, and set over unto Sun the entire right, title, and interest in, to, and under (i) the patents and patent applications listed in Exhibits A and B attached hereto and all other patent patents and patent applications owned by Company which are related thereto, (ii) all patents which may issue from such applications, (iii) the inventions claimed in such patents and applications, and (iv) all claims for darrages by reason of past infringement of any such patents or patent applications by third parties with the right to sue for and collect the same.

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# IN WITNESS WHEREOF, Company has caused its duly authorized

representative to execute this Assignment.

By Nicolas BARSALOU

Title: Progident

Date: Ochole - 7, 1997

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## EXHIBIT A United States Patents and Patent Applications

- United States Patent No. 4,542,291, entitled "Optical Flex Secure"
- United States Passet No. 4,937,444, estricted "Optical Flex Sergor"
- United States Patent No. 4,988,981, emitted "Computer Data Entry and Manipulation Apparatus"
- 4. United States Patent No. 5,097,252, emittled "Motion Sensor Which Produces an Asymmetrical Signal in Response to Symmetrical Movement"
- United States Patent No. 5,521,373, emitted "Position Tracking System Using a
  Radiation Director Which Directs Radiation from a Radiation Source onto a
  Radiation Sensor, Depending on the Position of the Radiation Source"
- 6. United States Parent No. 5,546,530, entitled "Method and Apparatus for Rendering Graphical Images Using Parallel Processing"
- United States Patent No. 5,559,995, entitled "Method and Apparatus for Creating a Wireframs and Polygon Virtual World"
- United States Parcut No. 5,587,936, entitled "Method and Apparetts for Creating Sounds in a Vistual World by Simulating Sound in Specific Locations in Space and Generating Sounds as Touch Feedback"
- United States Patent No. 5,588,104, emitted "Method and Apparams for Creating a Wireframe and Polygon Virtual World"
- 10. United States Passet No. 5,588,139, crattled "Virtual Reality Network"
- 11. United States Patent Application Serial No. 08/128,112, filed 09/29/93, emitted "Method and Apparatus for Displaying a Virtual World"
- United States Peters Application Serial No. 08/165,046, filed 11/30/90 , entitled
   "Absolute Position Tracker"
- 13. United States Patent Application Serial No. 08/319,026, filed 11/30/90, entitled "Low Cost Virtual Reality System"

- 14. United Stress Peacet Application Serial No. 08/335,302, filed (5/24/87, entitled "Tactile Feedback Machanism for a Dam Processing System" [susy be abundances]
- 15. United States Penent Application Serial No. 08/351,741, filed 07/03/91, estitled "Virtual Image Display Device"
- 1d. United States Panes Application Serial No. 08/354,018, filed \$1/30/90, entitled "Radio Frequency Tracing System"
- 17. United States Passet Application Serial No. 05/413,940, filed 11/30/90, entitled "Improved Method and Apparatus for Creating Virtual World"
- 18. United States Peters Application Serial No. 08/480,236, filed 03/17/87, entitled "Computer Data Entry and Manipulation Apparatus" [play be abandoned]

### EXHIBIT B Foreign (Non-United States) Patents and Patent Applications

- 1. European Application No. 88-903612.5, filed 03/23/88, entitled "Motion Sensor Which Produces an Asymmetrical Signal in Response to Symmetrical Movement" (related to United States Patent No. 5.097,252)
- Canadian Application No. 2.112,682, filed 07/01/92, emitted "Virtual Image Display V
  Device" (related to United States Patent Application Scriet No. 08/351,741) /
- European Application No. 92-915131.4, filed 07/01/92, emitte: "Virtual Image Display / Device" (related to United States Peters Application Scient No. 08/351,741) /
- 5. European Application No. 0 211 984 B2, filed 08/19/85, entitled "Computer Data Entry and Manipulation Apparatus" (gramed 09/11/96) (related to United States Patent No. 4,988,981)
- Japanese Application No. 85-183789, filed 08/20/85, excitled "Computer Data Entry and Manipulation Apparatus" (granted 12/20/96) (related to United States Patent V No. 4,988,981)
- European Application No. 92/905839.6, filed 11/29/91, entitled "Method and Apparatus / for Rendering Graphical Images Using Parallel Processing" (related to United States Paratt No. 5,546,530)
- European Application No. 92/902710.0, filed 11/29/91, entitled "Improved Method and / Apparatus for Creating Virtual World" (related to United States Parent Application Secial No. 08/413,940)
- Canadian Application No. 2,172,348, filed 09/29/94, emitted 'Method and Apparatus for Displaying a Virtual World" (related to United States Patent Application Serial No. 08/128,112)

- 11. European Application No. 94/929842.6, thei 09/29/94, emitted "Method and Apparatus for Displaying a Virtual World" (related to United States Patent Application Social No. 08/128,112)
- Ispanere Application No. 510358/95, filed 09/29/94, earlied "histhod and Apparatus for Displaying a Virtual World" (related to United States Peters Application Serial No. 08/128,112)
- 13. Parent Cooperation Treaty (PCT) Application No. PCT/UB91/08944, filed 11/29/91. 
  cuttled "Improved Method and Apparatus for Creating Virtual World"
- 14. Patent Cooperation Treaty (PCT) Application No. PCT/UB91/08945, filed 11/29/91, / emitted "Method and Apparatus for Bandering Graphical Images"
- Patent Cooperation Treaty (PCT) Application No. PCT/US92/08946, filed 11/29/91, 
  entitled "Absolute Position Tractor"
- 16. Patent Cooperation Treaty (PCT) Application No. PCT/US91/M947, filed 11/29/91, entitled "Improved Method and Apparatus for Creating Sounds in a Virtual World"
- 17. Passett Cooperation Tresty (PCT) Application No. PCT/US91/18949, filed 11/29/91. 
  cmitted "System for Creating a Virtual World"
- 18. Patent Cooperation Tensty (PCT) Application No. PCT/US91/19086, filed 12/02/91, V entitled "Low Cost Virtual Reality System"
- 19. Patent Cooperation Treaty (PCT) Application No. PCT/US92/05572, cantiled "Virtual Image Display Device"

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RECORDED: 06/25/1998