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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT4954070

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|------------------------------|---|
| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the LIST OF CONVEYING PARTIES ADDING DATA FOR ASSIGNOR MICHAEL REAUGH SMITH previously recorded on Reel 042774 Frame 0807. Assignor(s) hereby confirms the ASSIGNMENT. |

CONVEYING PARTY DATA

| Name | Execution Date |
|---------------------------|----------------|
| CHRISTOPHER MIKE BOTHWELL | 04/04/2017 |
| JILLIAN SAMANTHA ALFRED | 04/04/2017 |
| SUNG KYUN KIM | 05/03/2017 |
| MARKO VUGA | 05/01/2017 |
| MATTHEW HENDRICKS | 05/01/2017 |
| MARK WASIKOWSKI | 05/01/2017 |
| THOMAS PARHAM | 04/14/2017 |
| MICHAEL REAUGH SMITH | 06/05/2017 |

RECEIVING PARTY DATA

| | |
|--------------------------|------------------------------|
| Name: | BELL HELICOPTER TEXTRON INC. |
| Street Address: | MAIL STOP HQ 04415 |
| Internal Address: | P.O. BOX 482 |
| City: | FORT WORTH |
| State/Country: | TEXAS |
| Postal Code: | 76101 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|----------------------------|----------|
| Application Number: | 15594393 |

CORRESPONDENCE DATA

Fax Number: (972)732-9218

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: (972)732-1001

Email: docketing@slatermatsil.com

Correspondent Name: SLATER MATSIL, LLP

Address Line 1: 17950 PRESTON ROAD

Address Line 2: SUITE 1000

Address Line 4: DALLAS, TEXAS 75252

PATENT

| | |
|--------------------------------|-----------------|
| ATTORNEY DOCKET NUMBER: | BEL-16-109 |
| NAME OF SUBMITTER: | GUDDI KANOJIA |
| SIGNATURE: | /GUDDI KANOJIA/ |
| DATE SIGNED: | 05/09/2018 |

Total Attachments: 12

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PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT4471890

| | |
|---|------------------------------|
| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| CHRISTOPHER MIKE BOTHWELL | 04/04/2017 |
| JILLIAN SAMANTHA ALFRED | 04/04/2017 |
| SUNG KYUN KIM | 05/03/2017 |
| MARKO VUGA | 05/01/2017 |
| MATTHEW HENDRICKS | 05/01/2017 |
| MARK WASIKOWSKI | 05/01/2017 |
| THOMAS PARHAM | 04/04/2017 |
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| Phone: | (972)732-1001 |
| Email: | docketing@slatermatsil.com |
| Correspondent Name: | SLATER MATSIL, LLP |
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| Address Line 2: | SUITE 1000 |
| Address Line 4: | DALLAS, TEXAS 75252 |
| ATTORNEY DOCKET NUMBER: | BEL-16-109 |
| NAME OF SUBMITTER: | ANN TRAN |
| SIGNATURE: | /Ann Tran/ |

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made; and

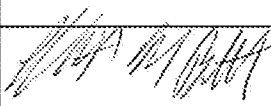
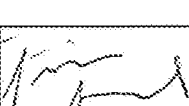
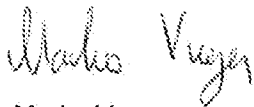
WHEREAS, Bell Helicopter Textron Inc. ("Assignee"), a corporation organized and existing under the laws of TX, with its principal office at Mail Stop HQ 04415 P.O. Box 482, Fort Worth, TX 76101 is desirous of acquiring my entire right, title and interest in and to said invention, and to said application and any Letters Patent that may issue thereon in the United States and all other countries throughout the world;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to said Assignee, its successors and assigns, my entire right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all future non-provisional applications including divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to said Assignee, as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

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IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

| TITLE OF INVENTION | SYSTEM AND METHOD FOR ROTORCRAFT ACTIVE LATERAL SHUFFLE FILTER | | | |
|--------------------------------|--|--|---------------|---|
| SIGNATURE OF INVENTOR AND NAME |  Christopher Mike Bothwell |  Jillian Samantha Alfred | Sung Kyun Kim |  Marko Vuga |
| DATE | 4/4/17 | 4/4/17 | | 5/1/17 |
| RESIDENCE | Grapevine, TX | Ft. Worth, TX | Bedford, TX | |

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made; and


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|--------------------------------|---|-------------------------|---|------------|
| TITLE OF INVENTION | SYSTEM AND METHOD FOR ROTORCRAFT ACTIVE LATERAL SHUFFLE FILTER | | | |
| SIGNATURE OF INVENTOR AND NAME | Christopher Mike Bothwell | Jillian Samantha Alfred |  Sung Kyun Kim | Marko Vuga |
| DATE | | | 5-3-17 | |
| RESIDENCE | Grapevine, TX | Ft. Worth, TX | Bedford, TX | |

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made; and

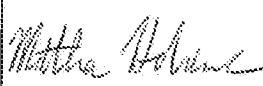

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IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

| | | | | |
|--------------------------------|--|--|---------------|--|
| TITLE OF INVENTION | System and Method for Rotorcraft Active Lateral Shuffle Filter | | | |
| SIGNATURE OF INVENTOR AND NAME |  Matthew Hendricks |  Mark Wasikowski | Thomas Parham | |
| DATE | 5/1/2017 | 5/1/2017 | | |
| RESIDENCE | | | | |

ASSIGNMENT

WHEREAS, I, the undersigned inventor (or one of the undersigned joint inventors), of residence as listed, having invented certain new and useful improvements as below entitled, for which application for United States Letters Patent is made; and


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| | | | |
|--------------------------------|---|-----------------|---|
| TITLE OF INVENTION | System and Method for Rotorcraft Active Lateral Shuffle Filter | | |
| SIGNATURE OF INVENTOR AND NAME | Matthew Hendricks | Mark Wasikowski |  Thomas Parham |
| DATE | | | April 4, 2017 |
| RESIDENCE | | | 2305 Ballantree Dr Colleyville TX 76034 |

ASSIGNMENT

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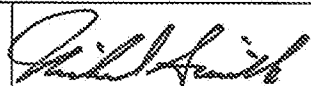
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|--------------------------------|---|------------------------|----------------------|--|
| TITLE OF INVENTION | System and Method for Rotorcraft Active Lateral Shuffle Filter | | | |
| SIGNATURE OF INVENTOR AND NAME | <i>Matthew Hendricks</i> | <i>Mark Wasikowski</i> | <i>Thomas Parham</i> |  Michael Reaugh Smith |
| DATE | | | | <i>June 5, 2017</i> |
| RESIDENCE | | Keller, TX | Colleyville, TX | Colleyville, TX |

ASSIGNMENT

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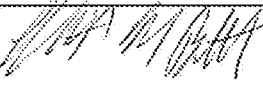
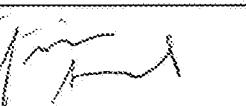
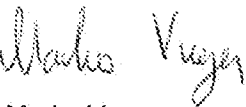
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| SIGNATURE OF INVENTOR AND NAME |  Christopher Mike Bothwell |  Jillian Samantha Alfred | Sung Kyun Kim |  Marko Vuga |
| DATE | 4/4/17 | 4/4/17 | | 5/1/17 |
| RESIDENCE | Grapevine, TX | Ft. Worth, TX | Bedford, TX | |

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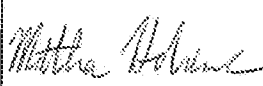

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| TITLE OF INVENTION | System and Method for Rotorcraft Active Lateral Shuffle Filter | | | |
| SIGNATURE OF INVENTOR AND NAME |  Matthew Hendricks |  Mark Wasikowski | Thomas Parham | |
| DATE | 5/1/2017 | 5/1/2017 | | |
| RESIDENCE | | | | |

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NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, I hereby sell and assign to said Assignee, its successors and assigns, my entire right, title and interest in and to said invention and in and to said application and all patents which may be granted therefor, and all future non-provisional applications including divisions, reissues, substitutions, continuations, and extensions thereof; and I hereby authorize and request the Commissioner for Patents to issue all patents for said invention, or patent resulting therefrom, insofar as my interest is concerned, to said Assignee, as assignee of my entire right, title and interest. I declare that I have not executed and will not execute any agreement in conflict herewith.

I also hereby sell and assign to Assignee, its successors and assigns, my foreign rights to the invention disclosed in said application, in all countries of the world, including, but not limited to, the right to file applications and obtain patents under the terms of the International Convention for the Protection of Industrial Property, and of the European Patent Convention, and further agree to execute any and all patent applications, assignments, affidavits, and any other papers in connection therewith necessary to perfect such patent rights.

I hereby further agree that I will communicate to said Assignee, or to its successors, assigns, and legal representatives, any facts known to me respecting said invention or the file history thereof, and at the expense of said Assignee, its legal representatives, successors, or assigns, will testify in any legal proceedings, sign all lawful papers, execute all divisional, continuation, reissue and substitute applications, make all lawful oaths, and generally do everything possible to aid said Assignee, its legal representatives, successors, and assigns, to obtain and enforce proper patent protection for said invention in all countries.

IN WITNESS WHEREOF, I hereunto set my hand and seal this day and year;

| | | | | |
|--------------------------------|---|-------------------------|---|------------|
| TITLE OF INVENTION | SYSTEM AND METHOD FOR ROTORCRAFT ACTIVE LATERAL SHUFFLE FILTER | | | |
| SIGNATURE OF INVENTOR AND NAME | Christopher Mike Bothwell | Jillian Samantha Alfred |  Sung Kyun Kim | Marko Vuga |
| DATE | | | 5-3-17 | |
| RESIDENCE | Grapevine, TX | Ft. Worth, TX | Bedford, TX | |