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| PATENT ASSIGNMENT COVER SHEET |
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Electronic Version v1.1
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EPAS ID: PAT4066833

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| SUBMISSION TYPE: | CORRECTIVE ASSIGNMENT |
| NATURE OF CONVEYANCE: | Corrective Assignment to correct the ORIGINALLY RECORDED ASSIGNMENT DOCUMENT previously recorded on Reel 019779 Frame 0937. Assignor(s) hereby confirms the ASSIGNMENT OF ASSIGNORS INTEREST VIA A CORRECTIVE DOCUMENT SUBMISSION. |
| RESUBMIT DOCUMENT ID: | 503950980 |

CONVEYING PARTY DATA

| Name | Execution Date |
|----------------|----------------|
| MARKUS HAUSER | 04/17/2007 |
| ULRICH KNAUER | 04/20/2007 |
| ANTON LEIDL | 04/11/2007 |
| EVELYN RIHA | 04/04/2007 |
| GERD RIHA | 04/05/2007 |
| ULRIKE ROSLER | 04/20/2007 |
| WERNER RUILE | 04/05/2007 |
| CLEMENS RUPPEL | 04/05/2007 |
| GERD SCHOLL | 04/04/2007 |
| ULRICH WOLFF | 08/02/2007 |

RECEIVING PARTY DATA

| | |
|------------------------|-----------------------|
| Name: | EPCOS AG |
| Street Address: | St.-Martin-Strasse 53 |
| City: | Muenchen |
| State/Country: | GERMANY |
| Postal Code: | 81669 |

PROPERTY NUMBERS Total: 1

| Property Type | Number |
|----------------------------|----------|
| Application Number: | 11574904 |

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 RD.

PATENT

Address Line 2: SUITE 1000
Address Line 4: DALLAS, TEXAS 75252

ATTORNEY DOCKET NUMBER: P2004,0720 US N

NAME OF SUBMITTER: AVA CHUANG

SIGNATURE: /Ava Chuang/

DATE SIGNED: 09/23/2016


Total Attachments: 21

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Substitute Form PTO-1595
Attorney Docket No.: 14219-142US1
Client's Ref. No.: P2004,0720 US N

RECORDATION FORM COVER SHEET PATENTS ONLY

Commissioner for Patents: Please record the attached original document(s) or copy(ies).

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|--|--|--|-------------------------|
| 1. Name of conveying party(ies): Markus Hauser, Ulrich Knauer, Anton Leidl, Evelyn Riha, Gerd Riha, Ulrike Rösler, Werner Ruile, Clemens Ruppel, Gerd Scholl and Ulrich Wolff Additional name(s) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | 2. Name and address of receiving party(ies): EPCOS AG St.-Martin Strasse 53 D-81669 Munich GERMANY Additional names/addresses attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | |
| 3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other: Execution Date: 04/17/07; 04/20/07; 04/11/07; 04/04/07; 04/05/07; 04/20/07; 04/05/07; 04/05/07; 04/04/07; 08/02/07 | | | |
| 4. Application number(s) or patent number(s): If this document is being filed with a new application, the execution date of the application is: A. Patent Application No(s).: 11/574,904 B. Patent No(s).: Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | | | |
| 5. Name/address of party to whom correspondence concerning document should be mailed: PAUL A. PYSHER Fish & Richardson P.C. 225 Franklin Street Boston, MA 02110 | | 6. Total number of applications/patents involved: 1 | |
| | | 7. Total fee (37 CFR §3.41): \$40 <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to charge Deposit Account. | |
| | | 8. Deposit Account No.: 06-1050 Please apply any additional charges, or any credits, to our Deposit Account No. 06-1050. | |
| DO NOT USE THIS SPACE | | | |
| 9. Statement and Signature: <i>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.</i> | | | |
| Paul A. Pysher Reg. No. 40,780 Name of Person Signing | |  Signature | August 30, 2007 Date |
| Total number of pages including coversheet, attachments and document: | | | |

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CERTIFICATE OF TRANSMISSION BY FACSIMILE

I hereby certify that this correspondence is being transmitted by facsimile to the Patent and Trademark Office on the date indicated below.

8/30/2007 _____
Date of Transmission Signature

 _____
Signature Typed Name of Person Signing Certificate

Lindsay Cahill

700340308

REEL: 019779 FRAME: 0937
PATENT

REEL: 039839 FRAME: 0050

Attorney Docket No: 14219-142US1/P2004,0720 US N

ASSIGNMENT

For valuable consideration, we, Markus Hausur of Am Jagerberg 46, D-82349 Pehling, GERMANY; Ulrich Knauer of Lanzstielweg 4, D-81739 Munich, Germany; Anton Leidl of Brunnstr. 16, D-85862 Hohenstronn, Germany; Evelyn Riha of Grunetfeld 17, 82131 Nussdorf, Germany; Gerd Riha of Grunetfeld 17, 82131 Nussdorf, Germany; Ulrike Rojler of Weichselweg 9, 85241 Hebertshausen, Germany; Werner Rude of Kienastr. 5a, D-80638 Munich, Germany; Clemens Ruzsa of Schaezwindeheweg 15, 81739 Munich, Germany; Gerd Scholl of Krozerkoppel 24a, 22393 Hamburg, Germany, and Ulrich Wolff of Solner Str. 6, D-81478 Munich, Germany hereby assign to HPCOS AG, a corporation of Germany having a place of business at: St. Martin Strasse 53, D-81669 Munich, Germany; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled SAW-COMPONENT HAVING A REDUCED TEMPERATURE PATH AND METHOD FOR THE PRODUCTION THEREOF, and

(U.S. Patent No. 7,589,452 issued September 15, 2009)

filed herewith, or
 filed on August 30, 2007 an Application Serial No. 11/574,804 and

Markus Hausur June 2007
M.H. Date 2007

we authorize and request the attorneys appointed in said application to hereafter complete this assignment by checking filed herewith above or by inserting above the filing date and serial number of said application when known;

U.K. Date

this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and

A.L. Date

E.R. Date

G.R. Date

U.R. Date

U.W. Date

G.S. Date

C.R. Date

W.R. Date

PATENT
REEL: 019779 FRAME: 0938

Attorney Docket No: 14219-142US1/P2004,0720 US N

ASSIGNMENT

For valuable consideration, we, Markus Hauser of Am Isingerberg 46, D-82340 Fahlufing, GERMANY; Ulrich Knauer of Lanzenstiftweg 4, D-81729 Munich, Germany; Anton Leidl of Bremerstr. 16, D-85662 Hohenbrunn, Germany; Evelyn Riha of Grunetfeld 17, 83131 Nussdorf, Germany; Gerd Riha of Grunetfeld 17, 83131 Nussdorf, Germany; Ulrike Roeder of Weichselweg 9, 85241 Hebertshausen, Germany; Werner Rulle of Kharast, Sa, D-80636 Munich, Germany; Clemens Ruppel of Schneewitzchenweg 15, 81739 Munich, Germany; Gerd Scholl of Krogerkoppel 20a, 22393 Hamburg, Germany, and Ulrich Wolff of Sollner Str. 6, D-81479 Munich, Germany hereby assign to EPCOS AG, a corporation of Germany having a place of business at: St. Martin Strasse 33, D-81669 Munich, Germany; and its successors and assigns (collectively hereinafter called "the Assignees"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled SAW-COMPONENT HAVING A REDUCED TEMPERATURE PATH AND METHOD FOR THE PRODUCTION THEREOF, and

(U.S. Patent No. 7,889,452 issued September 18, 2009)

filed herewith, or
 filed on August 30, 2007 as Application Serial No. 11,574,904 and

we authorize and request the attorneys appointed in said application to hereafter complete this assignment by checking filed herewith above or by inserting above the filing date and serial number of said application when known;

M.H. _____ Date _____

U.K. _____ Date _____

Anton Leidl
A.L. June 20, 2016
Date

this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignees to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and

E.R. _____ Date _____

G.R. _____ Date _____

U.R. _____ Date _____

U.W. _____ Date _____

G.S. _____ Date _____

C.R. _____ Date _____

PATENT W.R. _____ Date _____

REEL: 019779 FRAME: 0938

Attorney Docket No: 14219-142US1/P2004,0720 US N

ASSIGNMENT

For valuable consideration, we, Markus Hauger of Am Jägerberg 46, D-82340 Feldafing, GERMANY; Ulrich Knauer of Langensiedlung 4, D-81739 Munich, Germany; Anton Leidl of Brennerstr. 16, D-85662 Hohenbrunn, Germany; Evelyn Riha of Grunetfeld 17, 83131 Nussdorf, Germany; Gerd Riha of Grunetfeld 17, 83131 Nussdorf, Germany; Ulrike Rosler of Weichselweg 9, 85241 Hebertshausen, Germany; Werner Ruile of Klausstr. 5a, D-80638 Munich, Germany; Clemens Ruppel of Schneewitzchenweg 15, 81739 Munich, Germany; Gerd Scholl of Krogerkoppel 24a, 22393 Hamburg, Germany, and Ulrich Wolff of Solner Str. 6, D-81479 Munich, Germany hereby assign to BPCOE AG, a corporation of Germany having a place of business at: St-Martin Strasse 53, D-81689 Munich, Germany; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled SAW-COMPONENT HAVING A REDUCED TEMPERATURE PATH AND METHOD FOR THE PRODUCTION THEREOF, and

(U.S. Patent No. 7,589,452 issued September 15, 2009)

[] filed herewith, or
[x] filed on March 9, 2007 as Application Serial No. 11,457,804 and

we authorize and request the attorneys appointed in said application to hereafter complete this assignment by checking filed herewith above or by inserting above the filing date and serial number of said application when known;

M.H. Date

U.K. Date

this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and

A.L. Date

Evelyn Riha
E.R. June 19, 2006 Date

G.R. Date

U.R. Date

U.W. Date

G.S. Date

C.R. Date

W.R. Date

PATENT REEL: 019779 FRAME: 0938

Attorney Docket No: 14219-142US1/P2004,0720 US N

ASSIGNMENT

For valuable consideration, we, Markus Hauser of Am Jägerberg 46, D-82340 Feldafing, GERMANY; Ulrich Knaier of Lanzenstühweg 4, D-81739 Munich, Germany; Anton Leidl of Bremmerstr. 16, D-85662 Hohenbrunn, Germany; Evelyn Riha of Grunnefeld 17, 83131 Nussdorf, Germany; Gerd Riha of Grunnefeld 17, 83131 Nussdorf, Germany; Ulrike Roster of Weichselweg 9, 85241 Hebertshausen, Germany; Werner Rühle of Klarstr. 3a, D-80836 Munich, Germany; Clemens Ruppel of Schnesswittchenweg 15, 81739 Munich, Germany; Gerd Scholl of Krogerkoppel 24a, 22394 Hamburg, Germany, and Ulrich Wolff of Sollner Str. 6, D-81478 Munich, Germany hereby assign to EPCOS AG, a corporation of Germany having a place of business at: St. Martin Strasse 33, D-81669 Munich, Germany; and its successors and assigns (collectively hereinafter called "the Assignees"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled SAW-COMPONENT HAVING A REDUCED TEMPERATURE PATH AND METHOD FOR THE PRODUCTION THEREOF, and

(U.S. Patent No. 7,589,452 issued September 15, 2009)

[] filed herewith, or August 30, 2007
[x] filed on March 9, 2007 as Application Serial No. 11/574,904 and

we authorize and request the attorneys appointed in said application to hereafter complete this assignment by checking filed herewith above or by inserting above the filing date and serial number of said application when known;

this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and

M.H. Date

U.K. Date

A.L. Date

E.R. Date

G.R. Date

U.R. Date

U.W. Date

G.S. Date

C.R. Date

W.R. Date

PATENT REEL: 019779 FRAME: 0938

Attorney Docket No: 14219-142US1/P2004,0720 US N

ASSIGNMENT

For valuable consideration, we, Markus Hauag of Am Isenberg 46, D-82340 Feldafing, GERMANY; Ulrich Knauer of Larzenstulweg 4, D-81739 Munich, Germany; Anton Leidl of Breitenstr. 16, D-85662 Hohenbrunn, Germany; Evelyn Riha of Grumetfeld 17, 83131 Nuersdorf, Germany; Gerd Riha of Grumetfeld 17, 83131 Nuersdorf, Germany; Ulrike Rosler of Weichselweg 9, 83241 Hebertshausen, Germany; Werner Ruile of Klarstr. 5a, D-80636 Munich, Germany; Clemens Ruppel of Schneewitzchenweg 15, 81739 Munich, Germany; Gerd Scholl of Koenigkoppel 24a, 22393 Hamburg, Germany, and Ulrich Wolff of Solner Str. 6, D-81479 Munich, Germany hereby assign to EPCOS AG, a corporation of Germany having a place of business at: St. Martin Strasse 53, D-81669 Munich, Germany; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled SAW-COMPONENT HAVING A REDUCED TEMPERATURE PATH AND METHOD FOR THE PRODUCTION THEREOF, and

(U.S. Patent No. 7,389,452 issued September 15, 2009)

[] filed herewith, or
[x] filed on March 4, 2007 as Application Serial No. 11/579,804 and

we authorize and request the attorneys appointed in said application to hereafter complete this assignment by checking filed herewith above or by inserting above the filing date and serial number of said application when known;

M.H. _____ Date _____

U.K. _____ Date _____

this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in his own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and

A.L. _____ Date _____

E.R. _____ Date _____

G.R. _____ Date _____

U.R. _____ Date _____

Ulrike Rosler
25.6.2006

U.W. Date

G.S. Date

C.R. Date

W.R. Date

PATENT
REEL: 019779 FRAME: 0938

Attorney Docket No: 14219-142US1/P2004,0720 US N

ASSIGNMENT

For valuable consideration, we, Markus Hauser of Am Jagenberg 46, D-82340 Feldafing, GERMANY; Ulrich Knauer of Langerstrasse 4, D-81739 Munich, Germany; Anton Leidl of Bremensweg 16, D-85662 Hohenbrunn, Germany; Evelyn Rika of Grunzsfeld 17, 83131 Nussdorf, Germany; Gerd Rika of Grunzsfeld 17, 83131 Nussdorf, Germany; Ulrike Reiser of Weichenweg 9, 85241 Hebertshausen, Germany; Werner Rulle of Klarstr. 3a, D-80538 Munich, Germany; Clemens Ruppel of Schosswitzchenweg 15, 81739 Munich, Germany; Gerd Scholl of Krogerkoppel 24a, 22393 Hamburg, Germany, and Ulrich Woll of Sellner Str. 6, D-81479 Munich, Germany hereby assign to EPCOS AG, a corporation of Germany having a place of business at: St-Martin-Strasse 33, D-81669 Munich, Germany; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled SAW-COMPONENT HAVING A REDUCED TEMPERATURE PATH AND METHOD FOR THE PRODUCTION THEREOF and

(U.S. Patent No. 7,589,452 issued September 15, 2009)

[] filed herewith, or
[x] filed on August 30, 2007 as Application Serial No. 11/574,904 and

we authorize and request the attorneys appointed in said application to hereafter complete this assignment by checking filed herewith above or by inserting above the filing date and serial number of said application when known;

M.H. Date

U.K. Date

this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and

A.L. Date

E.R. Date

G.R. Date

U.R. Date

U.W. Date

G.S. Date

C.R. Date

W.R. Date

Wolfgang Rulle June 20 2006

PATENT

REEL: 019779 FRAME: 0938

Attorney Docket No: 14219-142US1/P2004,0720 US N

ASSIGNMENT

For valuable consideration, we, Martina Hünig of Am Jägerberg 46, D-82540 Feldafing, GERMANY; Ulrich Knauer of Lanzensteilweg 4, D-81739 Munich, Germany; Anton Leidl of Bremserstr. 16, D-85662 Hohenbrunn, Germany; Evelyn Rika of Grumetfeld 17, 83131 Nussdorf, Germany; Gerd Riha of Grumetfeld 17, 83131 Nussdorf, Germany; Ulrike Reuter of Weichselweg 9, 85241 Hebertshausen, Germany; Werner Rühle of Klarstr. 5a, D-89636 Munich, Germany; Clemens Ruppel of Schneewitzschweg 15, 81739 Munich, Germany; Gerd Scholl of Krogerkoppel 24a, 22393 Hamburg, Germany, and Ulrich Wolf of Sollner Str. 6, D- 81479 Munich, Germany hereby assign to EPCOS AG, a corporation of Germany having a place of business at: St. Martin Strasse 53, D-81689 Munich, Germany; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled SAW-COMPONENT HAVING A REDUCED TEMPERATURE PATH AND METHOD FOR THE PRODUCTION THEREOF, and

(U.S. Patent No. 7,389,452 issued September 15, 2009)

[] filed herewith, or August 30, 2007
[x] filed on ~~March 2, 2007~~ as Application Serial No. 11/574,904 and

we authorize and request the attorneys appointed in said application to hereafter complete this assignment by checking filed herewith above or by inserting above the filing date and serial number of said application when known;

M.H. Date

H.K. Date

this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and

A.L. Date

E.R. Date

G.R. Date

U.R. Date

U.W. Date

G.S. Date

U. Wolf 21.6.16
C.R. Date

W.R. Date

PATENT REEL: 019779 FRAME: 0938

Attorney Docket No: 14219-142US1/P2004,0720 US N

ASSIGNMENT

For valuable consideration, we, Markus Hauser of Am Isingerberg 46, D-82540 Fahlking, GERMANY; Ulrich Knauer of Lanzersfeldweg 4, D-81739 Munich, Germany; Anton Leidl of Brennerstr. 16, D-85663 Hohenbrunn, Germany; Evelyn Riha of Grumetfeld 17, 83131 Nussdorf, Germany; Gerd Riha of Grumetfeld 17, 83131 Nussdorf, Germany; Ulrike Roeder of Weichselweg 9, 85241 Hebertshausen, Germany; Werner Ruile of Klamstr. 5a, D-80636 Munich, Germany; Clemens Ruppel of Schneewittchenweg 15, 81739 Munich, Germany; Gerd Scholl of Krogerkoppel 24a, 22393 Hamburg, Germany, and Ulrich Wolf of Sollner Str. 6, D-81478 Munich, Germany hereby assign to HPCOS AG, a corporation of Germany having a place of business at: St.-Martin-Strasse 53, D-81669 Munich, Germany; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled SAW-COMPONENT HAVING A REDUCED TEMPERATURE PATH AND METHOD FOR THE PRODUCTION THEREOF, and

(U.S. Patent No. 7,382,452 issued September 15, 2009)

filed herewith, or
 filed on March 2, 2007 ^{August 30, 2007} as Application Serial No. 11/576,204 and

we authorize and request the attorneys appointed in said application to hereafter complete this assignment by checking filed herewith above or by inserting above the filing date and serial number of said application when known;

M.H. _____ Date _____

U.K. _____ Date _____

this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and

A.L. _____ Date _____

E.R. _____ Date _____

G.R. _____ Date _____

U.R. _____ Date _____

U.W. _____ Date _____

G.S. _____ Date _____

C.R. _____ Date _____

13 June 2016

PATENT

W.R. _____ Date _____

REEL: 019779 FRAME: 0938

Attorney Docket No: 14219-142US1/P2004,0720 US N

ASSIGNMENT

For valuable consideration, we, Maxim Hauser of Am Jagerberg 46, D-82340 Finkhofing, GERMANY; Ulrich Knauer of Langenastelweg 4, D-81739 Munich, Germany; Anton Leidl of Brennerstr. 16, D-85662 Hohenbrunn, Germany; Evelyn Riha of Grumetfeld 17, 83131 Nussdorf, Germany; Gerd Riha of Grumetfeld 17, 83131 Nussdorf, Germany; Ulrike Rosler of Weichselweg 9, 83241 Hebertshausen, Germany; Werner Rulle of Kirastr. 3a, D-80836 Munich, Germany; Clemens Ruppel of Schneewitzstrasse 15, 81739 Munich, Germany; Gerd Scholl of Krogerkoppel 248, 22393 Hamburg, Germany, and Ulrich Wolff of Solmer Str. 6, D-81479 Munich, Germany hereby assign to EPCOS AG, a corporation of Germany having a place of business at: St.-Martin-Strasse 53, D-81569 Munich, Germany; and its successors and assigns (collectively hereinafter called "the Assignee"), the entire right, title and interest throughout the world in the inventions and improvements which are subject of an application for United States Patent signed by us, entitled SAW-COMPONENT HAVING A REDUCED TEMPERATURE PATH AND METHOD FOR THE PRODUCTION THEREOF, and

(U.S. Patent No. 7,589,452 issued September 15, 2009)

[] filed herewith, or
[x] filed on August 30, 2007 as Application Serial No. 11/576,204 and

we authorize and request the attorneys appointed in said application to hereafter complete this assignment by checking filed herewith above or by inserting above the filing date and serial number of said application when known;

M.H. Date

U.K. Date

this assignment including said application, any and all United States and foreign patents, utility models, and design registrations granted for any of said inventions or improvements, and the right to claim priority based on the filing date of said application under the International Convention for the Protection of Industrial Property, the Patent Cooperation Treaty, the European Patent Convention, and all other treaties of like purposes; and we authorize the Assignee to apply in all countries in our names or in its own name for patents, utility models, design registrations and like rights of exclusion and for inventors' certificates for said inventions and improvements; and we agree for ourselves and our respective heirs, legal representatives and

A.L. Date

E.R. Date

G.R. Date

Ulrich Wolff July 20, 2016
U.W. Date

U.R. Date

G.S. Date

C.R. Date

PATENT

W.R. Date

REEL: 019779 FRAME: 0938

Attorney Docket No: 14219-142US1/P2004,0720 US N

assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

DATE: _____

MARKUS HAUSER

DATE: _____

Witness for Markus Hauser

17. Juni 2016

Ulrich Knauer

DATE: 20 April 2007

Ulrich Knauer
ULRICH KNAUER

DATE: 20 April 2007

[Signature]
Witness for Ulrich Knauer

D. Frit

DATE: _____

ANTON LEIDL

DATE: _____

Witness for Anton Leidl

PATENT
REEL: 019779 FRAME: 0943

PATENT
REEL: 039839 FRAME: 0060

Attorney Docket No: 14219-142US/P2004,0720 US N

assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

DATE: 11 April 2007

Markus Hauser
MARKUS HAUSER

DATE: 12 April 2007
17 April 2007

Ulrich Knauer
Witness for Markus Hauser
Ulrich Knauer

DATE: _____

ULRICH KNAUER

DATE: _____

Witness for Ulrich Knauer

DATE: _____

ANTON LEIDL

DATE: _____

Witness for Anton Leidl

PATENT
REEL: 019779 FRAME: 0939

PATENT
REEL: 039839 FRAME: 0061

Attorney Docket No: 14219-142US1/P2004,0720 US N

assigns, without further compensation to perform such lawful acts and to sign such further applications, assignments, Preliminary Statements and other lawful documents as the Assignee may reasonably request to effectuate fully this assignment.

DATE: _____

MARKUS HAUSER

DATE: _____

Witness for Markus Hauser

DATE: _____

ULRICH KNAUER

DATE: _____

Witness for Ulrich Knauer

DATE: 11 April 2007


ANTON LEIDL

DATE: 11 April 2007


Witness for Anton Leidl

PATENT
REEL: 019779 FRAME: 0947

PATENT
REEL: 039839 FRAME: 0062

Attorney Docket No: 14219-142US1/P2004,0720 US N

DATE: April 4, 2007

Evelyn Riha
EVELYN RIHA

DATE: 4.4.2007
April 4th 2007

[Signature]
Witness for Evelyn Riha
[Signature]

DATE: _____

GERD RIHA

DATE: _____

Witness for Gerd Riha

DATE: _____

ULRIKE ROSLER

DATE: _____

Witness for Ulrike Rosler

DATE: _____

WERNER RUILE

DATE: _____

Witness for Werner Ruile

PATENT
REEL: 019779 FRAME: 0940

PATENT
REEL: 039839 FRAME: 0063

Attorney Docket No: 14219-142US1/P2004,0720 US N

DATE: _____

EVELYN RIHA

DATE: _____

Witness for Evelyn Riha

DATE: April 5, 2007

Evelyn Riha

EVELYN RIHA

DATE: April 5th, 2007
J. Rys April 09, 2007

Jane Riha

Witness for Evelyn Riha
Stephanie Rys

DATE: _____

ULRIKE ROSLER

DATE: _____

Witness for Ulrike Rosler

DATE: _____

WERNER RUILE

DATE: _____

Witness for Werner Ruile

PATENT
REEL: 019779 FRAME: 0944

PATENT
REEL: 039839 FRAME: 0064

Attorney Docket No: 14219-142USL/P3004,0720 US 01

DATE: _____

EVELYN RIHA

DATE: _____

Witness for Evelyn Riha

DATE: _____

GERD RIHA

DATE: _____

Witness for Gerd Riha

DATE: 10 April 2007

Ulrike Rosler

ULRIKE ROSLER

DATE: 20 April 2007
20 April 2007

Markus Hauer

Witness for Ulrike Rosler
Markus Hauer

DATE: _____

WERNER RUIE

DATE: _____

Witness for Werner Rulle

PATENT
REEL: 019779 FRAME: 0948

PATENT
REEL: 039839 FRAME: 0065

Attorney Docket No. 14219-14219S1/P2004.0720 US N

DATE: 05/04/2007

[Signature]
CLEMENS RUPPEL

DATE: Sidharic Pop
02/05/2007

[Signature]
Witness for Clemens Ruppel

DATE: _____

GERD SCHOLL

DATE: _____

Witness for Gerd Scholl

DATE: _____

ULRICH WOLFF

DATE: _____

Witness for Ulrich Wolff

21568358400

PATENT
REEL: 019779 FRAME: 0941

PATENT
REEL: 039839 FRAME: 0066

Attorney Docket No: 14219-142US1/P2004,0720 US N

DATE: _____

CLEMENS RUPPEL

DATE: _____

Witness for Clemens Ruppel

19 June 2016

Gerd Scholl / G. Scholl

DATE: April 4th 2007

Gerd Scholl

GERD SCHOLL

April 4th 2007

Insauche Scholl
R. Scholl

DATE: April 4th 2007

Witness for Gerd Scholl

DATE: _____

ULRICH WOLFF

DATE: _____

Witness for Ulrich Wolff

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PATENT
REEL: 019779 FRAME: 0945

PATENT
REEL: 039839 FRAME: 0067

Attorney Docket No: 14219-142US1/P2004,0720 US N

DATE: _____

CLEMENS RUPPEL

DATE: _____

Witness for Clemens Ruppel

DATE: _____

GERD SCHOLL

DATE: _____

Witness for Gerd Scholl

DATE: July 23, 2016
2. August 2007

Ulrich Wolf
Ulrich Wolf

ULRICH WOLFF

DATE: 2. August 2007

Wolfgang
Wolfgang

Witness for Ulrich Wolff

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PATENT
REEL: 019779 FRAME: 0949

PATENT
REEL: 039839 FRAME: 0068

AUG. 30. 2007 2:51PM

(3) FISH & RICHARDSON 6175428906

449 89 SENO 3580 58. 17

Attorney Docket No: 14219-1421JS1/P2004,0720 IJS N

DATE: _____

EVELYN RIHA

DATE: _____

Witness for Evelyn Riha

DATE: _____

GERD RIHA

DATE: _____

Witness for Gerd Riha

DATE: _____

ULRIKE ROSLER

DATE: _____

Witness for Ulrike Rosler

DATE: April 5th, 2007

Werner Ruhl

WERNER RULH

DATE: April 5th, 2007
April 5th, 2007

Ulrike Rosler

Witness for Werner Ruhl
Ulrike Rosler

PATENT
REEL: 019779 FRAME: 0952