04/18/2019 505435872

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5482672

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PAULO HENRIQUE HASMANN	06/04/2018
MARCOS VINICIUS	06/04/2018
GABRIEL KENDIJY KOIKE	06/04/2018
CRISTIAN ESCOBAR SANTIAGO	06/04/2018
RODRIGO PINTO MOREIRA PIEDRAS	06/04/2018
REINALDO PINTO DIAS JUNIOR	06/04/2018

RECEIVING PARTY DATA

Name:	EMBRAER S.A.
Street Address:	AV. BRIGADEIRO FARIA LIMA, 2170
City:	SAO JOSE DOS CAMPOS - SP
State/Country:	BRAZIL
Postal Code:	12227-901

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15994032

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: 7038164000

Email: PTOMail@nixonvan.com BRYAN H. DAVIDSON **Correspondent Name:** Address Line 1: NIXON & VANDERHYE P.C.

Address Line 2: 901 NORTH GLEBE ROAD, 11TH FLOOR

Address Line 4: ARLINGTON, VIRGINIA 22203

ATTORNEY DOCKET NUMBER:	BHD-4439-0280
NAME OF SUBMITTER:	BRYAN H. DAVIDSON
SIGNATURE:	/Bryan H. Davidson/
DATE SIGNED:	04/18/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

PAIENI REEL: 048933 FRAME: 0515

505435872

Total Attachments: 6 source=04-18-2019_Combined_Dec_and_Assign#page1.tif source=04-18-2019_Combined_Dec_and_Assign#page2.tif source=04-18-2019_Combined_Dec_and_Assign#page3.tif source=04-18-2019_Combined_Dec_and_Assign#page4.tif source=04-18-2019_Combined_Dec_and_Assign#page5.tif source=04-18-2019_Combined_Dec_and_Assign#page6.tif

PATENT REEL: 048933 FRAME: 0516

Doc code: Oath Document Description: Oath or declaration filed		
Cooperation properties and solution and solutions and	Attorney Docket Number	BHD-4439-280
	First Named Inventor	HASMANN, Paulo Henrique
INVENTOR'S DECLARATION AND ASSIGNMENT FOR UT USING AN APPLICATION D Declaration Submitted With Initial Filing OR	ATA SHEET (37 CFR 1.76)	APPLICATION (37 CFR 1.63)
Declaration Submitted After Initial Filing (surcharge (37 C.	F.R. § 1.16(f)) required)	
FLYING BOOM MAST FOR MULTI-PURI	Pose Aerial Refueling .	AIRCRAFT
(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 15/994,032 filed May 3* ☐ PCT International application number filed on	1, 2018, or	
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 cla	imed invention in the application	•
I hereby acknowledge that any willful false statement made in this de by fine or imprisonment of not more than five (5) years, or both.	claration is punishable under 18	U.S.C. 1001
WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an	invention in the Application iden	tified above.
WHEREAS, EMBRAER S.A. (hereinafter ASSIGNEE), an entity, hav - SP, São Paulo, 12227-901, Brazil, is desirous of acquiring an interes	ing an office and place of busine est therein;	ss at 2170, São José dos Campo
NOW, THEREFORE, in consideration of Ten Dollars (\$10.00) and/or of which are hereby acknowledged, the said ASSIGNOR by these pr ASSIGNEE, its successors, assigns, and legal representatives, ASS America and all foreign countries, in and to the invention as describe subsequent applications based thereon including any and all continu all resulting patents, together with the right of priority under the Interr American Convention Relating to Patents, Designs and Industrial Mo States of America adheres, and the ASSIGNOR hereby authorizes a said Letters Patent to ASSIGNEE, for its interest as ASSIGNEE, its representative R.C. have as	esents hereby sells, assigns, and IGNOR'S entire right, title and int d in the aforesaid application, an ations, divisions, reissues, and so national Convention for the Prote- idels, and any other international and requests the Commissioner of successors, assigns, and legal re	I transfers unto the said erest in the United States of d to the said application and to all ubstitutes of said application, and ction of Industrial Property, Inter- agreements to which the United f Patents and Trademarks to issue presentatives. It is understood an

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:

ASSIGNEE with respect to this invention;

***************************************	7/1/2/2/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/1/		TANDON DO SONO
LEGAL NAME OF INVENTOR/JOINT INVENTOR:			
(E.g., Given Name (first a	and middle (if any)) and Family Name or Surna	me)	
Paulo	// Henrique	HASMANN	000000000000000000000000000000000000000
Inventor's Signature:		Date: JUNE 4th, 2018	

I/We 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	F*************************************	
	Attorney Docket Number	BHD-4439-280
	First Named Inventor	HASMANN, Paulo Henrique
INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTI USING AN APPLICATION DA		APPLICATION (37 CFR 1.63)
Declaration Submitted With Initial Filing	AIM SHEET (ST OFN 1.70)	
OR	" Po - e - d - d / (6) (6)	
Declaration Submitted After Initial Filing (surcharge (37 C.F	K. § 1.16(t)) required)	
FLYING BOOM MAST FOR MULTI-PURP	OSE AERIAL REFUELING	AIRCRAFT
(Title of the li	nvention)	
As a below named inventor, I hereby declare that:		
This declaration is directed to:		
☐ the attached application, or ☐ United States Application Number 15/994,032 filed May 31	2018 or	
PCT International application number filed on .	, ,	
The above-identified application was made or authorized to be made in	•	
I believe I am the original inventor or an original joint inventor of a clai	• •	
I hereby acknowledge that any willful false statement made in this dec by fine or imprisonment of not more than five (5) years, or both.	claration is punishable under 18	U.S.C. 1001
WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an	invention in the Application ider	ntified above.
WHEREAS, EMBRAER S.A. (hereinafter ASSIGNEE), an entity, having SP, Sāc Paulo, 12227-901, Brazil, is desirous of acquiring an interest	ng an office and place of busine of therein;	ess at 2170, São José dos Campos
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 an 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 s representatives, and without further remuneration, in and to any impro of or related to the said invention;		
ASSIGNOR hereby agrees to execute any papers by ASSIGNEE, its to ASSIGNEE'S full protection and title in and to the invention hereby		representatives, deemed essential
ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without ASSIGNEE, for the filing and granting of foreign applications and the		
AGREED and executed as noted below:		

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

Legal Name of Additional Joint Inventor, if any:

Inventor's Signature:

(E.g., Given Name (first and middle (if any)) and Family Name or Surname)

JUN 04, 2018

VINICIUS

Date:

REEL: 048933 FRAME: 0518

Sac code: Oath			
Recument Description: Oath or declaration filed	Attorney Docket Number	BHD-4439-280	
	First Named Inventor	HASMANN, Paulo Henrique	
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.	e 4 4¢(F)) required)		
		RCRAFT	
(Title of the Inver		}	
As a below named inventor, I hereby declare that:	,		
This declaration is directed to: ☐ the attached application, or ☐ United States Application Number 15/994,032 filed May 31, 2018, or ☐ PCT International application number filed on .			
The above-identified application was made or authorized to be made by m	ie.		
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 declara by fine or imprisonment of not more than five (5) years, or both.	tion is punishable under 18 U.S	S.C. 1001	
WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an inve	ntion in the Application identifie	ed above.	
WHEREAS, EMBRAER S.A. (hereinafter ASSIGNEE), an entity, having at - SP, São Paulo, 12227-901, Brazil, is desirous of acquiring an interest the		at 2170, São José dos Campos	
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 success to ASSIGNEE'S full protection and title in and to the invention hereby tran	essors, assigns, and legal repl sferred; and	resentatives, deemed essential	
ASSIGNOR hereby agrees, upon request of ASSIGNEE, and without furth ASSIGNEE, for the filing and granting of foreign applications and the perfe	ner remuneration, to execute as acting of title thereto in ASSIGN	ny and all papers desired by NEE.	
AGREED and executed as noted below:	***************************************	***************************************	
Legal Name of Additional Joint Inventor, if any: (E.g., Given Name (first and middle (if any)) and Family Name or Surnam	6)		
Gabriel Kendijy	KOIKE		

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

Date:

2018-06-04

Inventor's Signature:

	Joc cods: Oath Jocument Description: Oath er declaration filed			
		Attorney Docket Number	BHD-4439-280	
		First Named Inventor	HASMANN, Paulo Henrique	
	INVENTOR'S DECLARATION AND ASSIGNMENT FOR UTILITY USING AN APPLICATION DATA S Declaration Submitted With Initial Filing		PPLICATION (37 CFR 1.63)	
	OR Declaration Submitted After Initial Filing (surcharge (37 C.F.R. §	1.16(f)) required)		
	FLYING BOOM MAST FOR MULTI-PURPOSE	AERIAL REFUELING AI	RCRAFT	
	(Title of the Invention	on)		
1	As a below named inventor, I hereby declare that:			
	This declaration is directed to: the attached application, or United States Application Number 15/994,032 filed May 31, 2018, 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 in			
	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 invent	ion in the Application identific	ed above.	
	WHEREAS, EMBRAER S.A. (hereinafter ASSIGNEE), an entity, having an office and place of business at 2170, São José dos Campos - SP, São Paulo, 12227-901, Brazil, 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 are 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 Additional Joint Inventor, if any:			
(E.g., Given Name (first and middle (if any))	and Family Name or Surname)		
Cristian	Escobar	SANTIAGO	
Inventor's Signature:		Date:	
Inventor's Signature:		JUNE	474,2018

I/We 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 BHD-4439-280

First Named Inventor HASMANN Paulo Haprique

	First Named Inventor	HASMANN, Paulo Henrique	
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	, , , , , , , , , , , , , , , , , , , ,		
Declaration Submitted After Initial Filing (surcharge (37 C.F.R. §	1.16(f)) required)		
FLYING BOOM MAST FOR MULTI-PURPOSE	AERIAL REFUELING AI	RCRAFT	
(Title of the Invention	nn)		
As a below named inventor, I hereby declare that:			
This declaration is directed to: ☐ the attached application, or ☑ United States Application Number 15/994,032 filed May 31, 2018, 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 in	• •		
I hereby acknowledge that any willful false statement made in this declaration by fine or imprisonment of not more than five (5) years, or both.	n is punishable under 18 U.	S.C. 1001	
WHEREAS, the undersigned (hereinafter ASSIGNOR), has made an invent	on in the Application identifi	ed above.	
WHEREAS, EMBRAER S.A. (hereinafter ASSIGNEE), an entity, having an - SP, São Paulo, 12227-901, Brazil, is desirous of acquiring an interest them		at 2170, São José dos Campos	
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 Additional Joint Inventor, if any:			
(E.g., Given Name (first and middle (if any)) and Family Name or Surname) Rodrigo Pinto Moreira PIEDRAS			
Inventor's Signature:	Date		
The state of the s	m/m	4/ 2018	

I/We 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 BHD-4439-280
First Named Inventor HASMANN, Paulo Henrique

	First Named Inventor	HASMANN, Paulo Henrique
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)		
FLYING BOOM MAST FOR MULTI-PURPOSE AERIAL REFUELING AIRCRAFT		
(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 15/994,032 filed May 31, 2018, 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, EMBRAER S.A. (hereinafter ASSIGNEE), an entity, having an office and place of business at 2170, São José dos Campos - SP, São Paulo, 12227-901, Brazil, 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 Additional Joint Inventor, if any:		
(E.g., Given Name (first and middle (if any)) and Family Name or Surname)		
Reinaldo Pinto Dias Inventor's Signature: A A A A A	JUNIOR Date:	O
Kunlala WA Mix Am	04	jun 2018

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: 048933 FRAME: 0522

RECORDED: 04/18/2019