

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4312752

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	SECURITY INTEREST
CONVEYING PARTY DATA	
Name	Execution Date
RYPOS, INC.	03/09/2017
RECEIVING PARTY DATA	
Name:	MASSACHUSETTS CAPITAL RESOURCE COMPANY
Street Address:	420 BOYLSTON STREET
City:	BOSTON
State/Country:	MASSACHUSETTS
Postal Code:	02116
PROPERTY NUMBERS Total: 4	
Property Type	Number
Patent Number:	5853437
Patent Number:	6063150
Patent Number:	6572682
Patent Number:	6942708
CORRESPONDENCE DATA	
Fax Number:	(617)345-3299
<i>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.</i>	
Phone:	(617) 345-3000
Email:	mschepper@burnslev.com
Correspondent Name:	MARLO SCHEPPER GROLNIC
Address Line 1:	BURNS & LEVINSON LLP
Address Line 2:	125 SUMMER STREET
Address Line 4:	BOSTON, MASSACHUSETTS 02110
ATTORNEY DOCKET NUMBER:	41553.0
NAME OF SUBMITTER:	MARLO SCHEPPER GROLNIC
SIGNATURE:	/Marlo Schepper Grolnic/
DATE SIGNED:	03/10/2017
Total Attachments: 16	
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Execution Copy

INTELLECTUAL PROPERTY SECURITY AGREEMENT

This Intellectual Property Security Agreement, dated March 9, 2017, (as the same may be amended, restated or otherwise modified from time to time, the "IP Security Agreement") is executed by and between **Rypos, Inc.**, a Delaware corporation, having a principal place of business located at 40 Kenwood Circle, Franklin, MA 02038 (the "**Debtor**"), and **Massachusetts Capital Resource Company**, a Massachusetts special purpose limited partnership, having offices located at 420 Boylston Street, Boston, Massachusetts 02116 (the "**Lender**").

RECITALS

A. Pursuant to the terms of that certain Note and Warrant Purchase Agreement of even date herewith (as the same may be amended, restated or otherwise modified from time to time, the "Purchase Agreement") by and between the Debtor and the Lender, the Lender has made a certain loan to the Debtor (the "Loan Facility"), as evidenced by a Note, of even date herewith, in the original principal amount of \$2,500,000, (as the same may be amended, restated or otherwise modified from time to time, the "Note") made by the Debtor payable to the order of the Lender. Capitalized terms used herein and not defined shall have the meanings ascribed to them in the Purchase Agreement.

B. To induce Lender to the establish the Loan Facility in favor of Debtor pursuant to the terms of the Purchase Agreement, Debtor desires to grant a security interest to Lender in all of Debtor's right title and interest, whether presently existing or hereafter acquired in, to and under all of the Collateral (as defined in Section 1 hereof).

C. This Intellectual Property Security Agreement is being granted in addition to, and in conjunction with, that certain Security Agreement of even date granted by the Debtor in favor of the Lender (referred to herein as the "Security Agreement") and is intended to be read and interpreted in harmony with the Security Agreement. Any conflicts between the provisions of this IP Security Agreement and the Security Agreement shall be resolved in favor of (i) the more restrictive provision when considering the obligations of the Debtor, and (ii) the more favorable provision when considering the rights and remedies of the Lender.

NOW, THEREFORE, in consideration of the premises set forth above, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, it is hereby agreed as follows:

1. **Security Interest.** As security for the Obligations described in Section 2 hereof, the Debtor hereby grants to the Lender a security interest in, and pledges and assigns to the Lender, the property described below, together with any and all accessions, additions and improvements thereto and substitutions and replacements and proceeds thereof (hereinafter referred to collectively as the "Collateral"):

(a) All of the following property, now owned or hereafter acquired by the Debtor or in which the Debtor now holds or hereafter acquires any interest (collectively, the

“Patents”): (i) all letters patent of, or rights corresponding thereto, in the United States or in any other country, all registrations and recordings thereof, and all applications for letters patent of, or rights corresponding thereto, in the United States or any other country, including registrations, recordings and applications in the United States Patent and Trademark Office or in any similar office or agency of the United States, any State thereof or any other country; (ii) all reissues, continuations, continuations-in-part or extensions thereof; (iii) all petty patents, divisionals, and patents of addition; and (iv) all patents to be issued under any such applications, including, without limitation, all of the foregoing set forth on Schedule A attached hereto;

(b) All of the following property, now owned or hereafter acquired by the Debtor in which the Debtor now holds or hereafter acquires any interest (collectively, the “Copyrights”): (i) all copyrights, whether registered or unregistered, held pursuant to the laws of the United States, any State thereof, or of any other country; (ii) all registrations, applications and recordings in the United States Copyright Office or in any similar office or agency of the United States, of any State thereof, or of any other country; (iii) all continuations, renewals or extensions thereof; and (iv) all registrations to be issued under any pending applications, including, without limitation, all of the foregoing set forth on Schedule B attached hereto;

(c) All of the following property, now owned or hereafter acquired by the Debtor or in which the Debtor now holds or hereafter acquires any interest (collectively, the “Trademarks”): (i) all trademarks (registered, common law or otherwise), tradenames, corporate names, business names, trade styles, service marks, logos, other source or business identifiers (and all goodwill associated therewith), prints and labels on which any of the foregoing have appeared or appear, and designs of like nature, now existing or hereafter adopted or acquired, all registrations and recordings thereof, and any applications in connection therewith, including registrations, recordings and applications in the United States Patent and Trademark Office or in any similar office or agency of the United States, any State thereof or any other country or any political subdivision thereof, and (ii) all reissues, extensions or renewals thereof, including, without limitation, all of the foregoing set forth on Schedule C attached hereto, but excluding any United States intent-to-use trademark or service mark applications to the extent that, and solely during the period in which, the grant of a security interest therein would impair the validity or enforceability of such intent-to-use trademark or service mark application under federal law;

(d) Any Patent license, Copyright license, Trademark license or other license of rights or interests now held or hereafter acquired by the Debtor or in which the Debtor now holds or hereafter acquires any interest and any renewals or extensions thereof, including, without limitation, all of the foregoing set forth on Schedule D attached hereto;

(e) Debtor’s software, source codes, trade secrets and inventions (whether or not patented or patentable);

(f) Debtor’s technical information, procedures, processes, designs, knowledge, and know-how; Debtor’s data bases, models and drawings;

(g) Debtor’s skill, expertise, and experience; Debtor’s websites, world wide web addresses, domain names, URL’s, moral rights, publicity rights, mask works and any other

proprietary, intellectual or industrial proprietary rights of any kind or nature that do not compromise or are not protected by the Patents, Trademarks, Copyrights or Licenses;

(h) Debtor's applications therefor and reissues, extensions, or renewals thereof; and

(i) Debtor's goodwill associated with any of the foregoing, together with Debtor's rights to sue and collect damages for past, present and future infringement of the foregoing and the goodwill associated therewith.

2. **Secured Obligations.** The security interest hereby granted shall secure the due and punctual payment and performance of the Purchase Agreement and the Note, including, without limitation all Indebtedness of the Debtor to the Lender (collectively, the "Obligations").

3. **Special Warranties and Covenants of the Debtor.** The Debtor hereby warrants and covenants to the Lender that:

(a) The address shown at the beginning of this IP Security Agreement is the principal place of business of the Debtor (the "Premises"). The Debtor will not, without at least ten (10) days prior written notice to the Lender, change (i) its principal place of business, (ii) any other place of business, or (iii) the location of any single item or related group of items of Collateral if in case of either (ii) or (iii) above such change of location of Collateral would require the Lender to file any additional financing statement to perfect their security interests in such Collateral.

(b) Except for the security interest granted hereby, and for Permitted Liens, the Debtor is, and as to the Collateral acquired after the date hereof the Debtor will be, the owner of the Collateral free from any lien, security interest, or encumbrance (other than liens or encumbrances arising by operation of law or the Loan Documents or Permitted Liens), and the Debtor will defend the Collateral against all claims and demands of all other persons. To the best of the Debtor's knowledge and belief, no other financing statement or filing covering any of the Collateral is on file nor will the Debtor permit any adverse financing statement or filing to be on file in any public office except such filings that evidence the Lender's security interest in the Collateral and other filings evidencing Permitted Liens.

(c) The Debtor warrants that it is the owner by proper and valid assignment of all of the Collateral, and that, except for sales or dispositions not material in value and not material to the Debtor's business, it will not sell or otherwise dispose of any of the Collateral or any interest therein without the prior written consent of the Lender.

(d) The Debtor will promptly deliver, in form and substance satisfactory to the Lender (or if permitted by law, the Lender may themselves execute and file, and at the Lender's request, the Debtor will join with the Lender in executing, in all public offices wherever filing is deemed by the Lender to be necessary or desirable) such financing statements, filings, certificates and other documents or instruments to enable the Lender to perfect or from time to time renew the security interests granted hereby, and to perfect or from time to time renew a

security interest in any additional Collateral hereafter acquired by the Debtor or in any replacements or proceeds thereof.

(e) The Debtor does not, and in the absence of prior written notice to the Lender, the Debtor will not, conduct business under any trade name or name other than its corporate name.

(f) The Schedules hereto are intended to, and Debtor represents the Schedules do include as Collateral, all intellectual property now held by the Debtor, and may be updated from time to time as necessary or at the request of the Lender to include any hereafter acquired intellectual property. The Debtor will, in addition, from time to time at the request of the Lender, do, make, execute and deliver all such additional and further acts, things, deeds, assurances and instruments as the Lender may require more completely to vest or confirm in and assure to the Lender its rights hereunder and in and to the Collateral.

(g) At its option, the Lender may discharge taxes (except those contested in good faith), liens, security interests, or other encumbrances (other than those permitted herein) at any time levied or placed on the Collateral, and may pay for and take any other action which they deem appropriate for the maintenance and preservation of the Collateral. The Debtor shall reimburse the Lender on demand for any payment made, or any expenses incurred, by the Lender pursuant to this Section 3(g).

(h) The Debtor shall notify the Lender promptly of all material claims against the Collateral. The Debtor shall not settle any material dispute or claim without the Lender's consent, not to be unreasonably withheld, delayed, or conditioned, unless such settlement has no adverse impact on the Collateral or the Lender's security interest therein. Upon the occurrence of any Event of Default (as defined in Section 4 hereof) and while same is continuing, the Lender may settle or adjust disputes or claims directly with customers or account debtors for amounts and upon terms which they consider reasonably advisable; and where the Debtor receives collateral of any kind or nature by reason of transactions between itself and its customers or account debtors, they will hold the same on the Lender's behalf, subject to the Lender's instructions, and as property forming part of the Collateral, except to the extent Debtor disposes of same pursuant to the provisions of the Purchase Agreement.

4. **Events of Default.** The occurrence of any one or more of the "Events of Default" as defined in the Purchase Agreement shall constitute an Event of Default under this IP Security Agreement while same is continuing.

5. **Remedies.** Upon and after the occurrence and during the continuance of an Event of Default, all of the Obligations may, at the option of the Lender and without demand, notice or legal process of any kind, be declared, and immediately shall become, due and payable.

Upon and after the occurrence and during the continuance of an Event of Default, the Lender shall have the following additional rights and remedies:

(a) All of the rights and remedies of a secured party under the Uniform Commercial Code or any other applicable law or at equity, all of which rights and remedies shall

be cumulative and non-exclusive, to the extent permitted by law, in addition to any other rights and remedies contained in this IP Security Agreement or in any document, instrument or agreement evidencing, governing or securing the Obligations.

(b) The right to (i) take possession of the Collateral, without resort to legal process and without prior notice to Debtor, and for that purpose Debtor hereby irrevocably appoints the Lender its attorney-in-fact to enter upon any premises on which the Collateral or any part thereof may be situated and remove the Collateral therefrom, or (ii) require the Debtor to assemble the Collateral and make it available to Lender in a place to be designated by the Lender within 50 miles of Debtor's chief executive office, in its sole discretion. Subject to the provisions of any applicable lease, the Debtor shall make available to the Lender all premises, locations and facilities necessary for the Lender's taking possession of the Collateral or for removing or putting the Collateral in saleable form.

(c) The right to sell or otherwise dispose of all or any part of the Collateral by public or private sale or sales. Unless the Collateral is perishable or threatens to decline speedily in value or is of a type customarily sold on a recognized market, the Lender will give the Debtor at least ten (10) business days' prior written notice of the time and place of any public sale thereof or of the time after which any private sale or any other intended disposition (which may include, without limitation, a public sale or lease of all or part of the Collateral) is to be made. The Debtor agrees that ten (10) business days is a reasonable time for such notice. The Lender, its employees, attorneys and agents may bid and become purchasers at any such sale, if public, and may purchase at any private sale any of the Collateral that is of a type customarily sold on a recognized market or which is subject to widely distributed standard price quotations. Any public or private sale shall be free from any right of redemption which the Debtor waives and releases. If there is a deficiency after such sale and the application of the net proceeds from such sale, the Debtor shall be responsible for the same, with interest.

(d) The Lender shall have the right (and Debtor irrevocably appoints the Lender as attorney-in-fact for the Debtor for this purpose, such appointment being coupled with an interest and exercisable during the continuance of an Event of Default), without prior notice to Debtor and without resort to legal process, to notify the persons liable for payment of the Accounts (as defined in the Uniform Commercial Code) at any time and direct such persons to make payments directly to the Lender, and to perform all acts the Debtor could take to collect on the Account, including, but without limitation, the right to notify postal authorities to change the address for delivery, open mail, endorse checks, bring collection suits, and realize upon Collateral securing the Accounts. At the Lender's request, during the continuance of an Event of Default, all bills and statements sent by the Debtor to the persons liable for payments of the Accounts shall state that they have been assigned to, and are solely payable to, the Lender, and Debtor shall direct persons liable for the payment of the Accounts to pay directly to the Lender any sums due or to become due on account thereof.

6. **Governmental Approvals.** The Lender acknowledges that in connection with any exercise by the Lender of its rights hereunder to dispose of or operate under the authorizations, permits and licenses covered hereby, it may be necessary to obtain the prior consent or approval of certain governmental authorities or instrumentalities. Notwithstanding anything to the contrary contained herein or in any security document, neither the Lender nor the

Debtor will take any action pursuant to this IP Security Agreement or any of the security documents which would constitute or result in any assignment of a license, if such assignment of license would require under then existing law, the prior approval of any governmental authority or instrumentality, without first obtaining such approval of such governmental authority or instrumentality. Upon the exercise by the Lender of any power, right, privilege or remedy pursuant to this IP Security Agreement which requires any consent, approval, recording, qualification or authorization of any governmental authority or instrumentality, the Debtor will execute and deliver, or will cause the execution and delivery of, all applications, certificates, instruments and other documents and papers that the Lender may be required to obtain for such governmental consent, approval, recording, qualification or authorization.

7. Waivers.

(a) THE LENDER AND DEBTOR KNOWINGLY, INTENTIONALLY, VOLUNTARILY AND IRREVOCABLY WAIVE THE RIGHT TO A TRIAL BY JURY IN ANY PROCEEDING HEREAFTER INSTITUTED BY OR AGAINST THE LENDER OR THE DEBTOR IN RESPECT OF THIS SECURITY AGREEMENT, ANY DOCUMENT, INSTRUMENT OR AGREEMENT EVIDENCING, GOVERNING OR SECURING THE OBLIGATIONS HEREBY SECURED OR THE COLLATERAL (THE "LOAN DOCUMENTS").

(b) THE DEBTOR HEREBY ACKNOWLEDGES THAT THIS SECURITY AGREEMENT IS PART OF A COMMERCIAL TRANSACTION.

(c) THE DEBTOR WAIVES NOTICE OF NON-PAYMENT, DEMAND, PRESENTMENT, PROTEST OR NOTICE OF PROTEST OF THE COLLATERAL AND ALL OTHER NOTICES (EXCEPT TO THE EXTENT EXPRESSLY PROVIDED FOR HEREIN OR IN THE CREDIT AGREEMENT), CONSENTS TO ANY RENEWALS OR EXTENSIONS OF TIME OF PAYMENT THEREOF AND GENERALLY WAIVES ANY AND ALL SURETYSHIP DEFENSES AND DEFENSES IN THE NATURE THEREOF.

8. General.

(a) No waiver by the Lender of any failure to pay or perform shall be effective unless in writing nor operate as a waiver of any other failure to pay or perform or of the same failure to pay or perform on a future occasion, nor shall the failure or delay of the Lender to exercise, or the partial exercise of, any right, power or privilege provided for hereunder in any circumstances preclude the full exercise of such right, power or privilege in the same or similar circumstances in the future or the exercise of any other right or remedy.

(b) This IP Security Agreement is intended as the final, complete and exclusive statement of the provisions contained in this IP Security Agreement. No amendment, modification, termination or waiver of any provision of this IP Security Agreement or consent to any departure by the Debtor therefrom shall, in any event, be effective unless the same shall be in writing and signed by the Lender. Any waiver of, or consent to any departure from, any provision of this IP Security Agreement shall be effective only in the specific instance of and for the specific purpose for which it is given, and shall not be deemed to extend to similar situations

or to the same situation at a subsequent time. No notice to or demand upon the Debtor shall in any case entitle Debtor to any other or further notice or demand in similar or other circumstances.

(c) The Debtor hereby irrevocably authorizes the Lender at any time and from time to time to file initial financing statements, continuation statements and amendments thereto and such other filings in such locations and offices as the Lender shall deem necessary or appropriate to perfect the security interest granted herein, which such initial financing statements and such other filings may (a) indicate the Collateral (i) as all assets of the Debtor or words of similar effect regardless of whether any particular asset comprised in the Collateral falls within the scope of Article 9 of the Uniform Commercial Code, or (ii) as being of an equal or lesser scope or with greater detail, and (b) contain any other information required by part 5 of Article 9 of the Uniform Commercial Code for the sufficiency or filing office acceptance of any financing statement or amendment. Without limiting the generality of the foregoing, such other information may include, among other things, (i) whether the Debtor is an organization, the type of organization and any organization identification number issued to the Debtor, and (ii) in the case of a financing statement filed as a fixture filing or indication Collateral as as-extracted collateral or timber to be cut, a sufficient description of real property to which the Collateral relates. The Debtor agrees to furnish such information to the Lender promptly upon request. The Debtor also ratifies its authorization for the Lender to have filed any like initial financing statements or amendments thereto if filed prior to the date hereof.

(d) All rights of the Lender hereunder shall inure to the benefit of its successors and assigns, and all obligations of the Debtor shall bind its successors and assigns. The Lender shall have the unrestricted right at any time or from time to time, and without the Debtor's consent, to assign all or any portion of its rights and obligations hereunder to one or more banks or other financial institutions (each, an "Assignee"), and the Debtor agrees that it shall execute, or cause to be executed, such documents, including without limitation, amendments hereto and to any other documents executed in connection herewith or pursuant hereto as the Lender shall deem reasonably necessary to effect the foregoing. Upon the execution and delivery of appropriate assignment documentation, amendments and any other documentation required by the Lender in connection with such assignment, and the payment by Assignee of the purchase price agreed to by the Lender and such Assignee, such Assignee shall have all of the rights and obligations of the Lender hereunder (and under any and all other Loan Documents) to the extent that such rights and obligations have been assigned by the Lender pursuant to the assignment documentation between the Lender and such Assignee, and the Lender shall be released from its obligations hereunder and thereunder to a corresponding extent.

(e) Debtor shall pay to the Lender on demand any and all costs and expenses, including reasonable attorney's fees (but not including the costs and expenses allocated to the Lender's internal Legal Department), costs and expenses relating to the appraisal and/or valuation of assets and all costs and expenses incurred or paid by the Lender in exercising, collecting, establishing, defending, preserving, protecting, or enforcing any of its rights in the Collateral or under any of the Obligations unless such amounts are directly attributable to a claim in which it is finally determined by a court of competent jurisdiction that the Lender has acted with gross negligence or willful misconduct.

(f) This IP Security Agreement and the security interest created hereby shall be governed by and construed in accordance with the laws of The Commonwealth of Massachusetts.

(g) Whenever possible, each provision of this IP Security Agreement shall be interpreted in such a manner as to be effective and valid under applicable law, but if any provision of this IP Security Agreement shall to any extent be held invalid or unenforceable, then only such provision shall be deemed ineffective and the remainder of this IP Security Agreement shall not be affected.

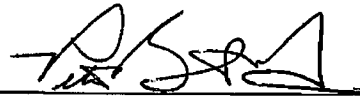
(h) Upon receipt of an affidavit of an officer of the Lender as to the loss, theft, destruction or mutilation of this IP Security Agreement, and, in the case of any such loss, theft, destruction or mutilation, upon cancellation of such IP Security Agreement, the Debtor shall issue, in lieu thereof, a replacement agreement.

(i) Debtor hereby acknowledges receipt of a full completed copy of this IP Security Agreement.

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IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be executed as a sealed instrument as off the date first above written.

RYPOS, INC.

By: 
Name: Peter C. Bransfield
Title: CEO

**MASSACHUSETTS CAPITAL RESOURCE
COMPANY**

By: _____
Daniel P. Corcoran, Jr., Managing Director

Signature Page of Intellectual Property Security Agreement

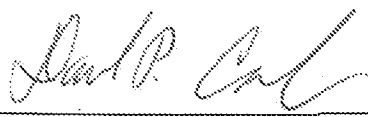
**PATENT
REEL: 041534 FRAME: 0435**

IN WITNESS WHEREOF, the parties have caused this Intellectual Property Security Agreement to be executed as a sealed instrument as off the date first above written.

RYPOS, INC.

By: _____
Name: Peter C. Bransfield
Title: Chief Executive Officer

**MASSACHUSETTS CAPITAL RESOURCE
COMPANY**

By:  _____
Daniel P. Corcoran, Jr., Managing Director

Signature Page of Intellectual Property Security Agreement

**PATENT
REEL: 041534 FRAME: 0436**

SCHEDULE A

Patents

Patent Registrations

Patent	Jurisdiction	Registration or Serial No.	Date of Registration
Self-Cleaning and Self-Sealing Particulate Filter	US	US5853437	Dec. 29, 1998
Self-Cleaning and Self-Sealing Particulate Filter	US	US6063150	May 16, 2000
Self-Cleaning Filter System Using Direct Electrically Heated Sintered Metal Fiber Filter Media	US	US6572682	June 3, 2003
Self-Cleaning Filter System Using Direct Electrically Heated Sintered Metal Fiber Filter Media	US	US6942708	Sep. 13, 2005
Integrated Diesel Particulate Filter	EPO	EP2588721B1	Oct. 19, 2016
Integrated Diesel Particulate Filter	Switzerland	CH2588721	Oct. 19, 2016
Integrated Diesel Particulate Filter	Germany	DE602011031480.7	Oct. 19, 2016
Integrated Diesel Particulate Filter	Finland	FI2588721	Oct. 19, 2016
Integrated Diesel Particulate Filter	France	FR2588721	Oct. 19, 2016
Integrated Diesel Particulate Filter	United Kingdom	GB2588721	Oct. 19, 2016
Integrated Diesel Particulate Filter	Italy	IT502017000000441	Oct. 19, 2016

Patent Applications

Patent	Jurisdiction	Registration or Serial No.	Date of Registration
Integrated Diesel Particulate Filter and Electric Load Bank	Brazil	BR112013000073-2	January 2, 2013

SCHEDULE B

Copyrights

Copyright Registrations

Copyright	Jurisdiction	Registration or Serial No.	Date of Registration	Title
none				

SCHEDULE C

Trademarks

Trademark Registrations

Mark	Jurisdiction	Registration or Serial No.	Date of Registration	Goods
RYPOS, INC.	Massachusetts	July 23, 1997	54600	Class 9 – Electrical and Scientific Apparatus
RYPOS	United States	Apr. 3, 2012	4,121,520	Exhaust Gas Treatment Systems for Diesel Engines, in Class 7 (U.S. Classes 13, 19,21,23,31, 34 and 35)
RYPOS	Singapore	November 27, 2014	40201400675X	International Class 07 Exhaust gas treatment systems for diesel engines
RYPOS	South Korea	May 19, 2015	40-1106778-00-00	International Class 07 Exhaust gas treatment systems for diesel engines

Trademark Applications

Mark	Jurisdiction	Registration or Serial No.	Date of Registration	Goods
RYPOS	Brazil	August 4, 2014	908069685	International Class 07 Exhaust gas treatment systems for diesel engines

Unregistered Trademarks

Mark	Jurisdiction	Registration or Serial No.	Date of Registration	Goods
HDPF/C	US	N/A	N/A	Exhaust gas treatment systems for diesel engines
DPF/LETRU	US	N/A	N/A	Exhaust gas treatment systems for diesel engines
DPF/ULETRU	US	N/A	N/A	Exhaust gas treatment systems for diesel engines

ADPF	US	N/A	N/A	Exhaust gas treatment systems for diesel engines
RYPOS Active Diesel Particulate Filter, RYPOS ADPF	US	N/A	N/A	Exhaust gas treatment systems for diesel engines
RYPOS Hybrid Diesel Particulate Filter, RYPOS HDPF	US	N/A	N/A	Exhaust gas treatment systems for diesel engines
RYPOS Active Regeneration Technology, RYPOS ART	US	N/A	N/A	Exhaust gas treatment systems for diesel engines
RYPOS Active Filter Cartridge, RYPOS AFC	US	N/A	N/A	Exhaust gas treatment systems for diesel engines
RYPOS Active Tier IV Solution, RYPOS AT4	US	N/A	N/A	Exhaust gas treatment systems for diesel engines
RYPOS Passive Filter Cartridge, RYPOS PFC	US	N/A	N/A	Exhaust gas treatment systems for diesel engines

SCHEDULE D

Licenses

Name of Agreement	Date of Agreement	Parties to Agreement
Joint Development and Supply Agreement	July 2, 2013	MIRATECH Holdings, LLC or successor