TRADEMARK ASSIGNMENT COVER SHEET

ETAS ID: TM314158

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

NATURE OF CONVEYANCE: SECURITY INTEREST

CONVEYING PARTY DATA

Name	Formerly	Execution Date	Entity Type
AVL Michigan Holding Corporation		06/20/2014	CORPORATION: MICHIGAN
AVL Powertrain Engineering, Inc.		06/20/2014	CORPORATION: MICHIGAN
AVL Test Systems, Inc.		06/20/2014	CORPORATION: DELAWARE
AVL California Technology Center, Inc.		06/20/2014	CORPORATION: MICHIGAN
AVL Strategic Analytic Services, Inc.		06/20/2014	CORPORATION: MICHIGAN
AVL Properties, Inc.		06/20/2014	CORPORATION: MICHIGAN
AVL TSI Equipment, LLC		06/20/2014	LIMITED LIABILITY COMPANY: MICHIGAN
AVL PEI Equipment, LLC		06/20/2014	LIMITED LIABILITY COMPANY: MICHIGAN

RECEIVING PARTY DATA

Name:	RBS Citizens, N.A., as agent
Street Address:	27777 Franklin Road
City:	Southfield
State/Country:	MICHIGAN
Postal Code:	48034
Entity Type:	national banking association: UNITED STATES

PROPERTY NUMBERS Total: 9

Property Type	Number	Word Mark
Registration Number:	3031039	BENCHMARK SERIES
Registration Number:	1856201	HYPERCELL
Registration Number:	1680200	CELLMATE
Registration Number:	1787874	DIGALOG
Registration Number:	1357859	D
Registration Number:	1363062	CELLMATE
Registration Number:	1285870	D
Registration Number:	1285869	DIGALOG
Registration Number:	4189571	SCENARIA TRADEMARK

900298490 REEL: 005344 FRAME: 0807

CORRESPONDENCE DATA

Fax Number: 2026591559

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 202-659-6962

Email: kbazil@dickinsonwright.com

Correspondent Name: Kathy Bazil, Paralegal Address Line 1: 1875 Eye Street NW

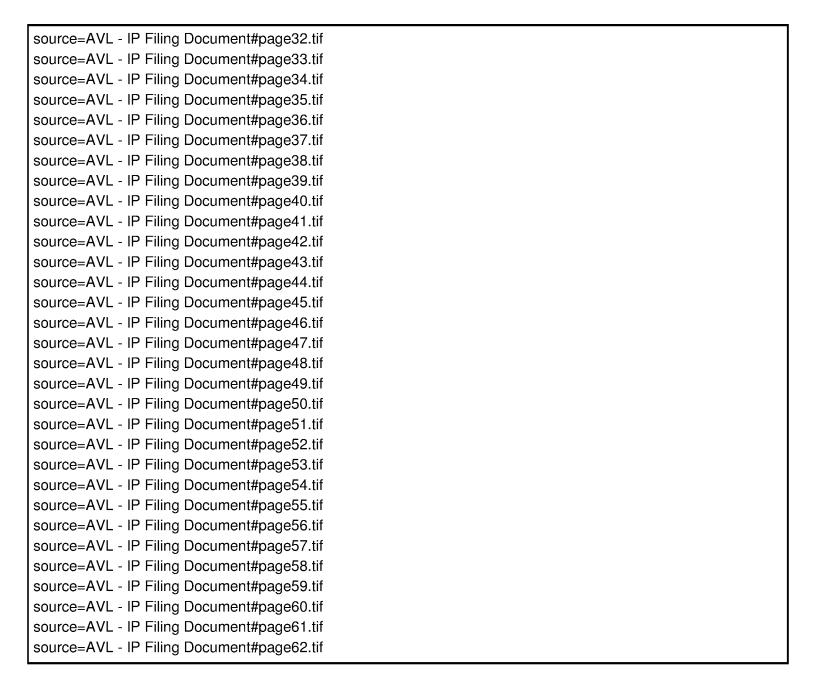
Address Line 2: Suite 1200

Address Line 4: Washington, D.C. 20006

ATTORNEY DOCKET NUMBER:	37390-34
NAME OF SUBMITTER:	Kathy Bazil, Paralegal
SIGNATURE:	/Kathy Bazil/
DATE SIGNED:	08/15/2014

Total Attachments: 62

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REAFFIRMATION OF COLLATERAL DOCUMENTS

June 20, 2014

In connection with that certain Credit Agreement dated as of June 13, 2011 (as amended or modified from time to time, the "Prior Credit Agreement") by and among AVL Michigan Holding Corporation, a Michigan corporation (the "Borrower"), RBS Citizens, N.A., a national banking association ("RBS"), as agent for the Lenders (in such capacity, the "Agent"), and the lenders party thereto from time to time (the "Lenders"), the Borrower and certain of the Borrower's Subsidiaries have made the following documents (collectively, the "Collateral Documents") in favor of the Agent:

- 1. Security Agreement dated as of June 13, 2011 (the "Security Agreement") by and among the Borrower, AVL Powertrain Engineering, Inc., a Michigan corporation ("AVL Powertrain"), AVL Test Systems, Inc., a Delaware corporation ("AVL Test Systems"), AVL California Technology Center, Inc., a Michigan corporation ("AVL California"), 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"), AVL PEI Equipment, LLC, a Michigan limited liability company ("AVL PEI Equipment"), and together with the Borrower, AVL Powertrain, AVL Test Systems, AVL California, AVL Strategic, AVL Properties, AVL TSI Equipment, and AVL PEI Equipment, collectively, the "Loan Parties"), and the Agent;
- 2. Patent and Trademark Security Agreement dated as of June 13, 2011, as amended by a First Amendment to Patent and Trademark Security Agreement dated as of December 12, 2012 (the "Patent and Trademark Security Agreement") by and among the Loan Parties and the Agent;
- 3. Mortgage dated as of June 13, 2011 and recorded on June 22, 2011 at Liber 49239, Page 595 of the Wayne County, Michigan Register of Deeds (the "*Plymouth Mortgage*") made by AVL Properties in favor of the Agent; and
- 4. Mortgage dated as of June 13, 2011 and recorded on June 23, 2011 at Liber 4853, Page 403 of the Washtenaw County, Michigan Register of Deeds (the "Ann Arbor Mortgage") made by AVL Properties in favor of the Agent.

In order to induce the Agent and the Lenders to amend and restate the Prior Credit Agreement pursuant to that certain Amended and Restated Credit Agreement dated as of the date hereof by and among the Borrower, the Agent, and the Lenders (as amended or modified from time to time, including any agreement entered into in replacement thereof, the "Amended and Restated Credit Agreement"), and for other good and valuable consideration, the adequacy and receipt of which hereby is acknowledged, each Loan Party acknowledges and agrees, for the benefit of the Agent and the Lenders, as follows:

1. Each Collateral Document remains in full force and effect, is ratified and confirmed by the applicable Loan Parties, and secures, without limitation, (a) any and all indebtedness, obligations, and liabilities of the Loan Parties, and of any of them individually, to the Secured Creditors (as defined below), and to any of them individually, under or in connection with or evidenced by the Amended and Restated Credit Agreement or any other Loan Documents, including, without limitation, all obligations evidenced by the Notes of the Borrower heretofore or hereafter issued under the Amended and Restated Credit Agreement, all obligations of the Borrower to reimburse the Secured Creditors for the amount of all drawings on all Letters of Credit issued pursuant to the Amended and Restated Credit Agreement and all other obligations of the Borrower under all applications for Letters of Credit, all obligations of the Loan Parties, and of any of them individually, with respect to any Hedging Liability, all obligations of the Loan Parties, and of any of them individually, with respect to any Funds Transfer and Deposit Account Liability, and all obligations of the Loan Parties, and of any of them individually, arising under any guaranty

issued by it relating to the foregoing or any part thereof, in each case whether now existing or hereafter arising (and whether arising before or after the filing of a petition in bankruptcy and including all interest accrued after the petition date), due or to become due, direct or indirect, absolute or contingent, and howsoever evidenced, held or acquired and (b) any and all expenses and charges, legal or otherwise, suffered or incurred by the Secured Creditors, and any of them individually, in collecting or enforcing any of such indebtedness, obligations, and liabilities or in realizing on or protecting or preserving any security therefor, including, without limitation, the liens and security interests granted under the Collateral Documents. Notwithstanding anything to the contrary in any of the Collateral Documents, solely with respect to any Loan Party in its capacity as a Guarantor, Hedging Liabilities secured by the grant of a security interest by such Loan Party shall excluded Swap Obligations (as defined below) of such Loan Party.

- 2. Each and every reference in the Collateral Documents to the Prior Credit Agreement shall be deemed to mean the Amended and Restated Credit Agreement.
- 3. No Loan Party currently has, and will not in the future have, any material equipment or inventory at the office, located in the building commonly known as 10 East Doty Street, Madison, Wisconsin, that is leased by AVL Powertrain from Urban Land Executive Suites, LLC.
- 4. Each and every reference in the Plymouth Mortgage and the Ann Arbor Mortgage to the Guaranty shall be deemed to mean the Amended and Restated Subsidiary Guaranty Agreement dated as of the date hereof.
- 5. Each of Schedules A through F to the Security Agreement are replaced and restated in their entirety by the applicable Schedules set forth in **Exhibit A** attached hereto.
- 6. Each of Schedules 1 and 2 to the Patent and Trademark Security Agreement are replaced and restated in their entirety by the applicable Schedules set forth in **Exhibit B** attached hereto.
- 7. No Loan Party has any setoff, defense or counterclaim with respect to its obligations under the Collateral Documents.
- 8. All capitalized terms used herein without definition shall have the same meanings herein as such terms have in the Amended and Restated Credit Agreement. As used herein:
 - (a) "Commodity Exchange Act" means the Commodity Exchange Act (7 U.S.C. § 1 et seq.), as amended from time to time, and any successor statute.
 - (b) "Excluded Swap Obligation" means, with respect to any Loan Party, any Swap Obligation if, and to the extent that, all or a portion of the guarantee under the Guaranty of such Loan Party of, or the grant by such Loan Party of a security interest to secure, such Swap Obligation (or such guarantee thereof) is or becomes illegal under the Commodity Exchange Act or any rule, regulation or order of the Commodity Futures Trading Commission (or the application or official interpretation of any thereof) by virtue of such Loan Party's failure for any reason to constitute an "eligible contract participant" as defined in the Commodity Exchange Act and the regulations thereunder at the time such Guaranty or the grant of such security interest becomes effective with respect to such Swap Obligation. If a Swap Obligation arises under a master agreement governing more than one swap, such exclusion shall apply only to the portion of such Swap

Obligation that is attributable to swaps for which such guarantee or security interest is or becomes illegal.

- (c) "Secured Creditors" means the Agent, the L/C Issuers, and the Lenders, together with any Affiliates of the Lenders party to (i) one or more agreements with respect to, among other things, interest rate, foreign currency and/or commodity exchange, swap, cap, collar, floor, forward, option or other similar agreements for the purpose of hedging or otherwise protecting against interest rate, foreign currency and/or commodity exposure, and/or (ii) one or more agreements with respect to the execution or processing of electronic transfer of funds by automatic clearing house transfer, wire transfer or otherwise to or from any deposit account of the Borrower or any of its Affiliates now or hereafter maintained with any of the Secured Creditors, the acceptance for deposit or the honoring for payment of any check, draft or other item with respect to any such deposit accounts, and other deposit, disbursement, and cash management services afforded to the Borrower or any of its Affiliates by any of the Secured Creditors.
- (d) "Swap Obligation" means, with respect to a Loan Party, any obligation to pay or perform under any agreement, contract or transaction that constitutes a "swap" within the meaning of section 1a(47) of the Commodity Exchange Act.

[Signature Pages Follow]

IN WITNESS WHEREOF, the Loan Parties have caused this Reaffirmation of Collateral Documents to be executed and delivered as of the date first above written.

AVL MICHIGAN HOLDING CORPORATION, A MICHIGAN CORPORATION By Name: Chester S. Ricker Title: Executive Vice President and Chief **Financial Officer** AVL POWERTRAINÆNGINEERING, INC., A MICHIGAN CORPORATION By Name: Chester S. Ricker Title: Vice President and Chief Financial Officer AVL TEST SYSTEMS, INC., A DELAWARE CORPORATION By. Name: Chester S. Ricker Vice President and Chief Financial Title: Officer AVL CALIFORNIA TECHNOLOGY CENTER, INC., A MICHIGAN CORPORATION By Name: Chester S. Ricker Title: Vice President and Chief Financial Officer AVL STRATEGIC ANALYTIC SERVICES, INC., A MICHIGAN CORPORATION By Name: Chester S. Ricker Title: Vice President and Chief Financial

Officer

Signature Page
Reaffirmation of Collateral Documents

ΔV	JI PROI	PERTIES, INC., A MICHIGAN
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CO	KLOKAII	
Ву	*	
	Name:	Chester S. Ricker
	Title:	Vice President and Chief Financial
		Officer
AV LIM By	TITED LIA	QUIPMENT, LLC, A MICHIGAN BILITY COMPANY
	Name:	Chester S. Ricker
	Title:	Manager
	ITED LJA	QUIPMENT, LLC, A MICHIGAN BILITY COMPANY
	Name:	Chester S. Ricker

Name: Title:

Manager

Accepted and agreed:

RBS CITIZENS, N.A

Signature Page Reaffirmation of Collateral Documents

EXHIBIT A- UPDATED SECURITY AGREEMENT SCHEDULES

Schedule A- Locations (see attached)

Schedule B- Other Names (see attached)

Schedule C- Intellectual Property Rights (see attached)

Schedule D- Real Estate Legal Descriptions (see attached)

Schedule E- Investment Property and Deposits (see attached)

Schedule F- Commercial Tort Claims (see attached)

{28053/59/DT862169.DOC;1}

SCHEDULE A

LOCATIONS

Name of Debtor (and State of Organization and Organizational Registration Number)	Chief Executive Office (and Name of Record Owner of such Location)	Additional Places of Business and Collateral Locations (and Name of Record Owner of such Locations)
AVL Michigan Holding Corporation, a Michigan corporation CID-530-823 AVL Test Systems, Inc., a Delaware corporation File No. 0579506	47603 Halyard Drive Plymouth, MI 48170 Owner/Lessor: Metalply, (MI) LLC 47603 Halyard Drive Plymouth, MI 48170 Owner/Lessor: Metalply, (MI)	2285 Franklin Road West Bloomfield, MI 48302 Owner: Ambrose Properties,
CID-631-227 AVL Properties, Inc., a Michigan corporation CID-582-036	47603 Halyard Drive Plymouth, MI 48170 Owner/Lessor: Metalply, (MI) LLC	LLC, a Michigan limited liability company 47519 Halyard Drive Plymouth, MI 48170 1801 Ellsworth Road Ann Arbor, MI 48106
AVL Powertrain Engineering, Inc., a Michigan corporation CID-450-788	47519 Halyard Drive Plymouth, MI 48170 Owner: AVL Properties, Inc.	1801 Ellsworth Road Ann Arbor, MI 48106 Owner: AVL Properties, Inc. 46097 Commerce Center Dr. Plymouth Twp., MI 48170 Owner: Plymouth Technology Park, LLC, a Michigan limited liability company 25111 Arctic Ocean Blvd. Lake Forest, CA 92630 Owner: Whittle Investors – State College LP, a California limited partnership
AVL PEI Equipment, LLC, a Michigan limited liability company State ID No. D40616	47603 Halyard Drive Plymouth, MI 48170 Owner/Lessor: Metalply, (MI) LLC	Additional Collateral Location: 47519 Halyard Drive Plymouth, MI 48170 Owner: AVL Properties, Inc.

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Location: 1801 E. Ellsworth Rd. Ann Arbor, MI 48108 Owner: AVL Properties, Inc. Additional Collateral Location: 25111 Arctic Ocean Blvd. Lake Forest, CA 92630 Owner: Whittle Investors — State College LP, a California limited partnership Additional Collateral Location: 701 White Avenue Beloit, WI Owner: Fairbanks Morse Engine Additional Collateral Location: 46097 Commerce Center Dr. Plymouth Twp., MI 48170 Owner: Plymouth Technology Park, LLC, a Michigan limited liability company State ID No. D41470 AVL TSI Equipment, LLC a Michigan limited Miability company State ID No. D41470 AVL TSI Equipment, LLC a Michigan limited liability company Additional Collateral Location: Additional Collateral			Additional Collateral
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AVL TSI Equipment, LLC a Michigan limited liability company State ID No. D41470 Additional Collateral Location: 46097 Commerce Center Dr. Plymouth Twp., MI 48170 Owner: Plymouth Technology Park, LLC, a Michigan limited liability company Additional Collateral Location: 2285 Franklin Road West Bloomfield, MI 48302 Owner: Ambrose Properties, LLC, a Michigan limited liability company			Park, LLC, a Michigan limited
a Michigan limited liability company State ID No. D41470 Plymouth, MI 48170 Owner/Lessor: Metalply, (MI) LLC Plymouth Twp., MI 48170 Owner: Plymouth Technology Park, LLC, a Michigan limited liability company Additional Collateral Location: 2285 Franklin Road West Bloomfield, MI 48302 Owner: Ambrose Properties, LLC, a Michigan limited liability company			liability company
a Michigan limited liability company State ID No. D41470 Plymouth, MI 48170 Owner/Lessor: Metalply, (MI) LLC Plymouth Twp., MI 48170 Owner: Plymouth Technology Park, LLC, a Michigan limited liability company Additional Collateral Location: 2285 Franklin Road West Bloomfield, MI 48302 Owner: Ambrose Properties, LLC, a Michigan limited liability company	AVL TSI Equipment, LLC	47603 Halyard Drive	Additional Collateral
Owner/Lessor: Metalply, (MI) State ID No. D41470 LLC Owner: Plymouth Twp., MI 48170 Owner: Plymouth Technology Park, LLC, a Michigan limited liability company Additional Collateral Location: 2285 Franklin Road West Bloomfield, MI 48302 Owner: Ambrose Properties, LLC, a Michigan limited liability company		Plymouth, MI 48170	Location:
State ID No. D41470 LLC Plymouth Twp., MI 48170 Owner: Plymouth Technology Park, LLC, a Michigan limited liability company Additional Collateral Location: 2285 Franklin Road West Bloomfield, MI 48302 Owner: Ambrose Properties, LLC, a Michigan limited liability company		Owner/Lessor: Metalply, (MI)	46097 Commerce Center Dr.
Park, LLC, a Michigan limited liability company Additional Collateral Location: 2285 Franklin Road West Bloomfield, MI 48302 Owner: Ambrose Properties, LLC, a Michigan limited liability company		LLC	Plymouth Twp., MI 48170
liability company Additional Collateral Location: 2285 Franklin Road West Bloomfield, MI 48302 Owner: Ambrose Properties, LLC, a Michigan limited liability company			Owner: Plymouth Technology
Additional Collateral Location: 2285 Franklin Road West Bloomfield, MI 48302 Owner: Ambrose Properties, LLC, a Michigan limited liability company		Response to the state of the st	Park, LLC, a Michigan limited
Location: 2285 Franklin Road West Bloomfield, MI 48302 Owner: Ambrose Properties, LLC, a Michigan limited liability company			liability company
Location: 2285 Franklin Road West Bloomfield, MI 48302 Owner: Ambrose Properties, LLC, a Michigan limited liability company			Additional Collateral
2285 Franklin Road West Bloomfield, MI 48302 Owner: Ambrose Properties, LLC, a Michigan limited liability company			1
West Bloomfield, MI 48302 Owner: Ambrose Properties, LLC, a Michigan limited liability company			I I
Owner: Ambrose Properties, LLC, a Michigan limited liability company			1
LLC, a Michigan limited liability company			1
liability company			
			- ,
A VI, CARROTTE I CONTRICTO FACILITATIVA CONTROL SANTA ACCIONAL CINE CONTROL CO	AVL California Technology	47603 Halyard Drive	25111 Arctic Ocean Blvd.
Center, Inc., a Michigan Plymouth, MI 48170 Lake Forest, CA 92630		•	1
corporation Owner/Lessor: Metalply, (MI) Owner: Whittle Investors –			1

State ID No. 09935C	LLC	State College LP, a California
		limited partnership
AVL Strategic Analytic	47603 Halyard Drive	
Services Inc., a Michigan	Plymouth, MI 48170	
corporation	Owner/Lessor: Metalply, (MI)	
State ID No. 03169R	LLC	

SCHEDULE B

OTHER NAMES

A. Prior Legal Names

AVL Michigan Holding Corporation AVL Americas, Inc.

AVL Test Systems, Inc. AVL Instrumentation & Test Systems, Inc.

AVL North America, Inc.

AVL California Technology Center, Inc. AVL Services & Consulting, Inc.

Schrick, LLC Schrick, Inc.

B. Trade Names

AVL Test Systems, Inc. also transacted business as: AVLNA

AVL Instrumentation & Test Systems, Inc.

Digalog Corp.

Pierburg Instruments, Inc. Peus-Systems, Inc. AVL North America, Inc.

AVL Powertrain Engineering, Inc.

also transacted business as:

Schrick, Inc. AVL PEI

AVL Powertrain Technologies, Inc. AVL California Technology AVL California Technical

AVL Michigan Holding Corporation

also transacted business as:

AVL Americas, Inc.

AVL Strategic Analytic Services, Inc.

also transacted business as:

Scenaria, Inc. Scenaria

SCHEDULE C

INTELLECTUAL PROPERTY RIGHTS

COPYRIGHTS

The Debtors have not registered any of their copyrightable works.

PATENTS

See attached Exhibit C-1

TRADEMARKS

See attached Exhibit C-2

{28053/59/DT861805.DOC;1}

Exhibit C-1 ISSUED PATENTS

AVL Test Systems, Inc.	11/19/2013 /	US 8,584,530	Wind Turbine Gearbox Testing System
AVL North America, Inc.	12/17/2013	US 8,607,548	SCR Ammonia Slip Detection
	Ļ	US 5,522,257	Suspended Single Roll Dynamometer
	3	GP 6020040440027	Exhaust Gas Sampling System
	5/23/2012 A		Particulate Deposit Avoidance And Probe Positioning
AVL North America Inc.	Ļ	US 8,739,531	Hybrid Power Plant With Waste Heat Recovery System
AVL North America Inc.	Ľ	US 8,186,206	Installations
			Polymer Base For Hybrid Powertrain & NVH Test
AVL North America Inc.	5/22/2012 A	US 8,181,543	CVS System Sample Water Vapor Management
AVL North America Inc.	11/3/2009 A	US 7,610,819	Transmission Headstock For Test Stands
AVL North America Inc.	10/27/2009 A	US 7,607,335	Particulate Sampler System Flow Calibration
AVL North America Inc.	8/11/2009 A	US 7,574,307	Engine Exhaust Emissions Measurement Correction
	Ļ	US 7,565,846	Arrangement For An Exhaust Sampling System
			Particulate Sampler And Dilution Gas Flow Device
AVL North America Inc.	5/8/2007 A	US 7,213,449	Flat Track Chassis Dynamometer
1 -	3/20/2007 A	US 7,191,671	Particulate Deposit Avoidance And Probe Positioning
	11/28/2006 A	US 7,141,090	Active Filter Temperature Control
	6/6/2006 A	US 7,055,364	Exhaust Volume Measurement Device
	2/21/2006 A	US 7,000,449	Exhaust Volume Measurement Device
AVL North America Inc.	12/13/2005 A	US 6,973,818	Exhaust Volume Measurement Device
AVL North America Inc.	11/15/2005 A	US 6,964,694	Sensing
			Diesel Particulate Filter Monitoring Using Acoustic
AVL North America Inc.	11/8/2005 A	US 6,962,090	Heated Stainless Steel Emissions Canister
	2/22/2005 A	US 6,857,327	Particulate Sampling Probe And Dilution Tunnel
AVL North America Inc.		US 6,823,748	Particulate Sampling Systems
			Active Pulsation Cancellation Device For Diesel
AVL North America Inc.	11/23/2004 A	US 6,823,268	Engine Exhaust Emissions Measurement Correction
AVL North America Inc.	6/1/2004 A	US 6,742,407	Particulate Sampling Probe And Dilution Tunnel
AVL North America Inc.	11/19/2002 A	US 6,481,299	Particulate Sampling Probe And Dilution Tunnel
AVL North America Inc.	11/4/2005 A	JP 3737776	Particulate Sampling Systems
•			Active Pulsation Cancellation Device For Diesel
AVL North America Inc.	12/11/2013 A	EP 2492662	Exhaust Gas Sampling System
AVL North America Inc.	8/3/2005 A	EP 1333270	Exhaust Emissions Analysis System
AVL North America Inc.	3/1/2006 A	EP 1249695	Particulate Sampling Systems
			Active Pulsation Cancellation Device For Diesel
Company	Issue Date Co	Patent Number	

Exhibit C-1 ISSUED PATENTS

			The second secon
	Patent Number	Issue Date Company	Company
Exhaust Power Turbine Driven EGR Pump For Diesel			
	US 8,584,458	11/19/2013	AVL Powertrain Engineering, Inc.
ine Driven EGR Pump For Diesel Engines	US 8,726,657	5/20/2014	AVL Powertrain Engineering, Inc.
Fuel Delivery Measurement System with Automatic			Pierberg Instruments - AVL North
	US 5,708,201	1/13/1998	America, Inc.
Diesel Aircraft Engine	EP 1864008	3/14/2012	Schrick LLC
	CP 2598106	6/11/2013	Schrick, Inc.
Diesel Aircraft Engine	US 7,191,742	3/20/2007	Schrick, Inc.
Misfire Detection Using Acoustic Sensors	Inactive US 7,021,128	4/4/2006	AVL North America, Inc.
Internal Combusion Engine with Low Viscosity Fuel			
System	Inactive US 6,189,517	2/20/2001	AVL Powertrain Engineering, Inc.
Fuel Injection System for Clean Low Viscosity Fuels	Inactive US 6,119,664	9/19/2000	AVL Powertrain Engineering, Inc.
Fuel Injection System for Clean Low Viscosity Fuels	Inactive US 5,816,228	10/6/1998	AVL Powertrain Engineering, Inc.

Exhibit C-1 PATENT APPLICATIONS

	PubNumber	AppNumber	Date Filed	Company
Sliding Vane Rotary Expander For Waste Heat		011 10000	770011	AVI North America Inc.
		13/653530	10/16/2012	AVL North America Inc.
Battery Cooling Plate And Cooling System	0000410-0107	4143DELNP2012 India	5/10/2012	AVL North America Inc.
r Management	2012-0210803	13/463226	5/3/2012	AVL North America Inc.
		13/509043	5/10/2012	AVL North America Inc.
		2010800569421 China	6/15/2012	AVL North America Inc.
		108557117 Europe	5/2/2012	AVL North America Inc.
Exhaust Sampling System And Method For Water				
	2012-0317757	13/478170	5/23/2012	AVL North America Inc.
		13/143561	7/7/2011	AVL North America Inc.
Batton Cooling Plate And Cooling System		121888903 Europe	10/17/2012	AVL North America Inc.
	926	2012232002 Japan	10/19/2012	AVL North America Inc.
	12	201210543855X China	10/19/2012	AVL North America Inc.
Transmission Including Dog Clutch Arrangement And		61/817486	4/30/2013	AVL North America, Inc.
Exhaust Sampling System And Method For Water Vanor Management				
		1020 13005/094 Noted	JILLICOLO	A P 1 2 C C C C C C C C C C C C C C C C C C
Exhaust Sampling System And Method For Water				
Vapor Management		1798MUM2013 India	5/21/2013	AVL North America, Inc.
Exhaust Sampling System And Method For Water Vanor Management	2013246169	2013108467 Japan	5/23/2013	AVL North America, Inc.
Exhaust Sampling System And Method For Water				
Vapor Management	2667175	131686040 Europe	5/21/2013	AVL North America, Inc.
Exhaust Sampling System And Method For Water				
Vapor Management	CN103424286	2013101942570 China	5/23/2013	
Deconvolution Method For Emissions Measurement	2691901	127646255 Europe	9/27/2013	AVL Test System Inc.
High Power Battery Cells Having Improved Cooling	WO2014/036227	PCT/US2013/057236	8/29/2013	AVL lest systems inc.
Exhaust Sampling System And Method For Synchronizing Time Alignment And Dilation	WO2013/188346	PCT/US2013/045094	6/11/2013	AVL Test Systems Inc.
Emissions Measurement Equipment And Method	WO2014/008040	PCT/US2013/047578	6/25/2013	AVL lest systems inc.

Exhibit C-1 PATENT APPLICATIONS

Schrick, Inc.	12/7/2005	PI05198364 Brazil		Diesel Aircraft Engine
	111 1012010	14/08/688	2014-00/5936	Engines
AVI Powertrain Engineering Inc.	44/48/2013			Exhaust Power Turbine Driven EGR Pump For Diesel
AVL Powertrain Engineering, Inc.	4/29/2014	14/264164		Air Turking Driven EGR Plump For Diesel Engines
AVL Powertrain Engineering, Inc.	4/29/2014	14/264521		Transmission Including Dog Clutch Arrangement And
AVL Powertrain Engineering,	4/16/2014	61/980233		Transmission Sump Screen
AVL Powertrain Engineering, Inc	3/24/2014	61/969323		System And Method For Aerating Lubricant In An Internal Combustion Engine
AVL Powertrain Engineering, Inc.	4/16/2014	61/980222		Oil Sump Having Temperature-Controlled Jalousie Divider
AVL Powertrain Engineering, inc	12/13/2013	61/915695		Manual Transmission With Torque Converter
	4/18/2014	61/981260		Natural Gas Quality Sensor And Method For Using The Same
AVL Powertrain Engineering, Inc	12/31/2013	61/922214		Automatic Transmission Having A Continuously Variable Transmission Assembly
AVL Powertrain Engineering, Inc	12/5/2013	61/912174		Fuel Injection System And Method Combining Port Fuel Injection With Direct Fuel Injection
AVL Powertrain Engineering, Inc	11/19/2013	61/905906		Altitude Fuel Limiter For Engine And Method Of Using The Same
AVL Powertrain Engineering, Inc.	12/5/2013	61/912163		Two-Speed Transmission For Electric Vehicle
AVL Powertrain Engineering, Inc	4/18/2014	61/981251		Engine Turbo-Compounding Apparatus And Method
AVE Test Oystems, mo.	102/0/01	111842118 Europe	2439386	SCR Ammonia Slip Detection
AVL lest Systems, inc.	9/24/2013	14/007111	2014-0019077	Deconvolution Method For Emissions Measurement
AVL Test Systems, Inc.	5/28/2013		WO2013/181145	Intelligent Bag Filling For Exhaust Sampling System
AVL Test Systems, Inc.	9/26/2013	2831593 Canada		Deconvolution Method For Emissions Measurement
AVL Test Systems, Inc.	10/24/2013	2012800200736 China		Deconvolution Method For Emissions Measurement
AVL Test Systems, Inc.	9/27/2013	2014502616 Japan		Deconvolution Method For Emissions Measurement
Company	Data L Han	Appronue	PubNumber	

	EX FEDERALLY REGI	Exhibit C-2 FEDERALLY REGISTERED TRADEMARKS
MARK	HEG. NO.	COMPANY
BENCHMARK SERIES	3031039	AVL Test Systems, Inc.
HYPERCELL	1856201	AVL Test Systems, Inc.
CELLMATE	1680200	AVL Test Systems, Inc.
DIGALOG	1787874	AVL Test Systems, Inc.
D	1357859	AVL Test Systems, Inc
CELLMATE	1363062	AVL Test Systems, Inc.
D	1285870	AVL Test Systems, Inc.
DIGALOG	1285869	AVL Test Systems, Inc.
SCENARIA	4189571	AVL Strategic Analytic Services, Inc.

SECURITY AGREEMENT

SCHEDULE D

REAL ESTATE LEGAL DESCRIPTIONS

1. Property located at 47519 Halyard Drive, in the Township of Plymouth, Wayne County, Michigan described as follows:

Lot 34 and that part of Lot 33 described as: Beginning at the Northeast corner of Lot 33, "Metro West Technology Park" located in Section 20, Township 1 South, Range 8 East, Plymouth Township, and recorded in Liber 102 of Plats, Pages 8 through 13, Wayne County Records, Wayne County, Michigan; thence South 41 degrees 10 minutes 00 seconds West 175.00 feet along the Southerly right of way of Halyard Drive; thence continuing along said right of way 39.27 feet along the arc of a 543.00 feet radius circular curve to the right with a delta of 04 degrees 08 minutes 36 seconds, a degree of curve of 10 degrees 33 minutes 06 seconds, and a chord bearing South 43 degrees 14 minutes 18 seconds West 39.26 feet; thence South 35 degrees 52 minutes 33 seconds East 512.93 feet; thence the following two courses along the Southerly line of said Lot 33 North 52 degrees 20 minutes 00 seconds East 259.76 feet, and North 29 degrees 20 minutes 00 seconds East 76.02 feet; thence North 48 degrees 50 minutes 00 seconds West 533.17 feet to the place of beginning.

2. Property located at 1801 Ellsworth Road, in the City of Ann Arbor, Washtenaw County, Michigan described as follows:

Commencing at the Southeast corner of Section 9, Town 3 South, Range 6 East, City of Ann Arbor, Washtenaw County, Michigan; thence South 87 degrees 43 minutes 45 seconds West 399.36 feet along the South line of said Section 9 and the centerline of Ellsworth Road (120 feet wide) to the Point of Beginning; thence continuing along said line South 87 degrees 43 minutes 45 seconds West 479.62 feet; thence North 01 degrees 31 minutes 40 seconds West 562.65 feet; thence North 87 degrees 36 minutes 20 seconds East 478.02 feet; thence South 01 degrees 41 minutes 30 seconds East 563.64 feet to the Point of Beginning, being a part of the Southeast ½ of said Section 9.

Together with a 20.00 foot wide easement for egress, the centerline of said easement described as follows: Commencing at the Southeast corner of Section 9, Town 3 South, Range 6 East, city of Ann Arbor, Washtenaw County, Michigan; thence North 01 degrees 41 minutes 30 seconds West 533.88 feet along the East line of said Section 9 and the centerline of Stone School Road (66 feet wide); then South 88 degrees 18 minutes 30 seconds West 33.00 feet to the Westerly right-of-way line of said Stone School Road and the Pointe of Beginning; thence South 87 degrees 36 minutes 20 seconds West 366.37 feet to the Point of Ending, as recorded in Liber _____, Page ____, Washtenaw County Records.

3. Property located at 46097 Commerce Center Drive, Plymouth, Wayne County, Michigan described as follows:

{28053/59/DT595145.DOC;8}

Parcel 1 Part of Commencing at the S. E. ¼ of Section 21, T.1S, R.8#., Plymouth Township, Wayne County, Michigan, being described as: Beginning at a point on the Northerly right-of-way line of M-14 Expressway (418.00 feet wide), distant N. 02° 10′ 31″ W., 962.06 feet, and S. 87° 07′ 29″ W., 1542.05 feet from the S.E. corner of said Section 21; thence continuing along the Northerly right-of-way line of M-14 Expressway S. 87° 07′ 29″ W., 351.89 feet; thence N. 01° 58′ 47″ W., 327.16 feet; thence N. 87° 07′25″ E., 71.58 feet; thence 66.83 feet along an arc of a curve to the right (radius 74.50 feet, central angle 51° 23′ 46″, chord bears S. 67° 10′ 42″ E., 64.61 feet); thence S. 41° 28′ 49″ E., 189.16 feet; thence S. 44° 42′ 16″ E., 88.90 feet; thence S. 41° 28′ 49″ E., 31.59 feet; thence 28.55 feet along an arc of a curve to left (radius 140.50 feet, central angle 11° 38′ 38″, chord bears S. 47° 18′ 08″ E., 28.50 feet); thence S. 02° 52′ 31″ E., 40.00 feet to the point of beginning. Containing 78.807 square feet or 1.809 Acres and subject to easements of record.

4. Property consisting of office space located at 25111 Arctic Ocean Circle, Lake Forest California, 92130 described as follows:

Parcel 3 of parcel map no. 98-109 in the city of Lake Forest, County of Orange, State of California, as per map filed in Book 303, Pages 13, 14, 15 of parcel maps, in the office of the County recorder of said county.

- 5. Property located at 701 White Avenue, City of Beloit, Rock County, Wisconsin described as follows:
 - A. Approximately 59,000 square feet of manufacturing and testing space in the western-most bay of the building formerly known as Fairbanks Morse Engine Building No. 160 located in the southwest quadrant of the intersection of Morse Avenue and Park Avenue in the City of Beloit, Rock County, Wisconsin

Located on:

B. Parcel 1: PART OF LOT 4 OF CERTIFIED SURVEY MAP DOCUMENT NO. 806967 AS RECORDED IN VOLUME 3 ON PAGES 232 THROUGH 235 AND LOTS 13-22 AND THE SOUTH ½ OF LOT 23, BLOCK 5, ECLIPSE PARK, CITY OF BELOIT, ROCK COUNTY, WISCONSIN, DESCRIBED AS FOLLOWS: Beginning at the Northeasterly corner on Lot 4, aforesaid, said point being the Southwesterly right-of-way corner of Park Avenue and Morse Street; thence South 00°00'39" West 960.10 feet; thence South 89°59'55" West 455.39 feet; thence South 73°01'31" West 111.98 feet; thence North 89°54'23" West 34.00 feet; thence South 00°05'37" West 39.03 feet; thence North 89°54'23" West 214.02 feet; thence South 01°19'06" West 500.96 feet; thence North 88°31'38" West 483.31 feet; thence North 01°31'46" East 32.71 feet; thence North 87°48'49" West 83.59 feet; thence North 01°38'23" East 449.00 feet; thence North 01°30'50" East 488.71 feet to an ontangent curve to the right; thence North and Northeasterly along said curve having a radius of 325.78 feet and a chord which bears North 25°34'31" East

{28053/59 DT595145.DOC;8}

265.68 feet to non-tangent curve to the right; thence Northeasterly and Easterly along said curve having a radius of 346.86 feet and a chord which bears North 62°34'01" East 190.52 feet to a point of non-tangency; thence North 00°26'39" East 109.39 feet; thence South 89°33'22" East 216.75 feet; thence North 45°24'39" East 420.79 feet; thence South 44°36'13" East 43.96 feet; thence North 45°24'04" East 180.05 feet; thence South 44°35'25" East 357.26 feet; thence South 00°16'49" West 23.52 feet; thence South 89°34'24" East 151.61 feet; thence North 00°00'39" East 80.00 feet; thence North 89°33'47" West 94.34 feet; thence North 44°38'01" West 24.32 feet to a curve to the right; thence Northwesterly and Northerly along said curve having a radius of 310.06 feet and a chord which bears North 22°07'04" West 237.31 feet; thence North 00°25'12" East 109.85 feet; thence South 89°37'10" East 90.09 feet; thence North 2°25'45" West 1.20 feet; thence South 89°40'18" East 110.00 feet; thence South 00°00'39" West 347.70 feet; thence continuing South 00°00'39" West 80.00 feet to the place of beginning. Said parcel containing 38.555 acres, more or less.

6. Property located at 47603 Halyard Drive 48170 described as follows:

Lot 32 of "Metro West Technology Park" as recorded in Liber 102 of Plats, pages 8-13, Wayne County Records, Wayne County, State of Michigan, and

Part of Lot 33 of "Metro West Technology Park" as recorded in Liber 102 of Plats, pages 8-13, Wayne County Records, Wayne County, State of Michigan described as: Beginning at the N.W. corner of said Lot 33; thence nontangentially 83.53 feet along the arc of a 543.00 feet radius circular curve concave to the north, delta 08° 48'49", chord bearing N. 49° 43'01"E, 83.45 feet along the southerly right-of-way of Halyard Drive; thence S 35° 52'33" E, 512.93 feet; thence S 52° 20' 00" W, 83.24 feet along the northerly right-of-way of M-14, a limited access highway; thence N 35° 52' 33" W, 509.12 feet to the place of beginning.

Being part of the southeast 1/4 of Section 20, T1S-R8E, Plymouth Township, Wayne County, Michigan.

7. Property consisting of office number 803 located at 10 East Doty Street, Madison, Wisconsin.

(28053/59/DT595145.DOC;8)

SCHEDULE E

INVESTMENT PROPERTY AND DEPOSITS

A. INVESTMENT PROPERTY

PLEDGED STOCK

Name and Location of Pledgor	Name of Issuer	Jurisdiction of Incorporation	No. of Shares	Class	Certificate No.	Percentage of Issuer's Stock
AVL Michigan Holding Corporation	AVL Test Systems, Inc.	Delaware	48	Common	3	100%
AVL Michigan Holding Corporation	AVL Powertrain Engineering, Inc.	Michigan	1,000	Common	3	100%
AVL Michigan Holding Corporation	AVL California Technology Center, Inc.	Michigan	10,000	Common	2	100%
AVL Michigan Holding Corporation	AVL Strategic Analytic Services, Inc.	Michigan	1,000	Common	I	100%
AVL Michigan Holding Corporation	AVL Properties, Inc.	Michigan	1,000	Common		100%

PARTNERSHIP INTEREST COLLATERAL

Name and Location of Pledgor	Name of Partnership	Type of Organization	Jurisdiction of Organization	Percent of Ownership
None				

LLC COLLATERAL

Name and Location of Pledgor	Name of LLC	Jurisdiction of Organization	Percentage of Equity Interest Owned by Pledgor
AVL Michigan Holding Corporation	AVL PEI Equipment, LLC	Michigan	100%
AVL Michigan Holding Corporation	AVL TSI Equipment, LLC	Michigan	100%
AVL Powertrain Engineering, Inc.	Schrick, LLC	Michigan	100%

B. DEPOSITS

Name of Depositor/Debtor	Name of Depository Institution	Account Numbers
AVL Michigan Holding Corporation	Comerica Bank	Account No. 1850246040
		ABA No. 072000096
		Swift No. MNBDUS33
AVL Michigan Holding Corporation	Charter One Bank	Account No. 4518586181
	***	ABA No. 241070417
		SWIFT No. CTZIUS33

(28053/59/DT861954.DOCX;1)

Name of Depositor/Debtor	Name of Depository Institution	Account Numbers
AVL Test Systems, Inc.	Charter One Bank	Account No. 4518586203
,		ABA No. 241070417
		SWIFT No. CTZIUS33
AVL Powertrain Engineering, Inc.	Charter One Bank	Account No. 4518586211
3,		ABA No. 241070417
		SWIFT No. CTZIUS33
AVL California Technology Center	Charter One Bank	Account No. 4518586238
,, ,		ABA No. 241070417
		SWIFT No. CTZIUS33
AVL Strategic Analytic Services,	Charter One Bank	Account No. 4522323203
Inc. d/b/a Scenaria, Inc.		ABA No. 241070417
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		SWIFT No. CTZIUS33
AVL Properties, Inc.	Charter One Bank	Account No. 4522323971
1.		ABA No. 241070417
		SWIFT No. CTZIUS33
AVL Test Systems, Inc.	Charter One Bank - Foreign	Account No. 2011061400108
11. 25 1000 2 / 0.0000	Currency Account (Euro)	SWIFT No. RBOS GB 2L
	•	IBAN No:
		GB74RBOS16107510000470
AVL Powertrain Engineering Inc.	Charter One Bank - Foreign	Account No. 2012112700610
	Currency Account (Euro)	SWIFT No. RBOSGB2L
		IBAN No:
		GB74RBOS16107510000470
AVL Test Systems, Inc.	Comerica - Foreign Currency	Account No. 329022
	Account (Euro)	SWIFT No. CITIGB2L
		IBAN No:
		GB91CITI8500811334190

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(ð) (0) nautana non-assassallo 9th Witmess Whoverst, the sauid Coxporations has caused this Certificates to be sugmed by its duly transfirable on the looksefthe Corporation un porson or by duly authorized Allorney upon PRESIDENT PAR VALUE **Gregory Hopton** February authorized officers and sealed with the Seal of the Corporation, INCORPORATED UNDER THE LAWS OF THE STATE OF DELINCORPORATE AVL Test Systems, Inc. SHARES からどうのと SHARES OF THE CAPITAL STOCK OF AVL Test Systems, Inc. Mis (erlifies That AVL Michigan Holding Corporation surronder af this Certificate stroportiquendersed. SECHETARY AUTHORIZED CAPITAL Forty-Eight (48)---and the second 25th **Chester Ricker**

© DWIGHT & M.H. JACKSON CORPORATION SUPPLY CO. 205 W. RANDOLPH ST. CHICAGO, ILLINOIS 60606

(RESERVE THIS SPACE TO PASTE BACK CANCELLED STOCK CERTIFICATE)

	IF NOT AN ORIGINAL IS:	IF NOT AN ORIGINAL ISSUE SHOW DETAILS OF TRANSFER BELOW	RANSFER BELOW	
	O	Original Certificate	No. of Origl.	No of Shrs.
Certificate No. 3 For 48 Shares	I ransferred No.	o. Date	Shares	Transf"d.
est Syster	from			
Dated Effective February 25, 2010	Reissue to reflect name change to 2	5/20/93	48	48
	AVL Test Systems, Inc. effective		COCCOSTON AND AND AND AND AND AND AND AND AND AN	
	February 25, 2010		ning the state of	
	. Processor of the contract of			
Various programments and a sea of the control of th	IF THIS CERTIFICATE IS SURRENDERED FOR TRANSFER SHOW DETAILS	URRENDERED FOR TRAN	SFER SHOW DETAILS	
,		No.	No. of New	No. of Shares
Received this Certificate Effective February 25, 2010	New Certificate Issued to		Certificate	Transferred
(SIGNATURE) Gregory Hopton				
Surrendered this Certificate				
(DATE)				
(SIGNATURE)				

TRADEMARK

REEL: 005344 FRAME: 0832

© DWIGHT & M. H. JACKSON CORPORATION SUPPLY CO. 205 W. RANDOLPH ST. CHICAGO, ILLINOIS 60606

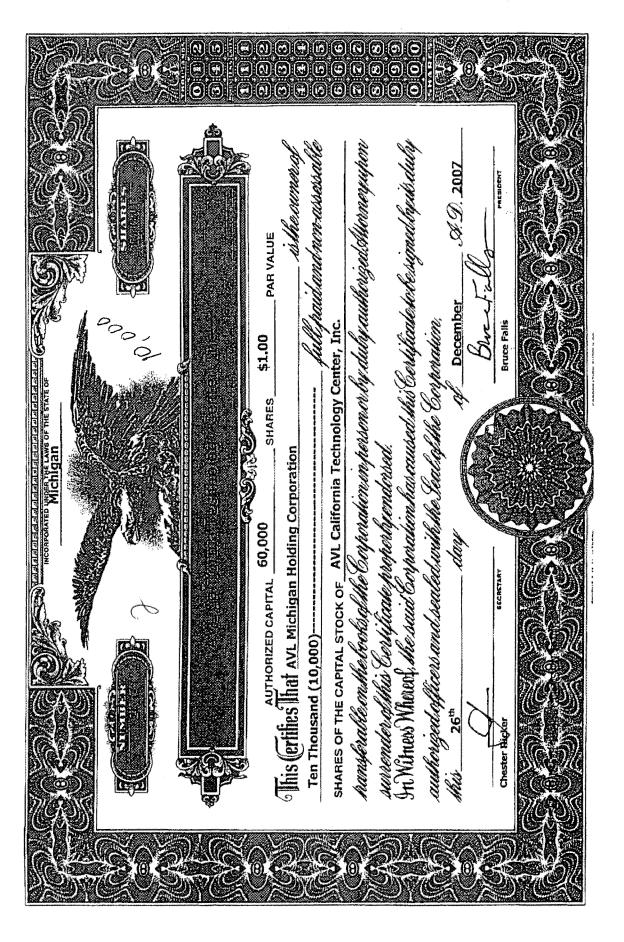
205 W. RANDOLPH ST. CHICAGO, ILLINOIS 60606 (RESERVE THIS SPACE TO PASTE BACK CANCELLED STOCK CERTIFICATE)

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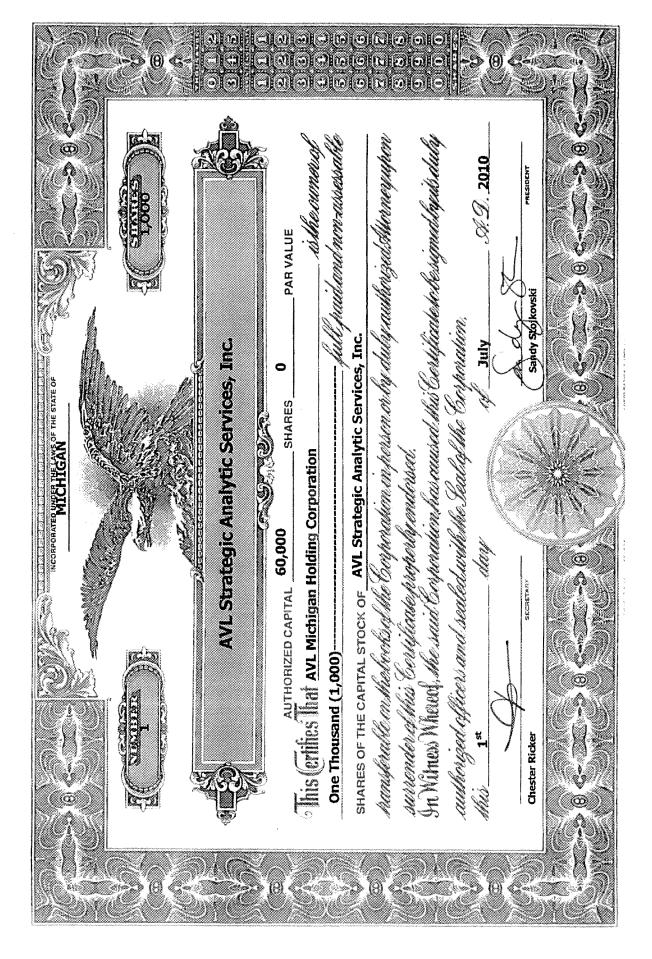


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SCHEDULE F

COMMERCIAL TORT CLAIMS

NONE

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EXHIBIT B – UPDATED PATENT AND TRADEMARK SECURITY AGREEMENT SCHEDULES

See attached.

ISSUED PATENTS

	Patent Number	Issue Date Company	Company
Active Pulsation Cancellation Device For Diesel			
Particulate Sampling Systems	EP 1249695	3/1/2006	AVL North America Inc.
Exhaust Emissions Analysis System	EP 1333270	8/3/2005	AVL North America Inc.
Exhaust Gas Sampling System	EP 2492662	12/11/2013	AVL North America Inc.
Active Pulsation Cancellation Device For Diesel			
Particulate Sampling Systems	JP 3737776	11/4/2005	AVL North America Inc.
Particulate Sampling Probe And Dilution Tunnel	US 6,481,299	11/19/2002	AVL North America Inc.
Particulate Sampling Probe And Dilution Tunnel	US 6,742,407	6/1/2004	AVL North America Inc.
Engine Exhaust Ernissions Measurement Correction	US 6,823,268	11/23/2004	AVL North America Inc.
Active Pulsation Cancellation Device For Diesel			
Particulate Sampling Systems	US 6,823,748	11/30/2004	AVL North America Inc.
Particulate Sampling Probe And Dilution Tunnel	US 6,857,327	2/22/2005	AVL North America Inc.
Heated Stainless Steel Emissions Canister	US 6,962,090	11/8/2005	AVL North America Inc.
Diesel Particulate Filter Monitoring Using Acoustic			
Sensing	US 6,964,694	11/15/2005	AVL North America Inc.
Exhaust Volume Measurement Device	US 6,973,818	12/13/2005	AVL North America Inc.
Exhaust Volume Measurement Device	US 7,000,449	2/21/2006	AVL North America Inc.
Exhaust Volume Measurement Device	US 7,055,364	6/6/2006	AVL North America Inc.
Active Filter Temperature Control	US 7,141,090	11/28/2006	AVL North America Inc.
Particulate Deposit Avoidance And Probe Positioning	US 7,191,671	3/20/2007	AVL North America Inc.
Flat Track Chassis Dynamometer	US 7,213,449	5/8/2007	AVL North America Inc.
Particulate Sampler And Dilution Gas Flow Device			
Arrangement For An Exhaust Sampling System	US 7,565,846	7/28/2009	AVL North America Inc.
Engine Exhaust Emissions Measurement Correction	US 7,574,307	8/11/2009	AVL North America Inc.
Particulate Sampler System Flow Calibration	US 7,607,335	10/27/2009	AVL North America Inc.
Transmission Headstock For Test Stands	US 7,610,819	11/3/2009	AVL North America Inc.
CVS System Sample Water Vapor Management	US 8,181,543	5/22/2012	AVL North America Inc.
Polymer Base For Hybrid Powertrain & NVH Test			
Installations	US 8,186,206	5/29/2012	AVL North America Inc.
Hybrid Power Plant With Waste Heat Recovery System US 8,739,531	US 8,739,531	6/3/2014	AVL North America Inc.
Particulate Deposit Avoidance And Probe Positioning	GP 6020040379220	5/23/2012	AVL North America Inc.
Exhaust Gas Sampling System	GP 6020040440027	12/11/2013	AVL North America Inc.
Suspended Single Roll Dynamometer	US 5,522,257	6/4/1996	AVL North America, Inc.
SCR Ammonia Slip Detection	US 8,607,548	12/17/2013	AVL North America, Inc.
Wind Turbine Gearbox Testing System	US 8,584,530	11/19/2013	AVL Test Systems, Inc.

Page 1

ISSUED PATENTS

		The second secon	
	Patent Number	Issue Date Company	Company
Exhaust Power Turbine Driven EGR Pump For Diesel	0.00	44 140,0043	44.400042 AVI Dowertrain Engineering Inc.
Fnoines	US 8,584,458	1113/2013	
Air Turbine Driven EGR Pump For Diesel Engines	US 8,726,657	5/20/2014	AVL Powertrain Engineering, Inc.
Enal Delivery Measurement System with Automatic			Pierberg Instruments - AVL North
	US 5,708,201	1/13/1998	America, Inc.
	والمراجعة		
Diasal Aircraft Engine	EP 1864008	3/14/2012	Schrick LLC
Dissol Aircraft Frains	CP 2598106	6/11/2013	Schrick, Inc.
Diesel Airerst Engine	US 7.191.742	3/20/2007	Schrick, Inc.
Diesel Alleran Lingline			
	001 100 1	,	AVI North America Inc
Misfire Detection Using Acoustic Sensors	Inactive US 7,021,128	4/4/2000	AVE NOISI Assessed, me.
Internal Combusion Engine with Low Viscosity Fuel			
System	Inactive US 6,189,517	2/20/2001	2/20/2001 AVL Powerrain Engineering, Inc.
Enel Injection System for Clean Low Viscosity Fuels	Inactive US 6,119,664	9/19/2000	AVL Powertrain Engineering, Inc.
Enal Injection System for Clean I ow Viscosity Fuels	Inactive US 5,816,228	10/6/1998	10/6/1998 AVL Powertrain Engineering, Inc.

PATENT APPLICATIONS

	PubNumber	AppNumber	Date Filed Company	Company
Sliding Vane Rotary Expander For Waste Heat	;		11/0044	Sel Coirces Attack
Recovery System	1	13/143562	11071111	AVE NOTE America III.
Battery Cooling Plate And Cooling System	2013-0143093	13/652530	2102/91/01	AVL North America inc.
Particulate Measurement System	,	4143DELNP2012 India	5/10/2012	AVL North America Inc.
CVS System Sample Water Vapor Management	2012-0210803	13/463226	5/3/2012	AVL North America Inc.
Particulate Measurement System	2012-0225488	13/509043	5/10/2012	AVL North America Inc.
Particulate Measurement System	CN102656344	2010800569421 China	6/15/2012	AVL North America Inc.
Particulate Measurement System	2504536	108557117 Europe	5/2/2012	AVL North America Inc.
Exhaust Sampling System And Method For Water				
Vapor Management	727772	45/476470	510310010	AVI North America Inc.
Ginder Tung ECD Mixor	T	13/143561	7/7/2011	AVL North America Inc.
Rattan Cooling Date And Cooling System	T	121888903 Europe	10/17/2012	AVL North America Inc.
Rattery Cooling Plate And Cooling System	926	2012232002 Japan	10/19/2012	AVL North America Inc.
Battery Cooling Plate And Cooling System	12	201210543855X China	10/19/2012	AVL North America Inc.
Transmission Including Dog Clutch Arrangement And		61/817486	4/30/2013	AVL North America, Inc.
Exhaust Sampling System And Method For Water				
Vapor Management		1020130057894 Korea	5/22/2013	AVL North America, Inc.
Exhaust Sampling System And Method For Water				
Vapor Management		1798MUM2013 India	5/21/2013	AVL North America, Inc.
Exhaust Sampling System And Method For Water	2013246160	2013108467 Janan	5/23/2013	AVL North America, Inc.
Exhaust Sampling System And Method For Water	2010230102			
Vapor Management	2667175	131686040 Europe	5/21/2013	AVL North America, Inc.
Exhaust Sampling System And Method For Water				Amagaan
Vapor Management	CN103424286	2013101942570 China	5/23/2013	AVL North America, Inc.
Deconvolution Method For Emissions Measurement	2691901	127646255 Europe	9/27/2013	AVL Test System Inc.
High Power Battery Cells Having Improved Cooling	WO2014/036227	PCT/US2013/057236	8/29/2013	AVL Test Systems Inc.
Exhaust Sampling System And Method For Synchronizing Time Alignment And Dilation	WO2013/188346	PCT/US2013/045094	6/11/2013	AVL Test Systems Inc.
Emissions Measurement Equipment And Method	WO2014/008040	WO2014/008040 PCT/US2013/047578	6/25/2013	AVL Test Systems Inc.

Page 1

PATENT APPLICATIONS

Deconvolution Method For Emissions Measurement Deconvolution Method For Emissions Measurement Deconvolution Method For Emissions Measurement Intelligent Bag Filling For Exhaust Sampling System Deconvolution Method For Emissions Measurement SCR Ammonia Slip Detection Engine Turbo-Compounding Apparatus And Method Two-Speed Transmission For Electric Vehicle Altitude Fuel Limiter For Engine And Method Of Using	1145	2014502616 Japan 2012800200736 China 2831593 Canada PCT/US2013/042871 14/007111 111842118 Europe 61/981251 61/912163	9/27/2013 10/24/2013 9/26/2013 5/28/2013	AVL Test Systems, Inc. AVL Test Systems, Inc. AVL Test Systems, Inc.
ent ent ent ood		012800200736 China 831593 Canada 2CT/US2013/042871 4/007111 11842118 Europe 1/981251		AVL Test Systems, Inc. AVI Test Systems, Inc.
ent emt ood Jsing		831593 Canada CT/US2013/042871 4/007111 11842118 Europe 11/981251	9/26/2013 5/28/2013	AVI Test Systems, Inc.
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ent nod Jsing		4/007111 11842118 Europe 11/981251 11/912163		AVL Test Systems, Inc.
bor		11842118 Europe 11/981251 11/912163	9/24/2013	AVL Test Systems, Inc.
nod Jsing		1/981251 1/912163	10/6/2011	AVL Test Systems, Inc.
Engine Turbo-Compounding Apparatus And Method Two-Speed Transmission For Electric Vehicle Altitude Fuel Limiter For Engine And Method Of Using		1/981251 11/912163		
Two-Speed Transmission For Electric Vehicle Altitude Fuel Limiter For Engine And Method Of Using	9	1/912163	4/18/2014	AVL Powertrain Engineering, Inc.
Altitude Fuel Limiter For Engine And Method Of Using			12/5/2013	AVL Powertrain Engineering, Inc.
		\$00000 F	44/49/2043	AVI Powertrain Engineering Inc.
The Same		01/303300	1113/2013	
Fuel Injection System And Method Combining Port		7070	40/5/0012	AVI Dowertrain Engineering Inc.
Fuel Injection With Direct Fuel Injection		01/3121/4	20000	
Automatic Transmission Having A Continuously			07007	AVI Domostraia Engineering Inc
Variable Transmission Assembly		61/922214	12/31/2013	12/31/2013 AVE FOWEIDAM ENGINEEMING, MC.
Natural Gas Quality Sensor And Method For Using The			77000	AVI Downstrain Engineering Inc
Same		61/981260	4/ 10/2014	CALL COMOLUBIII LINGIII CALING, INC.
Manual Transmission With Torque Converter		61/915695	12/13/2013	AVL Powerrain Engineering, Inc.
Oil Sump Having Temperature-Controlled Jalousie		61/QR0222	4/16/2014	AVL Powertrain Engineering, Inc.
Divider		11.00 K. K. K. K.	1	
System And Method For Aerating Lubricant In An		61/969323	3/24/2014	AVL Powertrain Engineering, Inc.
Internal Compustion Engine		7.000000	1/48/2011	AVI Powertrain Engineering, Inc.
Transmission Sump Screen		61/980233	4/10/2014	AVI Demotration Control Inc.
Transmission Including Dog Clutch Arrangement And		14/264521	4/29/2014	AVL Powerrain Engineering, inc.
Air Turbine Driven EGR Pump For Diesel Engines		14/264164	4/29/2014	AVL Powertrain Engineering, Inc.
sel			44.40	AVI Downertrain Engineering Inc
Engines 2014-0075936		14/082699	11/10/2013	Over towerdam engineering, me
Diesel Aircraft Engine		P105198364 Brazil	12/7/2005	Schrick, Inc.

Page

EXHIBIT B- UPDATED PATENT AND TRADEMARK SECURITY AGREEMENT SCHEDULES

SCHEDULE 2

PATENT AND TRADEMARK SECURITY AGREEMENT

See attached.

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	FEDERALLY REGIS	FEDERALLY REGISTERED TRADEMARKS
MARK	REG. NO.	COMPANY
BENCHMARK SERIES	3031039	AVL Test Systems, Inc.
HYPERCELL	1856201	AVL Test Systems, Inc.
CELLMATE	1680200	AVL Test Systems, Inc.
DIGALOG	1787874	AVL Test Systems, Inc.
	1357859	AVL Test Systems, Inc
CELLMATE	1363062	AVL Test Systems, Inc.
	1285870	AVL Test Systems, Inc.
DIGALOG	1285869	AVL Test Systems, Inc.
SCENARIA	4189571	AVL Strategic Analytic Services, Inc.

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 Schedule 2 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 Schedule 2 attached hereto, any trademark issued pursuant to a trademark application referred to in Schedule 2 attached hereto and any trademark licensed under any trademark license listed on Schedule 2 attached hereto (items 4 through 6 being herein collectively referred to as the "Trademark Collateral");

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]

AVL MICHIGAN/MOLDING CORPORATION By: Name: Chester S. Ricker Title: Vice President and Chief Financial Officer STATE OF MICHIGAN)SS COUNTY OF Oakland The foregoing instrument was acknowledged before me this 13th day of June, 2011, by Chester S. Ricker, the Vice President and Chief Financial Officer of AVL Michigan Holding Corporation, a Michigan corporation, on behalf of the corporation. Sussan 7 Inyder Susan F. Snyder (SEAL) Notary Public, Oakland County, M. Acting in Califard County, Michigan Printed Name: My Commission Expires: ___ My Commission Expires on 07-05-2015 AVL POWERTRAM ENGINEERING, INC. Bv: Name: Chester S. Ricker Title: Vice President and Chief Financial Officer STATE OF MICHIGAN COUNTY OF Dakland The foregoing instrument was acknowledged before me this 3th day of June, 2011, by Chester S. Ricker, the Vice President and Chief Financial Officer of AVL Powertrain Engineering, Inc., a Michigan corporation, on behalf of the corporation. Susan F Snejder Notary Public Susan F. Snyder (SEAL) Notary Public, Oakland County, Mi Printed Name: Acting in Cakland County, Michigan My Commission Expires:

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

set forth above.

My Commission Expires on 07-05-2015

	NTER, INC.
D	_ (
By:	
	ne: Chester S. Ricker
Title	e: Vice President and Chief Financial Officer
STATE OF MICHIGAN)	
)SS COUNTY OF <u>Claric</u>)	
The foregoing instrument was acknowle Chester S. Ricker, the Vice President and Chief I Center, Inc., a Michigan corporation, on behalf o	
0 5 . 0	Seisen + Snijder Notary Public
Susan F. Snyder	(CDAT)
Notary Public, Oakland County, Macting In <u>Oakland</u> County, Michigan	·
My Commission Expires on 07-05-2015	My Commission Expires:
By: Nan	ne: Chester S. Ricker e: Vice President and Chief Financial Officer
STATE OF MICHIGAN)	
)SS COUNTY OF Carlara)	
The foregoing instrument was acknowle Chester S. Ricker, the Vice President and Chief Delaware corporation, on behalf of the corporation	dged before me this 2 day of June, 2011, by Financial Officer of AVL Test Systems, Inc., a on.
Susan F. Snyder Notary Public, Oakland County Acting in October County, Michiga My Commission Expires on 07-05-2045	Notary Public (SEAL) Printed Name: My Commission Expires:

AVL CALIFORNIA TECHNOLOGY

I.	sy:	
Ν	Vame:	Chester S. Ricker
		Vice President and Chief Financial Officer
STATE OF MICHIGAN)		
OUNTY OF <u>Salari</u>)		
The foregoing instrument was acknown Chester S. Ricker, the Vice President and C Services, Inc., a Michigan corporation, on beh	hief F	•
		Motary Public
		Notary Public
Susan F. Snyder		(SEAL)
Notary Public, Oakland Count	ly, Mi	Printed Name:
Acting in <u>Out (and</u> County, Mic My Commission Expires on 07-05-	-2015	My Commission Expires:
E N	By: Name:	Chester S. Ricker Secretary and Treasurer
STATE OF MICHIGAN)		
COUNTY OF <u>Canterd</u>)		
		,
		Justan F. Snijder
Susan F. Snyder		Notary Public
Notary Public, Oakland County,	М	(SEAL)
Acting in Calleta County, Michie	aan	Printed Name:
My Commission Expires on 07-05-20	015	My Commission Expires:

AVL STRATEGIC ANALYTIC

SERVICES, INC

	AVL T	TSI EQUIPMENT, LLC
		Chester S. Ricker Manager
STATE OF MICHIGAN)		
COUNTY OF <u>Deklard</u>)		
The foregoing instrument was acknowledge	_	ed before me this Aday of June, 2011, by uipment, LLC, a Michigan limited liability
		Susan F. Snejdie
		Notary Public
Susan F. Snyder	6.31	(SEAL)
Notary Public, Oakland County Acting in <u>Perford</u> County, Mich	aan	Printed Name: My Commission Expires:
My Commission Expires on 07-05-2	Ŏ15	My Commission Expires:
	AVL I	PEI EQUIPMENT, LLC
		7
	By:	
		Chester S. Ricker
	Title:	Manager
STATE OF MICHIGAN)		
COUNTY OF Arland)		
		(<i>Ú</i>)
The foregoing instrument was acknownesser S. Ricker, the Manager of AVL company, on behalf of the company.	owledge PEI Eq	ed before me this Aday of June, 2011, by uipment, LLC, a Michigan limited liability
		1 1 1
		- Just to shiple
Sugan E Carala		Notary Public (SEAL)
Susan F. Snyde Notary Pyblic, Ogkland Co		
Acting in County	. Michiaa	My Commission Expires:
My Commission Expires on 07	7-05-201	5

Acknowledged and Agreed:	
RBS CHTIZBNS, N.A.	
By:	
Name: Charles Harris	
Title: Vice President - Michigan Corporate	
Banking	
STATE OF MICHIGAN)	
COUNTY OF Carlord)SS	
The foregoing instrument was acknowledge	ged before me this day of June, 2011, by
Charles Harris, the Vice President - Michigan Conational banking association, on behalf of the association	ciation.
	Susan J. Inijder Notary Public
- m A stan	Notary Public 🗸
Susan F. Snyder	(SEAL)
Notary Public, Oakland County, MI	Printed Name:
Acting In Challes County, Michigan My Commission Expires on 07-05-2015	My Commission Expires:
1117	

SCHEDULE 1

to

PATENT AND TRADEMARK SECURITY AGREEMENT

See attached.

	ISSUED PATENTS	ПS	
	PATENT NO.	ISSUE DATE	COMPANY
Flat Track Chassis Dynamometer	US 7,213,449	05/08/2007	AVL North America, Inc. and AVL Zoetlner GmbH
Particulate Deposit Avoidance and Probe Positioning	US 7,191,671	03/20/2007	AVL North America, Inc.
Active Fitter Temperature Control	US 7,141,090	11/28/2006	AVL North America, Inc.
Exhaust Volume Measurement Device	US 7,055,364	06/06/2006	AVI. North America, Inc.
Misfire Detection Using Acoustic Sensors	US 7,021,128	04/04/2006	AVI. North America, Inc.
Exhaust Volume Measurement Device	US 7,000,449	02/21/2006	AVI. North America, Inc.
Exhaust Volume Measurement Device	US 6,973,818	12/13/2005	AVI. North America, Inc.
Diesel Particulate Filter Monitoring Using Acoustic Sensing	US 6,964,694	11/15/2005	AVL North America, Inc.
Heated Stainless Steel Emissions Canister	US 6,962,090	11/08/2005	AVI. North America, Inc.
Particulate Sampling Probe and Dilution Tunnel	US 6,857,327	02/22/2005	AVL North America, Inc.
Active Pulsation Cancellation Device for Diesel Particulate Sampling Systems	US 6,823,748	11/30/2004	AVI. North America, Inc.
Engine Exhaust Emissions Measurement	US 6,823,268	11/23/2004	AVI. North America, Inc.
Particulate Sampling Probe and Dilution Tunnel	US 6,742,407	06/01/2004	AVL North America, Inc.
Farticulate Sampling Probe and Dilution Tunnel	US 6,481,299	11/19/2002	AVI. North America, Inc.
Suspended Single Roll Dynamometer	US 5,522,257	06/04/1996	AVL North America, Inc.
Internal Combustion Engine with Low Viscosity Fuel System	US 6,189,517	02/20/2001	AVL Powertrain Engineering, Inc.
Fuel injection System for Clean Low Viscosity Fuels	US 6,119,664	09/19/2000	AVL Powertrain Engineering, Inc.
Fuels Injection System for Clean Low Viscosity Fuels	US 5,816,228	10/06/1998	AVI. Powertrain Engineering, Inc.
Diesel Arcraft Engine	US 7,191,742	03/20/2007	Schrick, Inc.
Fuel Delivery Measurement System with Automatic Pump Matching	US 5,708,201	01/13/1998	Pierburg Instruments, Inc./AVL North America, Inc.

AVL North America, Inc.	AVI. North America, Inc.	AVL North America, Inc.
EP 1249695	JP 373776	EP 1333270
Active Pulsation Cancellation Device for Diesel Particulate Sampling Systems	Active Pulsation Cancellation Device for Diesel Particulate Sampling Systems	Engine Exhaust Emissions Measurement Correction

		PATENT APPLICATIONS		
DESCRIPTION	PUBLICATION NO.	APPLICATION NO.	DATE FILED	COMPANY
Exhaust Volume Measurement Device	20060225482	11/447490	06/06/2006	AVL North America, Inc.
Particulate Sampler System Flow Calibration	20060216826	11/386911	03/22/2006	AVL North America, Inc.
Particulate Sampler and Dilution Gas Flow Device Arrangement for an Exhaust Sampling System		11/546048		AVL North America, Inc.
CVS System Sample Water Vapor Management		60/845271		AVL North America, Inc.
Diesel Aircraft Engine		11/687325		Schrick, Inc.
Transmission Headstock for Test Stands		11/496804		AVL North America, Inc.
4	Docket Number			400
Diesel Aircraft Engine	6/023-30/ PAI			Schrick Inc.
Diesel Aircraft Engine	67023-307 PCA			Schrick, Inc.
Diesel Aircraft Engine	67023-307 PCN			Schrick, Inc.
Diesel Aircraft Engine	67023-307 PDE			Schrick, Inc.
Diesel Aircraft Engine	67023-307 PGB			Schrick, Inc.
Diesel Aircraft Engine				Schrick, Inc.
Air Turbine Driven EGR Pump for Diesel Fnoines		12/785,071	05/21/2010	AVI. Powertrain Engineering, Inc.
Hybrid Powerplant with		PCTAIS10/20876	06/13/2010	AVI. Powertrain
Waste Heat Recovery System				Engineering, Inc.
Ejector Type EGR Mixer		PCT/US2010/020732	01/12/2010	AVL Powertrain
Siding Vane Rotary		PCTA1S2010020736	01/12/2010	AVI Powertrain
Expander for Waster Heat Recovery System				Engineering, Inc.
Exhaust Power Turbine Driver EGR Pump for Diesel Engines		12/785095	05/24/2010	AVL Powertrain Engineering, Inc.
Particulate Measurement System	67023-046 PCT	10/44633	08/06/2010	AVI. North America, Inc.

SCHEDULE 2

to

PATENT AND TRADEMARK SECURITY AGREEMENT

See attached.

DETROIT 37390-34 1206767v3

	FEDERALLY REGIS	FEDERALLY REGISTERED TRADEMARKS
MARK	REG. NO.	COMPANY
BENCHMARK SERIES	3031039	DIGALOG, AN AVL COMPANY
DIGALOG	2876490	DIGALOG, AN AVL COMPANY
HYPERCELL	1856201	DIGALOG, AN AVI COMPANY
CELLMATE	1680200	DIGALOG, AN AVI. COMPANY
DIGAL OG	1787874	DIGALOG, AN AVI, COMPANY
Q Q	1357859	DIGALOG, AN AVL COMPANY
CELLMATE	1363062	DIGALOG, AN AVL COMPANY
Q	1285870	DIGALOG, AN AVL COMPANY
DIGALOG	1285869	DIGALOG, AN AVL COMPANY

FIRST AMENDMENT TO PATENT AND TRADEMARK SECURITY AGREEMENT

INTRODUCTION

- A. The Grantors have made in favor of the Agent the Patent and Trademark Security Agreement dated as of June 13, 2011 (the "Security Agreement").
- B. The Borrower and the Agent have entered into the Credit Agreement dated as of June 13, 2011 (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 (as each such term is defined in the Credit Agreement) being hereinafter referred to collectively as the "Secured Creditors" and individually as a "Secured Creditor").
- C. The Grantors (other than the Borrower) have made in favor of the Agent, for the benefit of the Secured Creditors, the Subsidiary Guaranty Agreement dated as of June 13, 2011.
- D. The Agent and the Grantors desire to amend the Security Agreement on the terms and conditions herein set forth.

NOW, THEREFORE, in consideration of the premises and of the mutual agreements contained herein, in the Security Agreement and in the Credit Agreement, the parties agree as follows:

ARTICLE 1. AMENDMENTS

The Security Agreement hereby is amended as follows:

1.1 <u>Schedule 2</u> to the Security Agreement is hereby amended by replacing such schedule in its entirety with <u>Schedule 2</u> attached to this Amendment.

ARTICLE 2. REPRESENTATIONS AND WARRANTIES

Each of the Grantors represents and warrants that:

- 2.1 The execution, delivery and performance by it of this Amendment are within its corporate or limited liability company powers, have been duly authorized by all necessary corporate or limited liability company action and are not in contravention of any law, rule or regulation, or any judgment, decree, writ, injunction, order or award of any arbitrator, court or governmental authority, or of the terms of its articles of incorporation, articles of organization, by-laws, or operating agreement or of any contract or undertaking to it is a party or by which it or its property is or may be bound or affected.
- 2.2 This Amendment is its legal, valid and binding obligation, enforceable against such party in accordance with the terms of this Amendment.
- 2.3 After giving effect to the amendments contained in Article 1 of this Amendment, the representations and warranties contained in the Security Agreement are true with the same force and effect as if made on and as of the date hereof, and no default under the Security Agreement has occurred and is continuing or will exist as of the date hereof.
- 2.4 No consent, approval or authorization of or declaration or filing with any governmental authority or any non-governmental person or entity, including without limitation any creditor, shareholder, or member of the Grantors, is required on the part of the Grantors in connection with the execution, delivery and performance of this Amendment or the transactions contemplated hereby.

ARTICLE 3. MISCELLANEOUS

3.1 Each Grantor agrees that the Security Agreement, as amended by this Amendment, is ratified and confirmed and shall remain in full force and effect, enforceable against the Grantors in accordance with its terms, and that no Grantor has any set off, counterclaim or defense with respect to any of the foregoing.

- 3.2 All references to the Security Agreement in any Loan Document (as defined in the Credit Agreement) or any other document, instrument or certificate referred to in the Security Agreement or delivered in connection therewith or pursuant thereto, hereafter shall be deemed references to the Security Agreement, as amended hereby.
- 3.3 Capitalized terms used but not defined herein shall have the respective meanings ascribed thereto in the Security Agreement.
- 3.4 This Amendment shall be governed by and construed in accordance with the laws of the State of Michigan.
- 3.5 The Grantors jointly and severally agree to pay the reasonable fees and expenses of Dickinson Wright PLLC, counsel for the Agent, in connection with the negotiation and preparation of this Amendment and the documents referred to herein and the consummation of the transactions contemplated hereby, and in connection with advising the Agent as to its rights and responsibilities with respect thereto.
- 3.6 This Amendment may be executed upon any number of counterparts with the same effect as if the signatures thereto were upon the same instrument.

[Signature Pages Follow]

3

IN WITNESS WHEREOF, the parties hereto have caused this Amendment to be duly executed and delivered as of the date first set forth above.

	AVLI	MICHIGAN/HO/DING CORPORATION
	By:	
		: Chester S. Ricker
		Vice President and Chief Financial Officer
STATE OF MICHIGAN)		
)SS		
COUNTY OF DECLES		
	ident ar	ged before me this /2 day of ///////////////////////////////////
O I y	,	
		No.
		Notary Public (SEAL)
		Printed Name: LNT A. PYONONI
		My Commission Expires:
	AVL I	POWERTRAIN EXGINEERING, INC.
	Ву:	
		Chester S. Ricker
	Title:	Vice President and Chief Financial Officer
STATE OF MICHIGAN)		
)SS		
COUNTY OF LAYNE)		
2012, by Chester S. Ricker, the Vice Presi-	dent and	ged before me this/A day of / Market and day of AVL Powertrain
Engineering, Inc., a Michigan corporation, o	on behal	f of the corporation.
		Notary Public
		(SEAL)
		Printed Name: LON A. DOWN
		My Commission Expires: 8/12/17

Signature Page 1 of 5 to First Amendment to Patent and Trademark Security Agreement

TRADEMARK

	AVL CALIFORNIA RECHNOLOGY
	CENTER, INC.
	Ву:
	Name: Chester S. Ricker
	Title: Vice President and Chief Financial Officer
STATE OF MICHIGAN)	
COUNTY OF Way (18.	
The foregoing instrument was a	cknowledged before me this
2012, by Chester S. Ricker, the Vice Pr	esident and Chief Financial Officer of AVL California
Technology Center, Inc., a Michigan corp	oration, on behalf of the corporation.
	Notary Publič
	(SEAL)
	Printed Name: N. M.
	My Commission Expires: <u>ダルス//フ</u>
	AVL TEST SYSTÆM\$, INC.
	- LI
	By:
	Name: Chester S. Ricker
	Title: Vice President and Chief Financial Officer
STATE OF MICHIGAN)	
)SS	
COUNTY OF LINEY)	
•	3/
The foregoing instrument was ac	cknowledged before me this Aday of Alay 2016
2012, by Chester S. Ricker, the Vice Pres	ident and Chief Financial Officer of AVL Test Systems,
lnc., a Delaware corporation, on behalf of	the corporation.
	Notary Public
	(SEAL)
	Printed Name: White A. C. Commission Expired.
	My Commission Expires: <u> </u>

	AVL STRATEGIC ANALYTIC SERVICES, INC
	Ву:
	Name: Chester S. Ricker Title: Vice President and Chief Financial Officer
STATE OF MICHIGAN)	
)SS COUNTY OF(<u>(Ay/)</u>)	
The foregoing instrument was ac 2012, by Chester S. Ricker, the Vice Pr Analytic Services, Inc., a Michigan corpor	eknowledged before me this day of Members day of Members day of AVL Strategic ration, on behalf of the corporation.
	Notary Public
	(SEAL) Printed Name: LAYLA, BANGON
	My Commission Expires:
	AVL PROPERTIES, INC. By:
	Name: Chester S. Ricker Title: Secretary and Treasurer
	knowledged before me this 2 day of (1200)
2012, by Chester S. Ricker, the Secretar corporation, on behalf of the corporation.	y and Treasurer of AVL Properties, Inc., a Michigan
	Notary Public (SEAL)
	Printed Name: 107 A. Brown
	My Commission Expires: 0/2//7

	Ву:
	Name: Chester S. Ricker
	Title: Manager
STATE OF MICHIGAN) (SS) (COUNTY OF A A A A A A A A A A A A A A A A A A	
£	<i>1 1</i>
The foregoing instrument was ackar 2012, by Chester S. Ricker, the Manager liability company, on behalf of the company	nowledged before me this Aday of Many
1 1	
	Notary Public
	(SEAL) Printed Name: 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	AVL PEI EQUIPMENT, LLC By:
	Name: Chester S. Ricker
	Title: Manager
STATE OF MICHIGAN))SS COUNTY OF (1/4/1/2)	
COUNTY OF (NA 4/1X)	.3
	nowledged before me this day of hold, of AVL PEI Equipment, LLC, a Michigan limited v. Notary Public
	(SEAL)
	Printed Name: Lon A. Prouv
	My Commission Expires: 7/22/17

AVL TSI EQUIPMÊNT, LLC

RBS CITIZENS, N.A.
Py:
Name; Charles Harris
Title: Vice President - Michigan Corporate
Banking
STATE OF MICHIGAN)
COUNTY OF DOLLAR SS
The foregoing instrument was acknowledged before me this // day of
2012, by Charles Harris, the Vice President - Michigan Corporate Banking of RBS Citizens,
N.A., a national banking association, on behalf of the association.
Carlle Haraya-V.
Non-Balla
(SEAL) Notary Public
Printed Name:
Not Commission Francisco
1 Marie Carlo Oktobrowsky
NOTARY PUBLIC - STATE OF MICHIGAN COUNTY OF MACOMB
My Comm. Exp: 1/27/2018 Acting in the County of Land
Acting in the County of Calabatica Paris L27/11/12
Section of the sectio

SCHEDULE 2

to

PATENT AND TRADEMARK SECURITY AGREEMENT

Federally Registered Trademarks

RECORDED: 08/15/2014

<u>Mark</u>	Reg No.	Company
Hypercell	1856201	AVL Test Systems, Inc.
Cellmate	1680200	AVL Test Systems, Inc.
Digalog	1787874	AVL Test Systems, Inc.
D	1357859	AVL Test Systems, Inc.
Cellmate	1363062	AVL Test Systems, Inc.
D	1285870	AVL Test Systems, Inc.
Digalog	1285869	AVL Test Systems, Inc.
Scenaria	4189571	AVL Strategic Analytic Services, Inc.