

PATENT ASSIGNMENT

Electronic Version v1.1

Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT								
NATURE OF CONVEYANCE:	ASSIGNMENT								
CONVEYING PARTY DATA									
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Joe Sapsford</td> <td>02/16/2005</td> </tr> <tr> <td>Han Wen</td> <td>02/16/2005</td> </tr> <tr> <td>Network Physics, Inc.</td> <td>10/19/2007</td> </tr> </tbody> </table>		Name	Execution Date	Joe Sapsford	02/16/2005	Han Wen	02/16/2005	Network Physics, Inc.	10/19/2007
Name	Execution Date								
Joe Sapsford	02/16/2005								
Han Wen	02/16/2005								
Network Physics, Inc.	10/19/2007								
RECEIVING PARTY DATA									
Name:	OPNET Technologies, Inc								
Street Address:	7255 Woodmont Avenue								
City:	Bethesda								
State/Country:	MARYLAND								
Postal Code:	20814								
PROPERTY NUMBERS Total: 1									
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Patent Number:</td> <td>7885206</td> </tr> </tbody> </table>		Property Type	Number	Patent Number:	7885206				
Property Type	Number								
Patent Number:	7885206								
CORRESPONDENCE DATA									
Fax Number:	2152437525								
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>									
Phone:	804-493-0707								
Email:	patents@lawyer.com								
Correspondent Name:	Robert M. McDermott								
Address Line 1:	1824 Federal Farm Road								
Address Line 4:	Montross, VIRGINIA 22520								
ATTORNEY DOCKET NUMBER:	OP-05219CONT								
NAME OF SUBMITTER:	Robert M. McDermott 41,508								
<p>Total Attachments: 10 source=OP-050219 Assignment#page1.tif source=OP-050219 Assignment#page2.tif</p>									

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Attorney's Docket No.: 3997P025

ASSIGNMENT

In consideration of good and valuable consideration, the receipt of which is hereby acknowledged, we, the undersigned:

Joe Sapsford; Han Wen

hereby sell, assign, and transfer to:

Network Physics

having a principal place of business at 491 Fairchild Drive, Mountain View, California 94043 ("Assignee"), and its successors, assigns, and legal representatives, the entire right, title, and interest for the United States and all foreign countries, in and to any and all inventions and improvements that are disclosed in the application for the United States patent that has been executed by the undersigned prior hereto or concurrently herewith on the dates indicated below and is entitled:

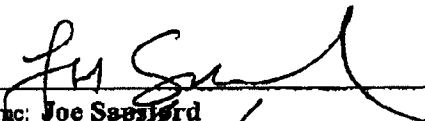
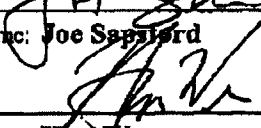
Method And System For Topological Navigation Of Hierarchical Data Groups

and in and to said application and all design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications that have been or shall be filed in the United States and all foreign countries on any of said inventions and improvements; and in and to all original and reissued patents that have been or shall be issued in the United States and all foreign countries on said inventions and improvements; and in and to all rights of priority from the filing of said United States applications;

agree that said Assignee may apply for and receive a patent or patents for said inventions and improvements in its own name; and that, when requested, without charge to, but at the expense of, said Assignee, its successors, assigns, and legal representatives, to carry out in good faith the intent and purpose of this Assignment, the undersigned will execute all design, utility, divisional, continuing, continuation-in-part, substitute, renewal, reissue, and all other patent applications on any and all said inventions and improvements; execute all rightful oaths, assignments, power of attorney, and other papers; communicate to said Assignee, its successors, assigns, and legal representatives all facts known to the undersigned relating to said inventions and improvements and the history thereof; and generally assist said Assignee, its successors, assigns, or legal representatives in securing and maintaining proper patent protection for said inventions and improvements and for vesting title to said inventions and improvements, and all applications for patents and all patents on said improvements, in said Assignee, its successors, assigns, and legal representatives; and

covenant with said Assignee, its successors, assigns, and legal representatives that no assignment, grant, mortgage, license, or other agreement affecting the rights and property herein conveyed has been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Each Inventor: Please Sign and Date Below:

2/16/05	
Date	Name: Joe Sappford
2/16/05	
Date	Name: Han Wen
Date	Name:
Date	Name:
Date	Name:
Date	Name:
Date	Name:
Date	Name:
Date	Name:

Assignment Document Return Address:
BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP
12400 Wilshire Boulevard, 7th Floor
Los Angeles, CA 90025
Telephone: (408) 947-8200

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NETWORK PHYSICS, INC.	10/19/2007

RECEIVING PARTY DATA

Name:	OPNET Technologies, Inc.
Street Address:	7255 Woodmont Avenue
City:	Bethesda
State/Country:	MARYLAND
Postal Code:	20814-7900

PROPERTY NUMBERS Total: 27

Property Type	Number
Patent Number:	6600752
Patent Number:	6674717
Patent Number:	6928472
Patent Number:	6947381
Patent Number:	6990071
Patent Number:	7072297
Patent Number:	7092355
Patent Number:	7248564
Patent Number:	7277843
Application Number:	10915550
Application Number:	10937986
Application Number:	10923576
Application Number:	11001985
Application Number:	11061978
Application Number:	11092226

500379930

PATENT
 REEL: 019047 FRAME: 0376
 REEL: 030119 FRAME: 0526

OP \$1080.00 6600752

Application Number:	11148055
Application Number:	09846451
Application Number:	09846452
Application Number:	10205135
Application Number:	11193967
Application Number:	10195904
Application Number:	10195905
Application Number:	11173758
Application Number:	11173752
Application Number:	10318633
Application Number:	60340205
Application Number:	60488225

CORRESPONDENCE DATA

Fax Number: (617)310-9866
Correspondence will be sent via US Mail when the fax attempt is unsuccessful.
Phone: 617-439-2866
Email: jso@nutter.com
Correspondent Name: Rena Marie Strand
Address Line 1: 155 Seaport Boulevard
Address Line 4: Boston, MASSACHUSETTS 02210-2604

ATTORNEY DOCKET NUMBER:

OPNET

NAME OF SUBMITTER:

Rena Marie Strand

Total Attachments: 6

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PATENT ASSIGNMENT

WHEREAS, Network Physics, Inc., a Delaware corporation ("Assignor"), and OPNET Technologies, Inc., a Delaware corporation ("Assignee"), are parties to that certain Asset Purchase Agreement dated as of October __, 2007 (the "Agreement"); and

WHEREAS, pursuant to the Agreement, the Assignor has agreed to sell, transfer and assign to Assignee, any right, title and interest of the Assignor in and to the Patents and Patent Applications listed on Schedule A attached hereto, and the inventions and discoveries disclosed therein (the "Patents").

NOW, THEREFORE, for good and valuable consideration, receipt of which is hereby acknowledged, Assignor does hereby sell, assign and transfer unto the Assignee all of its right, title and interest in, to and under the patents and patent applications, including any inventions disclosed therein whether or not presently claimed, together with the right to sue and recover for the past infringements of the patents and patent applications, the same to be held and enjoyed by Assignee for its own use and enjoyment, and for the use and enjoyment of its successors, assigns and other legal representatives as fully and entirely as the same would have been held and enjoyed by Assignor had this Assignment not been made.

FURTHER, Assignor agrees to execute and provide promptly after its execution hereof, such further instruments and documents or assignments as may be reasonably necessary to effectuate the purpose of this transaction and consolidate, vest and record in Assignee, Assignor's rights in, to and under the patents and patent applications.

[Remainder of Page Intentionally Left Blank]

IN WITNESS WHEREOF, Assignor has caused this assignment to be executed as an instrument under seal by its duly authorized officer this ___ day of October, 2007.

NETWORK PHYSICS, INC.

By: *Kenny Frederichs*
Name: *KENNY FREDERICHS*
Title: *CEO*

State of California
County of _____

On this _____ day of October 2007, before me, the undersigned notary public, personally appeared _____, proved to me through satisfactory evidence of identification, which were _____, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he signed it voluntarily for its stated purpose.

Notary Public
My commission expires: _____

See Attached

[Patent Assignment Signature Page]

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

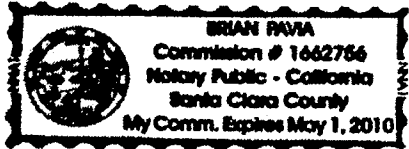
State of California

County of San Mateo

} SS.

On October 18, 2007, before me, Brian Pavita, Notary Public

personally appeared Kenny Frerichs



personally known to me

proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.
[Signature]
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of this form to another document.

Description of Attached Document

Title or Type of Document: _____

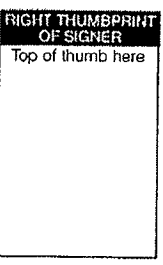
Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing: _____

Signer's Name: _____

- Individual
- Corporate Officer — Title(s): _____
- Partner — Limited General
- Attorney in Fact
- Trustee
- Guardian or Conservator
- Other: _____



Signer Is Representing: _____

PATENT
REEL: 019984 FRAME: 0380
REEL: 030119 FRAME: 0530

Schedule A

PATENTS

Title	Inventor	Assignee	Patent Number	Filing Date	Registration Date	Jurisdiction
Method for reducing excess queue time in communication nodes	Duong-Van, Minh	Network Physics, Inc.	6,600,752	June 30, 1999	July 29, 2003	US
Method for reducing packet loss and increasing internet flow by feedback control	Duong-Van, Minh; Pavel, Thomas J.; Wen, Han C.	Network Physics, Inc.	6,674,717	March 30, 2000	January 6, 2004	US
Method for correlating congestion to performance metrics in internet traffic	Wen, Han C.	Network Physics, Inc.	6,928,472	July 23, 2002	August 9, 2005	US
Method for reducing packet loss by phase transition identification in communication networks	Wen, Han C.; Duong-Van, Minh; Pavel, Thomas J.; Crane, Mark	Network Physics, Inc.	6,947,381	April 30, 2001	September 20, 2005	US
Method for reducing fetch time in a congested communication network	Adam, Ian; Pavel, Thomas J.; Wen, Han C.; Duong-Van, Minh; Crane, Mark	Network Physics, Inc.	6,990,071	April 30, 2001	January 24, 2006	US
Method for dynamical identification of network congestion characteristics	Adam, Ian; Pavel, Thomas J.; Wen, Han C.; Duong-Van, Minh; Crane, Mark	Network Physics, Inc.	7,072,297	April 30, 2001	July 4, 2006	US
Method for controlling congested network flow	Duong-Van, Minh	Network Physics, Inc.	7,092,355	June 30, 1999	August 15, 2006	US
Method for determining network congestion and link capacities	Grosdidier, Gilbert; Duong-Van, Minh; Pavel, Thomas J.; Wen, Han C.; Adam, Ian et al	Network Physics, Inc	7,248,564	May 11, 2001	July 24, 2007	US
Method for real-time auto determination of outliers	Wen, Han; Pavel, Tomas J.	Network Physics, Inc	7,277,843	July 15, 2002	October 2, 2007	US

PATENT APPLICATIONS

Title	Inventor	Assignee	File Number	Filing Date	Juris-diction
Method and apparatus for detecting a computer worm virus	Dwight G. Barker; Han C. Wen; George Zioulas	Network Physics, Inc.	10/915,550	8/9/2004	US
Method and system for grouping diagnostic information	Han C. Wen; George Zioulas; Masood Ahmed	Network Physics, Inc.	10/937,986	9/10/2004	US
Method for prioritizing group data reduction	George Zioulas; Dimitrus Stassinopoulos; Han C. Wen	Network Physics, Inc.	10/923,576	8/20/2004	US
Method for discovery and troubleshooting of network application usage and performance issues	Han C. Wen; George Zioulas; Stephen Guarini; Masood Ahmed; Erik Seilnacht	Network Physics, Inc.	11/001,985	12/1/2004	US
Method and system for topological navigation of hierarchical data groups	Joe Sapsford; Han C. Wen	Network Physics, Inc.	11/061,978	2/18/2005	US
Method and system for managing a distributed network of network monitoring devices	Dimitrus Stassinopoulos; George Zioulas; Han C. Wen	Network Physics, Inc.	11/092,226	3/28/2005	US
Distributed network monitoring system	Stephen Guarini; Thomas J. Pavel; Mark Crane; Erik Seilnacht; Romain Kang	Network Physics, Inc.	11/148,055	6/8/2005	US
Method for reducing packet loss by resonance identification in communication networks	Minh Duong-van; Han C. Wen; Mark Crane; Thomas J. Pavel	Network Physics, Inc.	09/846,451	4/30/2001	US
Method for acceleration TCP flows in communication networks with dynamic control	Han C. Wen; Ian Adam; Minh Duong-Van; Thomas J. Pavel; Mark Crane	Network Physics, Inc.	09/846,452	4/30/2001	US
A Bayesian approach to correlating congestion to performance metrics in internet traffic	Han C. Wen	Network Physics, Inc.	10/205,135	7/23/2002	US
Learning detection engine for network monitoring applications	Minh Duong-van	Network Physics, Inc.	11/193,967	7/28/2005	US
Method for detecting congestion in internet traffic	Han C. Wen; Thomas J. Pavel	Network Physics, Inc.	10/195,904	7/15/2002	US
Method for real-time auto-detection of outliers	Han C. Wen; Thomas J. Pavel	Network Physics, Inc.	10/195,905	7/15/2002	US
Method and system for collecting and consolidating network traffic information	George Zioulas; Wenjie Ding	Network Physics, Inc.	11/173,758	6/30/2005	US

Method and system for identifying duplicate packets in flow-based network monitoring system	Mark E. Crane; Thomas J. Pavel; Wei Yue	Network Physics, Inc.	11/173,752	6/30/2005	US
Method and apparatus for network congestion management	Minh Duong-van	None		NOT YET RIPE	US
Method for guided workflows in network application performance monitoring	Stephen Guarini; Han C. Wen	None		NOT YET RIPE	US
Method and system for managing traffic information of logical groups in a distributed network monitoring system	George Zioulas; Stephen Guarini; Han Wen	None		NOT YET RIPE	US
User interface for network performance monitoring	Han Wen; Nai-ting Hsu; David Trowbridge; John Connelly; Silvia Veronese	?		NOT FILED (draft complete)	US
Neural network predictor for real-time network traffic control using approximately selected variables	Richard Blackenbecker; Minh Duong-van	?		NOT FILED (drafted, sent to client)	US
Method for reducing response time by breathing mode identification in communication networks	Han C. Wen; Matt Langston; Minh Duong-van; Ian Adam; Phomas J. Pavel; Richard Blackenbecker; Mark Crane	?		NOT FILED (drafted, sent to client)	US
Neural network correlation engine	Minh Duong-van	?		NOT FILED (draft complete)	US
Method for configuring logical groupings in a distributed network monitoring system	George Zioulas; Stephen Guarini; Han Wen	?		NOT FILED	US
Method and apparatus for reducing packet loss in computer networks - ABANDONED FILING	Minh Duong-van; Richard Blankenbecker; Robert Cheng	None	10/318,633	12/12/2002	US
Method and apparatus for reducing packet loss in computer networks - EXPIRED	Minh Duong-van; Richard Blankenbecker; Robert Cheng	None	60/340,205	12/12/2002	US
Method for detecting computer virus - EXPIRED	Minh Duong-van; Dimitrus Stassinopoulos; Silvia Veronese; Ludovic Milin	None	60/488,225	7/16/2003	US
Method for reducing packet loss and increasing internet flow by feedback control - EXPIRED (but US patent with same title is issued)	Minh Duong-van; Thomas J. Pavel; Han C. Wen	Network Physics, Inc.	US00/41174	10/16/2000	PCT