RE 103654026,

Form PTO-1594 (Rev. 12-11)

OMB Collection 0651-0027 (exp. 04/30/2

02/04/2013



103654834

U.S. DEPARTMENT OF COMMERCE United States Patent and Trademark Office

TRADEMARKS ONLY

To the Director of the U. S. Patent and Trademark Office: Plea	se record the attached documents or the new address(es) below.
1. Name of conveying party(ies):	2. Name and address of receiving party(ies)
AVL Michigan Holding Corporation	Additional names, addresses, or citizenship attached?
	Name: RBS Citizens, N.A., as Agent
☐ Individual(s) ☐ Association ☐ Partnership ☐ Limited Partnership	Street Address: 27777 Franklin Road
☐ Partnership ☐ Limited Partnership ☐ Corporation- State: Michigan	City: Southfield
Other	State: Michigan
Citizenship (see guidelines)	Country:U.S.A. Zip: 48034
Additional names of conveying parties attached? XYes No	Individual(s) Citizenship Association Citizenship
3. Nature of conveyance/Execution Date(s) :	Partnership Citizenship
Execution Date(s) ^{06/13/2011}	Limited Partnership Citizenship
	Corporation Citizenship
Assignment Merger	Other national parking Citizenship United States If assignee is not domiciled in the United States, a domestic
Security Agreement Change of Name Other Corrective Assignment See Tached	If assignee is not domiciled in the United States, a domestic representative designation is attached: Yes No (Designations must be a separate document from assignment)
C. Identification or Description of Trademark(s) (and Filing	Additional sheet(s) attached? Yes No Date if Application or Registration Number is unknown):
5. Name & address of party to whom correspondence concerning document should be mailed: Name:Nora Hudge, Paralegal	6. Total number of applications and registrations involved:
nternal Address: Dickinson Wright PLLC	7. Total fee (37 CFR 2.6(b)(6) & 3.41) \$\\$175
Street Address: 350 South Main Street, Suite 300	☐ Authorized to be charged to deposit account ☐ Enclosed ##O proviously pd.
City:Ann Arbor	8. Payment Information:
State Michigan Zip 48104	\int_{0}^{∞}
Phone Number: (734) 623-1678	02/04/2013 KNGUYEN1 00000004 1856201
Docket Number:	Deposit Account Number
Email Address: nhudge@dickinsonwright.com	Additionage OSCI Italino
9. Signature: Nota Hudge	2/1/2013
✓ Signatur≱ Nora Hudge, Paralegai	Date
Name of Person Signing	Total number of pages including cover sheet, attachments, and document

Documents to be recorded (Including cover sheet) should be faxed to (571) 273-0140, or malled to: Mail Stop Assignment Recordation Branch, Director of the USPTO, P.O. Box 1450, Alexandria, VA 22313-1450

Corrective Assignment to correct the security interest against DIGALOG, Registration No. 2876480 previously recorded on Reel 004571 Frame 0149. Assignor(s) hereby confirms the security interest was incorrectly filed against this registration.

RECORDATION FORM COVER SHEET TRADEMARKS (Continuation)

Item 1. Name of Conveying Parties:

AVL Powertrain Engineering, Inc.

Michigan corporation

AVL California Technology Center, Inc.

Michigan corporation

AVL Test Systems, Inc.

Delaware corporation

AVL Properties, Inc.

Michigan corporation

AVL TSI Equipment, LLC

Michigan limited liability company

AVL PEI Equipment, LLC

Michigan limited liability company

AVL Strategic Analytic Services, Inc.

Michigan corporation

Item 4. B. Trademark Registration Nos.

1856201

HYPERCELL

1680200

CELLMATE

1787874

DIGALOG

1357859

D

1363062

CELLMATE

1285870

D

1285869

DIGALOG

PATENT AND TRADEMARK SECURITY AGREEMENT

This Patent and Trademark Security Agreement (this "Agreement") is entered into as of June 13, 2011 by and among AVL Michigan Holding Corporation, a Michigan corporation ("Borrower"), AVL Powertrain Engineering, Inc., a Michigan corporation ("AVL Powertrain"), AVL California Technology Center, Inc., a Michigan corporation ("AVL California"), AVL Test Systems, Inc., a Delaware corporation ("AVL Test Systems"), AVL Strategic Analytic Services, Inc., a Michigan corporation ("AVL Strategic"), AVL Properties, Inc. a Michigan corporation ("AVL Properties"), AVL TSI Equipment, LLC, a Michigan limited liability company ("AVL TSI Equipment"), and AVL PEI Equipment, LLC, a Michigan limited liability company ("AVL PEI Equipment") (the Borrower, AVL Powertrain, AVL California, AVL Test Systems, AVL Strategic, AVL Properties, AVL TSI Equipment and AVL PEI Equipment are hereinafter referred to collectively as the "Grantors" and individually as a "Grantor"), in favor of RBS Citizens, N.A., a national banking association ("RBS"), acting as agent hereunder for the Secured Creditors referred to below (RBS acting as such agent and any successor or successors to RBS acting in such capacity being hereinafter referred to as the "Agent"), pursuant to the Credit Agreement referred to below.

Recitals

- A. The Borrower and RBS, as Agent, entered into a Credit Agreement dated as of the date hereof (as amended, supplemented, restated or otherwise modified from time to time, including any agreement entered into in replacement thereof, the "Credit Agreement"), pursuant to which RBS and the other banks, financial institutions and letter of credit issuer(s) from time to time party to the Credit Agreement (RBS, in its individual capacity, and such other banks and financial institutions being hereinafter referred to collectively as the "Lenders" and each is individually a "Lender" and such letter of credit issuer(s) being hereinafter referred to collectively as the "L/C Issuers" and individually as a "L/C Issuer") have agreed, subject to certain terms and conditions, to extend credit and make certain other financial accommodations available to the Borrower (the Agent, the L/C Issuers and the Lenders, together with any Affiliates of the Lenders party to any Hedging Agreements and / or Funds Transfer and Deposit Account Agreements referred to below, being hereinafter referred to collectively as the "Secured Creditors" and individually as a "Secured Creditor").
- B. In connection with the Credit Agreement, the Grantors and the Agent entered into a Security Agreement dated as of the date hereof (as amended, supplemented, restated or otherwise modified from time to time, including any agreement entered into in replacement thereof, the "Security Agreement"), pursuant to which the Grantors have granted to the Agent, for the benefit of the Secured Creditors, a security interest in each Grantor's assets to secure all present and future Secured Obligations.
- C. Pursuant to the terms of the Security Agreement, the Grantors pledged, assigned and granted to the Lender a security interest in, among other assets, all patents and patent applications and all trademarks and trademark applications of each Grantor.

Agreement

In consideration of the recitals set forth above and the mutual agreements contained herein and in the Credit Agreement and the other Loan Documents, the Grantors hereby grant to the Agent, for the benefit of the Secured Creditors, to secure the Secured Obligations, a continuing security interest in all of each Grantor's right, title and interest in, to and under the following, whether now owned by or owing to, or hereafter acquired by or arising in favor of any Grantor (including as identified by any trade name or any derivations thereof):

- (1) each unregistered patent, patent registration and patent application, including, without limitation, each patent and patent application referred to in <u>Schedule 1</u> attached hereto, together with any renewal thereof;
- (2) each patent license to which any Grantor is a party, including, without limitation, each patent license listed on Schedule 1 attached hereto;
- all products and proceeds of the foregoing, including, without limitation, any and all claims by any Grantor against third parties for past, present or future infringement of any patent, including, without limitation, any patent referred to in Schedule 1 attached hereto, any patent issued pursuant to a patent application referred to in Schedule 1 attached hereto and any patent licensed under any patent license listed on Schedule 1 attached hereto (items 1 through 3 being herein collectively referred to as the "Patent Collateral");
- (4) each unregistered trademark, trademark registration and trademark application, including, without limitation, each trademark and trademark application referred to in <u>Schedule 2</u> attached hereto, together with any renewal thereof;
- (5) each trademark license to which any Grantor is a party, including, without limitation, each trademark license listed on <u>Schedule 2</u> attached hereto;
- all products and proceeds of the foregoing, including, without limitation, any and all claims by any Grantor against third parties for past, present or future infringement of any trademark, including, without limitation, any trademark referred to in <u>Schedule 2</u> attached hereto, any trademark issued pursuant to a trademark application referred to in <u>Schedule 2</u> attached hereto and any trademark licensed under any trademark license listed on <u>Schedule 2</u> attached hereto (items 4 through 6 being herein collectively referred to as the "<u>Trademark Collateral</u>");

The security interest granted to the Agent herein is granted in furtherance, and not in limitation of, the security interests granted to the Agent pursuant to the Security Agreement and nothing in this Agreement shall limit or otherwise modify the security interests granted in the Security Agreement. Each Grantor acknowledges and affirms that the rights and remedies of the Agent with respect to the security interest in the Patent Collateral and the Trademark Collateral made and granted hereby are more fully set forth in the Security Agreement, the terms and provisions of which are incorporated herein by reference as if fully set forth herein. In the event of any conflict between the terms of this Agreement and the Security Agreement, the terms of the

Security Agreement shall govern. All capitalized terms used but not defined herein shall have the respective meanings ascribed thereto in the Security Agreement.

[Signature pages follow]

AVI	MICHIGAN HOLDING CORPORATION
	e: Chester S. Ricker : Vice President and Chief Financial Officer
STATE OF MICHIGAN) SS COUNTY OF <u>Aklad</u>)	
The foregoing instrument was acknowled Chester S. Ricker, the Vice President and Chief Corporation, a Michigan corporation, on behalf of	
Susan F. Snyder Notary Public, Oakland County, Michigan Acting in <u>Cakland</u> County, Michigan My Commission Expires on 07-05-2015	Notary Public (SEAL) Printed Name: My Commission Expires:
By: _ Nam	e: Chester S. Ricker Vice President and Chief Financial Officer
STATE OF MICHIGAN) (SS) (COUNTY OF <i>Ourland</i>)	
The foregoing instrument was acknowled Chester S. Ricker, the Vice President and C Engineering, Inc., a Michigan corporation, on beh	
Susan F. Snyder Notary Public, Oakland County, M Acting in <u>Ocaland</u> County, Michigan My Commission Expires on 07-05-2018	1

IN WITNESS WHEREOF, the Grantors have executed this Agreement as of the date first

set forth above.

Signature Page 1 of 5 to Patent and Trademark Security Agreement

	VL CALIFORNIA TECHNOLOGY
C.	ENTER, INC.
В	y:
	ame: Chester S. Ricker
Ti	tle: Vice President and Chief Financial Officer
STATE OF MICHIGAN)	
)SS	
COUNTY OF Calard)	
The foregoing instrument was acknowledge Chester S. Ricker, the Vice President and Chief Center, Inc., a Michigan corporation, on behalf	ledged before me this A day of June, 2011, by f Financial Officer of AVL California Technology of the corporation.
	Acres of Sandy
Commo F. Carrelas	Notary Public
Susan F. Snyder Notary Public, Oakland County, 1	(077.47.)
Acting in Cakina County, Michiga	n Printed Name:
My Commission Expires on 07-05-20	My Commission Expires:
A	vl test systems, inc.
Ву	rme: Chester S. Ricker
	tle: Vice President and Chief Financial Officer
	de. Vice i resident and emer i maneral officer
STATE OF MICHIGAN)	
COUNTY OF CARIED)	
COUNTY OF LOLLETTC)	
The foregoing instrument was acknowled Chester S. Ricker, the Vice President and Chie Delaware corporation, on behalf of the corporation.	edged before me this 134 day of June, 2011, by if Financial Officer of AVL Test Systems, Inc., a ion.
Susan F. Snyder Notary Public, Oakland County : Acting in <u>Outloot</u> County, Michig: My Commission Expires on 07-05-26/5	r miteu rame.

Signature Page 2 of 5 to Patent and Trademark Security Agreement

SI	ERVICES, INC
	ame: Chester S. Ricker tle: Vice President and Chief Financial Officer
STATE OF MICHIGAN) SS COUNTY OF Jallie)	
The foregoing instrument was acknowl Chester S. Ricker, the Vice President and Ch Services, Inc., a Michigan corporation, on beha	ledged before me this day of June, 2011, by ief Financial Officer of AVL Strategic Analytic If of the corporation.
Susan F. Snyder Notary Public, Oakland County Acting in Carried County, Michi My Commission Expires on 07-05-2	gan M. C
By Na	vL PROPERTIES, INC. ime: Chester S. Ricker tle: Secretary and Treasurer
STATE OF MICHIGAN) (SS) (COUNTY OF <u>Caniss</u>)	
The foregoing instrument was acknowl Chester S. Ricker, the Secretary and Treasurer on behalf of the corporation.	edged before me this Bay of June, 2011, by of AVL Properties, Inc., a Michigan corporation, Lisas F. Snejde. Notary Public
Susan F. Snyder Notary Public, Oaldand County, N Acting in <u>CALUL</u> County, Michiga	(SEAL)

AVL STRATEGIC ANALYTIC

Signature Page 3 of 5 to Patent and Trademark Security Agreement

	AVL	rsi equipment, llc
	Ву:	
	Name:	Chester S. Ricker Manager
•		
STATE OF MICHIGAN)		
COUNTY OF Deklard)		
		ed before me this day of June, 2011, by uipment, LLC, a Michigan limited liability
		Justan F. Snejder
_		Notary Public 4
Susan F. Snyder		(SEAL)
Notary Public, Oakland County, Acting in <u>Calify</u> County, Michi	, Mì	Printed Name:
My Commission Expires on 07-05-2	9an 015	My Commission Expires:
	AVL	PEI EQUIPMENT, LLC
	_	
	Ву:	Chester S. Ricker
	i itie:	Manager
STATE OF MICHIGAN)		
COUNTY OF <u>Chiled</u>)		
The foregoing instrument was acknowledged	owledge	ed before me this <u>Bud</u> day of June, 2011, by
Chester S. Ricker, the Manager of AVL company, on behalf of the company.	PEI Eq	uipment, LLC, a Michigan limited liability
		1 7 1
		Just 7 Inexter
B		Notary Public
Susan F. Snyde	<u>የ</u> *******	(SEAL)
Notary Public, Oakland Co Acting in <u>Valley</u> County My Commission Expires on 07	. Michigar	My Commission Expires:

Signature Page 4 of 5 to Patent and Trademark Security Agreement

Acknowledged and Agreed:	
RBS CHTZBNS, NAZ	
By	
Name: Charles Harris	
Title: Vice President - Michigan Corporate Banking	
STATE OF MICHIGAN)	
COUNTY OF <u>L'alland</u>)	
	ged before me this day of June, 2011, by
Charles Harris, the Vice President - Michigan national banking association, on behalf of the association	•
	Susan t. Incide
Susan F. Snyder	Notary Public 🐶
Notary Public, Oakland County, MI	(SEAL)
Acting in Acting County, Michigan	Printed Name:
the Commission Evolves on 07-05-2015	My Commission Expires:

Signature Page 5 of 5 to Patent and Trademark Security Agreement

SCHEDULE 1

PATENT AND TRADEMARK SECURITY AGREEMENT

See attached.

	ISSUED PATENTS	ПЗ		
	PATENT NO.	ISSUE DATE	COMPANY	
Flat Track Chasais Dynamometer	US 7,213,448	05/08/2007	AVI, North America, Inc. and AVI. Zoether GribH	
Particulate Deposit Avoidance and Probe Positioning	US 7,181,671	03/20/2007	AVI. North America, Inc.	·
Active Filter Temperature Control	US 7,141,090	11/28/2006	AVL. North America, Inc.	-
Exhaust Volume Measurement Device	US 7,0656,364	06/06/2006	AVI. North Attention, Inc.	
Affitte Detection Utsing Acoustic Berson	US 7,021,128	04/04/2008	AVI. North America, Inc.	
Exhaust Volume Measurement Device	US 7,000,448	02/21/2008	AVI. North America, Inc.	
Extraust Volume Measurement Device	US 6,973,918	12/13/2006	AVI. North America, Inc.	
Diesel Particulata Filter Monitoring Using Acoustic Senaba	US 8,864,894	11/15/2006	AVI. North Arrestice, Inc.	
Heated Steamers Steam Errainstons Consister	US 6,862,090	11/08/2005	AV. North America, Inc.	
Particulate Sampling Probe and Dudon Tunnel	US 6,857,327	9002/22/20	AVI. North America, Inc.	
Active Putration Cencellation Device for Diesel Particulate Sampling Systems	US 6,623,748	11/30/2004	AVI. North America, Inc.	
Engine Exhaust Emissions Measurement Correction	US 6,823,268	11/23/2004	AVL North America, Inc.	
Perfectizes Sempling Probe and Dilution Tunnel	US 6,742,407	08/01/2004	AVI. North America, Inc.	
Farticists Sempling Probe and Dilution Turnel	US 6,481,299	11/19/2002	AVI. North America, Inc.	
Suspended Shyle Roll Dynamometer	US 5,522,257	06/04/1996	AVL North America, Inc.	خنائست
Internal Combustion Engine with Low Viscosity Fuel System	US 6, 169,517	1002/02/20	AVI. Powertrain Enginearing, Inc.	
Fuel triedlon System for Clean Low Viscosity Fuels	US 6,119,864	08/19/2000	AVI. Powertrein Engineering, Inc.	
Fuel Ayection System for Clean Low Viscosity Fuels	US 6,816,228	10/08/1988	AVI. Powertrein Engineering, Inc.	
Dieses Ahres Engine	107 404 749	200000000		
	747,181,180) CONTRACTOR	SCHICK, I'M.	***************************************
Fusi Delivery Measurement System with Automatic Pump Metating	US 6,708,201	01/13/1988	Plerburg Instruments, Inc./AV	

AVL North America, Inc.	AVI. North America, Inc.	AVI. North America, Inc.
EP 1249685	JP 3737778	EP 1333270
Active Pulsation Cencelation Device for Diesel Particulate Sampling Systems	Active Putertion Conceitation Device for Diesel Perforéete Sampling Systems	Engine Exhaust Emissions Modeurement Correction

		PATENT APPLICATIONS		
DESCRIPTION	PUBLICATION NO.	APPLICATION NO.	DATEFILED	COMPANY
Exhaust Volume Messurement Device	20060225462	11/447480	06/06/2008	AVI. North America, Inc.
Perfectable Sempler System Flow Cellbration	20060216826	11/386911	037272008	AVI. North America, Inc.
Particulate Sampler and Dilution Gas Flow Device Arrangement for an Exheust Sampling System		11/546048	The state of the s	AVI. North America, Inc.
CV8 System Sample Wizter Vepor Managament		60/645271		AVI. North America, Inc.
Classel Abcrest Engine		11/887325		Schrick, Inc.
Transmitration Handstock for Test Stands		11/486604		AVI. North America, Inc.
	Docket Number			
Dissal Arcted Engage	67023-507 PAT	-		Schrick Inc.
Direct Aircraft Engine	67023-307 PCA			School In
Diesel Aircraft Engine	67023-307 PCN			Schick Inc.
Diesel Aircraft Engine	67023-307 POE			Schrick, Inc.
Diesel Aircraft Engine	67023-307 PGB			Schrick, Inc.
Olesel Aircraft Engine		,		Schrick, Inc.
At Turbine Orlven EGR Purto for Direct Engines		127785,071	05/21/2010	AV. Povertrain
Hybrid Powerplant with		PCTA IS10/20078	08413/2010	AM Description
Weste Herd Recovery System				Engineering, Inc.
Ejector Type EGR Marer		PCTAJ82010/020732	01/12/2010	AVI. Powertrain
Skiding Vene Rotary		PCT41S2010M20738	0102/27/10	AV Brenden
Expander for Weater Heat Recovery System				Enginearing, Inc.
Exhaust Power Turbine		12/785085	06/24/2010	AVI. Powertrain
Olesel Engines				Engineering, Inc.
Perforcate Massumment System	67023-046 PCT	10/44633	08/08/2010	AVI. North America, thc.
	7			

SCHEDULE 2 to PATENT AND TRADEMARK SECURITY AGREEMENT

See attached.

DETROIT 37390-34 1206767v3

	FEDERALLY REGI	FEDERALLY REGISTERED TRADEMARKS	
MARK	REG. NO.	COMPANY	
BENCHMARK SERIES	3031039	DIGALOG, AN AVL COMPANY	
DIGALOG	2878480	DIGALOG, AN AVI. COMPANY	
HYPERCELL	1656201	DIGALOG, AN AVI. COMPANY	
CELIMATE	1690200	DIGALDG, AN AVI. COMPANY	
DIGALOG	1787874	DIGALOG, AN AV. COMPANY	
0	1357859	DROALOG, AN AVI. COMPANY	
CELLMATE	1363062	DIGALOG, AN AVI. COMPANY	
0	1285870	DIGALOG, AN AVI. COMPANY	
DIGALOG	1265869	DIGALOG, AN AVI. COMPANY	



United States Patent And Trademark Office

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

January 30, 2013

PTAS

NORA HUDGE, PARALEGAL DICKINSON WRIGHT PLLC 350 SOUTH MAIN STREET, SUITE 300 ANN ARBOR, MICHIGAN 48104

103654026

United States Patent and Trademark Office Notice of Non-Recordation of an Assignment Document

The enclosed document has been examined and found non-recordable by the Assignment Recordation Branch of the U.S. Patent and Trademark Office. The reason(s) for non-recordation are stated below:

The previously recorded cover sheet is required. Also, this
corrective is incorrect it has to be recorded as it was before, but
removing the incorrect registration number. Please contact Tonya Lee
at 703-756-1257 before resubmitting this document.

Documents being resubmitted for recordation must reflect the corrected information to be recorded, the Document ID number referenced above and all pages from this submitted document. The original date of filing of this assignment document will be maintained if resubmitted with the appropriate correction(s) within 30 days from the date of this notice as outlined under 37 CFR 3.51. The resubmitted document must include a stamp with the official date of receipt under 37 CFR 3. Applicants may use the certified procedures under 37 CFR 1.8 or 1.10 for resubmission of the returned papers if they desire to have the benefit of the date of deposit in the United States Postal Service.

Send documents to: U.S. Patent and Trademark Office, Mail Stop: Assignment Recordation Branch, P.O. BOX 1450, Alexandria, VA 22313. If you have any questions regarding this notice, you may contact the Assignment Recordation Branch at 571-272-3350.

TONYA LEE ASSIGNMENT RECORDATION BRANCH PUBLIC RECORDS DIVISION

P.O. Box 1450, Alexandria, Virginia 22313-1450 - WWW.USPTO.GOV

TRADEMARK REEL: 004966 FRAME: 0587

RECORDED: 01/11/2013