504816264 03/13/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

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EPAS ID: PAT4862999

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
FADI ADLY ANIS ESTEFANOUS	03/06/2013
SHENOUDA MEKHAEL	09/03/2013
NAEIM A. HENEIN	08/09/2013

RECEIVING PARTY DATA

Name:	WAYNE STATE UNIVERSITY	
Street Address:	656 W. KIRBY	
City:	DETROIT	
State/Country:	MICHIGAN	
Postal Code:	48202	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15918183

CORRESPONDENCE DATA

Fax Number: (734)994-6331

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.

Email: skean@brinksgilson.com, annarbordocketing@brinksgilson.com

Correspondent Name: BRINKS GILSON & LIONE
Address Line 1: 524 SOUTH MAIN STREET

Address Line 2: SUITE 200

Address Line 4: ANN ARBOR, MICHIGAN 48104

ATTORNEY DOCKET NUMBER:	10114-304
NAME OF SUBMITTER:	ROBERT K. FERGAN
SIGNATURE:	/Robert K. Fergan/
DATE SIGNED:	03/13/2018

Total Attachments: 6

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PATENT 504816264 REEL: 045182 FRAME: 0666

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> PATENT REEL: 045182 FRAME: 0667

ASSIGNMENT

WHEREAS, <u>Fadi Adly Anis ESTEFANOUS</u>, hereinafter called the "Assignor," have made the invention described in the United States provisional patent application entitled <u>PREDICTIVE CORRECTION IN INTERNAL COMBUSTION ENGINES</u>, for a full description of which reference is here made to an application for Letters Patent of the United States filed on March 11, 2013.

WHEREAS, <u>Wayne State University</u>, existing under the laws of the State of <u>Michigan</u>, having a place of business at <u>656 West Kirby</u>, <u>Detroit</u>, <u>Michigan</u>, <u>48202</u>, hereinafter called the "Assignee," desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignor hereby covenant and agree, for both the Assignor and the legal representatives, that the Assignor will assist the Assignee in the prosecution of the patent appli-

- 1 -

Client Reference No. WSU 13-1160

cation identified above; in the making and prosecution of any other patent applications that the

Assignee may elect to make covering the invention identified above; in vesting in the Assignee

like exclusive title in and to all such other patent applications and patents; and in the prosecution

of any interference which may arise involving said invention, or any such patent application or

patent; and that the Assignor will execute and deliver to the Assignee any and all additional

papers which may be requested by the Assignee to carry out the terms of this Assignment.

Assignor hereby grants the attorney of record the power to insert on this

Assignment any further identification which may be necessary or desirable in order to comply

with the rules of the United States Patent and Trademark Office for the recordation of this

document.

The Commissioner of Patents and Trademarks is hereby authorized and requested

to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignor has executed this agreement.

Dated:	3/6/2013	Sadi Extranous

Fadi Adly Anis ESTEFANOUS

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PATENT REEL: 045182 FRAME: 0669

<u>ASSIGNMENT</u>

WHEREAS, <u>Shenouda MEKHAEL</u>, hereinafter called the "Assignor," have made the invention described in the United States provisional patent application entitled <u>PREDICTIVE</u> <u>CORRECTION IN INTERNAL COMBUSTION ENGINES</u>, for a full description of which reference is here made to an application for Letters Patent of the United States filed on <u>March 11</u>, <u>2013</u> and assigned Application Serial No. 61/776,421.

WHEREAS, <u>Wayne State University</u>, existing under the laws of the State of <u>Michigan</u>, having a place of business at <u>656 West Kirby</u>, <u>Detroit</u>, <u>Michigan</u>, <u>48202</u>, hereinafter called the "Assignee," desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

The Assignor hereby covenant and agree, for both the Assignor and the legal representatives, that the Assignor will assist the Assignee in the prosecution of the patent appli-

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of any interference which may arise involving said invention, or any such patent application or

patent; and that the Assignor will execute and deliver to the Assignee any and all additional

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to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignor has executed this agreement.

Dated: 09/03/2013 Shenouda Melchare C

ASSIGNMENT

WHEREAS, <u>Naeim A. HENEIN</u>, hereinafter called the "Assignor," have made the invention described in the United States provisional patent application entitled <u>PREDICTIVE</u> <u>CORRECTION IN INTERNAL COMBUSTION ENGINES</u>, for a full description of which reference is here made to an application for Letters Patent of the United States filed on <u>March 11, 2013</u> and assigned Application Serial No. 61/776,421.

WHEREAS, <u>Wayne State University</u>, existing under the laws of the State of <u>Michigan</u>, having a place of business at <u>656 West Kirby</u>, <u>Detroit</u>, <u>Michigan</u>, <u>48202</u>, hereinafter called the "Assignee," desires to acquire the entire right, title and interest in and to the invention and the patent application identified above, and all patents which may be obtained for said invention, as set forth below;

NOW, THEREFORE, in consideration of valuable and legally sufficient consideration, the receipt of which by the Assignor from the Assignee is hereby acknowledged, the Assignor have sold, assigned and transferred, and by these presents do sell, assign and transfer to the Assignee, the entire right, title and interest for the United States in and to the invention and the patent application identified above, and any patents that may issue for said invention in the United States; together with the entire right, title and interest in and to said invention and all patent applications and patents therefor in all countries foreign to the United States, including the full right to claim for any such application all benefits and priority rights under any applicable convention; together with the entire right, title and interest in and to all continuations, divisions, renewals and extensions of any of the patent applications and patents defined above; together with the right to recover all damages, including, but not limited to, a reasonable royalty, by reason of past, present, or future infringement or any other violation of patent or patent application rights; to have and to hold for the sole and exclusive use and benefit of the Assignee, its successors and assigns, to the full end of the term or terms for all such patents.

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- 1 -

Client Reference No. WSU 13-1160

cation identified above; in the making and prosecution of any other patent applications that the

Assignee may elect to make covering the invention identified above; in vesting in the Assignee

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with the rules of the United States Patent and Trademark Office for the recordation of this

document.

RECORDED: 03/13/2018

The Commissioner of Patents and Trademarks is hereby authorized and requested

to issue patents to the Assignee in accordance with the terms of this Assignment.

IN TESTIMONY WHEREOF, the Assignor has executed this agreement.

Dotad	08/00/2013	N.A. General
Dated:	08/09/2013	

Naeim A. HENEIN

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