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To the Honorable Commissione

102354388

1. Name of conveying party(ies):

Holger LUTHJE

Jochen BRAND

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

☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment

☐ Merger

☐ Security Agreement

☐ Change of Name

☐ Other

Execution Date: August 15, 2002

2. Name and address of receiving party(ies):

Name: Fraunhofer-Gesellschaft zur Forderung der angewandten Forschung e.V.

Internal Address:

Street Address: Leonrodstrasse 54

City: Munchen, Germany State: ZIP: 80636

Additional name(s) & address(es) attached?

☐ Yes ☒ 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.(s)

10/168,293

B. Patent No.(s)

Additional numbers attached?

☐ Yes ☒ No

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

Name: Michele J. Young

Internal Address:

10/24/2002 SNA/PTO 00000061 10168293

03 FC-0021

40.00 DP

Street Address: SALTER & MICHAELSON

321 South Main Street

City: Providence State: RI ZIP: 02903-7128

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41) \$ 40.00

☒ Enclosed

☐ Authorized to be charged to deposit account

8. Deposit account number:

19-0120

(Attach duplicate copy of this page if paying by deposit account)

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.

Michele J. Young

Name of Person Signing

Signature

Date

Total number of pages including cover sheet, attachments, and document: 3

Mail documents to be recorded with required cover sheet information to:  
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Washington, D.C. 20231

(Form PTO--1595--Recordation Form Cover Sheet - page 1 of 3)

PATENT  
REEL: 013704 FRAME: 0462

For: U.S. Rights  
For: U.S. Application  
By: Inventors

**ASSIGNMENT OF INVENTION**

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

**ASSIGNORS:**

Holger LÜTHJE  
Buchenweg 15  
Halstenbek, 25469  
Germany  
Nationality: Germany

Jochen BRAND  
Reuter-Strasse 23  
Braunschweig, 38126  
Germany  
Nationality: Germany

hereby sell, assign and transfer to

**ASSIGNEE:**

Fraunhofer-Gesellschaft zur Förderung der angewandten  
Forschung e.V.  
Leonrodstrasse 54  
München 80636  
Germany  
State or Country of Formation: Germany

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions in and to any and all improvements which are disclosed in the invention entitled:

**SENSOR FOR DETERMINING THE STATE OF CHARACTERISTIC QUANTITIES OF  
MECHANICAL COMPONENTS USING AMORPHOUS CARBON LAYERS WITH  
PIEZORESISTIVE PROPERTIES**

and which is found in (37 C.F.R. Section 3.21) U.S. application no. 10/168,293 filed on June 19, 2002 and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

(Assignment of Invention--page 1 of 2)

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set hand and seal this \_\_\_\_\_ day of \_\_\_\_\_.

Date: X 08.15.02

X   
Signature of Holger LÜTHJE

Date: X 08.13.02

X   
Signature of Jochen BRAND

(Assignment of Invention--page 2 of 2)