PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT4521930

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JON PAISLEY	07/13/2017
TRUDIE SAVAGE	07/21/2017
SAMUEL MOORE	07/12/2017
ANTHONY MEISNER	07/12/2017

RECEIVING PARTY DATA

Name:	AIRBUS OPERATIONS LIMITED
Street Address:	PEGASUS HOUSE, AEROSPACE AVENUE, FILTON
City:	BRISTOL
State/Country:	UNITED KINGDOM
Postal Code:	BS34 7PA

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15597948

CORRESPONDENCE DATA

Fax Number: (703)816-4100

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: 703-816-4000 Email: glf@nixonvan.com **Correspondent Name:** JEFFRY H. NELSON

Address Line 1: 901 NORTH GLEBE ROAD, 11TH FLOOR

Address Line 2: NIXON & VANDERHYE P.C. Address Line 4: ARLINGTON, VIRGINIA 22203

TTORNEY DOCKET NUMBER: JHN-5056-291	
NAME OF SUBMITTER: JEFFRY H. NELSON	
SIGNATURE:	/JEFFRY H. NELSON/
DATE SIGNED:	07/26/2017
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 4

PATENT REEL: 043104 FRAME: 0749

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> PATENT REEL: 043104 FRAME: 0750

One rada: Cath

Signature of witness:

Document Description: Oath or declaration filed JHN-5065-0291 Attorney Docket Number First Named Inventor PAISLEY, Jon INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) USING AN APPLICATION DATA SHEET (37 CFR 1.76) Declaration Submitted With Initial Filing OR Declaration Submitted After Initial Filing (surcharge (37 C.F.R. § 1.16(f)) required) WINGLET (Title of the Invention) As a below named inventor, I hereby declare that: the attached application, or United States Annual United States Application Number 15/597,948 filed May 17, 2017, or PCT International application number filed on The above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in the Application identified above. WHEREAS, AIRBUS OPERATIONS LIMITED (hereinafter ASSIGNEE), an entity, having an office and place of business at Pegasus House, Aerospace Avenue, Filton, Bristoi, United Kingdom 6S34 7PA, is desirous of acquiring an interest therein; NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention; ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention; ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred, and ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE. AGREED and executed as noted below: LEGAL NAME OF INVENTOR/JOINT INVENTOR: (E.g., Given Name (first and middle (if any)) and Family Name or Surname) PAISLEY Inventor's Signature: PULY 2017 Witnessed by: Name

IWe acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR §1.56.

JULY 2017

Oate:

Doc code: Cath

Document Description: Oath or declaration filed

Attorney Docket Number JHN-5065-0291 First Named Inventor PAISLEY, Jon. INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.53) USING AN APPLICATION DATA SHEET (37 CFR 1.76). Declaration Submitted With Initial Filing OR Declaration Submitted After Initial Filing (surcharge (37 C.F.R. § 1.16(ft)) required) WINGLET (Title of the invention) As a below named inventor, I hereby declare that: This declaration is directed to the attached application, or United States Application Number 15/597,948 filed May 17, 2017, or PCT International application number filed on The above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1901 by fine or imprisonment of not more than five (5) years, or both, WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in the Application identified above. WHEREAS, AIRBUS OPERATIONS LIMITED (hereinafter ASSIGNEE), an entity, having an office and place of business at Pagasus House, Aerospace Avenue, Filton, Bristol, United Kingdom BS34 7PA, is desirous of acquiring an interest therein; NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Propenty, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhiya P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention; ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and tegel representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention: ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed assential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE AGREED and executed as noted below: LEGAL NAME OF INVENTOR/JOINT INVENTOR: (E.g., Given Name (first and middle (if any)) and Family Name or Surname) Trudie SAVAGE Inventor's Signature Date Witnessed by: ULGIN Name 21.7.17 Signature of witness Day:

IWe acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR §1.56.

Doc code: Oath

Document Description: Oath or declaration filed

Attorney Docket Number	JHN-5065-0291
First Mamod Inventor	DAISLEY Jon

	First Named Inventor	PAISLEY, Jon			
INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.63) USING AN APPLICATION DATA SHEET (37 CFR 1.76)					
Declaration Submitted With Initial Filing	,				
OR Declaration Submitted After Initial Filing (surcharge (37 C.F.R. § 1.16(f)) required)					
WINGLET					
(Title of the Invention)					
As a below named inventor, I hereby declare that:					
This declaration is directed to: the attached application, or United States Application Number 15/597,948 filed May 17, 2017, or PCT International application number filed on .					
The above-identified application was made or authorized to be made by me.					
I believe I am the original inventor or an original joint inventor of a claimed inver	ntion in the application.				
I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.					
WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in the Application identified above.					
WHEREAS, AIRBUS OPERATIONS LIMITED (hereinafter ASSIGNEE), an entity, having an office and place of business at Pegasus House, Aerospace Avenue, Filton, Bristol, United Kingdom BS34 7PA, is desirous of acquiring an interest therein;					
NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE's attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention;					
ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention;					
ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and					
ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.					
AGREED and executed as noted below:					
LEGAL NAME OF INVENTOR/JOINT INVENTOR: (E.g., Given Name (first and middle (if any)) and Family Name or Surname)					
Samuel		MOORE			
Inventor's Signature:	Date: 12 July 1	7			
Witnessed by:					
Name: Heidi Moore					
Signature of witness:	Date: 12 July 1	7			

I/We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR §1.56.

REEL: 043104 FRAME: 0753

Doc code: Oath

Document Description: Oath or declaration filed

JHN-5066-0291 Attorney Docket Number PAISLEY, Jon First Named Inventor INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY OR DESIGN PATENT APPLICATION (37 CFR 1.83) USING AN APPLICATION DATA SHEET (37 CFR 1.76) Declaration Submitted With Initial Filing ÓŔ Declaration Submitted After Initial Filing (surcharge (37 C.F.R. § 1.16(f)) required) WINGLET (Title of the Invention) As a below named inventor, I hereby declare that: This declaration is directed to: the attached application, or United States Application Number 15/597,948 filed May 17, 2017, or PCT International application number filed on The above-identified application was made or authorized to be made by me. I believe I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both, WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invention in the Application identified above WHEREAS, AIRBUS OPERATIONS LIMITED (hereinafter ASSIGNEE), an entity, having an office and place of business at Pagasus House, Aerospace Avenue, Filton, Bristol, United Kingdom 8S34 7PA, is desirous of acquiring an interest therein; NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the said ASSIGNOR by these presents hereby sells, assigns, and transfers unto the said ASSIGNEE, its successors, assigns, and legal representatives, ASSIGNOR'S entire right, title and interest in the United States of America and all foreign countries, in and to the Invention as described in the aforesaid application, and to the said application and to all subsequent applications based thereon including any and all continuations, divisions, reissues, and substitutes of said application, and all resulting patents, together with the right of priority under the International Convention for the Protection of Industrial Property. Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States of America adheres, and the ASSIGNOR hereby authorizes and requests the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its successors, assigns, and legal representatives. It is understood and agreed that ASSIGNEE'S attorneys Nixon & Vanderhye P.C. have represented only ASSIGNEE and will continue to represent only ASSIGNEE with respect to this invention; ASSIGNOR hereby agrees to transfer a like interest upon request of said ASSIGNEE, its successors, assigns, and legal representatives, and without further remuneration, in and to any improvements, and applications for patents based thereon, growing out of or related to the said invention. ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its successors, assigns, and legal representatives, deemed essential to ASSIGNEE'S full protection and title in and to the invention hereby transferred; and ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE, for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNÉE. AGREED and executed as noted below: LEGAL NAME OF INVENTOR/JOINT INVENTOR: (E.g., Given Name (first and middle (if any)) and Family Name or Surname) Inventor's Signature: Date: 12 July 2017 Witnessed by Date: 12 July 2017 Signature of witness

I/We acknowledge the duty to disclose information which is material to the patentability of this application as defined in 37 CFR §1.56.

PATENT REEL: 043104 FRAME: 0754

RECORDED: 07/26/2017