# PATENT ASSIGNMENT

# Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

# **CONVEYING PARTY DATA**

Name	Execution Date
Dr. Heiner Bayer	10/10/2008
Hellmut Freudenberg	09/08/2008
Axel Ganster	10/07/2008
Dr. Christoph Hamann	10/09/2008
Dr. Oliver Hennig	10/20/2008
Dr. Jens Dahl Jensen	10/07/2008
Dr. Gunter Lugert	10/08/2008
Dr. Randolf Mock	10/08/2008
Dr. Carsten Schuh	10/13/2008

### **RECEIVING PARTY DATA**

Name:	Siemens Aktiengesellschaft
Street Address:	Wittelsbacherplatz 2
City:	Munich
State/Country:	GERMANY
Postal Code:	80333

# PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	12298116

# **CORRESPONDENCE DATA**

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 512.457.2123

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Address Line 2: 401 Congress Avenue #3200

PATENT

REEL: 022911 FRAME: 0828

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ATTORNEY DOCKET NUMBER:	03869.105922
NAME OF SUBMITTER:	Todd Rosson
Total Attachments: 34	
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For good and valuable consideration, I/we, the undersigned

Dr. Heiner Bayer

Dr. neiner bay

residing at: Donaustr. 4h

82140 Olching GERMANY

**Axel Ganster** 

residing at:

Ursulinenring 12

84419 Schwindegg

**GERMANY** 

Dr. Oliver Hennig

residing at:

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81543 München

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93080 Grossberg

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Dr. Jens Dahl Jensen

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Kirschenallee 7

14050 Berlin

**GERMANY** 

Dr. Randolf Mock

residing at:

Weissdornbogen 15 85662 Hohenbrunn

**GERMANY** 

hereby sell, assign, and transfer to

Siemens Aktiengesellschaft

a German corporation

organized and existing under the laws of

**GERMANY** 

having its (their) principal place of business

in München; GERMANY

herein the "Assignee(s)", its (their) successor(s), assigns and legal representatives the entire and exclusive right, title and interest in and for the United States and for any of the Contracting States bound by the PCT on the international filing date, in all and to any improvements in the

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Applicants File No.

2006P04304WOUS

and filed as PCT-application

PCT/EP2007/053990

PATENT REEL: 022911 FRAME: 0830

hereby agree that said Assignee(s) may apply for and receive Letters Patent for said improvements in its (their) own name and that when requested without charge to but at the expense of said Assignee(s), its (their) successor(s), assigns, and legal representatives, to carry out in good faith the intent and purpose of this agreement, the undersigned will execute all divisional, continuing substitute, renewal, reissue and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee(s), its (their) successor(s), assigns and legal representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee(s), its (their) successor(s), assigns, or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements in said Assignee(s), its (their) successor(s), assigns, and legal representatives; and

hereby covenant with said Assignee(s), its (their) successor(s), assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed had been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

	Date: \(\times 10.10.2008\)	Dr. Heiner Bayer
1	Witnesses: Xhikuf-Ller (printed name: Dr. E. Ritchaupt-Kleisse	Witnesses: Wans U. 4
	(printed name: At. E. Ritchaupt-Kleisse	(printed name: Dr. K. Hollin)
•		
	Date:	Hellmut Freudenberg
	Witnesses:	Witnesses:
	(printed name:)	(printed name:)

(printed name: \_\_\_\_\_\_) (printed name: \_\_\_\_\_\_)

4

Date:	Dr. Randolf Mock
Witnesses:	Witnesses:
(printed name:)	(printed name:)

For good and valuable consideration, I/we, the undersigned

Dr. Heiner Bayer

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**Axel Ganster** 

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Dr. Günter Lugert

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Dr. Randolf Mock

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PATENT REEL: 022911 FRAME: 0834

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Date:	Dr. Heiner Bayer
Witnesses:	Witnesses:
(printed name:)	(printed name:)
Date:	Helling Form olen by Hellmut Freudenberg
Witnesses: Midr, Kai Ball	Witnesses: Furter Effenberger )
(printed name: <u>FichLer, Vai-Axel</u> )	(printed name: Giurter Effen berger

Date: Witnesses: (printed name:)	Axel Ganster  Witnesses:
Date: Witnesses:(printed name:)	Dr. Christoph Hamann Witnesses:
Date:  Witnesses:  (printed name:)	Dr. Oliver Hennig  Witnesses:
Date: Witnesses:(printed name:)	Dr. Jens Dahl Jensen  Witnesses:  (printed name:
Date: Witnesses:(printed name:)	Dr. Günter Lugert  Witnesses:

Date:	
	Dr. Randolf Mock
Witnesses:	Witnesses:
(printed name:)	(printed name:

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Dr. Heiner Bayer

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PATENT REEL: 022911 FRAME: 0838

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Date:	Dr. Heiner Bayer
Witnesses:	Witnesses:
(printed name:)	(printed name:)
Date:	Hellmut Freudenberg
Witnesses:	Witnesses:
(printed name:)	(printed name:)

Date: \(\sum_{07.10.08}\)  Witnesses: \(\sum_{000}\)  (printed name: \(\sum_{000}\)  Mon. \(\lambda\)	Axel Ganster  Witnesses:  (printed name:   ### ### ###########################
Date: Witnesses: (printed name:)	Dr. Christoph Hamann  Witnesses:
Date:  Witnesses:  (printed name:)	Dr. Oliver Hennig  Witnesses:
Date: 07, 10, 2008  Witnesses: Raymond Ulrich  (printed name: Raymond Ullrich)	Jans Dahl Jansey  Dr. Jens Dahl Jansey  Witnesses:  (printed name: OLIVER STIER)
Date: Witnesses:	Dr. Günter Lugert  Witnesses:

Date:	
<del></del>	Dr. Randolf Mock
Witnesses:	Witnesses:
(printed name:)	(printed name:)

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PATENT REEL: 022911 FRAME: 0842

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Date:	Dr. Heiner Bayer	
Witnesses:	Witnesses:	
(printed name:)	(printed name:)	
Date:	Hellmut Freudenberg	
Witnesses:	Witnesses:	
(printed name:)	(printed name:)	

3

2006P04304WOUS

Dr. Randolf Mock
Witnesses:
(printed name:)

For good and valuable consideration, I/we, the undersigned

Dr. Heiner Bayer

residing at:

Donaustr. 4h 82140 Olching GERMANY

**Axel Ganster** 

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Ursulinenring 12 84419 Schwindegg

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PATENT REEL: 022911 FRAME: 0846

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Date:	Dr. Heiner Bayer	
Witnesses:	Witnesses:	
(printed name:)	(printed name:)	
Date:		
	Hellmut Freudenberg	
Witnesses:	Witnesses:	
(printed name:)	(printed name:)	

3

2006P04304WOUS

Date: X 08. 10.7808

2Witnesses:

(printed name: Brunner Christian) (printed name: Michael Eggerdinger)

**PATENT** 

REEL: 022911 FRAME: 0849

For good and valuable consideration, I/we, the undersigned

Dr. Heiner Bayer

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**Axel Ganster** 

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PATENT REEL: 022911 FRAME: 0850

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Witnesses:	Witnesses:	
(printed name:)	(printed name:)	
Date:	Hellmut Freudenberg	
Witnesses:	Witnesses:	
(printed name:)	(printed name:)	

Date: \( \times \frac{\text{07. lo. 08}}{\text{Witnesses:}}\) \( \text{Mon. Van Sucher} \) \( \text{(printed name:} \frac{\text{Mon. Van Sucher}}{\text{Sucher}} \)	2006P04304WOUS  Axel Ganster  Witnesses:  (printed name:
Date: Witnesses: (printed name:)	Dr. Christoph Hamann  Witnesses:
Date: Witnesses: (printed name:)	Dr. Oliver Hennig  Witnesses:
Date: 07, 10, 2008  Witnesses: Raymond Ullrich	Dr. Jens Dahl Jensen  Witnesses:  (printed name: OLIVER STIER)
Date: Witnesses:	Dr. Günter Lugert  Witnesses:

Date:	
<del></del>	Dr. Randolf Mock
Witnesses:	Witnesses:
(printed name:)	(printed name:)

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OFFINANCE

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PATENT REEL: 022911 FRAME: 0854

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hereby covenant with said Assignee(s), its (their) successor(s), assigns and legal representatives that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed had been made to others by the undersigned, and that full right to convey the same as herein expressed is possessed by the undersigned.

Date:	Dr. Heiner Bayer
Witnesses:	Witnesses:
(printed name:	(printed name:)
Date:	Hellmut Freudenberg
Witnesses:	Witnesses:
(printed name:	(printed name:)

Date:	Axel Ganster
Witnesses:	Witnesses:
(printed name:)	
Date:	Dr. Christoph Hamann
Witnesses:	Witnesses:
(printed name:)	(printed name:)
Date:	Dr. Oliver Hennig
Witnesses:	Witnesses:
(printed name:)	
Date:	Dr. Jens Dahl Jensen
Witnesses:	Witnesses:
(printed name:)	(printed name:)
	Tan:
Date: 8.10.2008	Dr. Gühter Lugert
Witnesses: Auga France 2	Witnesses: Musing Lth
(printed name: Armin Sieber	(printed name: Maximilian Fleiya

Date:	Dr. Randolf Mock
Witnesses:	Witnesses:
printed name:)	(printed name:)

For good and valuable consideration, I/we, the undersigned

Dr. Heiner Bayer

residing at:

Donaustr. 4h 82140 Olching GERMANY

**Axel Ganster** 

residing at:

Ursulinenring 12 84419 Schwindegg

**GERMANY** 

Dr. Oliver Hennig

residing at:

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Dr. Günter Lugert

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Dr. Christoph Hamann

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Dr. Jens Dahl Jensen

residing at:

Kirschenallee 7 14050 Berlin GERMANY

Dr. Randolf Mock

residing at:

Weissdornbogen 15 85662 Hohenbrunn GERMANY

hereby sell, assign, and transfer to

Siemens Aktiengesellschaft

a German corporation

organized and existing under the laws of

**GERMANY** 

having its (their) principal place of business

in München; GERMANY

herein the "Assignee(s)", its (their) successor(s), assigns and legal representatives the entire and exclusive right, title and interest in and for the United States and for any of the Contracting States bound by the PCT on the international filing date, in all and to any improvements in the

(Title:) PIEZOELECTRIC ACTUATOR WITH GRADIENT ENCAPSULATION LAYER AND METHOD FOR THE PRODUCTION THEREOF

disclosed in the PCT international application for Letters Patent designating the United States and any of the Contracting States bound by the PCT on the international filing date, said application being identified in our records as

Applicants File No.

2006P04304WOUS

and filed as PCT-application

PCT/EP2007/053990

PATENT REEL: 022911 FRAME: 0858

hereby agree that said Assignee(s) may apply for and receive Letters Patent for said improvements in its (their) own name and that when requested without charge to but at the expense of said Assignee(s), its (their) successor(s), assigns, and legal representatives, to carry out in good faith the intent and purpose of this agreement, the undersigned will execute all divisional, continuing substitute, renewal, reissue and all other patent applications on any and all said improvements; execute all rightful oaths, assignments, powers of attorney and other papers; communicate to said Assignee(s), its (their) successor(s), assigns and legal representatives all facts known to the undersigned relating to said improvements and the history thereof; and generally do everything possible which said Assignee(s), its (their) successor(s), assigns, or legal representatives shall consider desirable for aiding in securing and maintaining proper patent protection for said improvements and for vesting title to said improvements and all applications for patents and all patents on said improvements in said Assignee(s), its (their) successor(s), assigns, and legal representatives; and

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Date:	Dr. Heiner Bayer	
Witnesses:	Witnesses:	
(printed name:)	(printed name:)	
Date:		
	Hellmut Freudenberg	
Witnesses:	Witnesses:	
(printed name:)	(printed name:)	

3

2006P04304WOUS

Date: X 08. 10.7808

2Witnesses:

(printed name: Brunner Christian) (printed name: Michael Eggerdinger)

**PATENT** 

REEL: 022911 FRAME: 0861

For good and valuable consideration, I/we, the undersigned

Dr. Carsten Schuh

residing at:

residing at:

Heideweg 9 85598 Baldham GERMANY

residing at:

residing at:

residing at:

residing at:

residing at:

residing at:

hereby sell, assign, and transfer to

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(Title:) PIEZOELECTRIC ACTUATOR WITH GRADIENT ENCAPSULATION LAYER AND METHOD FOR THE PRODUCTION THEREOF

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Date: <u>13.10.2008</u>		Can	Can 6 Sell	
		Dr. Carsten Sch	nuh	
Witnesses	s: Pobert Butter	Witnesses:	Stelgu	Deunelo-

RECORDED: 07/03/2009

(printed name: Robert Bathelt ) (printed name: W. De De