# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7486454

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
JONATHAN YOUNG AHN	07/20/2022
CHRISTOPHER ROBERT BROWN	07/13/2022
RICARDO ANDREAS FRITZKE	07/14/2022
SHUONAN DONG	07/13/2022
BONNIE ANN KEEFE	07/28/2022
JONATHAN ALEJANDRO SANTIAGO	08/12/2022

## **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:	17888381

## **CORRESPONDENCE DATA**

Fax Number: (503)224-7329

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: 5032247529 Email: annelise@dgip.law

DASCENZO GATES INTELLECTUAL PROPERTY LAW, P.C. **Correspondent Name:** 

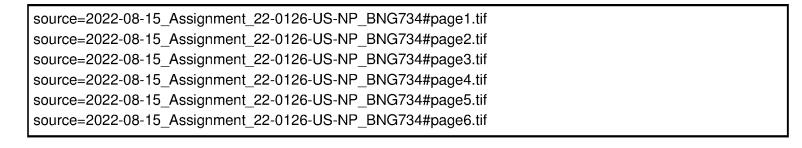
Address Line 1: 1000 SW BROADWAY, STE 1555 Address Line 4: PORTLAND, OREGON 97205

ATTORNEY DOCKET NUMBER:	22-0126-US-NP (BNG 734)
NAME OF SUBMITTER:	IAN D. GATES
SIGNATURE:	/lan D. Gates/
DATE SIGNED:	08/15/2022

**Total Attachments: 6** 

**PATENT** REEL: 060812 FRAME: 0390

507439542



PATENT REEL: 060812 FRAME: 0391

# ASSIGNMENT

WHEREAS, Jonathan Young Ahn, residing at Scattle, Wa Washington, Ricardo Andreas Fritzke, residing at Samma Washington, Bonnie Ann Keefe, residing at Everett, Washington (hereinafter "Assignors"), have invented certain "Invention") described in the United States patent application STRINGERS AND RELATED METHODS for which Assig PATENT OF THE UNITED STATES, which application has filed on as Application No.	mish. Washington, Shuonan D gton, and Jonathan Alejandro Sal new and useful inventions and entitled MAGNETIC HANDLIN nors are making or have made been duly executed by Assignors	ong, residing at Scattle, stiago, residing at Scattle, improvements (hereinafter NG SYSTEMS FOR HAT application for LETTERS
WHEREAS, The Boeing Company, a corporation organized a having a place of business at 100 North Riverside Plaza, Chicag Riverside Plaza, Chicago, Illinois 60606-1596, USA (hereinafteright, title and interest in and to the Invention within the Unit foreign countries, and in and to any United States or foreign LE	to, Illinois 60606-1596, with a ma er called "the Assignee"), is desir ed States of America and its terr	oling address of 100 North ous of acquiring the entire itorial possessions and all
NOW, THEREFORE, for good and valuable consideration, the assigned, sold and transferred, and do assign, sell and transferritile and interest in and to the Invention within the United State countries, and in and to any LETTERS PATENT of the United State countries, and in and to any LETTERS PATENT of the United State application identified above and applications for pater provisional, divisional, reissue, continuation, continuation—in-patent or LETTERS PATENT identified herein, including all patent or LETTERS PATENT identified herein, and the right full benefit of such priorities as may now or hereafter be granticentational convention, for the protection of industrial proper United States LETTERS PATENT to the various territorial post the United States of America. Assignee will hold all rights for successors or assigns to the full end of the term for which the Latter same would have been held and enjoyed by Assignors if this and authorize the Commissioner of the U.S. Patent and Tradipatent offices, to issue the respective LETTERS PATENT in accordance with this assignment.	to the Assignee, its successors are of America and its territorial parted States and foreign countries, granted for any and all portions of filed for the Invention in all part applications and extensions of applications claiming the priorit to apply for LETTERS PATENT and to Assignors by local laws corry, together with the right to expense on the country of the priority of the country of the priority of the priority together with the right to expense on the country of the priority of the p	ad assigns, the entire right, possessions and all foreign including utility models, thereof, and in and to the foreign countries and all any of the applications for by of said applications for in foreign countries with or by treaty, including any tend the protection of the y be hereafter acquired by the use and benefit of its ed, as fully and entirely as a made. Assignors request erpart officials of foreign
Assignors further covenant and agree with the Assignee that As which title Assignors warrant to the Assignee. Assignors furth consideration therefor, at the request and expense of the Assignacknowledgment of instruments, that may be or become ne reexamining United States and foreign LETTERS PATENT perfecting the Assignee's right to the Invention and LETTER opposition and litigation.	er agree that Assignors will, with nee, do all lawful and just acts, in cessary for obtaining, sustaining or the like for the Invention,	out demanding any further scluding the execution and g, extending, reissuing or and for maintaining and
Assignors authorize and direct any of the attorneys responsib Assignee to insert the application number and filing date of the		
IN TESTIMONY WHEREOF, I/We have signed this Assignme	nt on the date specified below.	
Touding Young Ann Date	Christopher Robert Brown	Date
Ricardo Andreas Fritzke Date	Shuonan Dong	Date

Page 1 of 2 – ASSIGNMENT

22-0126-US-NP (BNG 734)

## ASSIGNMENT

Ricardo Andreas Fritzke	Date	Shuonan Dong	Date
		·	
Jonathan Young Ahn	Date	Christopher Robert Brown	7/13/2 2 Date
IN TESTIMONY WHEREO	F, I/We have signed this	Assignment on the date specified below	٧.
vasiënee in meett me abbiica	non number and ming c	responsible for prosecuting the subject late of the subject application in the first	t paragraph of this Assignment,
which the Assignors warran consideration therefor, at the acknowledgment of instrum reexamining United States perfecting the Assignee's ri- opposition and litigation.	t to the Assignee. Assignee to the Assignees of request and expense of ents, that may be or I and foreign LETTERS ght to the Invention an	nee that Assignors have a full and unen- gnors further agree that Assignors will, I the Assignee, do all lawful and just ac become necessary for obtaining, susta PATENT or the like for the Invent ad LETTERS PATENT particularly in	without demanding any further its, including the execution and dining, extending, reissuing or tion, and for maintaining and cases of interference conflict,
right, title and interest in ar foreign countries, and in and NOW, THEREFORE, for assigned, sold and transferre title and interest in and to the countries, and in and to an inventor's certificates and lipatent application identified provisional, divisional, reissipatent or LETTERS PATEN patent or LETTERS PATEN full benefit of such prioritie international convention, for United States LETTERS PATEN United States of Americ successors or assigns to the tithe same would have been he and authorize the Commissi	imois 60606-1596, USA and to the Invention with to any United States or good and valuable consist, and do assign, sell as the Invention within the Y LETTERS PATENT ke government grants the above and application ue, continuation, continuation, continuation of industrial the protection of the various terms. Assignee will hold a full end of the term for seld and enjoyed by Assigner of the U.S. Paten respective LETTERS P.	A (hereinafter called "the Assignee"), is an the United States of America and it foreign LETTERS PATENT that may be ideration, the receipt of which is hereby not transfer to the Assignee, its successed United States of America and its territor of the United States and foreign court hat may be granted for any and all portus for patent filed for the Invention is action—in-part applications and extensional cluding all applications claiming the part of the right to apply for LETTERS PATERS the granted to Assignors by local is strial property, together with the right ritorial possessions now owned or which all rights for its own use and benefit and which the LETTERS PATENT may be gnors if this assignment and sale had not and Trademark Office, and foreign of ATENT in the United States and foreign and all the sale had not and Trademark Office, and foreign of ATENT in the United States and foreign.	desirous of acquiring the entire is territorial possessions and all be granted therefor;  acknowledged, Assignors have ors and assigns, the entire right, which possessions and all foreign stries, including utility models, tions thereof, and in and to the null foreign countries and all ns of any of the applications for firm of any of the applications for firm or by treaty, including any to extend the protection of the ham had be hereafter acquired by the difference of the use and benefit of its granted, as fully and entirely as theen made. Assignors request counterpart officials of fireign
naving a place of business at	i 100 North Riverside Pl	organized and existing under the laws laza, Chicago, Illinois 60606-1596, with	a mailing address of 100 North
Washington, Ricardo And Washington, Bonnie Ann F Washington (hereinafter "A "Invention") described in the STRINGERS AND RELATED PATENT OF THE UNITED	reas Fritzke, residing leefe, residing at Evere lesignors"), have invent to United States patent IED METHODS for w D STATES, which appli	Seattle, Washington, Christopher Robe at Sammamish. Washington, Shuonett, Washington, and Jonathan Alejandred certain new and useful inventions application entitled MAGNETIC HAN which Assignors are making or have a lication has been duly executed by Assignor.	an Dong, residing at Seattle to Santiago, residing at Seattle and improvements (hereinafter IDLING SYSTEMS FOR HAT hade application for LETTERS
		A ALL SAN TO SAN TO SAN TO THE	

Page 1 of 2 - ASSIGNMENT

22-0126-US-NP (BNG 734)

	ASSIGNMENT
	WHEREAS, Jonathan Young Ahn, residing at Seattle, Washington, Christopher Robert Brown, residing at Seattle Washington, Ricardo Andreas Fritzke, residing at Sammamish. Washington, Shuonan Dong, residing at Seattle Washington, Bonnie Ann Keefe, residing at Everett, Washington, and Jonathan Alejandro Santiago, residing at Seattle Washington (hereinafter "Assignors"), have invented certain new and useful inventions and improvements (hereinafte "Invention") described in the United States patent application entitled MAGNETIC HANDLING SYSTEMS FOR HASTRINGERS AND RELATED METHODS for which Assignors are making or have made application for LETTERS PATENT OF THE UNITED STATES, which application has been duly executed by Assignors concurrently herewith; of filed on
	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, with a mailing address of 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, Assignors hav assigned, sold and transferred, and do assign, sell and transfer to the Assignee, its successors and assigns, 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 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 to 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 Assignors by local laws or by treaty, including an 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 it successors or assigns to the full end of the term for which the LETTERS PATENT may be granted, as fully and entirely a the same would have been held and enjoyed by Assignors if this assignment and sale had not been made. Assignors reques and authorize the Commissioner of the U.S. Patent and Trademark Office, and foreign counterpart officials of foreign patent offices, to issue the respective LETTERS PATENT in the United States and foreign countries when granted, in accordance w
	Assignors further covenant and agree with the Assignee that Assignors have a full and unencumbered title to the Invention which title Assignors warrant to the Assignee. Assignors further agree that Assignors 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.
	Assignors authorize and direct 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 WHERBOF, I/We have signed this Assignment on the date specified below.
	Jonathan Young Ahn Date Christopher Robert Brown Date
P.	Ricardo Andreas Fritzke Date Shuonan Dong Date
	National Section Secti

Page 1 of 2 - ASSIGNMENT

22-0126-US-NP (BNG 734)

	A3316	IN INSENIA B		
WHEREAS, Jonathan Young A Washington, Ricardo Andreas Washington, Bonnie Ann Keefe, Washington (hereinafter "Assign "Invention") described in the Un STRINGERS AND RELATED PATENT OF THE UNITED STA filed on	Fritzke, residing at Sam, residing at Everett, Wash nors"), have invented certanited States patent application METHODS for which As ATES, which application h	mamish. Washington, Sh nington, and Jonathan Alej in new and useful inventi ion entitled MAGNETIC I signors are making or hav as been duly executed by a	uonan Dong andro Santia; ons and imp HANDLING ve made appl	;, residing at Seattle, go, residing at Seattle, rovements (hereinafter SYSTEMS FOR HAT lication for LETTERS
WHEREAS, The Boeing Comparing a place of business at 100 Riverside Plaza, Chicago, Illinois right, title and interest in and to foreign countries, and in and to as	North Riverside Plaza, Chi s 60606-1596, USA (herein the Invention within the U	cago, Illinois 60606-1596, after called "the Assignee" Inited States of America a	with a mailin '), is desirous nd its territor	g address of 100 North of acquiring the entire rial possessions and all
NOW, THEREFORE, for good assigned, sold and transferred, at title and interest in and to the Incountries, and in and to any LE inventor's certificates and like gipatent application identified aborovisional, divisional, reissue, content or LETTERS PATENT is patent or LETTERS PATENT is full benefit of such priorities as international convention, for the United States LETTERS PATEN the United States LETTERS PATEN the United States of America. A successors or assigns to the full and authorize the Commissioner patent offices, to issue the respectance with this assignment.	nd do assign, sell and trans vention within the United STTERS PATENT of the overnment grants that may be and applications for pontinuation, continuation—in dentified herein, including dentified herein, and the right may now or hereafter be protection of industrial professioner will hold all right end of the various territorial kssignee will hold all right and of the term for which the denjoyed by Assignors if of the U.S. Patent and Tective LETTERS PATENT	fer to the Assignee, its such states of America and its to United States and foreign be granted for any and all atent filed for the Invention-part applications and external applications claiming that to apply for LETTERS granted to Assignors by looperty, together with the repossessions now owned or to for its own use and benefits assignment and sale has reademark Office, and fore	cessors and a crritorial possion tries, in- I portions the ion in all for the priority of PATENT in call laws or bright to exten which may be granted, ad not been meign counterp	essigns, the entire right, sessions and all foreign cluding utility models, treof, and in and to the reign countries and all of the applications for foreign countries with the protection of the hereafter acquired by e use and benefit of its as fully and entirely as tade. Assignors request ant officials of foreign
Assignors further covenant and a which title Assignors warrant to consideration therefor, at the requestion acknowledgment of instruments reexamining United States and perfecting the Assignee's right opposition and litigation.	the Assignee. Assignors figurest and expense of the Assign that may be or become foreign LETTERS PATE	orther agree that Assignors signee, do all lawful and ju necessary for obtaining, INT or the like for the I	will, without ust acts, inclu sustaining, c nvention, an	demanding any further iding the execution and extending, refssuing or d for maintaining and
Assignors authorize and direct a Assignee to insert the application	any of the attorneys respon number and filing date of	isible for prosecuting the t the subject application in th	subject applic e first paragr	cation on behalf of the aph of this Assignment
IN TESTIMONY WHEREOF, I	We have signed this Assign	nment on the date specified	below.	
Jonathan Young Ahn	Date	Christopher Robert B	srows i	Date
Ricardo Andreas Fritzke	Date	Shuonan Dong		Date

22-0126-US-NP (BNG 734)

Bomie	an .		_07/2012_		
Bonnie Ann Kee	fe	Date		Ionathan Aleiandro Santiago	Date

			****	*****	,,,,,,,	,,,,,,	,,,,,,,,	,,,,,,,		$\cdots$	****					•••••						 	****				*****				 
			****	****	*****		,,,,,,	,,,,,,,	*****		*****											 					*****	*****			
			****		*****	*****	2000	,,,,,,	*****		****																				
			****		*****		,,,,,,,	,,,,,,	****	****	****																				
					***	***		****	***			 *****	*****				****		******	*****											
								***				 *****	*****				****			*****											
Ni.	13.											 *****	*****				****		******	*****									W.		
W.	ii.											 *****	*****				****		******	*****		W.		**					W.		
W												 *****	*****				****		******	*****				**					W.		
111				i.								 *****	*****									W		*					W,		
W	ij,			Ŵ																	1	X							×.		
	1			W																¥	1								×.		
W	W	ú		w			ä													¥	1	X							٧,		
w	111	ú		W			, ii								i.					8	1								×		
**	*	ú		w		W	, ii								i.					8	1						8		×.		
w	W	Ň		W		W	×								i.					8	1		i k						×		
**	W	ú		w			, K								i.					8	1	X	ĸ,				8		×		
W	W	i i		W			i N								i.					8	1		i e				8				
w	N.	i.		w										ij,	le.						¥.	 X : ( )	33.5	X.			8		*	i.	
W	i i	i i		w		X.								ij,	le.						¥.	 X : ( )	33.5	X.			8		×	i.	
W	**	W		W	¥,	X.								ij,	le.						¥.	 X : ( )	33.5							i.	
**	*	i i		w		X.								ij,	le.						¥.	 X : ( )	33.5	A.		i i	8		×		
	**	N.		w		X.								ij,	le.						¥.	 X : ( )	33.5	ĸ.		N.	8		×.		
	**	ù		w		×								ij,	le.						¥.	 X : ( )	33.5	ĸ.		W.	8				
**	**	i i		W		×								ij,	le.						¥.	 X : ( )	33.5	ŧ.		i i	8		×	i.	