PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT |

CONVEYING PARTY DATA

| Name | Execution Date | |
|--------------------|----------------|--|
| AERION CORPORATION | 01/15/2019 | |

RECEIVING PARTY DATA

| Name: | AERION INTELLECTUAL PROPERTY MANAGEMENT CORPORATION |
|-----------------|-----------------------------------------------------|
| Street Address: | 5190 NEIL ROAD, SUITE 500 |
| City: | RENO |
| State/Country: | NEVADA |
| Postal Code: | 89502 |

PROPERTY NUMBERS Total: 52

| Property Type | Number |
|---------------------|--------------|
| Application Number: | 15626012 |
| Application Number: | 62482029 |
| Application Number: | 62482023 |
| Application Number: | 14545771 |
| PCT Number: | US2016037027 |
| Application Number: | 14121432 |
| Application Number: | 13987654 |
| Patent Number: | 8991768 |
| Patent Number: | 9233755 |
| Patent Number: | 8317128 |
| PCT Number: | US2012024794 |
| Patent Number: | 8448893 |
| PCT Number: | US2012020588 |
| Patent Number: | 8882028 |
| PCT Number: | US2011046522 |
| Patent Number: | 8272594 |
| PCT Number: | US2010002758 |
| Patent Number: | 8371124 |
| PCT Number: | US2010000960 |
| Patent Number: | 7837142 |
| | |

PATENT REEL: 048077 FRAME: 0026

505279388

| Property Type | Number |
|---------------------|--------------|
| PCT Number: | US2007021624 |
| Application Number: | 12807154 |
| Patent Number: | 7967241 |
| Application Number: | 60936268 |
| Application Number: | 60880054 |
| Application Number: | 60851841 |
| Patent Number: | 7946535 |
| PCT Number: | US2007022157 |
| Application Number: | 60851630 |
| Application Number: | 60851403 |
| Patent Number: | 6857599 |
| Patent Number: | 7000870 |
| PCT Number: | US2003035393 |
| Patent Number: | 7004428 |
| Application Number: | 60255509 |
| Patent Number: | 6149101 |
| PCT Number: | US2000007047 |
| Patent Number: | 5897076 |
| Patent Number: | 5518204 |
| Patent Number: | 5322242 |
| PCT Number: | US1993004970 |
| Patent Number: | 8892408 |
| Patent Number: | 8538738 |
| PCT Number: | US2012030189 |
| Patent Number: | 9418202 |
| Patent Number: | 8457939 |
| PCT Number: | US2011067917 |
| Patent Number: | 8935140 |
| Patent Number: | 9348956 |
| PCT Number: | US2012028606 |
| Patent Number: | 8437990 |
| Patent Number: | 9494482 |

CORRESPONDENCE DATA

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> **PATENT** REEL: 048077 FRAME: 0027

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ATTORNEY DOCKET NUMBER: 016596-0000003

NAME OF SUBMITTER: DAVID A. JAKOPIN/REG. NO. 32995

SIGNATURE: /David A. Jakopin/

DATE SIGNED: 01/15/2019

DATE SIGNED. 01/13/2013

Total Attachments: 10

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source=Patent Assignment#page9.tif source=Patent Assignment#page10.tif

> PATENT REEL: 048077 FRAME: 0028

PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (this "Assignment") is made and entered into by and between Aerion Corporation ("Assignor"), and Aerion Intellectual Property Management Corporation ("Assignee") as of November 17, 2017 ("Effective Date"), which is the same date as the effective date on which Assignor and Assignee entered into the Intellectual Property Contribution and License Agreement ("Contribution Agreement").

WHEREAS, Assignor is the sole and exclusive owner of the entire right, title and interest in, to and under the utility patents, all associated and related applications, all reissues, divisions, continuations, continuations-in-part, reexaminations, and extensions thereof, all international applications and/or foreign equivalents thereof, and rights in patent disclosures, and all patent rights set forth on Schedule A attached hereto, (the "Patents"); and

WHEREAS, consistent with, and as provided in the Contribution Agreement, Assignor wishes to assign to Assignee, and Assignee wishes to acquire from Assignor, all right, title and interest to the Patents; and

SO NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Assignor hereby sells, conveys, assigns, transfers and delivers to Assignee its entire right, title and interest in and to the Patents, for the United States and for all foreign countries, and the inventions such Patents claim (including subject matter capable of being reduced to a patent claim in a reissue or reexamination proceeding relating to one of the Patents and subject matter that could have been included as a claim in one of the Patents), and any and all continuations, divisionals, continuations-in-part, provisionals, reissues, reexaminations, extensions, international applications or foreign equivalents thereof which may be obtained therefrom, and the priority rights thereto, for its own use and enjoyment, and for the use and enjoyment of its successors, assigns or other legal representatives, as fully and entirely as the same would have been held and enjoyed by Assignor if this Assignment had not been made, together with all income, royalties, or payments due or payable as of the Effective Date or thereafter, including, without limitation, all claims for damages by reason of past, present or future infringement or other unauthorized use of one or more of the Patents, with the right to sue for, and collect the same for its own use and enjoyment, and for the use and enjoyment of its successors, assigns, or other legal representatives. Assignor hereby requests the United States Commissioner of Patents and Trademarks, and the corresponding entities or agencies in any applicable foreign jurisdictions, to record Assignee as the assignee and owner of the Patents.

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4824-3978-0186.v1

IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment to be executed by their duly authorized representatives and made effective as of the Effective Date.

ASSIGNOR: AERION CORPORATION

Name: Richard R. Tracy

Title: Senior Vice President

Date: January 15, 2019

IN WITNESS WHEREOF, Assignor and Assignee have caused this Assignment to be executed by their duly authorized representatives and made effective as of the Effective Date.

ASSIGNEE:

AERION INTELLECTUAL PROPERTY MANAGEMENT CORPORATION

y: <u>Villeddal</u>e

Name: Richard R. Tracy

Title: President

Date: January 15, 2019

4824-3978-0186.v1

SCHEDULE A

Patents

| Docket No.: | Title: | App. No.: | Filing Date: | Patent No.: | Issue Date: | Status: | Exp. Date: |
|--------------------|----------------------------------------------------------------------------------------------------------|---------------------|-----------------|-------------|----------------|-------------|--------------------------------------------------------------|
| 016596- 0452381 | High Flow Plug Nozzle Apparatus and Method of Usinq the Same | 15/626,012 | 06/17/201 7 | _ | _ | Pending | _ |
| 016596- 0448919 | Solid Modeler That Provides Spatial Gradients of 3D CAD Models of Solid Objects | 62/482,029 | 04/05/201 7 | _ | - | Pending | 04/05/201 |
| 016596- 0448918 | Solid Modeler That Provides Spatial Gradients of 3D CAD Models of Solid Objects | 62/482,023 | 04/05/201 7 | _ | _ | Pending | 04/05/201 |
| 016596- 0448937 | Cockpit Seat Armrest Avionics Cursor Control Device | 14/545,771 | 6/18/2015 | _ | - | Pending | _ |
| 016596- 0447590 | Cockpit Seat Armrest Avionics Cursor Control Device | PCT/US16/0370 27 | 06/18/201 6 | _ | _ | Pending | National Phase deadline: 12-18- 2017 (30 mos) |
| 13,498 | Jet Engine and Fan System for Boundary Layer Ingestion | | | | | Not Filed – | _ |
| 016596- 0454308 | Jet Engine and Nacelle for Reduced Noise | 14/121,432 | 9/8/2014 | | | Pending | _ |
| 016596- 0454606 | LNG-Fueled Long Range, High Speed Aircraft | 13/987,654 | 8/19/2013 | | | Pending | _ |
| 13,351 | Highly Efficient Transonic Laminar Flow Wing (CIP of docket 12,747, 7,946,535) | 13/068,774 | 5/18/2011 | 8,991,768 | 3/31/2015 | Issued | 5/18/2031 |
| 13,347 | Highly Efficient Supersonic Laminar Flow Wing Structure (CIP of docket 12,747) | 13/068,773 | 5/18/2011 | 9,233,755 | 1/12/2016 | Issued | 5/18/2031 |
| 13,333 | Laminar Flow Wing Optimized for Transonic Cruise Aircraft (CIP of docket 13,150 – 8,272,594) | 12/932,091 | 2/16/2011 | 8,317,128 | 11/27/201 2 | Issued | 2/16/2031 |

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PATENT

| Docket No.: | Title: | App. No.: | Filing Date: | Patent No.: | Issue Date: | Status: | Exp. Date: |
|----------------|-------------------------------------------------------------------------------------------|------------------------|-----------------|---------------------------|----------------|------------------------------------------|----------------|
| 13,333-EP | Laminar Flow Wing Optimized for Transonic Cruise Aircraft | 12746945.0- 1753 | 2/13/2012 | Pub. EP2675706 | | Pending | _ |
| 13,333- WO | Laminar Flow Wing Optimized for Transonic Cruise Aircraft | PCT/US12/0247 94 | 2/13/2012 | Pub. WO2012/1124 08 | | Expired | _ |
| 13,331 | Laminar Flow Wing Optimized for Transonic Cruise Aircraft (CIP of docket 13,150) | 12/931,060 | 1/25/2011 | 8,448,893 | 5/28/2013 | Issued | 1/25/2031 |
| 13,331-EP | Laminar Flow Wing Optimized for Transonic and Supersonic Cruise Aircraft | 12771457.4 | 1/9/2012 | Pub. EP2668094 | | Pending | _ |
| 13,331- WO | Laminar Flow Wing Optimized for Transonic and Supersonic Cruise Aircraft | PCT/US12/2058 8 | 1/9/2012 | Pub. WO2012/4177 0 | | Expired; filed in EP | _ |
| 13,213 | Aircraft Emergency and Backup Secondary Power Apparatus | 12/806,223 | 8/9/2010 | 8,882,028 | 11/11/201 4 | Issued | 8/9/2030 |
| 13,213- WO | Aircraft Emergency and Backup Secondary Power Apparatus | PCT/US 2011/46522 | 8/4/2011 | Pub. WO2012/0213 60 | | Expired – no foreign patents filed | _ |
| 13,150 | Laminar Flow Wing Optimized for Supersonic Cruise Aircraft | 12/589,424 | 10/26/200 9 | 8,272,594 | 9/25/2012 | Issued | 10/26/202 9 |
| 13,150-BR | Laminar Flow Wing Optimized for Supersonic and High Subsonic Cruise Aircraft | BR 11 2012 009654.0 | 10/15/201 0 | | | Pending | 10/15/203 0 |
| 13,150-CA | Laminar Flow Wing Optimized for Supersonic and High Subsonic Cruise Aircraft | 2776951 | 10/15/201 0 | 2776951 | 4/7/2015 | Issued | 10/15/203 0 |
| 13,150-CN | Laminar Flow Wing Optimized for Supersonic and High Subsonic Cruise Aircraft | 201080048113. 9 | 10/15/201 0 | ZL 201080048113 .9 | 10/15/201 0 | Issued | 10/15/203 0 |
| 13,150-EP | Laminar Flow Wing Optimized for Supersonic and High Subsonic Cruise Aircraft | 10843355.8 | 10/15/201 0 | Pub. EP2493758 | | Pending | _ |

| Docket No.: | Title: | App. No.: | Filing Date: | Patent No.: | Issue Date: | Status: | Exp. Date: |
|-----------------|---------------------------------------------------------------------------------------|---------------------|-----------------|-------------------------------|----------------|-------------------------------------------------------------------|----------------|
| 13,150-JP | Laminar Flow Wing Optimized for Supersonic and High Subsonic Cruise Aircraft | 2012-536784 | 10/15/201 0 | 5,992,332 | 08/26/16 | Issued | _ |
| 13,150-RU | Laminar Flow Wing Optimized for Supersonic and High Subsonic Cruise Aircraft | 2012121848 | 10/15/201 0 | 2531536 | 10/15/201 0 | Issued | 10/15/203 0 |
| 13,150- WO | Laminar Flow Wing Optimized for Supersonic and High Subsonic Cruise Aircraft | PCT/US10/0027 58 | 10/15/201 0 | PCI Pub. WO2011/0874 75 | | Expired – national phase filed in CA, CN, EP, JP & RU | _ |
| 13,074 | Jet Nozzle Plug with Varying, Non-Circular Cross Sections | 12/384,248 | 4/3/2009 | 8,371,124 | 2/12/2013 | Issued | 4/3/2039 |
| 13,074- WO | Jet Nozzle Plug with Varying, Non-Circular Cross Sections | PCT/US10/0009 60 | 3/31/2010 | PCI Pub. WO2010/1146 04 | | Abandoned | _ |
| 13,022 | Supersonic Aircraft Jet Engine | 11/973,813 | 10/9/2007 | 7,837,142 | 11/23/201 0 | Issued | 10/9/2027 |
| 13,022-CA | Supersonic Aircraft Jet Engine | 2665848 | 10/10/200 7 | 2,665,848 | 10/10/200 7 | Issued | 10/10/202 7 |
| 13,022-EP | Supersonic Aircraft Jet Engine | 07873759.0 | 10/10/200 7 | 2084061 | 10/10/200 7 | Issued | 10/10/202 7 |
| 13,022-RU | Supersonic Aircraft Jet Engine | 2009 117327 | 10/10/200 7 | 2454354 | 6/27/2012 | Abandoned | _ |
| 13,022- RU-1 | Supersonic Aircraft Jet Engine | 2011 150806 | 12/13/201 1 | 2499739 | 10/10/200 7 | Issued | 12/13/203 1 |
| 13,022- WO | Supersonic Aircraft Jet Engine | PCT/US07/0216 24 | 10/10/200 7 | PCI Pub. WO200810584 | | Expired | _ |
| 13,022-1 | Supersonic Aircraft Jet Engine Installation | 12/807,154 | 8/30/2010 | , | | Abandoned | _ |
| 13,022-2 | Supersonic Aircraft Jet Engine Installation | 12/807,142 | 8/30/2010 | 7,967,241 | 6/28/2011 | Issued | 8/30/2030 |
| 12,977 | Surface Expansion Nozzle Configuration for Supersonic Aircraft | 60/936,268 | 6/19/2007 | | | Abandoned | _ |
| 13,938 | Gradient Pressure Recovery Structure for Supersonic Aircraft | 60/880,054 | 1/9/2007 | | | Abandoned | _ |
| 12,906 | Aircraft Engine Translating Inlet Assembly | 60/851,841 | 10/12/200 6 | | | Provisional Application Expired | _ |

| Docket | Title: | App. No.: | Filing | Patent No.: | Issue | Status: | Exp. |
|---------------|------------------------------------------------------------------------------------|---------------------|----------------|------------------------------|----------------|--------------------------------------------------------------|----------------|
| No.: | | | Date: | | Date: | | Date: |
| 12,747 | Highly Efficient Supersonic Laminar Flow Wing | 11/974,802 | 10/18/200 7 | 7,946,535 | 5/24/2011 | Issued | 10/18/202 7 |
| 12,747-BR | Highly Efficient Supersonic Laminar Flow Wing | PI 0717627-9 | 10/17/200 7 | | | Pending | _ |
| 12,747-CA | Highly Efficient Supersonic Laminar Flow Wing | 2,665,852 | 10/17/200 7 | | | Abandoned | _ |
| 12,747-CN | Highly Efficient Supersonic Laminar Flow Wing | 200780044418. 0 | 10/17/200 7 | | | Abandoned | _ |
| 12,747-EP | Highly Efficient Supersonic Laminar Flow Wing | 07 874 420.8 | 10/17/200 7 | 2,091,921 | 1/27/2016 | Issued Lapsed in AT, IT, LT, PL – other designations unknown | 10/17/202 7 |
| 12,747-HK | Highly Efficient Supersonic Laminar Flow Wing | 10101309.2 | 2/5/2010 | | | Abandoned | _ |
| 12,747-JP | Highly Efficient Supersonic Laminar Flow Wing | 2009-533360 | 10/17/200 7 | | | Abandoned | _ |
| 12,747-RU | Highly Efficient Supersonic Laminar Flow Wing | 2009118394 | 10/17/200 7 | 2494008 | 10/17/200 7 | Issued | 10/17/202 7 |
| 12,747- WO | Highly Efficient Supersonic Laminar Flow Wing | PCT/US07/0221 57 | 10/17/200 7 | PCT Pub. WO200811520 7 | | Expired | _ |
| 12,746 | Surface Expansion Nozzle Integration for Supersonic Aircraft | 60/851,630 | 10/3/2006 | | | Provisional Application Expired | Expired |
| 12,745 | Gradient Pressure Recovery Inlet for Supersonic Aircraft | 60/851,403 | 10/13/200 6 | | | Provisional Application Expired | Expired |
| 12,463 | Highly Swept Canard with Low Sweep Wing Supersonic Aircraft Configuration | 10/746,744 | 12/23/200 3 | 6,857,599 | 2/22/2005 | Issued | 12/23/202 3 |
| 12,453 | Laminar Flow Wing for Transonic Cruise | 10/693,411 | 11/7/2002 | 7,000,870 | 2/21/2006 | Issued | 11/7/2022 |
| 12,453-AU | Laminar Flow Wing for Transonic Cruise | 2003287542 | 11/6/2003 | 2003287542 | 10/22/200 9 | Abandoned | _ |
| 12,453-BR | Laminar Flow Wing for Transonic Cruise | PI 0316038-6 | 11/6/2003 | PI0316038-6 | 11/6/2003 | Abandoned | _ |
| 12,453-CA | Laminar Flow Wing for Transonic Cruise | 2503270 | 11/6/2003 | 2,503,270 | 5/17/2011 | Abandoned | _ |
| 12,453-EP | Laminar Flow Wing for Transonic Cruise | 03781784.8 | 11/6/2003 | Pub. EP1583690 | 1/13/2010 | Fr – Issued IT – Aband. DE – Aband. GB – Aband. | 11/6/2023 |

| Docket No.: | Title: | App. No.: | Filing Date: | Patent No.: | Issue Date: | Status: | Exp. Date: |
|-----------------|----------------------------------------------------------------------------------------------------------|--------------------|-----------------|---------------------------------------------------|----------------|------------------------------------------------------------------------------------------------------------|---------------|
| 12,453-JP | Laminar Flow Wing for Transonic Cruise | 2004-551807 | 11/6/2003 | | | Abandoned | _ |
| 12,453- WO | Laminar Flow Wing for Transonic Cruise | PCT/US03/3539 3 | 11/6/2003 | PCT Pub. WO200404378 0 | | Expired – national applications filed in AU (abandoned) CA (Lapsed), EP (granted), and JP (Status unknown) | _ |
| 12,358 | Lift and Twist Control Using Trailing Edge Control Surfaces on Supersonic Laminar Flow Wings | 10/762,083 | 1/20/2004 | 7,004,428 | 2/28/2006 | Issued | 1/20/2024 |
| 12,176 | Efficient, Low Sonic Boom Laminar Flow, Aircraft Configurations | 60/255,509 | 12/23/200 0 | | | Abandoned | _ |
| 11,922 | Aircraft Wing and Fuselage Contours | 09/270,524 | 3/17/1999 | 6,149,101 | 11/21/200 0 | Expired | _ |
| PCT | Aircraft Wing and Fuselage Contours | PCT/US00/0704 7 | 03/16/200 0 | PCI Pub WO2000/0550 35 Pub'd. 09/21/2000 | | Expired; National phase in CA and EP | _ |
| 11,922-CA | Aircraft Wing and Fuselage Contours | 2,273,166 | 3/16/2000 | 2,372,166 | 9/30/2008 | Issued | 3/16/2020 |
| 11,922- CA-1 | Aircraft Wing and Fuselage Contours | 2,634,307 | 3/16/2000 | 2,634,307 | 4/27/2010 | Issued | 3/16/2020 |
| 11,922-EP | Aircraft Wing and Fuselage Contours | 00919440.8 | 3/16/2000 | Pub. EP1169224 | 1/11/2006 | FR – Issued GB – Issued DE – Aband. IT – Aband. | 3/16/2020 |
| 11,922-HK | Aircraft Wing and Fuselage Contours | 02105113.9 | 7/8/2002 | HK1045288 | 9/22/2006 | Abandoned | _ |
| 11,513 | High-Efficiency, Supersonic Aircraft | 08/650,686 | 5/20/1996 | 5,897,076 | 4/27/1999 | Issued | 5/20/2016 |
| 11,183 | High-Efficiency, Supersonic Aircraft | 08/258,781 | 6/13/1994 | 5,518,204 | 5/21/1996 | Expired | _ |
| 10,648 | High-Efficiency, Supersonic Aircraft | 08/013,065 | 2/3/1993 | 5,322,242 | 6/21/1994 | Expired | _ |

| Docket No.: | Title: | App. No.: | Filing Date: | Patent No.: | Issue Date: | Status: | Exp. Date: |
|----------------|-------------------------------------------------------------------------------------------------------------------------|---------------------|-----------------|------------------------------|----------------|------------------------------------------------------------------------------------------|---------------|
| 10,648-EP | High-Efficiency, Supersonic Aircraft | 93918117.8 | 5/23/1993 | EP0681544 | 1/9/1999 | Lapsed (granted and validated in GB, FR, and DE – all lapsed) | _ |
| PCT | High-Efficiency, Supersonic Aircraft | PCT/US93/0049 70 | 05/25/199 3 | Pub No. W01994/18069 | | Expired; Filed in CA (expired): EP (granted and lapsed in GB, FR, and DE) | - |
| CA | High-Efficiency, Supersonic Aircraft | 2,155,316 | 08/02/199 5 | 2,155,316 | | Expired | _ |
| US | Generating Inviscid and Viscous Fluid Flow Simulations Over a Surface Using a quasi- Simultaneous Technique | 13/070,384 | 03/23/201 | 8,892,408 | 11/18/201 4 | Issued | |
| US | Predicting Transition from Laminar to Turbulent Flow Over a Surface | 13/069,374 | 03/22/201 1 | 8,538,738 | 09/17/201 3 | Issued | |
| PCT | Predicting Transition from Laminar to Turbulent Flow Over a Surface | PCT/US12/3018 9 | 03/22/201 2 | Pub No. WO2012- 129440 | _ | Expired – no national applications filed | _ |
| US | Predicting Transition from Laminar to Turbulent Flow Over a Surface | 14/019,448 | 09/05/201 3 | 9,418,202 | 08/16/201 6 | Issued | |
| US | Generating Inviscid and Viscous Fluid-Flow Simulations Over an Aircraft Surface Using a Fluid-Flow Mesh | 12/982,744 | 12/30/201 0 | 8,457,939 | 06/04/201 3 | Issued | |
| PCT | Generating Inviscid and Viscous Fluid-Flow Simulations Over an Aircraft Surface Using a Fluid-Flow Mesh | PCT/US11/6791 7 | 12/29/201 1 | Pub No. WO2012/0925 02 | | Expired – no national applications filed | |
| US | Generating Inviscid and Viscous Fluid-Flow Simulations Over a Surface using a Fluid-Flow Mesh | 13/887,189 | 05/03/201 3 | 8,935,140 | 01/13/201 5 | Issued | |
| US | Generating Simulated Fluid Flow Over a Surface Using Anisotropic Diffusion | 13/887,199 | 05/03/201 3 | 9,348,956 | 05/24/201 6 | Issued | |

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| Docket No.: | Title: | App. No.: | Filing Date: | Patent No.: | Issue Date: | Status: | Exp. Date: |
|----------------|----------------------------------------------------------------------------------------------------------|--------------------|-----------------|-------------------------------|----------------|---------------------------------------------------|---------------|
| US | Generating a Simulated Fluid Flow Over an Aircraft Surface Using Anisotropic Diffusion | 13/046,469 | 03/11/201 1 | 8,437,990 | 05/07/201 3 | Issued | |
| PCT | Generating a Simulated Flow Over an Aircraft Surface Using Anisotropic Diffusion | PCT/US12/2860 6 | 03/09/201 2 | Pub. No. WO2012/1254 97 | _ | Expired – no national applications filed | |
| US | Predicting Transition from Laminar to Turbulent Flow Over a Surface Using Mode-Shape Parameters | 13/850,628 | 03/26/201 3 | 9,494,482 | 10/26/201 6 | Issued | |

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