PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DOUGLAS H. VAN AFFELEN	06/22/2021
ARUN MULEY	06/25/2021
MICHAEL F. STOIA	06/22/2021

RECEIVING PARTY DATA

Name:	THE BOEING COMPANY
Street Address:	100 NORTH RIVERSIDE PLAZA
City:	CHICAGO
State/Country:	ILLINOIS
Postal Code:	60606-1596

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	17374860	

CORRESPONDENCE DATA

Fax Number: (503)972-9115

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: (503) 224-6655

Email:veronica@khpatent.comCorrespondent Name:KOLISCH HARTWELL, P.C.Address Line 1:520 SW YAMHILL STREET

Address Line 2: SUITE 300

Address Line 4: PORTLAND, OREGON 97204

ATTORNEY DOCKET NUMBER:	20-1329-US-NP (BOE3J1)
NAME OF SUBMITTER:	PIERRE C. VAN RYSSELBERGHE
SIGNATURE:	/Pierre C. Van Rysselberghe/
DATE SIGNED:	07/13/2021

Total Attachments: 3

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PATENT 506764340 REEL: 056843 FRAME: 0691

Booing Docker No.: 20-1329-US-NP

ASSIGNMENT

WHEREAS, Douglas H. Van Affelen, residing at Homington Beach, California, Aran Muley, residi	en as Can F	Annakani.
California, and Michael F. Stoia, residing at Raucho Santa Margarita, California (hereinafter	*Ammonia	i de de de la composición dela composición de la composición de la composición de la composición de la composición dela composición de la composición de la composición dela composición dela composición de la composición dela composición de la composición dela composición dela compo
invened certain new and useful inventions and improvements (beneinable "Invention") describe	a configuration	y 300000 Y
States patient application entitled HEAT TRANSFER DEVICE WITH NESTED LAYERS OF HI	53 300 5000€ €	/2228082
CHANNIS COUNTY AND	unal F	LUID
CHANNELS for which Assigned is making or has made application for LETTERS PATENT OF	THE UN	med
STATES, which applications has been duly executed by Assigner concurrently herewist	i or No	d on
July 13, 2021 17/374,860		

WHEREAS. The Boeing Company, a corporation organized and existing under the laws of the State of Delaware, USA, having a place of business at 100 North Riverside Place, Chicago, Illinois 60608-1596, USA (hereinafter called "the Assignee"), is desirous of acquiring the entire right, title and interest in and to the invention within the United States of Asserica and in territorial possessions and all foreign countries, and in and to any United States or foreign LETTERS PATENT that may be granted therefor:

NOW, THEREFORE, for growl and valuable consideration, the receipt of which is hereby acknowledged, Assignor has assigned, sold and transferred, and does assign, sell and transfer to the Assigner, its successors and assigns, its entire right, title and interest in and to the Invention within the United States of America and its territorial pressentions and all foreign countries, and in and to any LETTERS PATENT of the United States and foreign countries, including willity models, inventor's certificates and like government grants that may be granted for any and all portions thereof, and in and to the patent application identified above and applications for patent filled for the Invention in all foreign countries and all provisional, divisional, reissue, continuation, continuation in-part applications and extensions of any of the applications for potent or LETTERS PATENT identified herein, including all applications claiming the priority of said applications for patent or LETTERS PATENT identified herein, and the right to apply for LETTERS PATENT in foreign countries with field benefit of such priorities as may now or bereafter be gramed to Assigner by local laws or by treaty, including any international convention, for the protection of industrial property, together with the right to extend the protection of the United States LETTERS PATENT to the various territorial processions now owned or which may be becauter acquired by the United States of America. Assigned will hold all rights for its own use and benefit and for the use and benefit of its successors or assigns to the full end of the term for which the LETTERS PATENT usry be granted, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. Assignor requests and authorizes the Commissioner of the U.S. Patent and Trademark Office, and foreign counterpart officials of foreign patent offices, to issue respective LETTERS PATENT in the United States and fencion countries when granted, in accordance with this assignment

Assigner further covenants and agrees with the Assigner that Assigner has a full and measurabered ritle to the Assigner's interest in the Invention, which tale Assigner warrants to the Assigner. Assigner further agrees that Assigner will, without demanding any factor consideration therefor, as the request and expense of the Assigner, do all lawful and just acts, including the execution and acknowledgment of instruments, that may be or become accessary for obtaining, sustaining, extending, reinsuing or recommining United States and foreign LETTERS PATENT or the like for the Invention, and for maintaining and perfecting the Assigner's right to the Invention and LETTERS PATENT particularly in cases of interference conflict, opposition and linguistics.

Assignment authorizes and directs any of the asturneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the first paragraph of this Assignment.

Y	. I.a. I	gament on the date specified below. Area Muley	<u> Nuu</u>
Mixtuel F. Stero	Date:		

Boeing Docket No.: 20-1329-US-NP

ASSIGNMENT

7.828.63.77
WHEREAS, Douglas H. Van Affelen, residing at Huntington Beach, California, Arun Muley, residing at San Pedro California, and Michael F. Stoia, residing at Bancho Santa Margarita, California (hereinafter "Assignor") has invented certain new and useful inventions and improvements (hereinafter "Invention") described in the United States patern application entitled HEAT TRANSFER DEVICE WITH NESTED LAYERS OF HELICAL FLUID CHANNELS for which Assignor is making or has made application for LETTERS PATENT OF THE UNITED STATES, which application has been duly executed by Assignor concurrently herewith; or filed on July 13, 2021 as Application No. 17/374,860
WHEREAS, The Boeing Company, a corporation organized and existing under the laws of the State of Delaware, USA, having a place of business at 100 North Riverside Plaza, Chicago, Illinois 60606-1596, USA (hereinafter called "the Assignee"), is desirous of acquiring the entire right, title and interest in and to the Invention within the United States of America and its territorial possessions and all foreign countries, and in and to any United States or foreign LETTERS PATENT that may be granted therefor;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, Assignor has assigned, sold and transferred, and does assign, sell and transfer to the Assignee, its successors and assigns, its entire right, title and interest in and to the Invention within the United States of America and its territorial possessions and all foreign countries, and in and to any LETTERS PATENT of the United States and foreign countries, including utility models, inventor's certificates and like government grants that may be granted for any and all portions thereof, and in and to the patent application identified above and applications for patent filed for the Invention in all foreign countries and all provisional, divisional, reissue, continuation, continuation-in-part applications and extensions of any of the applications for patent or LETTERS PATENT identified herein, including all applications claiming the priority of said applications for patent or LETTERS PATENT identified herein, and the right to apply for LETTERS PATENT in foreign countries with full benefit of such priorities as may now or hereafter be granted to Assignor by local laws or by treaty, including any international convention, for the protection of industrial property, together with the right to extend the protection of the United States LETTERS PATENT to the various territorial possessions now owned or which may be hereafter acquired by the United States of America. Assignee will hold all rights for its own use and benefit and for the use and benefit of its successors or assigns to the full end of the term for which the LETTERS PATENT may be granted, as fully and entirely as the same would have been held and enjoyed by Assignor if this assignment and sale had not been made. Assignor requests and authorizes the Commissioner of the U.S. Patent and Trademark Office, and foreign counterpart officials of foreign patent offices, to issue respective LETTERS PATENT in the United States and foreign countries when granted, in accordance with this assignment.

Assignor further covenants and agrees with the Assignee that Assignor has a full and unencumbered title to the Assignor's interest in the Invention, which title Assignor warrants to the Assignee. Assignor further agrees that Assignor will, without demanding any further consideration therefor, at the request and expense of the Assignee, do all lawful and just acts, including the execution and acknowledgment of instruments, that may be or become necessary for obtaining, sustaining, extending, reissuing or reexamining United States and foreign LETTERS PATENT or the like for the Invention, and for maintaining and perfecting the Assignee's right to the Invention and LETTERS PATENT particularly in cases of interference conflict, opposition and litigation.

Assignor authorizes and directs any of the attorneys responsible for prosecuting the subject application on behalf of the ASSIGNEE to insert the application number and filing date of the subject application in the first paragraph of this Assignment.

IN TESTIMONY WHEREOF, I have signed this Assignment on the date specified below. Aug. 25 June 3			
Douglas H. Van Affelen	Date	Arun Muley	Date
Michael F. Stola	Date		

PATENT REEL: 056843 FRAME: 0693

Boeing Docket No.: 20-1329-US-NP

ASSIGNMENT

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WHEREAS, Douglas H. Van Affeld California, and Michael F. Stoia, invented certain new and useful in States patent application entitled H CHANNELS for which Assignor is STATES, which application has July 13, 2021	residing at Ran eventions and in EAT TRANSFI making or has been duly c	ncho Santa Margarita, Califor nprovements (hereinafter "Inv ER DEVICE WITH NESTED made application for LETTE	nia (hereinafter "Assignor") has ention") described in the United LAYERS OF HELICAL FLUID IRS PATENT OF THE UNITED arrently herewith; or filed on
WHEREAS, The Boeing Company USA, having a place of business a called "the Assignee"), is desirous United States of America and its te foreign LETTERS PATENT that m	at 100 North Ri of acquiring the ritorial possessi	verside Plaza, Chicago, Illino entire right, title and interest i ons and all foreign countries, a	is 60606-1596, USA (hereinafter in and to the Invention within the
NOW, THEREFORE, for good are has assigned, sold and transferred, entire right, title and interest in possessions and all foreign countricountries, including utility models, and all portions thereof, and in and Invention in all foreign countries applications and extensions of any all applications claiming the priorit right to apply for LETTERS PAThereafter be granted to Assignor by of industrial property, together with the various territorial possessions of Assignee will hold all rights for its full end of the term for which the Libeen held and enjoyed by Assignor the Commissioner of the U.S. Paroffices, to issue respective LETT accordance with this assignment.	and does assign, and to the Inveites, and in and inventor's certito the patent application of said application of the right to exown use and bearters pate if this assignment and Tradent	sell and transfer to the Assignation within the United State to any LETTERS PATENT of ficates and like government grolication identified above and a isional, divisional, reissue, cans for patent or LETTERS PAtions for patent or LETTERS patent or LETTER	nee, its successors and assigns, its es of America and its territorial of the United States and foreign rants that may be granted for any pplications for patent filed for the ontinuation, continuation—in-part TENT identified herein, including ATENT identified herein, and the f such priorities as may now or mal convention, for the protection ed States LETTERS PATENT to by the United States of America. of its successors or assigns to the d entirely as the same would have Assignor requests and authorizes terpart officials of foreign patent
Assignor further covenants and ag Assignor's interest in the Inventio Assignor will, without demanding a all lawful and just acts, including necessary for obtaining, sustainin PATENT or the like for the Inventi LETTERS PATENT particularly in	n, which title A uny further consi the execution g, extending, re on, and for main	assignor warrants to the Assignor warrants to the request and acknowledgment of instractions or reexamining Unite training and perfecting the Assignation of the Assi	nee. Assignor further agrees that and expense of the Assignee, do uments, that may be or become of States and foreign LETTERS signee's right to the Invention and
Assignor authorizes and directs any the ASSIGNEE to insert the applicathis Assignment.			
IN TESTIMONY WHEREOF, 1 ha	ve signed this A	ssignment on the date specified	l below.
Douglas H. Van Affelen	Date	Arun Muley	Date
merst	6/22/202		
Michael F. Stoia	Date		

RECORDED: 07/13/2021

PATENT REEL: 056843 FRAME: 0694