

RECORDATION FORM COVER SHEET
PATENTS ONLY

Atty Ref/Docket No.: 3037.071US1

Patent and Trademark Office

To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Bernd Frankenstein, Frank Schubert, Lars Schubert,
Eberhard Schulze, Herbert Friedmann, Fritz-Otto
Henkel, Carsten Ebert

Additional name(s) of conveying party(ies) attached?

[] Yes [X] No

3. Nature of conveyance:

[X] Assignment [] Merger
[] Security Agreement [] Change of Name
[] Other

Execution Date: March 21, 2012, March 26, 2012,
March 21, 2012, March 21, 2012, April 2, 2012, April 2,
2012, April 2, 2012

2. Name and address of receiving parties:

Name: Fraunhofer-Gesellschaft zur Förderung der
Angewandten Forschung E.V.

Street Address: Hansastrasse 27c

City: München, 80686Country: Germany**Name:** Wölfel Beratende Ingenieure Gmbh & Co. KG

Street Address: Max-Planck-Strasse 15

City: Höchberg, 97204Country: GermanyAdditional name(s) & address(es) attached? [] Yes
[X] No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.

B. Patent No.(s)

Serial No. 13/395,024, filed March 8, 2012

Additional numbers attached? [] Yes [X] No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Matthew L. Prater

Address:

Schwegman, Lundberg & Woessner, P.A.
P.O. Box 2938
Minneapolis, MN 55402--0938

6. Total number of applications and patents involved: 17. Total fee (37 CFR 3.41): \$ 40.00

[] Enclosed

[X] Authorized to be charged to deposit account
19-07438. Please charge any additional fees or credit any over
payments to our Deposit Account No.: 19-0743

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Matthew L. Prater/Reg. No. 61,891

Name of Person Signing



Signature

May 25, 2012

Date

Total number of pages including cover sheet: 10

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents and Trademarks
Mail Stop Assignment Recordation Services
P.O. Box 1450
Alexandria, VA 22313-1450

PATENT**700486600****REEL: 028303 FRAME: 0827**

CH \$40.00 190743 13395024

Attorney Docket No. 3037.071US1
Client Ref. No. 128P 0408 GB/ZH

ASSIGNMENT

WHEREAS, Bernd Frankenstein, Frank Schubert, Lars Schubert, Eberhard Schulze, Herbert Friedmann, Fritz-Otto Henkel, Carsten Ebert (hereinafter the "Undersigned") have made one or more inventions and other subject matter (hereinafter collectively referred to as the "Invention") which are described in a patent application filed on March 8, 2012, which application was assigned US patent application serial number 13/395,024, and which is titled MODEL-BASED METHOD FOR MONITORING THE CONDITION OF ROTOR BLADES; which are described in a patent application filed on September 7, 2010, which application was assigned PCT application serial number PCT/DE2010/001087, and which is titled MODEL-BASED METHOD FOR MONITORING THE CONDITION OF ROTOR BLADES; which are described in a patent application filed on September 8, 2009, which application was assigned EP application serial number 09 011 485.1, and which is titled MODEL-BASED METHOD FOR MONITORING THE CONDITION OF ROTOR BLADES.

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency, and adequacy of which are hereby acknowledged by the Undersigned, the Undersigned do hereby irrevocably and unconditionally:

CONVEY, ASSIGN, AND TRANSFER to Fraunhofer-Gesellschaft zur Förderung der Angewandten Forschung E.V., a corporation of the Country of Germany, having a place of business at Hansastrasse 27c, München 80686, Germany, and Wölfel Beratende Ingenieure GmbH & Co. KG a corporation of the Country of Germany, having a place of business at Max-Planck-Strasse 15, Höchberg 97204, Germany, (the "Assignees"), the Undersigned's entire right, title, and interest for the United States and all foreign countries and jurisdictions in and to:

the Invention which is disclosed in the above-identified application or applications;

such application or applications, and all divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other applications for a patent or patents which have been or shall be filed in the United States (including all provisional and non-provisional applications), and in all foreign countries and jurisdictions based in whole or in part on any of such Invention (including any application for a utility model or an innovation patent application);

all original and reissued patents which have been or shall be issued in the United States and all foreign countries and jurisdictions based in whole or in part on any of such Invention;

including the right to claim priority to the above-identified patent application or applications in relation to subject matter based in whole or in part on the above-identified patent application or applications and any of the foregoing including the right to file foreign applications under the provisions of any convention or treaty;

and including the right to all causes of action, remedies, and other enforcement rights related to the above-identified application or applications, including without limitation the right to sue for past, present, or future infringement, misappropriation, or violation of any and all rights related to the above-

PATENT

REEL: 028303 FRAME: 0828

Assignment

Assignors: Bernd Frankenstein et al.

Title: MODEL-BASED METHOD FOR MONITORING THE CONDITION OF ROTOR BLADES

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identified patent application or applications and any of the foregoing, including the right to obtain and collect damages for past, present, or future infringement;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such Invention to the Assignees;

AUTHORIZE AND REQUEST that any attorney associated with U.S. Patent and Trademark Office (USPTO) Customer No. 21186 may (directly or through his/her designee) delete, insert, or alter any information related to the above-identified patent application or applications or any of the foregoing, after execution of this Assignment;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or shall be made to others by the Undersigned, and that the full right to convey the same as herein expressed is possessed by the Undersigned;

COVENANT, that when requested and without compensation, but at the expense of the Assignees, in order to carry out in good faith the intent and purpose of this Assignment, the Undersigned shall (1) execute all provisional, non-provisional, divisional, continuing (including continuation-in-part), substitute, renewal, reissue, and all other patent applications for the Invention; (2) execute all rightful oaths, declarations, assignments, powers of attorney and other papers for the Invention; (3) communicate to the Assignees all facts known to the Undersigned relating to the Invention and the history thereof; (4) cooperate with the Assignees in any interference, reexamination, reissue, opposition, dispute, or litigation involving any of the applications or patents for the Invention; and (5) take such further actions as the Assignees shall reasonably consider necessary or desirable for vesting title to such Invention in the Assignees, or for securing, maintaining and enforcing proper patent protection for the Invention;

COVENANT, that should any provision of this agreement be held unenforceable by an authority of competent jurisdiction, such a ruling shall not affect the validity and enforceability of the remaining provisions. To the extent that any such provision is found to be unenforceable, the Undersigned, when requested and without compensation shall act in good faith to substitute for such provision a new provision with content and purpose as close as possible to the provision deemed unenforceable.

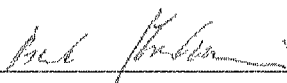
THIS AGREEMENT IS TO BE BINDING on the heirs, assigns, representatives, and successors of the Undersigned, and is to extend to the benefit of the successors, assigns, and nominees of the Assignees.

AGREED as of the date of my signature below:

Assignment
Assignors: Bernd Frankenstein et al.
Title: MODEL-BASED METHOD FOR MONITORING THE CONDITION OF ROTOR BLADES
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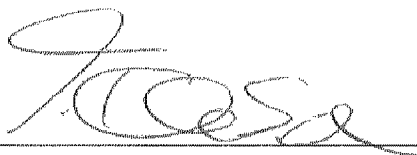
Assignor:

(Signature): 

Name: Bernd Frankenstein

Date: 21/03/2012

On this 21 day of March, 2012 before me personally appeared Bernd Frankenstein, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



Witness

Assignment

Assignors: Bernd Frankenstein et al.

Title: MODEL-BASED METHOD FOR MONITORING THE CONDITION OF ROTOR BLADES

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Docket No: 3037.071US1
Client Ref. No. 128P 0408 GB/ZH

Assignor:

(Signature): Frank Schubert

Name: Frank Schubert

Date: 26.3.2012

On this 26 day of March, 2012 before me personally appeared Frank Schubert, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

[Handwritten Signature]

Witness

Assignment

Assignors: Bernd Frankenstein et al.

Title: MODEL-BASED METHOD FOR MONITORING THE CONDITION OF ROTOR BLADES

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Docket No: 3037.071US1
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Assignor:

(Signature): Lars Schubert

Name: Lars Schubert

Date: 21.03.2012

On this 21 day of March, 2012 before me personally appeared Lars Schubert, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

J. H. [Signature]

Witness

Assignment

Assignors: Bernd Frankenstein et al.

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Docket No: 3037.071US1
Client Ref. No. 128P 0408 GB/ZH

Assignor:

(Signature): Eberhard Schulze

Name: Eberhard Schulze

Date: 21.05.2012

On this 21 day of May, 2012 before me personally appeared Eberhard Schulze, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

J. O. Ose

Witness

Assignment

Assignors: Bernd Frankenstein et al

Title: MODEL-BASED METHOD FOR MONITORING THE CONDITION OF ROTOR BLADES

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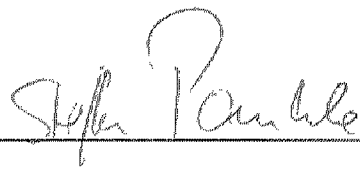
Docket No. 3037.071US1
Client Ref. No. 128P 0408 GB/ZH

Assignor:

(Signature): 
Name: Herbert Friedmann

Date: 02 04 2012

On this 2nd day of April, 2012 before me personally appeared Herbert Friedmann, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



Witness

Assignment

Assignors: Bernd Frankenstein et al.

Title: MODEL-BASED METHOD FOR MONITORING THE CONDITION OF ROTOR BLADES

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Docket No. 3037.071US1
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Assignor:

(Signature): Fritz-Otto Henkel

Name: Fritz-Otto Henkel

Date: 02 04 2012

On this 2nd day of April, 2012 before me personally appeared Fritz-Otto Henkel, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.

Silvia Panchito

Witness

Assignment

Assignors: Bernd Frankenstein et al.

Title: MODEL-BASED METHOD FOR MONITORING THE CONDITION OF ROTOR BLADES

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Docket No: 3037.071US1
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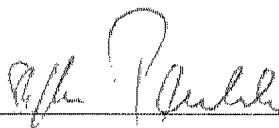
Assignor:

(Signature): 

Name: Carsten Ebert

Date: 22 April 2012

On this 2nd day of April, 2012 before me personally appeared Carsten Ebert, to me known and known to me to be the person described in and who executed the foregoing instrument, and he/she duly acknowledged to me that he/she executed the same for the uses and purposes therein set forth.



Witness