505932575 02/24/2020

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5979293

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DAVID HOWARD CURRY III	02/19/2020
DAVID RAINES	02/20/2020
SCOTT L. SMOTHERMAN	02/20/2020
PAUL GABRIEL WERNTGES	02/19/2020
DENNIS RAY MATHIS	02/20/2020
CHARLIE E. BRANYON III	02/21/2020
DANIEL B. FREEMAN	02/20/2020

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:	16798220

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.com

Correspondent 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:	18-3687-US-NP (BOE3F2)
NAME OF SUBMITTER:	EDWARD B. ANDERSON
SIGNATURE:	/Edward B Anderson/
DATE SIGNED:	02/24/2020

505932575 PATENT REEL: 052005 FRAME: 0208

Total Attachments: 12 source=20200221_1_Executed_Assignment_Curry_with_Serial_No_18_3687_US_NP_BOE3F2#page1.tif source=20200221_1_Executed_Assignment_Curry_with_Serial_No_18_3687_US_NP_BOE3F2#page2.tif source=20200221_2_Executed_Assignment_Raines_Smotherman_with_Serial_No_18_3687_US_NP_BOE3F2#page1.source=20200221_2_Executed_Assignment_Raines_Smotherman_with_Serial_No_18_3687_US_NP_BOE3F2#page1.tif source=20200221_3_Executed_Assignment_Werntges_with_Serial_No_18_3687_US_NP_BOE3F2#page1.tif source=20200221_3_Executed_Assignment_Werntges_with_Serial_No_18_3687_US_NP_BOE3F2#page1.tif source=20200221_4_Executed_Assignment_Mathis_with_Serial_No_18_3687_US_NP_BOE3F2#page1.tif source=20200221_5_Executed_Assignment_Branyon_with_Serial_No_18_3687_US_NP_BOE3F2#page1.tif source=20200221_5_Executed_Assignment_Branyon_with_Serial_No_18_3687_US_NP_BOE3F2#page2.tif source=20200221_6_Executed_Assignment_Branyon_with_Serial_No_18_3687_US_NP_BOE3F2#page2.tif source=20200221_6_Executed_Assignment_Branyon_with_Serial_No_18_3687_US_NP_BOE3F2#page2.tif

source=20200221_6_Executed_Assignment_Freeman_with_Serial_No_18_3687_US_NP_BOE3F2#page2.tif

PATENT REEL: 052005 FRAME: 0209

ASSIGNMENT

WHEREAS, David Howard Curry III, residing at Mount Pleasant, South Carolina, David Raines, residing at
Scott L. Smotherman, residing at $\hat{\mathbf{p}}_{a,i}$
Amore: Werniges, residing at Charleston, South Carolina, Dennis Ray Mathis, residing at Charleston, South
Carolina, Charlie E. Branyon III, residing at and Daniel R. Freedom, residing
at Loose Creek, South Carolina (heremafter "Assignor") has invented certain ness and useful inventions and
improvements (hersinafter "Invention") described in the United States patent application outlided ASSEMBLY
TOOL FOR FUSELAGE STRUCTURE SPLICE for which Assigned to making or has made application for
LETTERS PATENT OF THE UNITED STATES, which application has been duly executed by Assistant
LETTERS PATENT OF THE UNITED STATES which application has been duly executed by Assignor Soncurrently because it is filed on February 21, 2020 as Application No.
16/798,220

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 Assignce"), 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 willry 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 bereafter 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. Assignce will hold all rights for its own use and benefit and for the use and benefit of its successors or assigns to the full and 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 coverants 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 Greign 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 hitigation.

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.

PANDYERESZ	e signed this Ass	gament on the date specific	od bolow.
Sand Howard Curry III		David Raines	Nata -
	3,100,0	rous an estamen	156806.

Page 1 of 2 - Assignment - Docket No. 18-3687-US-NP

Scott L. Smotherman	Date			
Dennis Ray Mathis	Osse	Charlie E. Branyon III	Date	
Daniel B. Freeman	Date			

Page 2 of 2 - Assignment - Docket No. 18-3687-US-NP

PATENT REEL: 052005 FRAME: 0211

ASSIGNMENT

WHEREAS, David Howard Curry III, residing at Mount Pleasant, South Carolina, David Raines, residing at
HUNTSVILLE, AL. Scott L. Smotherman, residing at HUUTSVILLE; AL. Paul
Gabriel Werntges, residing at Charleston, South Carolina, Dennis Ray Mathis, residing at Charleston, South
Carolina, Charlie E. Branyon III, residing at, and Daniel B. Freeman, residing
at Goose Creek, South Carolina (hereinafter "Assignor") has invented certain new and useful inventions and
improvements (hereinafter "Invention") described in the United States patent application entitled ASSEMBLY
TOOL FOR FUSELAGE STRUCTURE SPLICE 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 berewith or filed on February 21, 2020 as Analication No.
16/798,220

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. Assignce 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 unencombered 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 /	rssignment on the date up	ecified below.	2/20/	2020
David Howard Curry III	Date	David Raines	in trimmelle for	Date	

SAHS	4440		
Scott L. Smotherman	Date	Paul Gabriel Werntges	Date
Dennis Ray Mathis	Date	Charlie E. Branyon III	Date
Daniel B. Freeman	Date		

	ASSI	GNMENT		
WHEREAS, David Howard Curry I	Scott L. Smothe	rman, residing at		, Paul
Gabriel Werniges, residing at Charle Carolina, Charlie E. Branyon III, resid at Goose Creek, South Carolina (her improvements (hereinafter "Invention TOOL FOR FUSELAGE STRUCTL LETTERS PATENT OF THE UNIconcurrently herewith; or find 16/798,220 ;	eston, South Ca ing at reinafter "Assig ") described in JRE SPLICE fo TED STATES,	rolina, Dennis Ray Mai nor") has invented certa the United States paten or which Assignor is mi which application has	this, residing at C , and Daniel B. F uin new and usefu it application entit aking or has made been duly execut	Charleston, South Freeman, residing I inventions and led ASSEMBLY application for led by Assignor
WHEREAS, The Boeing Company, a USA, having a place of business at called "the Assignee"), is desirous of United States of America and its territoreign LETTERS PATENT that may	100 North River acquiring the en orial possessions	side Plaza, Chicago, Illii tire right, title and interes and all foreign countries	nois 60606-1596, I st in and to the Inv	USA (hereinafter ention within the
NOW, THEREFORE, for good and y has assigned, sold and transferred, and entire right, title and interest in and possessions and all foreign countries, countries, including utility models, in and all portions thereof, and in and to Invention in all foreign countries applications and extensions of any of tall applications claiming the priority of right to apply for LETTERS PATEN hereafter be granted to Assignor by loc of industrial property, together with the various territorial possessions now Assignee will hold all rights for its ow full end of the term for which the LET been held and enjoyed by Assignor if the Commissioner of the U.S. Patent offices, to issue respective LETTER accordance with this assignment.	I does assign, se to the Invention, and in and to ventor's certificate and all provisions of said applications of said applications of said applications of the right to extend out of the county of the said and the county of the right of the right and the county of the	Il and transfer to the Assion within the United Stany LETTERS PATEN any LETTERS PATEN attention identified above and inal, divisional, reissue, for patent or LETTERS Pas for patent or LETTERS puntries with full benefit aty, including any internad the protection of the U amay be hereafter acquir t and for the use and benemay be granted, as fully and sale had not been may to Office, and foreign con	ignee, its successor ates of America a F of the United St grants that may be a pullications for pullications for pullications for pullications for pullications for pullicational convention, nited States LETTI ed by the United States and entirely as the de. Assignor requesunterpart officials of the United States the continuation of the United States and entirely as the de. Assignor requesunterpart officials of the United States and entirely as the de. Assignor requesunterpart officials	s and assigns, its and its territorial tates and foreign a granted for any atent filed for the atinuation—in-part herein, including a herein, and the as may now or for the protection ERS PATENT to tates of America or assigns to the same would have its and authorizes of foreign patent
Assignor further covenants and agree Assignor's interest in the Invention, 'Assignor will, without demanding any all lawful and just acts, including the necessary for obtaining, sustaining, PATENT or the like for the Invention, LETTERS PATENT particularly in care	which title Assi further consider in execution and extending, reiss , and for maintai	gnor warrants to the Ass ation therefor, at the requi acknowledgment of in uing or reexamining Un ning and perfecting the A	signee. Assignor fullest and expense of struments, that mainted States and followingnee's right to the signee's right to the struck of the str	orther agrees that the Assignee, do by be or become preign LETTERS
Assignor authorizes and directs any of the ASSIGNEE to insert the application this Assignment.				
IN TESTIMONY WHEREOF, I have	signed this Assig	nment on the date specifi	ed below.	
David Howard Curry III	Date	David Raines	Dai	(e ·

Page 1 of 2 - Assignment - Docket No. 18-3687-US-NP

Scott L. Smotherman	Date	Paul Gabriel Werntges	2/19/2020 Date
Dennis Ray Mathis	Date	Charlie E. Branyon III	Date
Daniel B. Freeman	Date		

ASSIGNMENT

Application .
WHEREAS, David Howard Curry III, residing at Mount Pleasant, South Carolina, David Raines, residing at Scott I. Smotherman, residing at Gabriel Werniges, residing at Charleston, South Carolina, Dennis Ray Mathis, residing at Charleston, South Carolina, Charlie E. Branyon III, residing at and Daniel B. Freeman, residing at Goose Creek, South Carolina (hereinafter "Assignor") has invented certain new and useful inventions and improvements (hereinafter "Invention") described in the United States patent application entitled ASSEMBLY TOOL FOR FUSELAGE STRUCTURE SPLICE 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 February 21, 2020 as Application No. 16/798,220
WHEREAN. 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 Assignce"), 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 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 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 he 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 countries when granted, in accordance with this assignment.
Assignor further covenants and agrees with the Assignee that Assignor has a full and unencumbered filte 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 lingation.
the ASSIGNEE to insert the application number and filing date of the subject application in the first paragraph of
18 TESTIMONY WHEREOF, I have signed this Assignment on the date specified below.
David Howard Curry [f] David Raines Date
N .

Page 1 of 2 - Assignment - Docket No. 18-3687-US-NP

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- / J. // NY //W/ X X X X X X	ate
Dennis Ray Majiks Date Charlie E. Branyon III L	
Daniel B. Freeman Date	

ASSIGNMENT

WHEREAS, David Howard Curry III, residing at Mount Pleasant, South Carolina, David Raines, residing at Scott L. Smotherman, residing at
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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 accordanc
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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.
David Howard Curry III Date David Raines Date

Page 1 of 2 - Assignment - Docket No. 18-3687-US-NP

Scott L. Smotherman	Date	Paul Gabriel Wemtges	Date
		161/4	2/1/1/20
Dennis Ray Mathis	Date	Charlie E. Branyon III	Date
Paniel R. Freeman	Disto		

ASSIGNMENT

	* ***********		
WHEREAS, David Howard Curry III Sometimes of the Carolina, Charles of Carolina, Charlie E. Branyon III, residing at Goose Creek, South Carolina (here improvements (hereinafter "Invention") TOOL FOR FUSELAGE STRUCTUR LETTERS PATENT OF THE UNIT concurrently herewith; or file 16/798,220	cott L. Smotherr ton, South Carc g at inafter "Assigno described in the E SPLICE for ED STATES, s	nan, residing at Jina, Dennis Ray Mathis, "") has invented certain to be United States patent app which Assignor is making which application has been	Paul residing at Charleston, South and Daniel B. Freeman, residing rw and useful inventions and olication entitled ASSEMBLY or has made application for
WHEREAS, The Boeing Company, a c USA, having a place of business at 10 called "the Assignee"), is desirous of ac United States of America and its territor foreign LETTERS PATENT that may be	O North Riversi quiring the entiti ial possessions a	de Plaza, Chicago, Illinois re right, title and interest in a and all foreign countries, and	60606-1596, USA (hereinafter and to the Invention within the
NOW, THEREFORE, for good and vail has assigned, sold and transferred, and centire right, title and interest in and to possessions and all foreign countries, a countries, including utility models, inveand all portions thereof, and in and to the Invention in all foreign countries an applications and extensions of any of the all applications claiming the priority of stright to apply for LETTERS PATENT hereafter be granted to Assignor by local of industrial property, together with the the various territorial possessions now of Assignee will hold all rights for its own full end of the term for which the LETTI been held and enjoyed by Assignor If this the Commissioner of the U.S. Patent a offices, to issue respective LETTERS accordance with this assignment.	locs assign, sell to the Invention and in and to au mtor's certificate applicated all provisions applications for applications for applications in foreign could laws or by treated wheel or which the and benefit a ERS PATENT in is assignment and Trademark (and transfer to the Assignee within the United States by LETTERS PATENT of its and like government grantion identified above and appal, divisional, reissue, controlled the patent of LETTERS PATE for patent or LETTERS PATE for patent or LETTERS PATE for patent or LETTERS PATE the protection of the United may be hereafter acquired by and for the use and benefit of tay be granted, as fully and ed alle had not been made. A Office, and foreign counter	the successors and assigns, its of America and its territorial the United States and foreign to that may be granted for any lications for patent filed for the timustion, continuation—in-part NT identified herein, including TENT identified herein, and the such priorities as may now or I convention, for the protection States LETTERS PATENT to the United States of America. Its successors or assigns to the ntirely as the same would have ssignor requests and authorizes part officials of foreign patent
Assignor further covenants and agrees Assignor's interest in the Invention, whassignor will, without demanding any finall lawful and just acts, including the necessary for obtaining, sustaining, expatent or the like for the Invention, a LETTERS PATENT particularly in case	hich title Assign arther considerat execution and tending, reissui and for maintaini	for warrants to the Assigne- ion therefor, at the request a acknowledgment of instrum tig or reexamining United ing and perfecting the Assign	s. Assignor further agrees that nd expense of the Assignee, do tents, that may be or become States and foreign LETTERS nee's right to the Invention and
Assignor authorizes and directs any of the ASSIGNEE to insert the application this Assignment.	he attorneys resp number and fil	onsible for prosecuting the a ing date of the subject appli	subject application on behalf of cution in the first paragraph of
IN TESTIMONY WHEREOF, I have sig	gned this Assign	ment on the date specified be	flow.
David Howard Curry III I	Date D	havid Raines	Date

Scott L. Smotherman	Date	Paul Gabriel Wemtges	Date
Dennis Ray Mathis	Date	Charlie E. Branyon III	Date
Dan B. Jan	2/20/2020		
Daniel B. Freeman	Date		