

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Artificial Muscle, Inc.	05/10/2010

RECEIVING PARTY DATA

Name:	Bayer MaterialScience AG
Street Address:	51368
City:	Leverkusen
State/Country:	GERMANY

PROPERTY NUMBERS Total: 49

Property Type	Number
Patent Number:	7521840
Application Number:	12404237
Patent Number:	7595580
Application Number:	11933277
Application Number:	11953798
Application Number:	11361703
Patent Number:	7626319
Application Number:	12628002
Application Number:	11361683
Application Number:	11361704
Application Number:	11394659
Application Number:	60776861
Patent Number:	7521847
Patent Number:	7679267
Application Number:	12724321
Patent Number:	7492076

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**PATENT
 REEL: 024411 FRAME: 0308**

Application Number:	12352559
Application Number:	12494071
Application Number:	60870059
Application Number:	11956269
Application Number:	60825094
Application Number:	11670385
Application Number:	60941222
Application Number:	12128576
Application Number:	60954791
Application Number:	11953815
Application Number:	12234023
Application Number:	60937787
Application Number:	12163554
Application Number:	12766771
Application Number:	60977081
Application Number:	12244695
Application Number:	60989695
Application Number:	11953789
Application Number:	11953784
Application Number:	12724291
Application Number:	61111648
Application Number:	12358142
Application Number:	61111316
Application Number:	61253007
Application Number:	61146279
Application Number:	61158806
Application Number:	61161374
Application Number:	60806497
Application Number:	61111329
Application Number:	61176417
Application Number:	61301177
Application Number:	61338315
Application Number:	61314941

CORRESPONDENCE DATA

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Address Line 4: Pittsburgh, PENNSYLVANIA 15205-9741

ATTORNEY DOCKET NUMBER:	ARTIFICIAL MUSCLE, INC.
NAME OF SUBMITTER:	Veronica Thompson

Total Attachments: 22
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ASSIGNMENT

Whereas, Artificial Muscle Inc., a corporation organized and existing under the laws of Delaware and having a place of business at 749 N. Mary, Sunnyvale, CA 94085 USA, is the 100% Owner by assignment of an undivided right, title and interest in and to all Intellectual Property as listed on attached Schedule A.

Now therefore, for good and valuable consideration, receipt of which is hereby acknowledged, Artificial Muscle Inc. by these presents does sell, transfer, convey and assign unto Bayer MaterialScience AG, a corporation of Germany, located at 51368, Leverkusen, Germany, and its successors, the entire right, title and interest in and to said Intellectual Property as listed on Schedule A, and in and to any applications filed in any form or embodiment thereof, including any applications filed in any foreign country based thereon, including the right to file said foreign applications under the provisions of the International Convention, and also including any continuation, divisional, reissue and reexamination applications based thereon; and also the entire right, title and interest in and to any and all patents, reissues or extensions thereof to be obtained.

Signed at Sunnyvale, CA this 10 day of May, 2010.

[Signature]
By: _____
ARTIFICIAL MUSCLE, INC.

Signed at Leverkusen this 4th day of May, 2010

[Signature]
By: Dr. Wink
BAYER MATERIALSCIENCE AG

[Signature]
By: _____
BAYER MATERIALSCIENCE AG

SCHEDULE A

Application No.: US 11/085,804

Filed: March 21, 2005

Patent No.: 7,521,840

Issued: April 21, 2009

Title: HIGH-PERFORMANCE ELECTROACTIVE POLYMER TRANSDUCERS

US Application No.: US 12/404,237

Filed: March 13, 2009

Title: HIGH-PERFORMANCE ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: PCT/US2006/010120

Filed: March 21, 2006

Title: HIGH-PERFORMANCE ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: AU 2006227189

Filed: March 21, 2006

Title: HIGH-PERFORMANCE ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: BR PI0611459-8

Filed: March 21, 2006

Title: HIGH-PERFORMANCE ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: CA 2,602,542

Filed: March 21, 2006

Title: HIGH-PERFORMANCE ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: CN 200680008946.6

Filed: March 21, 2006

Title: HIGH-PERFORMANCE ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: EP 06739058.3

Filed: March 21, 2006

Title: HIGH-PERFORMANCE ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: HK 08108147.7

Filed: July 23, 2008

Title: HIGH-PERFORMANCE ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: IL 186033

Filed: March 21, 2006

Title: HIGH-PERFORMANCE ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: IN 6456/DELNP/2007
Filed: March 21, 2006
Title: HIGH-PERFORMANCE ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: JP 2008-503680
Filed: March 21, 2006
Title: HIGH-PERFORMANCE ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: KR 10-2007-7024031
Filed: March 21, 2006
Title: HIGH-PERFORMANCE ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: RU 2007138344
Filed: March 21, 2006
Title: HIGH-PERFORMANCE ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: SG 200705859-7
Filed: March 21, 2006
Patent No.: SG 135237
Issued: March 31, 2010
Title: HIGH-PERFORMANCE ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: US 11/085,798
Filed: March 21, 2005
Patent No.: 7,595,580
Issued: September 29, 2009
Title: ELECTROACTIVE POLYMER ACTUATED DEVICES

Application No.: US 11/933,277
Filed: October 31, 2007
Title: ELECTROACTIVE POLYMER ACTUATED DEVICES

Application No.: US 11/953,798
Filed: December 10, 2007
Title: OPTICAL LENS DISPLACEMENT SYSTEMS

Application No.: PCT/US2008/086293
Filed: December 10, 2008
Title: OPTICAL LENS IMAGE STABILIZATION SYSTEMS

Application No.: TW 097147738
Filed: December 10, 2008
Title: OPTICAL LENS IMAGE STABILIZATION SYSTEMS

Application No.: US 11/361,703
Filed: February 24, 2006
Title: HIGH-SPEED ACRYLIC ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: PCT/US2006/010369
Filed: March 21, 2006
Title: HIGH-SPEED ACRYLIC ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: US 11/361,676
Filed: February 24, 2006
Patent No.: 7,626,319
Issued: December 1, 2009
Title: THREE-DIMENSIONAL ELECTROACTIVE POLYMER ACTUATED DEVICES

Application No.: US 12/628,002
Filed: November 30, 2009
Title: THREE-DIMENSIONAL ELECTROACTIVE POLYMER ACTUATED DEVICES

Application No.: US 11/361,683
Filed: February 24, 2006
Title: ELECTROACTIVE POLYMER ACTUATED MOTORS

Application No.: TBD (Continuation of US 11/361,683, not yet filed)
Filed: TBD
Title: ELECTROACTIVE POLYMER ACTUATED MOTORS

Application No.: US 11/361,704
Filed: February 24, 2006
Title: ELECTROACTIVE POLYMER ACTUATED LIGHTING

Application No.: US 11/394,659
Filed: March 31, 2006
Title: POWER CIRCUITRY FOR HIGH-FREQUENCY APPLICATIONS

Application No.: US 60/776,861
Filed: February 24, 2006
Title: ELECTROACTIVE POLYMER ACTUATORS

Application No.: US 11/679,150
Filed: February 26, 2007
Patent No.: 7,521,847
Issued: April 21, 2009
Title: HIGH-PERFORMANCE ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: US 12/426,856
Filed: April 20, 2009
Patent No.: 7,679,267
Issued: March 16, 2010
Title: HIGH-PERFORMANCE ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: US 12/724,321
Filed: March 15, 2010
Title: HIGH-PERFORMANCE ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: US 11/618,577
Filed: December 29, 2006
Patent No.: 7,492,076
Issued: February 17, 2009
Title: ELECTROACTIVE POLYMER TRANSDUCERS BIASED FOR INCREASED OUTPUT

Application No.: US 12/352,559
Filed: January 12, 2009
Title: ELECTROACTIVE POLYMER TRANSDUCERS BIASED FOR INCREASED OUTPUT

Application No.: US 12/494,071
Filed: June 29, 2009
Title: ELECTROACTIVE POLYMER TRANSDUCERS BIASED FOR OPTIMAL OUTPUT

Application No.: PCT/US2007/089117
Filed: December 28, 2007
Title: ELECTROACTIVE POLYMER TRANSDUCERS BIASED FOR OPTIMAL OUTPUT

Application No.: EP 07870083.8
Filed: December 28, 2007
Title: ELECTROACTIVE POLYMER TRANSDUCERS BIASED FOR OPTIMAL OUTPUT

Application No.: US 60/870,059
Filed: December 14, 2006
Title: COMPLIANT FAULT-TOLERANT MATERIALS AND METHODS OF FABRICATING THE SAME

Application No.: US 11/956,269
Filed: December 13, 2007
Title: FAULT-TOLERANT MATERIALS AND METHODS OF FABRICATING THE SAME

Application No.: PCT/US2007/087485
Filed: December 13, 2007
Title: FAULT-TOLERANT MATERIALS AND METHODS OF FABRICATING THE SAME

Application No.: EP 07865661.8
Filed: December 13, 2007
Title: FAULT-TOLERANT MATERIALS AND METHODS OF FABRICATING THE SAME

Application No.: JP 2009-541601
Filed: December 13, 2007
Title: FAULT-TOLERANT MATERIALS AND METHODS OF FABRICATING THE SAME

Application No.: US 60/825,094
Filed: September 08, 2006
Title: HIGH-VOLTAGE POWER SUPPLIES

Application No.: US 11/670,385
Filed: February 01, 2007
Title: HIGH-VOLTAGE POWER SUPPLIES

Application No.: US 60/941,222
Filed: May 31, 2007
Title: OPTICAL SYSTEMS EMPLOYING COMPLIANT ELECTROACTIVE MATERIALS

Application No.: US 12/128,576
Filed: May 28, 2008
Title: OPTICAL SYSTEMS EMPLOYING COMPLIANT ELECTROACTIVE MATERIALS

Application No.: TBD (Continuation of US 12/128,576, not yet filed)
Filed: TBD
Title: OPTICAL SYSTEMS EMPLOYING COMPLIANT ELECTROACTIVE MATERIALS

Application No.: PCT/US2008/065010
Filed: May 28, 2008
Title: OPTICAL SYSTEMS EMPLOYING COMPLIANT ELECTROACTIVE MATERIALS

Application No.: EP 08769764.5
Filed: May 28, 2008
Title: OPTICAL SYSTEMS EMPLOYING COMPLIANT ELECTROACTIVE MATERIALS

Application No.: KR 10-2009-7027486
Filed: May 28, 2008
Title: OPTICAL SYSTEMS EMPLOYING COMPLIANT ELECTROACTIVE MATERIALS

Application No.: US 60/954,791
Filed: August 08, 2007
Title: OPTICAL LENS SYSTEMS

Application No.: US 11/953,815
Filed: December 10, 2007
Title: OPTICAL LENS IMAGE STABILIZATION SYSTEMS

Application No.: PCT/US2008/065800
Filed: June 04, 2008
Title: OPTICAL LENS IMAGE STABILIZATION SYSTEMS

Application No.: KR 10-2010-7005162
Filed: June 04, 2008
Title: OPTICAL LENS IMAGE STABILIZATION SYSTEMS

Application No.: US 12/234,023
Filed: September 19, 2008
Title: ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: PCT/US2009/057537
Filed: September 18, 2009
Title: ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: US 60/937,787
Filed: June 29, 2007
Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR SENSORY FEEDBACK APPLICATIONS

Application No.: US 12/163,554
Filed: June 27, 2008
Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR SENSORY FEEDBACK APPLICATIONS

Application No.: US 12/766,771
Filed: April 23, 2010
Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR SENSORY FEEDBACK APPLICATIONS

Application No.: PCT/US2008/068614
Filed: June 27, 2008
Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR SENSORY FEEDBACK APPLICATIONS

Application No.: EP 08772188.2
Filed: June 27, 2008
Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR SENSORY FEEDBACK APPLICATIONS

Application No.: TBD (Japanese National Phase of PCT/US2008/068614)
Filed: June 27, 2008
Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR SENSORY FEEDBACK APPLICATIONS

Application No.: KR 10-2010-7002146
Filed: June 27, 2008
Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR SENSORY FEEDBACK APPLICATIONS

Application No.: US 60/977,081
Filed: October 02, 2007
Title: FLUID CONTROL SYSTEMS EMPLOYING COMPLIANT ELECTROACTIVE MATERIALS

Application No.: US 12/244,695
Filed: October 02, 2008
Title: FLUID CONTROL SYSTEMS EMPLOYING COMPLIANT ELECTROACTIVE MATERIALS

Application No.: US 60/989,695
Filed: November 21, 2007
Title: TACTILE FEEDBACK DEVICE

Application No.: TBD (U.S. National Phase of PCT/US2008/068614)

Filed:

Title: TACTILE FEEDBACK DEVICE

Application No.: PCT/US2008/084430

Filed: November 21, 2008

Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR TACTILE FEEDBACK DEVICES

Application No.: (Canadian National Phase of PCT/US2008/084430, not yet filed)

Filed: November 21, 2008

Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR TACTILE FEEDBACK DEVICES

Application No.: (Chinese National Phase of PCT/US2008/084430, not yet filed)

Filed: November 21, 2008

Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR TACTILE FEEDBACK DEVICES

Application No.: EP 08851141.5

Filed: November 21, 2008

Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR TACTILE FEEDBACK DEVICES

Application No.: (Indian National Phase of PCT/US2008/084430, not yet filed)

Filed: November 21, 2008

Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR TACTILE FEEDBACK DEVICES

Application No.: (Japanese National Phase of PCT/US2008/084430, not yet filed)

Filed: November 21, 2008

Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR TACTILE FEEDBACK DEVICES

Application No.: (South Korean National Phase of PCT/US2008/084430, not yet filed)

Filed: November 21, 2008

Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR TACTILE FEEDBACK DEVICES

Application No.: (Singapore National Phase of PCT/US2008/084430, not yet filed)

Filed: November 21, 2008

Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR TACTILE FEEDBACK DEVICES

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Application No.: TW 097146059
Filed: November 27, 2008
Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR TACTILE FEEDBACK DEVICES

Application No.: US 11/953,789
Filed: December 10, 2007
Title: LENS SHUTTER AND APERTURE CONTROL DEVICES

Application No.: US 11/953,784
Filed: December 10, 2007
Patent No.: 7,679,839
Issued: March 16, 2010
Title: OPTICAL LENS DISPLACEMENT SYSTEMS

Application No.: US 12/724,291
Filed: March 15, 2010
Title: OPTICAL LENS DISPLACEMENT SYSTEMS

Application No.: US 61/111,648
Filed: November 05, 2008
Title: SURFACE DEFORMATION ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: US 12/358,142
Filed: January 22, 2009
Title: SURFACE DEFORMATION ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: PCT/US2009/063441
Filed: November 05, 2009
Title: SURFACE DEFORMATION ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: TW 098137649
Filed: November 05, 2009
Title: SURFACE DEFORMATION ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: US 61/111,316
Filed: November 04, 2008
Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR HAPTIC FEEDBACK

Application No.: US 61/253,007
Filed: October 19, 2009
Title: FLEXURE ASSEMBLIES AND FIXTURES FOR HAPTIC FEEDBACK DEVICES

Application No.: PCT/US2009/063307
Filed: November 04, 2009
Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR TACTILE FEEDBACK DEVICES

Application No.: US 61/146,279
Filed: January 21, 2009
Title: METHODS AND DEVICES FOR DRIVING ELECTROACTIVE POLYMERS

Application No.: PCT/US2010/021676
Filed: January 21, 2010
Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR TACTILE FEEDBACK DEVICES

Application No.: TW 099102024
Filed: January 25, 2010
Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR TACTILE FEEDBACK DEVICES

Application No.: US 61/158,806
Filed: March 10, 2009
Title: HAPTIC DEVICES

Application No.: PCT/US2010/026829
Filed: March 10, 2010
Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR TACTILE FEEDBACK DEVICES

Application No.: TW 099107098
Filed: March 10, 2010
Title: ELECTROACTIVE POLYMER TRANSDUCERS FOR TACTILE FEEDBACK DEVICES

Application No.: US 61/161,374
Filed: March 18, 2009
Title: WAFER LEVEL OPTICAL SYSTEM

Application No.: PCT/US2010/027871
Filed: March 18, 2010
Title: WAFER LEVEL OPTICAL SYSTEM

Application No.: TW 099108101
Filed: March 18, 2010
Title: WAFER LEVEL OPTICAL SYSTEM

Application No.: US 60/806,497
Filed: July 03, 2006
Title: ELECTROACTIVE POLYMER TRANSDUCERS

Application No.: US 61/111,329
Filed: November 04, 2008
Title: FILTER SOUND DRIVE WAVEFORM FOR EPAM HAPTICS AND EPAM ACTUATION PASSIVE FILM COUPLING

Application No.: US 61/176,417
Filed: May 07, 2009
Title: HAPTIC DEVICES

Application No.: TBD (PCT of US 61/176,417, not yet filed)
Filed: TBD
Title: HAPTIC DEVICES

Application No.: US 61/301,177
Filed: February 03, 2010
Title: HAPTIC GRIP CASE

Application No.: US 61/338,315
Filed: February 16, 2010
Title: ARTIFICIAL MUSCLE ACTUATORS FOR HAPTIC DISPLAYS: SYSTEM DESIGN TO MATCH THE DYNAMICS AND TACTILE SENSITIVITY OF THE HUMAN FINGERPAD

Application No.: US 61/314,941
Filed: March 17, 2010
Title: STATISTIC ANALYSIS OF AUDIO SIGNALS FOR GENERATION OF HAPTIC EVENTS