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☐ Assignment

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Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Name (line 1)

PAVILION TECHNOLOGIES, INC.

Execution Date
Month Day Year
09 29 99

Name (line 2)

Second Party

Name (line 1)

Execution Date
Month Day Year

Name (line 2)

Receiving Party

☐ Mark if additional names of receiving parties attached

Name (line 1)

SILICON VALLEY BANK

Name (line 2)

Address (line 1)

9020 North Capital of Texas Highway

Address (line 2)

Building One, Suite 350

Address (line 3)

Austin

City

TX

State/Country

78759

Zip Code

☐ 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.)

Domestic Representative Name and Address

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PATENT
REEL: 010452 FRAME: 0001

Correspondent Name and Address

Area Code and Telephone Number 512-480-5678

Name Diana K. Borden, Esq.

Address (line 1) Graves, Dougherty, Hearon & Moody

Address (line 2) 515 Congress Avenue

Address (line 3) Suite 2300

Address (line 4) Austin, TX 78701

Pages

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

12

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)

Patent Number(s)

09/250,432 09/167,504 08/943,489

5,353,207 5,613,041 5,729,661

09/047,853 09/290,791 09/167,400

5,479,573 5,781,432 5,825,646

09/174,860 09/224,648 09/207,719

5,386,373

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)

Enter PCT application number

only if a U.S. Application Number has not been assigned.

PCT US93/05596

PCT US93/11251

PCT US94/00905

PCT US94/00910

PCT US94/02305

PCT US94/04692

Number of Properties

Enter the total number of properties involved.

27

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ 1,080.00

Method of Payment:

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Enclosed ☐

Deposit Account ☒

Deposit Account Number:

071892

Authorization to charge additional fees:

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No

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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. Charges to deposit account are authorized, as indicated herein.

Diana K. Borden, Esq.

Name of Person Signing

Diana K. Borden

Signature

12/10/99

Date

RECORDATION FORM COVER SHEET
CONTINUATION
PATENTS ONLY

U.S. Department of Commerce
Patent and Trademark Office
PATENT

Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Name (line 1) PAVILION TECHNOLOGIES, INC.

Execution Date
Month Day Year

09 29 99

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Execution Date
Month Day Year

Name (line 1)

Name (line 2)

Receiving Party(ies)

☐ Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1) SILICON VALLEY BANK

Name (line 2)

Address (line 1) 9020 North Capital of Texas Highway

Address (line 2) Building One, Suite 350

Address (line 3) Austin

City

TX

State/Country

78759

Zip Code

☐ 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.)

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Address (line 1)

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Zip Code

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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)

Patent Number(s)

09/330,326 PCT US94/08628

PCT US97/08473

PCT US94/08657

PCT US96/06833

PATENT SECURITY AGREEMENT

WHEREAS, PAVILION TECHNOLOGIES, INC., a Texas corporation (the "Grantor") owns the Patents and Patent Applications listed on Schedule 1 annexed hereto;

WHEREAS, the Grantor, and SILICON VALLEY BANK (the "Secured Party") are parties to that certain Amended and Restated Loan and Security Agreement, dated effective as of July 23, 1999, as the same may be renewed, extended, amended, modified, restated, supplemented and in effect from time to time (the "Loan Agreement"; all terms defined in the Loan Agreement, wherever used herein, shall have the same meanings herein as are prescribed by the Loan Agreement);

WHEREAS, pursuant to the terms of the Loan Agreement, and that certain Pledge and Security Agreement between Grantor and Secured Party, dated effective as of September 29, 1999 (the "Security Agreement"); Grantor has granted to the Secured Party a security interest in substantially all the assets of the Grantor, including, without limitation, all right, title and interest of the Grantor in, to and under all now owned and hereafter acquired Patents, and all products and proceeds thereof, to secure the payment of the Obligations.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Grantor does hereby grant to the Secured Party a continuing security interest in all of the Grantor's right, title and interest in, to and under the following (all of the following items or types of property being herein collectively referred to as the "Patent Collateral"), whether presently existing or hereafter created or acquired:

(1) each Patent and each application for a Patent ("Patent Application"), including, without limitation, each Patent and Patent Application referred to in Schedule 1, together with any reissues, continuations, divisions, modifications, substitutions, or extensions thereof; and

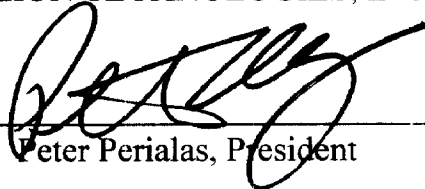
(2) all products and proceeds of the foregoing, including, without limitation, any claim by the Grantor against third parties for past, present, or future infringement of any Patent, including, without limitation, any Patent referred to in Schedule 1 and any Patent issued pursuant to a Patent Application referred to in Schedule 1.

This security interest is granted in conjunction with the security interests granted to the Secured Party pursuant to the Security Agreement. The Grantor hereby acknowledges and affirms that the rights and remedies of the Secured Party with respect to the security interest in the Patent Collateral made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated by reference herein as if fully set forth herein.

IN WITNESS WHEREOF, Grantor has caused this Patent Security Agreement to be duly executed by its duly authorized officer thereunto on this 29th of September, 1999.

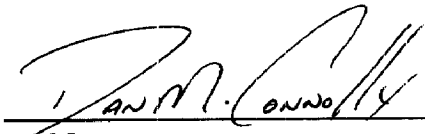
GRANTOR:

PAVILION TECHNOLOGIES, INC.

By: 
Peter Perialas, President

SECURED PARTY:

SILICON VALLEY BANK

By: 
Name: DAN M. CONNOLLY
Title: VICE PRESIDENT

ACKNOWLEDGMENT

STATE OF TEXAS)
)
COUNTY OF TRAVIS)

This instrument was acknowledged before me this 29th day of September, 1999, by Peter Perialas, as President of Pavilion Technologies, Inc., a Texas corporation, on behalf of such corporation.

{Seal}

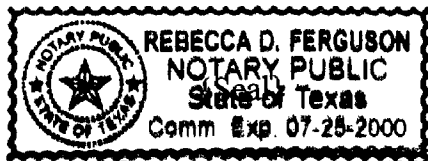
Karen Michelle Ferguson
Notary Public in and for the State of TX

My commission expires: Feb 9, 2003

ACKNOWLEDGMENT

STATE OF Texas)
)
COUNTY OF Travis)

This instrument was acknowledged before me this 29th day of September, 1999 by Dan Connolly, Vice President of Silicon Valley Bank.



Rebecca D. Ferguson
Notary Public in and for the State of Texas

My commission expires: 7-25-00

Schedule 1
to Patent
Security Agreement

PATENT SECURITY AGREEMENT

Dallas2 617670 v 3, 44918.00001

U.S. PATENT AND TRADEMARK STATUS REPORT
For
PAVILION TECHNOLOGIES, INC.

U.S. PATENTS ISSUED OR ALLOWED

FILE NO.	TITLE	SERIAL NO.	FILING DATE	PATENT NO.	ISSUE DATE	EXP. DATE	STATUS
PAVI-20,964	Residual Activation Neural Network; (Keeler, Hartman, Liano & Ferguson)(Continuation PAVI-22,862) (PCT PAVI-21,878; EPO PAVI-23,413; Canadian PAVI-23,414; Japanese PAVI-23,415)	07/896,755	06/10/1992	5,353,207	10/04/1994	6/10/2012	2nd Maintenance Due 04/04/2002
PAVI-20,965	Method and Apparatus for Operating Neural Network with Missing and/or Incomplete Data (Keeler, Hartman & Ferguson)(Continuation of Serial No. 08/980,664, now abandoned, same file no.) (PCT PAVI-22,576; JA PAVI-23,593; EPO PAVI-23,597; CA PAVI-23,598; AUS PAVI-23,599)(Has CIP: PAVI-21,462, PAVI-21,557, Cont PAVI-23,573 and Cont PAVI-23,833)	08/531,100	09/20/1995	5,613,041	03/18/1997	09/20/2015	1st Maintenance due 9/18/2000
PAVI-21,462	Method and Apparatus for Preprocessing Input Data to a Neural Network; (Keeler, Hartman, O'Hara, Kempf & Godbole); CIP of PAVI-20,965 bearing '664 S/N (PCT PAVI-22,717, EPO PAVI-23,637; CA PAVI-23,636)	08/008,170	01/25/1993	5,729,661	03/17/1998	12/26/2012	1st Maintenance Fee due 09/17/2001
PAVI-21,557	Predictive Network with Learned Preprocessing Parameters; (Keeler, Hartman, O'Hara, Kempf & Godbole) (CIP of PAVI-20,965) (PCT PAVI-22,716, EPO PAVI-23,634, CA PAVI-23,635, CONT PAVI-23,719)	08/008,218	01/25/1993	5,479,573	12/26/95	1/25/2013	#2 Maint. Due 6/26/2003
PAVI-21,571	Method and Apparatus for Analyzing a Neural Network Within Desired Operating Parameter Constraints (Keeler & Hartman) (FWC of 08/025,184, now abandoned(same file no.)), Cont PAVI-21,761; CIP PAVI 22,571 and PCT 23,175)	08/759,539	12/04/96	5,781,432	07/14/98	03/02/2013	1st Maintenance Fee Due 01/14/2002
PAVI-21,761	Method and Apparatus for Determining the Sensitivity of Inputs to a Neural Network on Output Parameters; (Keeler, Hartman & Liano) (PCT PAVI-22,965); Cont of 056,197 (abandoned) which is a CIP of 08/025,184(abandoned) which is parent to FWC S/N 08/759,539(This file is a CONT of 21,571 having S/N 08/759,539)	08/656,702	06/03/1996	5,825,646	10/20/1998	03/02/2013	1st Maintenance Fee due 04/20/2002
PAVI-21,874	Virtual Continuous Emission Monitoring System with Sensor Validation; (Keeler, Havener, Godbole & Ferguson); (PCT-23,175(PAVI-23,713; 23,714; 23,715; 23,716 and 23,717); CIP PAVI-22,571; CONT PAVI-23,434)	08/102,405	08/05/1993	5,386,373	01/31/1995	8/5/2013	2nd Maint. Due 07/31/1999

U.S. PATENTS PENDING									
FILE NO.	TITLE	SERIAL NO.	FILING DATE	PATENT NO.	ISSUE DATE	EXP. DATE	STATUS		
PAVI-23,969	Systematic Process Modeling and Identification for Prediction, Control & Optimization (Martin, Boe, Piche, Keeler, Timmer, Gerules and Havener) (CONT of PAVI-23,623)	09/250,432	02/16/1999	N/A	N/A	N/A	Rev'd Filing Receipt 03/10/1999; Filed IDS 07/27/1999; Wait for 1 st Office Action..		
PAVI-24,100	A Method for On-Line Optimization of a Plant (Stephen Piche, John Havener & Donald Semrad)CIP of 24120 which is CIP of 23,623	09/167,504	10/06/1998	N/A	N/A	N/A	Received Rejection 05/03/1999; Response due 08/03/1999.		
PAVI-24,120	A Method for Steady-State Identification Based Upon Identified Dynamics(Keeler, Piche, Hartman, Gerules, Liano and Johnson)CIP of PAVI-23,623 (has CIP 24,100)	08/943,489	10/03/1997	N/A	N/A	N/A	Received Rejection 06/09/1999; Response Due 09/09/1999.		
PAVI-24,269	CIP of PAVI-23,719 - Automate Method for Building a Model (23,719 is a Cont. PAVI-21,557 which is CIP of 20,965) (Keeler, Hartman, O'Hara, Kempf & Godbole)	09/047,853	03/24/1998	N/A	N/A	N/A	Filed Missing Parts; Wait 1st Office Action.		
PAVI-24,473	Bayesian Neural Network for Optimization (Hartman, Peterson) ORIGINALLY FILED AS A PROVISIONAL APPLICATION	60/103,269 09/290,791	10/06/1998	N/A	N/A	N/A	Received Filing Receipt 05/17/1999; Filed Response to Missing Parts 06/10/1999; Wait for 1 st Office Action.		
PAVI-24,476	Method for Operating a Neural Network with Missing and/or Incomplete Data(Keeler, Hartman & Ferguson) (Cont of PAVI-23,833 which is CONT of 20,965)	09/167,400	10/06/98	N/A	N/A	N/A	Filed Petition to Revive, HPS and Continued Prosecution Application 07/27/1999; Wait for Decision.		
PAVI-24,489	Method & Apparatus for Determining the Sensitivity of Inputs to a Neural Network on Output Parameters (Keeler, Hartman, Liano) (Continuation of PAVI-21,761)	09/174,860	10/19/1998	N/A	N/A	N/A	Received Rejection 05/21/1999; Response Due 08/21/1999.		
PAVI-24,541	A Method for Optimizing a Plant with Multiple Inputs (Piche) (CIP of PAVI-24,100)	09/224,648	12/31/98	N/A	N/A	N/A	Received Rejection 06/18/1999; Response Due 09/18/1999.		
PAVI-24,542	Method for Training and/or Testing a Neural Network on Missing and/or Incomplete Data (Keeler, Hartman, Ferguson) (CONT. of PAVI-24,476)	09/207,719	12/08/1998	N/A	N/A	N/A	Received Rejection 06/18/1999; Response Due 09/18/1999.		
PAVI-24,558	Residual Activation Neural Network (Keeler, Hartman, Liano and Ferguson) (Cont of PAVI-23,893 which is a CONT of 22,862 which is a CONT of 20,964;)	N/A	01/12/1999	N/A	N/A	N/A	Filed Continuation Application 01/12/1999; Wait for Filing Receipt.		
PAVI-24,664	A Predictive Network with Graphically Determined Preprocessed Transforms (Keeler, Hartman, O'Hara, Kempf, Godbole) (Cont of PAVI-23,719)	09/330,326	06/11/1999	N/A	N/A	N/A	Filed Continuation Application 06/11/1999; Wait for Filing Receipt		

UNITED STATES PATENTS IN PROGRESS

FILE NO.	TITLE	SERIAL NO.	FILING DATE	PATENT NO.	ISSUE DATE	EXP. DATE	STATUS
PAVI-20,966 NOT FILING	Method for Incorporating Fuzzy Constraints in a Neural Network; (Keeler, Ferguson & Hartman)	N/A	N/A	N/A	N/A	N/A	Not filing - Abandoned.
PAVI-23,639 NOT FILING	Neural Network with Mixed-Integer Search Methods; (Ellinger)	N/A	N/A	N/A	N/A	N/A	Not filing - Abandoned.
PAVI-23,880	Method and Apparatus for Combining Mathematical Models Utilizing Neural Networks (G. Martin)	N/A	N/A	N/A	N/A	N/A	Waiting for draft application
PAVI-24,029 CLOSED	Neural Network Method and Architecture for Learning Steady-State Responses from Dynamic Data in Open or Closed Loop Systems (Keeler, Johnson and Piche)	N/A	N/A	N/A	N/A	N/A	CLOSED: DUPLICATE FILE
PAVI-24,280	Multiple Unit Modeling and Optimization (Piche, Hartmann & O'Hara)	N/A	N/A	N/A	N/A	N/A	Disclosure Taken, Drafting Application.
PAVI-24,426	Method for Modeling, Optimizing, Simulating and Controlling the Operation of a Plant (Plumber, Ellinger)	N/A	N/A	N/A	N/A	N/A	Disclosure Taken, Drafting Application.
PAVI-24,474	Innovations in the Boxes Architecture (Plumber, Ellinger)	N/A	N/A	N/A	N/A	N/A	Disclosure Taken, Drafting Application.

FOREIGN PATENTS

CTY.

FILE NO.	CTY.	TITLE	SERIAL NO.	FILING DATE	PATENT NO.	ISSUE DATE	EXP. DATE	STATUS
PAVI-21,878	PCT	Residual Activation Neural Network; (US PAVI-20,964; EPO PAVI-23,413; Canadian PAVI-23,414; Japanese PAVI-23,415)	PCT/US93/05596	06/10/1993	N/A	N/A	N/A	Entered National Phase 11/01/1994; Closed File.
PAVI-22,576	PCT	Method and Apparatus for Operating a Neural -- PCT Network with Missing and/or Incomplete Data; (US PAVI-20,965; Japanese PAVI-23,593; EPO PAVI-23,597; Canadian PAVI-23,598; Australian PAVI-23,599)	PCT/US93/11251	11/19/1993	N/A	N/A	N/A	Entered National Phase 05/24/1995; Closed File.
PAVI-22,716	PCT	Predictive Network with Learned Preprocessing Parameters; (US App.: PAVI-21,557; EPO PAVI-23,634; Canada PAVI-23,637)	PCT/US94/00905	01/25/1994	N/A	N/A	N/A	Entered National Phase 07/12/1995; Closed File.
PAVI-22,717	PCT	Method and Apparatus for Preprocessing Input Data to a Neural Network; (US App.: PAVI-21,462; EPO App: PAVI-23,636; Canada App: PAVI-23,637)	PCT/US94/00910	01/25/1994	N/A	N/A	N/A	Entered National Phase 07/12/1995; Closed File.
PAVI-22,860	PCT	Method and Apparatus Utilizing a Neural network within Desired Operating Parameter Constraints (US PAVI-21,571, EPO App: PAVI-23,643; Canada App: PAVI-23,644)	PCT/US94/02305	03/02/1994	N/A	N/A	N/A	Entered National Phase 07/11/1995; Closed File.
PAVI-22,965	PCT	Method and Apparatus for Determining the Sensitivity of Inputs to a Neural Network on Output Parameters; (US PAVI-21,761)	PCT/US94/04692	04/28/1994	N/A	N/A	N/A	Entered National Phase 10/30/1995; Closed File.
PAVI-23,175	PCT	Virtual Continuous Emission Monitoring System with Sensor Validation (US PAVI-21,874)	PCT/US94/08628	07/27/1994	N/A	N/A	N/A	Entered National Phase 02/05/1996; Closed File.
PAVI-23,176	PCT	Virtual Emissions Monitor for Automobile (US PAVI-22,751)	PCT/US94/08657	07/27/1994	N/A	N/A	N/A	Entered National Phase 02/05/1996; Closed File.
PAVI-23,413	EPO	Residual Activation Neural Network -- EPO (US App.: PAVI-20,964; PCT PAVI-21,878)	93/914464.8	06/10/1993	N/A	N/A	N/A	Entered National Phase: Renewal fees for Germany, Spain, France, U.K., Italy, Netherlands and Sweden due 6/10/2000.
PAVI-23,414	CA	Residual Activation Neural Network (US App.: PAVI-20,964; PCT PAVI-21,878)	2137806	06/10/1993	N/A	N/A	N/A	7th Year Annuity Due 06/10/2000; Req. for Exam due 6/10/2000

FILE NO.	CTY.	TITLE	SERIAL NO.	FILING DATE	PATENT NO.	ISSUE DATE	EXP. DATE	STATUS
PAVI-23,415	JA	Residual Activation Neural Network (US App.: PAVI-20,964; PCT PAVI-21,878)	06-501743	06/10/1993	N/A	N/A	N/A	Request for Examination 06/10/2000
PAVI-23,593	JA	Method and Apparatus for Operating a Neural Network with Missing and/or Incomplete Data; (U.S. App.: PAVI-20,965; PCT 22,576)	06-513265	11/19/1993	N/A	N/A	N/A	Request for Examination Due by 11/19/2000.
PAVI-23,597	EPO	Method and Apparatus for Operating a Neural Network with Missing and/or Incomplete Data; (U.S. App.: PAVI-20,965; PCT 22,576)	94 903278.3	11/19/1993	N/A	N/A	N/A	Filed Response 03/22/1999; 7 th Renewal Fee Due 11/19/1999.
PAVI-23,598	CA	Method and Apparatus for Operating a Neural Network with Missing and/or Incomplete Data (U.S. App.: PAVI-20,965; PCT 22,576)	2,149,913	11/19/1993	N/A	N/A	N/A	Renewal Fee Due 11/19/1999; Request for Examination due 11/19/2000.
PAVI-23,599	AU	Method and Apparatus for Operating a Neural Network with Missing and/or Incomplete Data (U.S. App.: PAVI-20,965; PCT 22,576)	65155/94	11/19/1993	674,227	04/02/97	11/19/2013	Next renewal fee due 11/19/1999.
PAVI-23,634	EPO	Predictive Network with Learned Preprocessing Parameters (U.S.: 21,557, PCT 22,716, Canada 23,635)	94/907888.5	07/12/1995	N/A	N/A	N/A	Text Approval Due 09/22/1999; 7 th Renewal fees due 01/25/2000.
PAVI-23,635	CA	Predictive Network with Learned Preprocessing Parameters--Canada (U.S. 21,557, PCT 22,716, EPO 23,634)	2153779	07/12/1995	N/A	N/A	N/A	7 th Annuity Due 01/25/2000; Req. for Exam due 1/25/2001.
PAVI-23,636	EPO	Method and Apparatus for Preprocessing Input Data to a Neural Network - EPO; (U.S. 21,462, PCT 22,717, Canada 23,637)	94/909493.2	07/12/1995	N/A	N/A	N/A	7 th Renewal Fees due 1/31/2000; Response due 09/01/1999.
PAVI-23,637	CA	Method and Apparatus for Preprocessing Input Data to a Neural Network (U.S. 21,462, PCT 22,717, EPO 23,636)	2,153,783	01/25/1994	N/A	N/A	N/A	7 th Annuity Due 01/25/2000; Request for Examination due 01/25/2001.
PAVI-23,643	EPO	Method and Apparatus for Analyzing a Neural Network (PCT 22,860, Canada 23,644)	94/910822.9	07/11/1995	N/A	N/A	N/A	Response due 08/21/1999; 7 th year renewal due 03/31/2000.
PAVI-23,644	CA	Method and Apparatus for Analyzing a Neural Network (PCT 22,860, EPO 23,643)	2157198	07/11/1995	N/A	N/A	N/A	Maintenance fee for year 6 due 03/02/2000; Request for Exam due 3/2/2001
PAVI-23,687	EPO	Method and Apparatus for Determining the Sensitivity of Inputs to a Neural Network on Output Parameters (Keeler, Hartman and Kadir) (US Case: 21,761, PCT: PAVI-22,965)	0696372	10/26/1995	N/A	N/A	N/A	Renewal due 04/28/2000; Response Due 09/01/1999.

PAVI-23,688	CA	Method and Apparatus for Determining the Sensitivity of Inputs to a neural network, on Output Parameters (Keeler, Hartman & Kadir) (US: PAVI-21,761)	2,161,655	4/28/1994	N/A	N/A	N/A	Main fee for year 6 due 04/28/2000. Request for Examination due 04/28/2001
PAVI-23,713	EPO	Virtual Continuous Monitoring System with Sensor Validation (PCT PAVI-23,175, US: PAVI-21,874)	94 924530.2	07/27/1994	N/A	N/A	N/A	Legal approval due 09/27/1999, Renewal Fee due 07/27/2000.
PAVI-23,714	KR	Virtual Continuous Monitoring System with Sensor Validation (PCT PAVI-23,175, US: PAVI-21,874)	96-700595	07/27/1994	N/A	N/A	N/A	Entered National Phase 02/05/1996, Closed File.
PAVI-23,715	AUS	Virtual Continuous Monitoring System with Sensor Validation (PCT PAVI-23,175, US: PAVI-21,874)	7477694	07/27/1994	677694	08/21/1997	07/27/2014	Annuity due 07/27/2000.
PAVI-23,716	JA	Virtual Continuous Monitoring System with Sensor Validation (PCT PAVI-23,175, US: PAVI-21,874)	07-506,469	07/27/1994	N/A	N/A	N/A	Request for Exam due 07/27/2001
PAVI-23,717	CA	Virtual Continuous Monitoring System with Sensor Validation (PCT PAVI-23,175, US: PAVI-21,874)	2167588	02/05/1996	N/A	N/A	N/A	Annuity for 6th year due 07/27/2000. Request for Examination Due 07/27/2001.
PAVI-23,732	EPO	Virtual Emissions Monitor For Automobile (PCT PAVI-23,176, US File: PAVI-22,571)	94 922772.2	07/24/1994	N/A	N/A	N/A	Entered National Phase; Renewal Fees for Germany, France, Italy, U.K., Netherlands and Sweden due 07/27/2000.
PAVI-23,733	CA	Virtual Emissions Monitor For Automobile (PCT PAVI-23,176, US File PAVI-22,571)	2167927	07/27/1994	N/A	N/A	N/A	Renewal Fee due 07/27/2000, Request for Examination due 07/27/2001.
PAVI-23,735	JA	Virtual Emissions Monitor for Automobile (PCT PAVI-23,176, US File PAVI-22,571)	07-506465	07/24/1994	N/A	N/A	N/A	Request for Exam. due 7/27/2001.
PAVI-23,736	KR	Virtual Emissions Monitor for Automobile (PCT PAVI-23,176, US File PAVI-22,571)	96-700596	07/24/1994	N/A	N/A	N/A	Closed File.
PAVI-23,739	AUS	Virtual Emissions Monitor for Automobile (PCT PAVI-23,176, US File PAVI-22,571)	688353	07/27/1994	07/02/1998	688353	N/A	Annuity due 07/27/2000.
PAVI-23,763	PCT	User Configurable Data Flow Architecture; (US APP PAVI-23,573)	PCT/US96/06833	05/13/1996	N/A	N/A	N/A	Not filing Chapter II - closed file 03/10/1998.
PAVI-24,034	PCT	Method and Apparatus for Modeling Dynamic and Steady-State Processes for Prediction, Control and Optimization (US Case PAVI-23,623) (Martin, Boe, Piche, Keeler, Timmer, Gerules & Havener)	PCT/US97/08473	5/5/1997	N/A	N/A	N/A	Chapter II filed 11/12/1997, Received Examination Report 05/18/1998, National Filings filed 12/01/1998, Closed File

PAVI-24,091	ARG	Method and Apparatus for Modeling Dynamic and Steady-State Processes for Prediction, Control and Optimization (Martin, Boe, Piche, Keeler, Timmer, Gerules & Havener) (US Case PAVI-23,623; Malaysia PAVI-24,092; Indonesia PAVI-24,097)	P970101890	5/7/97	N/A	N/A	N/A	Examination Request due 05/07/2000.
PAVI-24,092	MY	Method and Apparatus for Modeling Dynamic and Steady-State Processes for Prediction, Control and Optimization (Martin, Boe, Piche, Keeler, Timmer, Gerules & Havener) (US Case PAVI-23,623; Argentina PAVI-24,091; Indonesia PAVI-24,097; Venezuela PAVI-24,099)	PI-9702194	5/20/1997	N/A	N/A	N/A	Closed File.
PAVI-24,097	ID	Method and Apparatus for Modeling Dynamic and Steady-State Processes for Prediction, Control and Optimization (Martin, Boe, Piche, Keeler, Timmer, Gerules & Havener) (US Case PAVI-23,623; Argentina PAVI-24,091; Malaysia PAVI-24,092; Venezuela PAVI-24,099)	P-973015	08/28/1997	N/A	N/A	N/A	Closed File.
PAVI-24,099	VZ	Method and Apparatus for Modeling Dynamic and Steady-State Processes for Prediction, Control and Optimization (Martin, Boe, Piche, Keeler, Timmer, Gerules & Havener) (US Case PAVI-23,623; Argentina PAVI-24,091; Malaysia PAVI-24,092)	1099-97	06/10/1997	N/A	N/A	N/A	Closed File.
PAVI-24,484	EPO	Method and Apparatus for Modeling Dynamic and Steady-State Processes for Prediction, Control and Optimization (Martin, Boe, Piche, Keeler, Timmer, Gerules, Havener) (U.S. Case PAVI-23,623; EPO claiming priority from PCT PAVI-24,034)	97 926598.0	11/26/1998	N/A	N/A	N/A	Annuity Due 05/05/2000.
PAVI-24,485	JP	Method and Apparatus for Modeling Dynamic and Steady-State Processes for Prediction, Control and Optimization (Martin, Boe, Piche, Keeler, Timmer, Gerules, Havener) (U.S. Case PAVI-23,623; EPO claiming priority from PCT PAVI-24,034)	09-540275	11/05/1998	N/A	N/A	N/A	Wait for 1 st Office Action; Request for Examination Due 05/05/2005.
PAVI-24,486	KOR	Method and Apparatus for Modeling Dynamic and Steady-State Processes for Prediction, Control and Optimization (Martin, Boe, Piche, Keeler, Timmer, Gerules, Havener) (U.S. Case PAVI-23,623; claiming priority from PCT PAVI-24,034)	1998-708922	11/05/1998	0897560	N/A	N/A	Closed File.

PAVI-24,487	CA	Method and Apparatus for Modeling Dynamic and Steady-State Processes for Prediction, Control and Optimization (Martin, Boe, Piche, Keeler, Timmer, Gerules, Havener) (U.S. Case PAVI-23,623; claiming priority from PCT PAVI-24,034)	2254733	11/05/1998	N/A	N/A	N/A	Maintenance Fee Due 05/05/2000
PAVI-24,488	AU	Method and Apparatus for Modeling Dynamic and Steady-State Processes for Prediction, Control and Optimization (Martin, Boe, Piche, Keeler, Timmer, Gerules, Havener) (U.S. Case PAVI-23,623; claiming priority from PCT PAVI-24,034)	3132197	11/23/1998	N/A	N/A	N/A	1 st Renewal Fee Due 05/05/2002.