505984000 03/25/2020

### PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6030708

| SUBMISSION TYPE:      | NEW ASSIGNMENT |
|-----------------------|----------------|
| NATURE OF CONVEYANCE: | ASSIGNMENT     |

#### **CONVEYING PARTY DATA**

| Name                       | Execution Date |
|----------------------------|----------------|
| PETER FRANS THOMSEN        | 11/30/2018     |
| ADRIAN BOTWRIGHT           | 09/30/2019     |
| TROELS VAHLE               | 09/30/2019     |
| MARTIN DAMM                | 03/17/2020     |
| KRISTOFFER LOLK FREDRIKSEN | 02/18/2020     |
| CARSTEN JASPER             | 02/18/2020     |

### **RECEIVING PARTY DATA**

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| City:           | AARHUS N                |
| State/Country:  | DENMARK                 |
| Postal Code:    | DK-8200                 |

#### **PROPERTY NUMBERS Total: 1**

| Property Type       | Number   |
|---------------------|----------|
| Application Number: | 16066428 |

### **CORRESPONDENCE DATA**

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WOOD, HERRON & EVANS, LLP (VESTAS WIND S **Correspondent Name:** 

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Address Line 4: CINCINNATI, OHIO 45202

| ATTORNEY DOCKET NUMBER: | VWS-916US  |
|-------------------------|--|
| NAME OF SUBMITTER:      | STEVEN W. BENINTENDI                                       |
| SIGNATURE:              | /Steven W. Benintendi/                                     |
| DATE SIGNED:            | 03/25/2020   |
|                         | This document serves as an Oath/Declaration (37 CFR 1.63). |

PATENT

**REEL: 052223 FRAME: 0070** 

## **Total Attachments: 20** source=VWS-916US\_Assign#page1.tif source=VWS-916US Assign#page2.tif source=VWS-916US\_Assign#page3.tif source=VWS-916US\_Assign#page4.tif source=VWS-916US\_Assign#page5.tif source=VWS-916US\_Assign#page6.tif source=VWS-916US\_Assign#page7.tif source=VWS-916US\_Assign#page8.tif source=VWS-916US Assign#page9.tif source=VWS-916US\_Assign#page10.tif source=VWS-916US\_Assign#page11.tif source=VWS-916US\_Assign#page12.tif source=VWS-916US Assign#page13.tif source=VWS-916US Assign#page14.tif source=VWS-916US\_Assign#page15.tif source=VWS-916US\_Assign#page16.tif source=VWS-916US\_Assign#page17.tif source=VWS-916US Assign#page18.tif source=VWS-916US Assign#page19.tif source=VWS-916US Assign#page20.tif

PATENT REEL: 052223 FRAME: 0071

| Title of Invention: | TRANSPORT FRAMES FOR A W           | /IND TUF   | RBINE BLADE   |
|---------------------|------------------------------------|------------|---------------|
| As                  | the below named inventor, I hereby | declare th | at:           |
| Thi                 | s Declaration is directed to:      |            |               |
| The attache         | ed application                     |            |               |
|                     | tes Application Number or PCT Inte | ernational | Application   |
| Number              | 16/066,428                         | filed on   | June 27, 2018 |

The above-identified application was made or authorized to be made by me.

I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified application.

I have reviewed and understand the contents of the above-identified application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56.

Whereas, the undersigned inventor(s) has/have made certain inventions, improvements and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application;

Whereas, Vestas Wind Systems A/S a Corporation of Denmark, having a place of business at Hedeager 42, DK-8200 Aarhus N., DENMARK (herein referred to as the "ASSIGNEE"), desires to acquire, and each undersigned inventor desires to grant to the ASSIGNEE, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor ("ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the

ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

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| Legal name of Inventor: | Peter Frans Thomsen |       |
|-------------------------|---------------------|-------|
| Inventor's Signature:   | Peter Frans Monne   | Date: |
| Residence               | ,                   |       |
| City/State/Country:     | Ringkøbing, Denmark |       |
| •                       | Ærøgade 9           |       |
|                         | DK-6950 Ringkøbing  |       |
| Mailing Address:        | DENMARK             |       |
| Citizenship:            | Denmark             |       |

| Legal name of Inventor: | Adrian Botwright   |       |
|-------------------------|--------------------|-------|
| Inventor's Signature:   |                    | Date: |
| Residence               |                    |       |
| City/State/Country:     | Sabro, Denmark     |       |
|                         | Mødalvej 47        |       |
|                         | DK-8471 Sabro      |       |
| Mailing Address:        | DENMARK            |       |
| Citizenship:            | United Kingdom     |       |
| Legal name of Inventor: | Troels Vahle       |       |
| Inventor's Signature:   |                    | Date: |
| Residence               |                    |       |
| City/State/Country:     | Grenaa, Denmark    |       |
|                         | Jasminvej 14       |       |
|                         | DK-8500 Grenaa     |       |
| Mailing Address:        | DENMARK            |       |
| Citizenship:            | Denmark            |       |
|                         |                    |       |
| Legal name of Inventor: | Martin Dam         |       |
| Inventor's Signature:   |                    | Date: |
| Residence               |                    |       |
| City/State/Country:     | Aarhus N., Denmark |       |
| ==-y                    | Hedeager 42        |       |
|                         | DK-8200 Aarhus N.  |       |
| Mailing Address:        | DENMARK            |       |
| Citizenship:            | Denmark            |       |

| Legal name of Inventor: | Kristoffer Lolk Fredriksen |       |
|-------------------------|----------------------------|-------|
| Inventor's Signature:   |                            | Date: |
| Residence               |                            |       |
| City/State/Country:     | Aarhus N., Denmark         |       |
| •                       | Hedeager 42                |       |
|                         | DK-8200 Aarhus N.          |       |
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|                         |                            |       |
| Citizenship:            | Denmark                    |       |
|                         |                            |       |
|                         |                            |       |
| Legal name of Inventor: | Carsten Jasper             |       |
| Inventor's Signature:   |                            | Date: |
| Residence               |                            |       |
| City/State/Country:     | Aarhus N., Denmark         |       |
| 210,7 2 12007 2 2 1777  | Hedeager 42                |       |
|                         | DK-8200 Aarhus N.          |       |
| Mailing Address:        | DENMARK                    |       |
|                         | _                          |       |
| Citizenship:            | Denmark                    |       |

7.

| Title of Invention: TRAN | SPORT, FRAMES FOR A V       | /IND TURBINE BLADE     |  |
|--------------------------|-----------------------------|------------------------|--|
| As the belo              | ow named inventor, I hereby | declare that:          |  |
| This Dečla               | ration is directed to:      |                        |  |
| The attached appli       | cation                      |                        |  |
|                          | lication Number or PCT Inte | ~ -                    |  |
| Number <u>16/066</u>     | ,428                        | filed on June 27, 2018 |  |
|                          |                             |                        |  |

The above-identified application was made or authorized to be made by me.

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| Legal name of Inventor: | Peter Frans Thomsen |       |
|-------------------------|---------------------|-------|
| Inventor's Signature:   |                     | Date: |
| Residence               |                     |       |
| City/State/Country:     | Ringkøbing, Denmark |       |
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|                         | DK-6950 Ringkøbing  |       |
| Mailing Address:        | DENMARK             |       |
|                         |                     |       |
| Citizenship:            | Denmark             |       |

| Legal name of Inventor: | Adrian Botwright   |              |
|-------------------------|--------------------|--------------|
| Inventor's Signature:   | A (SAA             | Date: 30 9 ) |
| Residence               | V                  |              |
| City/State/Country:     | Sabro, Denmark     |              |
| ·                       | Mødalvej 47        |              |
|                         | DK-8471 Sabro      |              |
| Mailing Address:        | DENMARK            |              |
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| Legal name of Inventor: | Troels Vahle       |              |
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| Residence               |                    |              |
| City/State/Country:     | Grenaa, Denmark    | ••           |
|                         | Jasminvej 14       |              |
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| •                       | Hedeager 42        |              |
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| Legal name of Inventor: | Kristoffer Lolk Fredriksen |       |
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| Inventor's Signature:   |                            | Date: |
| Residence               |                            |       |
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|                         | Hedeager 42                |       |
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| Mailing Address:        | DENMARK                    |       |
| Citizenship:            | Denmark                    |       |

Title of Invention: TRANSPORT FRAMES FOR A WIND TURBINE BLADE

| As the below named inventor, I hereby declare that:   |  |
|---|--|
| This Declaration is directed to:  |  |
| The attached application  |  |
| OR    Value   Value |  |
| United States Application Number or PCT International Application Number 16/066,428 filed on June 27, 2018  |  |

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|-------------------------|--------------------|---|
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| Residence               |                    | Section 2000 Control of the Control |
| City/State/Country:     | Sabro, Denmark     |   |
| ongrotator country.     | Mødalvej 47        |   |
|                         | DK-8471 Sabro      |   |
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| Citizenship:            | United Kingdom     |   |
| Legal name of Inventor: | Troels Vahle       |   |
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| Residence               |                    |   |
| City/State/Country:     | Grenaa, Denmark    |   |
| · ·                     | Jasminvej 14       |   |
|                         | DK-8500 Grenaa     |   |
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| y <del></del>           | Hedeager 42        |   |
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| Inventor's Signature:   |                            | Date: |
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|                         | Hedeager 42                |       |
|                         | DK-8200 Aarhus N.          |       |
| Mailing Address:        | DENMARK                    |       |
| Citizenship:            | Denmark                    |       |

Title of Invention: TRANSPORT FRAMES FOR A WIND TURRING RUADE

| THE OF INVENTION. THE WOLD FOR THE WIND TOTAL BEINDE                  |
|---|
| As the below named inventor, I hereby declare that:                   |
| This Declaration is directed to:                                      |
| The attached application  |
| OR  |
| x   United States Application Number or PCT International Application |
| Number 16/066,428 filed on June 27, 2018                              |
|   |

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Page 1 of 4

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| Legal name of Inventor: | Peter Frans Thomsen |       |
|-------------------------|---------------------|-------|
| Inventor's Signature:   |                     | Date: |
| Residence               |                     |       |
| City/State/Country:     | Ringkøbing, Denmark |       |
|                         | Ærøgade 9           |       |
|                         | DK-6950 Ringkøbing  |       |
| Mailing Address:        | DENMARK             |       |
|                         |                     |       |
| Citizenship:            | Denmark             |       |

| Legal name of Inventor: | Adrian Botwright   |               |
|-------------------------|--------------------|---------------|
| Inventor's Signature:   |                    | Date:         |
|                         |                    |               |
| Residence               | G-lie Danmark      |               |
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| Mailing Address:        | DENMARK            |               |
| Mannig Address.         | BEIWAICE           |               |
| Citizenship:            | Denmark            |               |
|                         |                    |               |
| Legal name of Inventor: | Martin Damm        |               |
| Inventor's Signature:   | Markin Dan         | Date: 17/3-20 |
| Residence               |                    |               |
| City/State/Country:     | Aarhus N., Denmark |               |
| City/State/Country.     | c/o Hedeager 42    |               |
|                         | DK-8200 Aarhus N.  |               |
| Mailing Address:        |                    |               |
| maning Address.         | DENMARK            |               |
| Citizenship:            | Denmark            |               |
| F.5                     | Dominic            |               |

| Legal name of Inventor: | Kristoffer Lolk Fredriksen |       |
|-------------------------|----------------------------|-------|
| Inventor's Signature:   |                            | Date: |
| Residence               |                            |       |
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| •                       | Hedeager 42                |       |
|                         | DK-8200 Aarhus N.          |       |
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| •                       | Hedeager 42                |       |
|                         | DK-8200 Aarhus N.          |       |
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| Title of Invention: TRANSPORT FRAMES FOR A WIND TURBINE BLADE   |  |  |
|---|--|--|
| As the below named inventor, I hereby declare that:   |  |  |
| This Declaration is directed to:  |  |  |
| The attached application  |  |  |
| OR  x United States Application Number or PCT International Application  Number 16/066,428 filed on June 27, 2018   |  |  |
| Number 16/066,428 filed on June 27, 2018  |  |  |
| The above-identified application was made or authorized to be made by me.   |  |  |
| I believe that I am the original inventor or an original joint inventor of a claimed invention in the above-identified application.   |  |  |
| I have reviewed and understand the contents of the above-identified application, including the claims.  |  |  |
| I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. § 1.56. |  |  |
| Whereas, the undersigned inventor(s) has/have made certain inventions,  |  |  |

Whereas, the undersigned inventor(s) has/have made certain inventions, improvements and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application;

Whereas, Vestas Wind Systems A/S a Corporation of Denmark, having a place of business at Hedeager 42, DK-8200 Aarhus N., DENMARK (herein referred to as the "ASSIGNEE"), desires to acquire, and each undersigned inventor desires to grant to the ASSIGNEE, the entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto;

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, each undersigned inventor ("ASSIGNOR") hereby sells or has sold, assigns or has assigned, and otherwise transfers or has transferred to the ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, each undersigned inventor hereby authorizes and requests the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the

ASSIGNEE, its successors, legal representatives, and assigns, the entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by the undersigned had this Assignment not been made; and each undersigned inventor agrees to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

Each undersigned inventor acknowledges their prior and ongoing obligations to sell, assign, and transfer the rights under this Assignment to the ASSIGNEE and is unaware of any reason why they may not have the full and unencumbered right to sell, assign, and transfer the rights hereby sold, assigned, and transferred, and has not executed, and will not execute, any document or instrument in conflict herewith. Each undersigned inventor also hereby grants the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment.

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