

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT3368866

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ISAIAH W. COX	03/07/2015
JONATHAN SIDNEY EDELSON	03/08/2015
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	BOREALIS TECHNICAL LIMITED
<b>Street Address:</b>	43/1 MAIN ST
<b>City:</b>	GIBRALTAR
<b>State/Country:</b>	GIBRALTAR
<b>PROPERTY NUMBERS Total: 3</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	13366006
<b>Application Number:</b>	61439579
<b>PCT Number:</b>	US1223840
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(503)296-2163
<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>	
<b>Phone:</b>	503-621-3286
<b>Email:</b>	patent@borealis.com
<b>Correspondent Name:</b>	BOREALIS TECHNICAL LIMITED
<b>Address Line 1:</b>	23545 NW SKYLINE BLVD
<b>Address Line 4:</b>	NORTH PLAINS, OREGON 97133-9204
<b>ATTORNEY DOCKET NUMBER:</b>	12187
<b>NAME OF SUBMITTER:</b>	DINA BRESLOW
<b>SIGNATURE:</b>	/DinaBreslow/
<b>DATE SIGNED:</b>	05/26/2015
<b>Total Attachments: 9</b>	
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source=Jonathan\_S\_Edelson\_Assignment\_12180\_12183\_12185\_12187\_12191#page4.tif

## ASSIGNMENT

WHEREAS, I, Isaiah W. Cox, of 27 Heathway Court Finchley Road/West Heath Road, London Hempstead, NW3 7TS (hereinafter "ASSIGNOR") am a sole or joint inventor and have invented certain new and useful improvements in the invention(s) described in APPENDIX A attached hereto; and

WHEREAS, Borealis Technical Limited, Gibraltar Company Number 57884, a corporation organized and existing under the laws of Gibraltar, and having offices at 43/1 Main St, Gibraltar (hereinafter "ASSIGNEE"), is desirous of acquiring the entire right, title, and interest in and to said invention(s) and in any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

WHEREAS, the ASSIGNOR and the ASSIGNEE are each duly authorized and capable of entering into this Assignment;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I, by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors and assigns, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention for the Protection of Industrial Property and other relevant International Treaties and Arrangements from the aforesaid inventions and application(s) set forth in Appendix A) and the entire right, title and interest in and to all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions, and renewals thereof.

I hereby authorize and request Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title, and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment not been made.

Further, I agree that I will communicate to said ASSIGNEE or its representatives any facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal, and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and generally do everything possible to aid said ASSIGNEE, its successors, and assigns to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.

In witness whereof, executed by the undersigned on the date(s) above the undersigned name(s).

Date 7 MARCH '15

Inventor Signature \_\_\_\_\_

Inventor typed or printed name

ISAHAM Cox

On this \_\_\_\_ day of \_\_\_\_\_, 201\_\_, before me, personally appeared the above Inventor, known to me to be the person of that name, who signed the foregoing document, and acknowledged the same to be of his/her free act and deed.

(Notary Seal)

This assignment should preferably be signed before:

(a) a Notary Public if within the U.S.A.

(b) a U.S. Consul if outside the U.S.A.

If neither, then it should be signed before at least two witnesses who also sign here:

Date 3/7/2015

Witness signature

Jordana Lachar

Witness typed or printed name

Jordana Lachar

Witness address:

7A DEER CROCS CT

Reisterstown, MD

21136

Date

3/7/15

Witness signature

Alexis Messinger

Witness typed or printed name

Alexis Messinger

Witness address:

2627 South 4th St Apt A

Fort Lewis WA 98433

## APPENDIX A

Title of Invention	Patent or Application No.	Filing Date	Docket #
Method for Reducing Airline Fleet Carbon Emissions and Carbon Emissions Fees	61/561,744	11-18-2011	12206.PR.V
Method for Reducing Airline Fleet Carbon Emissions and Carbon Emissions Fees	13/680,154	11-19-2012	12206.US
Method for Reducing Airline Fleet Carbon Emissions and Carbon Emissions Fees	PCT/US13/70859	11-19-2013	12206PCT
System and Method for Maintaining Aircraft Ground Travel Speed and Direction	61/530,925	09-02-2011	12199.PR.V
System and Method for Maintaining Aircraft Ground Travel Speed and Direction	13/603,393	09-04-2012	12199.US
Method for Enhancing Pilot Efficiency and Aircraft Safety During Ground Travel	61/508,269	07-15-2011	12194.PR.V
Method for Enhancing Pilot Efficiency and Aircraft Safety During Ground Travel	61/526,069	08-22-2011	12194.PR.V2
Method for Enhancing Pilot Efficiency and Aircraft Safety During Ground Travel	13/550,576	07-16-2012	12194.US
Method for Enhancing Pilot Efficiency and Aircraft Safety During Ground Travel	PCT/US12/46978	07-16-2012	12194.US.PCT
METHOD FOR IMPROVING AIRPORT RAMP THROUGHPUT	61/498,190	06-17-2011	12193.PR.V
METHOD FOR IMPROVING AIRPORT RAMP THROUGHPUT	13/526,483	06-18-2012	12193.US
METHOD FOR IMPROVING AIRPORT RAMP THROUGHPUT	PCT/US12/43040	06-18-2012	12193.US.PCT
METHOD FOR REDUCING REQUIREMENTS FOR AIRCRAFT BRAKE SIZE, COMPLEXITY, AND HEAT DISSIPATION	61/504,877	07-06-2011	12193-2.PR.V
METHOD FOR REDUCING REQUIREMENTS FOR AIRCRAFT BRAKE SIZE, COMPLEXITY, AND HEAT DISSIPATION	13/543,768	07-06-2012	12193-2.US
METHOD FOR REDUCING REQUIREMENTS FOR AIRCRAFT BRAKE SIZE, COMPLEXITY, AND HEAT DISSIPATION	PCT/US12/45865	07-06-2012	12193-2.US.PCT
Method for Reducing Aircraft Turnaround Time by Improving Ramp Safety	61/451,590	03-10-2011	12190.PR.V
Method for Reducing Aircraft Turnaround Time by Improving Ramp Safety	13/416,614	03-09-2012	12190.US
METHOD FOR AIRCRAFT TURNAROUND TIME BY IMPROVING RAMP	PCT/US12/28604	03-09-2012	12190.US.PCT
Method and System for the Powered Self Push Back of an Aircraft	61/440,652	02-08-2011	12188.PR.V
Method and System for the Powered Self Push Back of an Aircraft	13/369,156	02-08-2012	12188.US

Method and System for the Powered Self Push Back of an Aircraft	PCT/US12/24364	02-08-2012	12188.US.PCT
Method and System for the Powered Self Push Back of an Aircraft	14/004,158	09/09/13	12188.PCT.US
Method and System for the Powered Self Push Back of an Aircraft	GB1315874.6	30/12/99	12188.US.PCT.GB
Method and System for the Powered Self Push Back of an Aircraft	2012214456	9/9/2013	12188.US.PCT.AU
Method and System for the Powered Self Push Back of an Aircraft	7842/DELNP/2013	9/6/2013	12188.PCT.IN
Method and System for the Powered Self Push Back of an Aircraft	W-00201304066		12188.PCT.ID
Method of Operating Aircraft Drive to Move an Aircraft Under Adverse Ground Conditions	61/439,579	02-04-2011	12187.PR.V
Method of Operating Aircraft Drive to Move an Aircraft Under Adverse Ground Conditions	13/366,006	02-03-2012	12187.US
Method of Operating Aircraft Drive to Move an Aircraft Under Adverse Ground Conditions	PCT/US12/23840	02-03-2012	12187.US.PCT
Method of Operating Aircraft Drive to Move an Aircraft Under Adverse Ground Conditions	13/983,561	02/03/12	12187.PCT.US
Integrated Aircraft Ground Navigation Control System	61/409,117	11-02-2010	12185.PR.V
Integrated Aircraft Ground Navigation Control System	13/287,115	11-01-2011	12185.US
Integrated Aircraft Ground Navigation Control System	PCT/US11/59021	11-02-2011	12185.PCT
Integrated Aircraft Ground Navigation Control System	AU2011323421	5/30/2013	12185.PCT.AU
Integrated Aircraft Ground Navigation Control System	GB1309587.2	11/02/11	12185.PCT.UK
Integrated Aircraft Ground Navigation Control System	W-00201301880		12185.PCT.ID
Integrated Aircraft Ground Navigation Control System	4796/DELNP/2013	5/3/2013	12185.PCT.IN
Integrated Vehicle Wheel Motor Structured to Manage Heat	61/396,278	05-24-2010	12184.PR.V
Integrated Vehicle Wheel Motor Structured to Manage Heat	13/114,856	05-24-2011	12184.US
Integrated Vehicle Wheel Motor Structured to Manage Heat	PCT/US12/39228	05-24-2012	12184.US.PCT
Electric motor integrated with a wheel	61/341,297	03-29-2010	12183.PR.V
Wheel Structure for Integrating an Electric Drive Motor	13/074,801	03-29-2011	12183.US1
Wheel Structure for Integrating an Electric Drive Motor	PCT/US12/31313	03-29-2012	12183.US1.PCT

INTEGRATED ELECTRIC MOTOR AND GEAR IN AN AIRCRAFT WHEEL	61/342,166	04-08-2010	12183.PRV2
INTEGRATED ELECTRIC MOTOR AND GEAR IN AN AIRCRAFT WHEEL	13/082,932	04-08-2011	12183.US2
INTEGRATED ELECTRIC MOTOR AND GEAR IN AN AIRCRAFT WHEEL	PCT/US12/32667	04-08-2012	12183.US2.PCT
Electric motor integrated with a wheel	61/340,518	03-17-2010	12180.PRV
Electric Motor Integrated with a Wheel	13/050,838	03-17-2011	12180.US

## ASSIGNMENT

WHEREAS, I, Jonathan Sidney Edelson, of 2425 SW Nebraska St. Portland, OR 97235 (hereinafter "ASSIGNOR") am a sole or joint inventor and have invented certain new and useful improvements in the invention(s) described in APPENDIX A attached hereto; and

WHEREAS, Borealis Technical Limited, Gibraltar Company Number 57884, a corporation organized and existing under the laws of Gibraltar, and having offices at 43/1 Main St, Gibraltar (hereinafter "ASSIGNEE"), is desirous of acquiring the entire right, title, and interest in and to said invention(s) and in any Letters Patent that may be granted therefore in the United States and its territorial possessions and in any and all foreign countries;

WHEREAS, the ASSIGNOR and the ASSIGNEE are each duly authorized and capable of entering into this Assignment;

NOW, THEREFORE, in consideration of the sum of One Dollar (\$1.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, I, by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors and assigns, the full and exclusive right to the said invention in the United States and its territorial possessions and in all foreign countries (including the right to claim priority under the terms of the International Convention for the Protection of Industrial Property and other relevant International Treaties and Arrangements from the aforesaid inventions and application(s) set forth in Appendix A) and the entire right, title and interest in and to all Letters Patent which may be granted therefor in the United States and its territorial possessions and in any and all foreign countries and in and to any and all divisions, reissues, continuations, substitutions, and renewals thereof.

I hereby authorize and request Patent Office Officials in the United States and its territorial possessions and any and all foreign countries to issue any and all of said Letters Patent, when granted, to said ASSIGNEE as the assignee of my entire right, title, and interest in and to the same, for the sole use and behoof of said ASSIGNEE, its successors and assigns, to the full end of the term for which said Letters Patent may be granted, as fully and entirely as the same would have been held by me had this Assignment not been made.

Further, I agree that I will communicate to said ASSIGNEE or its representatives any facts known to me respecting said invention and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuation, substitute, renewal, and reissue applications, execute all necessary assignment papers to cause any and all of said Letters Patent to be issued to said ASSIGNEE, make all rightful oaths, and generally do everything possible to aid said ASSIGNEE, its successors, and assigns to obtain and enforce proper protection for said invention in the United States and its territorial possessions and in any and all foreign countries.



In witness whereof, executed by the undersigned on the date(s) above the undersigned name(s).

Date 2015 March 8

Inventor Signature [Signature]

Inventor typed or printed name Jonathan Edelson

On this \_\_\_ day of \_\_\_\_\_, 201\_\_, before me, personally appeared the above Inventor, known to me to be the person of that name, who signed the foregoing document, and acknowledged the same to be of his/her free act and deed.

(Notary Seal)

This assignment should preferably be signed before:

(a) a Notary Public if within the U.S.A.

(b) a U.S. Consul if outside the U.S.A.

If neither, then it should be signed before at least two witnesses who also sign here:

Date 8 Mar 2015

Witness signature Boaz Allyn-Fener

Witness typed or printed name Boaz Allyn-Fener

Witness address:

4905 SW Nevada Ct

Portland, Oregon 97219

Date 3/8/15

Witness signature [Signature]

Witness typed or printed name Nechame Raut

Witness address:

2425 SW Nebraska St

Portland, OR 97239

## APPENDIX A

Title of Invention	Patent or Application No.	Filing Date	Docket #
MOTOR AND GEARING SYSTEM FOR AIRCRAFT WHEEL	61/489,592	05-24-2011	12191.PR.V
MOTOR AND GEARING SYSTEM FOR AIRCRAFT WHEEL	13/479,269	05-24-2012	12191.US
MOTOR AND GEARING SYSTEM FOR AIRCRAFT WHEEL	PCT/US12/39227	05-24-2012	12191.US.PCT
Method of Operating Aircraft Drive to Move an Aircraft Under Adverse Ground Conditions	61/439,579	02-04-2011	12187.PR.V
Method of Operating Aircraft Drive to Move an Aircraft Under Adverse Ground Conditions	13/366,006	02-03-2012	12187.US
Method of Operating Aircraft Drive to Move an Aircraft Under Adverse Ground Conditions	PCT/US12/23840	02-03-2012	12187.US.PCT
Method of Operating Aircraft Drive to Move an Aircraft Under Adverse Ground Conditions	13/983,561	02/03/12	12187.PCT.US
Integrated Aircraft Ground Navigation Control System	61/409,117	11-02-2010	12185.PR.V
Integrated Aircraft Ground Navigation Control System	13/287,115	11-01-2011	12185.US
Integrated Aircraft Ground Navigation Control System	PCT/US11/59021	11-02-2011	12185.PCT
Integrated Aircraft Ground Navigation Control System	AU2011323421	11/02/11	12185.PCT.AU
Integrated Aircraft Ground Navigation Control System	GB1309587.2	11/02/11	12185.PCT.UK
Integrated Aircraft Ground Navigation Control System	W-00201301880		12185.PCT.ID
Integrated Aircraft Ground Navigation Control System	4796/DELNP/2013	5/3/2013	12185.PCT.IN
Electric motor integrated with a wheel	61/341,297	03-29-2010	12183.PR.V
Wheel Structure for Integrating an Electric Drive Motor	13/074,801	03-29-2011	12183.US1
Wheel Structure for Integrating an Electric Drive Motor	PCT/US12/31313	03-29-2012	12183.US1.PCT
INTEGRATED ELECTRIC MOTOR AND GEAR IN AN AIRCRAFT WHEEL	61/342,166	04-08-2010	12183.PR.V2
INTEGRATED ELECTRIC MOTOR AND GEAR IN AN AIRCRAFT WHEEL	13/082,932	04-08-2011	12183.US2

INTEGRATED ELECTRIC MOTOR AND GEAR IN AN AIRCRAFT WHEEL	PCT/US12/32667	04-08-2012	12183.US2.PCT
Electric motor integrated with a wheel	61/340,518	03-17-2010	12180.PRIV
Electric Motor Integrated with a Wheel	13/050,838	03-17-2011	12180.US