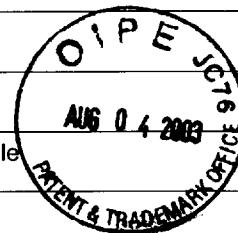| FORM PTO-1595
1-31-92 | 08-07-2003 ‖‖‖‖‖‖‖‖‖ ET | U.S. Department of Commerce
Patent and Trademark Office
Attorney Docket No. 06502.0342
Attorney Customer Number: 22,852 |

102518114

8·4·03

To the Honorable Commissioner
Please record the attached origina. ATTN. BOX ASSIGNMENTS

1. Name of conveying party(ies): Netscape Communications Corporation	2. Name and address of receiving party(ies):

| Name: | Sun Microsystems, Inc. |

| Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No | Internal Address: |

<table>
<tr><td rowspan="3">3. Nature of conveyance:</td><td colspan="2">Street Address:</td><td>4150 Network Circle</td></tr>
</table>

☒	Assignment	☐	Merger	City:	Santa Clara
☐	Security Agreement	☐	Change of Name	State: CA	Zip Code: 95054
☐	Other:			Additional name(s) & Address(es) attached?

Execution Date: May 21, 2002

☐ Yes   ☒ No

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:

A. Patent Application Number(s):	B. Patent Number(s):
09/867,645	

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:	6. Total number of applications and registrations involved: One

Name:	Jeffrey A. Berkowitz	7. Total fee (37 CFR 3.41): $40

☒ Enclosed (Please charge deficiency to deposit account)

☐ Authorized to be charged to deposit account

Internal Address:	FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.	
Street Address:	1300 I Street, N.W.	
City:	Washington, D.C.	
State:		Zip: 20005-3315	8. Deposit Account No.: 06-0916

9. 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.

08/06/2003 DBYRNE   00000193 09867645
01 FC:8021   Joseph E. Palys   40.00 OP

				August 4, 2003
Reg. No. 46,508		Signature		Date

Total number of pages including cover sheet, attachments and documents: Seven

PATENT
REEL: 014354 FRAME: 0437

MEMORANDUM OF
ASSIGNMENT OF OWNERSHIP

"Assignor":   NETSCAPE COMMUNICATIONS CORPORATION

       The Assignor identified above hereby confirms that the Assignor has for good and valuable consideration assigned and transferred, and does hereby assign and transfer, to SUN MICROSYSTEMS, Inc., Assignor's entire right, title and interest in and to those certain invention(s) of the titles listed below, including all worldwide patents, patent applications, trade secrets, copyrights, and other intellectual property rights therein, together with all claims for damages by reason of past infringement of any of the foregoing intellectual property rights, with the right to sue for, and collect, the same for SUN MICROSYSTEMS Inc.'s own use and benefit.

Sun Ref.#	Title of Invention	Patent Serial No. (if available)	Inventors
P4335 PSP	Application Server	60/148794	Tejkumar ARORA Dave LOWE Ramakrishna CHINTA Bjorn CARLSON Saumitra DAS Santosh HASANI Milton SOONG
P4441PSP	Web Server I	60/156305	Ruslan BELKIN Michael SHAVER Julien PIERRE Howard PALMER Viswanath RAMACHANDRAN Vinay BADAMI
P4442PSP	Web Server II	60/155711	Ruslan BELKIN Viswanath RAMACHANDRAN Howard PALMER Vinay BADAMI Julien PIERRE Michael SHAVER
P4524 NP	Cross/Multi-Process Sessions In Java	09/574398	Ruslan BELKIN
P4525 NP	Sticky Attach For JNI Thread	09/573698	Ruslan BELKIN
P4527 NP	Partitioning Web Server Pool Between Java & Non-Java Application	09/574302	Ruslan BELKIN Viswanath RAMACHANDRAN
P4528 NP	Mechanism For Optimizing Processing Of Client Requests	09/602642	Vinay BADAMI Howard PALMER

Sun Ref.#	Title of Invention	Patent Serial No. (if available)	Inventors
P4530 NP	Pluggable Session Manager	09/524775	Ruslan BELKIN
P4607 NP	Commerce Exchange Interaction Protocol	09/574334	Ryh-Wei YEH Lakshmi Narasimhar R Ankireddipally
P4610 NP	Mechanism For Optimizing The Processing Of Server-Parsed Entities	09/602637	Vinay BADAMI
P4620 NP	Xml Transaction Dag Structure	09/574335	Ryh-Wei YEH Lakshmi Narasimhar R Ankireddipally Dan NICHOLS
P4790 NP	System And Method For Enabling Application Server Request Failover	09/561704	Tejkumar ARORA Saumitra DAS
P4791 NP	Application Server Client Side Load Balancing	09/562425	Tejkumar ARORA Saumitra DAS
P4794 NP	System And Method For Caching Javaserver Pages(TM) Responses	09/561698	Bjorn CARLSON
P4795 NP	System And Method For Enabling Dynamic Class Reloading In An Application Server Environment	09/561697	Bjorn CARLSON Milton SOONG Santosh HASANI
P4796 NP	System And Method For Enabling Atomic Class Loading In An Application Server Environment	09/562,424	Bjorn CARLSON Milton SOONG Santosh HASANI
P4797 NP	System And Method For Enabling Distributed Application Server Events	09/561696	Saumitra DAS Ramakrishna CHINTA
P4798 NP	Application Server Message Logging	09/561700	Saumitra DAS Ramakrishna CHINTA
P4799 NP	Graceful Distribution In Application Server Load Balancing	09/561705	Tejkumar ARORA Saumitra DAS
P4800 NP	Application Server Sticky Load Balancing	09/562421	Tejkumar ARORA Saumitra DAS
P5044 NP	Mechanism For Enabling A Thread Unaware Or Non Thread Safe Application To Be Executed Safely In A Multi-Threaded Environment Mechanism For Enabling A Thread Unaware Or Non Thread Safe Application To Be Executed Safely In A Multi-Threaded Environment	09/574314	Ruslan BELKIN Viswanath RAMACHANDRAN Ruslan BELKIN
P5045 NP	Mechanism For Evaluating Requests Prior To Disposition In A Multi-Threaded Environment	09/573696	Ruslan BELKIN Viswanath RAMACHANDRAN
P5191 NP	Even Distribution Of Stateful Application Server Requests	09/561703	Tejkumar ARORA Saumitra DAS
P5296 NP	Method And System Hosting Of Multiple Billers In An Internet Bill Presentment And Payment Environment	09/885978	Praveena VARADARAJAN, Shailendra GOEL Manish Krishnarao KALBANDE Melinda NASIF Ryan NGUYEN Thuy NGUYEN

Sun Ref.#	Title of Invention	Patent Serial No. (if available)	Inventors
P5296 PSP	Multi-Hosting Apparatus For Billing Applications	60/214248	Praveena VARADARAJAN, Shailendra GOEL Manish Krishnarao KALBANDE Melinda NASIF Ryan NGUYEN Thuy NGUYEN
P5653 NP	Defining And Creating Custom Data Fields Within Process Management Software	09/823001	Albert TAM Michael Anthony SIJACIC Edwin KHODABAKCHIAN Michal CHMIELEWSKI
P5792 NP	Access Control For An E-Commerce Application	09/956083	Madhu KRISHNAPURAM Stayton D. ADDISON Shreenivas KAND Mangesh GONDHALEKAR
P5793 NP	Conflict Resolution In An E-Commerce Rules Engine	09/969635	Dimitri KOUBENSKI Daniel KOUKKA Stayton D. ADDISON
P5794 NP	Method And System For The Development Of Commerce Software Applications	10/021016	Alexandre DROBYCHEV Nirupama MALLAVARUPU Ching-Wen Alan CHU James KONG
P5795 NP	Import/Export Utility	09/930160	Leonid KHODULEN Vsevolod KAMYSHENKO Andrei SKALDIN
P5796 NP	Inheritance And Relationship To Directory Information In An E-Commerce Rules Engine	09/969634	Dimitri KOUBENSKI Daniel KOUKKA Stayton D. ADDISON
P5797 NP	System And Method For Providing A Persistent Object Framework For Managing Persistent Objects	09/940580	Keith HANKIN James KONG Ching-Wen Alan CHU Nirupama MALLAVARUPU
P5798 NP	Profile Management For Upgrade Utility	09/931037	James KONG Alexandre KRAVTCHENKO Vsevolod KAMYSHENKO
P5829 NP	Method And System For Grouping Entries In A Directory Server By Group Memberships Defined By Roles	09/867790	Peter ROWLEY David BOREHAM Mark SMITH
P5830 NP	Method And System For Creating And Utilizing Managed Roles In A Directory Server	09/867789	Peter ROWLEY Mark SMITH David BOREHAM
P5831 NP	Method And System For Incorporating Filtered Roles In A Directory Server	09/867788	Peter ROWLEY Mark SMITH David BOREHAM
P5832 NP	Method And System For Nesting Roles In A Directory System	09/867516	Peter ROWLEY Mark SMITH David BOREHAM
P5833 NP	Enumerated Roles In A Directory System	09/867508	Peter ROWLEY Mark SMITH David BOREHAM

Sun Ref.#	Title of Invention	Patent Serial No. (if available)	Inventors
P5834 NP	Method And System For Sharing Entry Attributes In A Directory Server Using Class Of Service	09/867791	Peter ROWLEY David BOREHAM
P5835 NP	Method And System For Determining A Directory Entry Class Of Service Based On The Value Of A Specifier In The Entry	09/867595	Peter ROWLEY David BOREHAM
P5836 NP	Method And System For Determining A Directory Entry's Class Of Service In An Indirect Manner	09/867594	Peter ROWLEY David BOREHAM
P5837 NP	Method And System For Determining A Directory Entry's Class Of Service By Pointing To A Single Template Entry	09/867517	Peter ROWLEY David BOREHAM
P5838 NP	Directory Server Mapping Tree	09/993,919	Gilles BELLATON Robey POINTER Mark SMITH
P5839 NP	Supporting Access Control Checks In A Directory Server Using A Chaining Backend Method	10/001,939	Gilles BELLATON Mark SMITH Sylvain DULOUTRE
P5840 NP	Entry Distribution In A Directory Server	09/844020	Gilles BELLATON Sylvain DULOUTRE Mark SMITH
P5841 NP	Virtual Attribute Service In A Directory Server	09/993,920	Mark SMITH David BOREHAM Peter ROWLEY
P5842 NP	Directory Server Software Architecture	10/004,349	Mark SMITH Mark WAHL John MERRELLS
P5843 NP	Change Sequence Number Generator	09/993,939	Mark SMITH Pinaki SHAH Olga NATKOVICH Gordon GOOD John MERRELLS Ludovic POITOU
P5844 NP	Update Resolution Procedure For A Directory Server	09/993,938	Mark SMITH John MERRELLS Olga NATKOVICH Gordon GOOD Rich MEGGINSON
P5845 NP	Replication Architecture For A Directory Server	09/993,940	Mark SMITH John MERRELLS Olga NATKOVICH Gordon GOOD Rich MEGGINSON Ludovic POITOU
P5846 NP	Fractional Replication In A Directory Server	09/849826	Mark SMITH Gordon GOOD
P5847 NP	Directory Server Schema Replication	10/003,040	Mark SMITH Gordon GOOD

Sun Ref.#	Title of Invention	Patent Serial No. (if available)	Inventors
P5848 NP	Replica Update Vectors	09/993937	Mark SMITH Pinaki SHAH Olga NATKOVICH Gordon GOOD John MERRELLS
P5849 NP	UniqueID-Based Addressing In A Directory Server	09/871457	Mark SMITH Olga NATKOVICH John MERRELLS Gordon GOOD
P5850 NP	Bulk Import In A Directory Server	09/877706	Mark SMITH Robey POINTER David BOREHAM Gilles BELLETON
P5935 NP	Automated And Customizable Localization Parser Utility	09/895751	Kenneth EBBS Lawrence WHITE Arvin PRABHAKAR
P5936 NP	Client Controlled Data Recovery Management	09/931004	Nang Kon KWAN
P5937 NP	Method And System For Answering Online Certificate Status Protocol (OCSP) Requests Without Certificate Revocation Lists (CRL)	09/867648	Nang Kon KWAN
P5948 NP	Methods And System For Defining And Creating Custom Activities Within Process Management Software	09/867650	Albert TAM Edwin KHODABCHIAN Michael Anthony SIJACIC Michal CHMIELEWSKI
P5949 NP	Methods And System For Integrating XML Based Transactions In An Electronic Invoice Presentment And Payment Environment	09/867649	Michael Anthony SIJACIC Noel R.GONSALVES Michal CHMIELEWSKI
P5950 NP	Methods And System For Performing Electronic Invoice Presentment And Payment Dispute Handling With Line Item Level Granularity	09/867652	Blake GROVES Michal CHMIELEWSKI Michael Anthony SIJACIC
P5953 NP	Methods And System For Performing Business-To-Business Electronic Invoice Presentment And Payment With Line Item Level Granularity	09/867651	Praveena VARADARAJAN Shailendra GOEL Blake GROVES Michal CHMIELEWSKI Michael Anthony SIJACIC Ryan NGUYEN
P5957 NP	Methods And Systems For Delivery Of Information Upon Enrollment In An Internet Bill Presentment And Payment Environment	09/867645	Manish Krishnarao KALBANDE Marc Jeston BYRD
P5977 NP	Mechanism For Reconfiguring A Server Without Incurring Server Down Time	09/792805	Christian KAISER Rick SWIFT
P6043 NP	Method And Apparatus For Centralizing A Certificate Revocation List In A Certificate Authority Cluster	09/932298	Ajay SONDHI Christina FU

Sun Ref.#	Title of Invention	Patent Serial No. (if available)	Inventors
P6053 NP	Delta CRL Enhancement	09/902253	Michelle ZHAO
P6054 NP	CRL Last Changed Extension Or Attribute	09/902254	Michelle ZHAO
P6055 NP	High Performance Persistent CRL Cache	09/902246	Andrew WNUK
P6180 NP	Configurable Mechanism And Abstract API Model For Directory Operations	09/922190	Chi-Hung FU Dilli DORAI Hin MAN Pransanta BEHERA
P6350 NP	Macro Based Access Control	10/045682	Robert BYRNE Pransanta BEHARA
P6434 NP	System And Method For Enabling Failover For An Application Server Cluster	Filed on 3/12/02	Darpan DINKER Sudhir TONSE Suveen R. NADIPALLI Pramod GOPINATH
P6437 NP	System And Method For Enabling Failover For An Application Server Cluster CHECK TITLE - (same as 6434 above?) Distribution Token Manager	10/043,809	Darpan DINKER Sudhir TONSE Suveen R. NADIPALLI Pramod GOPINATH
P6546 NP	Metadata Aware Enterprise Application Integration Framework For Application Server Environment	10/051,441	Pavan BHATNAGAR Venkateswar AMIRISETTY
P6546 PSP	Metadata-Aware Enterprise Application Integration Framework For Application Server Environment	60/295119	Pavan BHATNAGAR Venkateswar AMIRISETTY
P6551 NP	Method And System For Managing A Directory With A Template	09/973184	Atul BHANDARI Roger KITAIN
P6857 PSP	Configuring The Hierarchical Structure Of Directory Entries/Managing Composite Directory Object	60/310529	Pinaki ALLAVARPU Pransanta BEHERA Atul BHANDARI Roger KITAIN

NETSCAPE COMMUNICATIONS
CORPORATION

Signature: _____

Printed Name: _G/o Hunt_____

Title : _SVP, Business Affairs_____

Date of Signature: _5.21.02_____

Page 6 of 6

PATENT
REEL: 014354 FRAME: 0443