

PATENT ASSIGNMENT

Electronic Version v1.1
Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
NXP B.V.	07/04/2011
RECEIVING PARTY DATA	
Name:	Knowles Electronics Asia PTE. Ltd.
Street Address:	50 Havelock Rd. #02-767
City:	Singapore
State/Country:	SINGAPORE
Postal Code:	160050
PROPERTY NUMBERS Total: 62	
Property Type	Number
Patent Number:	7306073
Patent Number:	7277555
Patent Number:	6799361
Patent Number:	7043046
Patent Number:	6510232
Patent Number:	6526152
Patent Number:	6463161
Patent Number:	6831989
Patent Number:	6697496
Patent Number:	6052463
Patent Number:	6072886
Patent Number:	6038327
Patent Number:	6681024
Patent Number:	6075866
Patent Number:	6178252

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PATENT
REEL: 026665 FRAME: 0310

CH \$2480.00 7306073

Patent Number:	6160897
Patent Number:	5524151
Patent Number:	5727077
Patent Number:	6628790
Patent Number:	6490361
Patent Number:	6370257
Patent Number:	6671384
Patent Number:	7667370
Patent Number:	7796773
Patent Number:	7889877
Patent Number:	7522741
Application Number:	10589923
Patent Number:	7416047
Patent Number:	7895727
Patent Number:	7926168
Patent Number:	7933429
Application Number:	12093633
Application Number:	11993650
Application Number:	11914741
Patent Number:	7866439
Application Number:	11995373
Application Number:	12092629
Application Number:	11917046
Application Number:	12065933
Application Number:	12301125
Application Number:	12303770
Application Number:	12306583
Application Number:	12376937
Application Number:	12513867
Application Number:	12513881
Application Number:	12513894
Application Number:	12515624
Application Number:	12581051
Application Number:	12666818
Application Number:	12671214

	12671031
Application Number:	12647373
Application Number:	12744497
Application Number:	12808241
Application Number:	12842280
Application Number:	12873782
Application Number:	12914833
Application Number:	13063846
Patent Number:	D584287
Patent Number:	D590811
Patent Number:	D582392
Patent Number:	D578104

CORRESPONDENCE DATA

Fax Number: (214)978-3099

Correspondence will be sent via US Mail when the fax attempt is unsuccessful.

Email: scarlett.pereida@bakermckenzie.com

Correspondent Name: Baker & McKenzie LLP

Address Line 1: 2001 Ross Avenue, Suite 2300

Address Line 4: Dallas, TEXAS 75201

ATTORNEY DOCKET NUMBER:	56184006.000018
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NAME OF SUBMITTER:	Michael Bales
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Total Attachments: 15

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Deed of Transfer of Patents

THE UNDERSIGNED:

- (1) **NXP B.V.**, a limited liability company incorporated in the Netherlands, with corporate seat in Eindhoven the Netherlands, and address at High Tech Campus 60, 5656AG Eindhoven, the Netherlands ("**Seller**" or "**NXP**"),

and

- (2) **Knowles Electronics Asia PTE. Ltd.**, a company incorporated under the laws of Singapore, with corporate seat at 50 Havelock Rd. #02-767 Singapore, 160050 ("**Assignee**").

hereinafter also collectively referred to as the "**Parties**",

HAVE AGREED AS FOLLOWS:

1. **Definitions**

When used in this Deed, the following capitalised terms shall have the meaning set forth below:

"**Affiliates**" means:

- (a) in respect of the Assignee, any and all Persons with respect to which, now or hereafter, Dover Corporation; or
- (b) in respect of NXP, any and all Persons with respect to which, now or hereafter, NXP Semiconductors N.V.,

directly or indirectly, holds more than fifty percent (50%) of the nominal value of, or more than fifty percent (50%) of the voting power at general meetings, or has the power to appoint and to dismiss a majority of the directors or otherwise to direct the activities of such Person, or any other Person qualifying as a 'subsidiary' as referred to in Section 2:24a Netherlands Civil Code, excluding in the case of Affiliates of NXP or NXP Semiconductors N.V.: (i) Trident Microsystems, Inc., and (ii) as of the Closing Date, the Group.

"**Deed**" shall mean this deed of transfer of the Patents listed in the Schedule.

"**Patents**" means patents, petty patents, design patents, provisionals, utility models and any applications therefor, including any divisionals, continuation (in part), re-examinations, renewals and re-issues thereof, in any country in the world, as well as any inventions described in invention disclosures and any registered Community designs.

"Schedule" means the schedule to this Deed.

Any capitalised term used in this Deed but not defined shall have the same meaning as ascribed thereto in the IPTLA.

2. Transfer of ownership Patents; license to NXP

On certain terms and conditions as specified in an Intellectual Property Transfer and License Agreement concluded between (i) NXP, (ii) NXP Semiconductors Beijing Limited, (iii) NXP Semiconductors Austria GmbH ((i and (ii) together, the "**Group**") and (iv) Dover Corporation dated December 22, 2010, (the "**IPTLA**"), NXP has, on behalf of itself and its Affiliates, assigned all its rights, title and interest in and to the Patents listed in the Schedule to Assignee and Dover Corporation has accepted such assignment on behalf of Assignee and on behalf of the Assignee has granted a license on such Patents to NXP and its Affiliates on certain terms and conditions as specified in the IPTLA.

3. Variation to Deed

No variation, extension, cancellation, or translation of any expressed terms of this Deed (including the Schedule) shall be binding upon NXP or Assignee unless made in writing and signed by a duly authorised representative of NXP and Assignee.

4. Additional assignment documents; further assurance

Assignee will be responsible for effectuating the recordation of the assignment and transfer of the Patents listed in the Schedule. In the event that in addition to this Deed the Assignee or any of its Affiliates has to submit other documents to patent authorities in order to effectuate the recordation of the assignment and transfer of the Patents listed in the Schedule, Assignee hereby warrants and guarantees that such other documents will not contain language that in any way prejudices the provisions of this Deed or the IPTLA, notwithstanding any mandatory provisions of local law. NXP and Assignee shall, at each other's request, execute and do (or procure to be executed and done by any of their respective Affiliates) all such deeds, documents, acts and things as the requesting party may from time to time reasonably require in order to effectuate or to formalise the transfer of the Patents to Assignee on a jurisdiction by jurisdiction basis and to cause the Patents to be recorded at the relevant patent registers around the world in the name of Assignee or any other Affiliate designated by Assignee.

5. Observance of legal requirements

Assignee and its Affiliates undertake to observe and act in accordance with all applicable legal conditions and terms required in order to effectuate the recordation of the assignment and transfer of the Patents listed in the Schedule.

6. Costs for recordation

The costs for the recordation of the assignment and transfer of the Patents in the relevant registers will be borne by Assignee.

7. Applicable law and jurisdiction

This Agreement shall be governed by and in accordance with the laws of the Netherlands. Any action or proceeding in respect of any claim arising out of or related to this Agreement shall be solely conducted by NXP and the Assignee in accordance with the dispute settlement procedure provided in the SPA.

IN EVIDENCE WHEREOF, the Parties have caused this Deed to be signed by their duly authorised representatives on 4 July, 2011

**KNOWLES ELECTRONICS ASIA
PTE. LTD.**

NXP B.V.

By: 
(signature)

(signature)

Name:

Name: Jeffrey Niew

Title:

Title Authorized Representative
& Director

5. Observance of legal requirements

Assignee and its Affiliates undertake to observe and act in accordance with all applicable legal conditions and terms required in order to effectuate the recordation of the assignment and transfer of the Patents listed in the Schedule.

6. Costs for recordation

The costs for the recordation of the assignment and transfer of the Patents in the relevant registers will be borne by Assignee.

7. Applicable law and jurisdiction

This Agreement shall be governed by and in accordance with the laws of the Netherlands. Any action or proceeding in respect of any claim arising out of or related to this Agreement shall be solely conducted by NXP and the Assignee in accordance with the dispute settlement procedure provided in the SPA.

IN EVIDENCE WHEREOF, the Parties have caused this Deed to be signed by their duly authorised representatives on 4 July, 2011

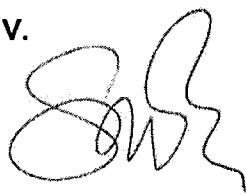
**KNOWLES ELECTRONICS ASIA
PTE. LTD.**

NXP B.V.

By: _____
(signature)

Name:

Title

By:  _____
(signature)

Name: Charles Smit

Title: Authorized Representative

EXECUTION VERSION

Schedule

Title	Region	Application Number	Filing Date	Publication Number	Patent Number
LOW HEIGHT DIAPHRAGM WITH STIFFENING GROOVES	CN	200380103958.3	10/31/2003	1714597-A	200380103958.3
LOW HEIGHT DIAPHRAGM WITH STIFFENING GROOVES	US	10/535297	10/31/2003	2006-0070796-A1	7306073
LOUDSPEAKER WITH A SUBSEQUENTLY ATTACHED AMPLIFIER	CN	3818225.4	7/18/2003	1672458	3818225.4
LOUDSPEAKER WITH A SUBSEQUENTLY ATTACHED AMPLIFIER	US	10/523435	7/18/2003	2005-0244028-A1	7277555
MEMBRANE COMBINED WITH A FASTENING RING	US	10/071371	2/8/2002	2002-0110257-A1	6799361
MEMBRANE COMBINED WITH A FASTENING RING	US	10/931111	8/30/2004	2005-0028348-A1	7043046
STABILIZING WALLS BETWEEN COIL HOLDING PROTUBERANCES	CN	805614.5	12/27/2000	1421114-A	1218609
STABILIZING WALLS BETWEEN COIL HOLDING PROTUBERANCES	US	09/769183	1/25/2001	2001-0010725-A1	6510232
DAEMPENDE HALTEFOLIEN FUER SCHWINGSPULEN-ANSCHLUSSDRAEHTE	CN	805611	12/27/2000	1359604-A	1205840
Moving Coil and Elastic Holding Elements for the Connecting Leads of the Moving Coil	US	09/769181	1/25/2001	2001-0010728-A1	6526152
MEMBRANE COMBINED WITH A FASTENING RING	CN	2800290.3	1/31/2002	1606896-A	2800290.3
DIVIDED HOLDER FOR COIL CONTACT SPRINGS	CN	1803174.9	10/9/2001	1475093-A	1803174.9
DIVIDED HOLDER FOR COIL CONTACT SPRINGS	US	09/982261	10/17/2001	2002-0071589-A1	6463161
TRANSDUCER WITH HOLDING CLAWS FOR COIL LEADS	US	10/262797	10/2/2002	2003-0068065-A1	6831989
TRANSDUCER WITH HOLDING CLAWS FOR COIL LEADS	CN	2819511.6	9/30/2002	1565146-A	2819511.6
MEMBRANE WITH AN IMPROVED PLEATS AREA	CN	2802954.2	6/26/2002	1502214-A	2802954.2
MEMBRANE WITH AN IMPROVED PLEATS AREA	US	10/194161	7/11/2002	2003-0112995-A1	6697496
LOUDSPEAKER WITH ABUTMENTS	US	09/030483	2/25/1998		6052463
CAPSULE COMPRISING CENTRALLY POSITIONED SPRING CONTACTS	CN	98800193.4	2/5/1998	1217863-A	1155291
CAPSULE COMPRISING CENTRALLY POSITIONED SPRING CONTACTS	DE	98900975.8	2/5/1998	0943224-A1	69815808.3
CAPSULE COMPRISING CENTRALLY POSITIONED SPRING CONTACTS	FR	98900975.8	2/5/1998	0943224-A1	943224
CAPSULE COMPRISING CENTRALLY POSITIONED SPRING CONTACTS	GB	98900975.8	2/5/1998	0943224-A1	943224
CAPSULE COMPRISING CENTRALLY POSITIONED SPRING CONTACTS	US	09/033200	3/2/1998		6072886
CAPSULE COMPRISING A DOUBLE-PURPOSE CLOSING PART	CN	98800192.6	2/5/1998	1217865-A	1162041
CAPSULE COMPRISING A DOUBLE-PURPOSE CLOSING PART	DE	98900977.4	2/5/1998	0945043-A1	69816028.2
CAPSULE COMPRISING A DOUBLE-PURPOSE CLOSING PART	FR	98900977.4	2/5/1998	0945043-A1	945043
CAPSULE COMPRISING A DOUBLE-PURPOSE CLOSING PART	GB	98900977.4	2/5/1998	0945043-A1	945043
CAPSULE COMPRISING A DOUBLE-PURPOSE CLOSING PART	US	09/033201	3/2/1998		6038327
LOUDSPEAKER WITH DIRECTIONAL EFFECT TO BE BUILT-IN IN SEATS	DE	98928489.8	7/6/1998	0947121-A1	69829943.4
LOUDSPEAKER WITH DIRECTIONAL EFFECT TO BE BUILT-IN IN SEATS	FR	98928489.8	7/6/1998	0947121-A1	947121
LOUDSPEAKER WITH DIRECTIONAL EFFECT TO BE BUILT-IN IN SEATS	GB	98928489.8	7/6/1998	0947121-A1	947121
LOUDSPEAKER WITH DIRECTIONAL EFFECT TO BE BUILT-IN IN SEATS	US	09/128835	8/4/1998	2001-0040975-A1	6681024
MEMBRANE WITH AXIAL WAVESHAPED SUPPORTING ZONE	CN	99800561.4	2/11/1999	1263685-A	99800561.4
MEMBRANE WITH AXIAL WAVESHAPED SUPPORTING ZONE	DE	99902732.9	2/11/1999	0974243-A1	69911861.1
MEMBRANE WITH AXIAL WAVESHAPED SUPPORTING ZONE	FR	99902732.9	2/11/1999	0974243-A1	974243

MEMBRANE WITH AXIAL WAVESHAPED SUPPORTING ZONE
 MEMBRANE WITH AXIAL WAVESHAPED SUPPORTING ZONE
 MEMBRAN WITH U-SHAPED COIL SUPPORTING ZONE
 MEMBRAN WITH U-SHAPED COIL SUPPORTING ZONE
 MEMBRAN WITH U-SHAPED COIL SUPPORTING ZONE
 MEMBRAN WITH U-SHAPED COIL SUPPORTING ZONE
 APPARATUS FOR ON-EAR-MODE AND FROM-EAR-MODE
 EL. DYN. TRANSDUCER HAVING VENT HOLES IN STATOR PART
 EL. DYN. TRANSDUCER HAVING VENT HOLES IN STATOR PART
 EL. DYN. TRANSDUCER HAVING VENT HOLES IN STATOR PART
 EL. DYN. TRANSDUCER HAVING VENT HOLES IN STATOR PART
 EL. DYN. TRANSDUCER STATOR PIERCING ENCLOSURE WALL
 EL. DYN. TRANSDUCER STATOR PIERCING ENCLOSURE WALL
 EL. DYN. TRANSDUCER STATOR PIERCING ENCLOSURE WALL
 EL. DYN. TRANSDUCER STATOR PIERCING ENCLOSURE WALL
 MOBILE PHONE WITH TWO TRANSDUCERS
 MOBILE PHONE WITH TWO TRANSDUCERS
 ACOUSTIC RESISTANCES OF MOBILE PHONE AT CASING SEPAR. ZONES
 ACOUSTIC RESISTANCES OF MOBILE PHONE AT CASING SEPAR. ZONES
 ACOUSTIC RESISTANCES OF MOBILE PHONE AT CASING SEPAR. ZONES
 ACOUSTIC RESISTANCES OF MOBILE PHONE AT CASING SEPAR. ZONES
 ACOUSTIC RESISTANCES OF MOBILE PHONE AT CASING SEPAR. ZONES
 CAPSULE CONTACTS AND PRINTED BOARD CONTACTS EXTEND AXIALLY
 WITH RESPECT TO PCB SHIFTABLE HOLDER FOR CAPSULE
 WITH RESPECT TO PCB SHIFTABLE HOLDER FOR CAPSULE
 WITH RESPECT TO PCB SHIFTABLE HOLDER FOR CAPSULE
 WITH RESPECT TO PCB SHIFTABLE HOLDER FOR CAPSULE
 WITH RESPECT TO PCB SHIFTABLE HOLDER FOR CAPSULE
 CAPSULE CONTACTS AND PRINTED BOARD CONTACTS EXTEND AXIALLY
 LOW HEIGHT DIAPHRAGM WITH STIFFENING GROOVES
 ULTRASONIC DEVICE FOR GENERATING A MEDIUM STREAM
 ULTRASONIC DEVICE FOR GENERATING A MEDIUM STREAM
 HOLDING DEVICE FOR COMBINING TRANSDUCERS
 HOLDING DEVICE FOR COMBINING TRANSDUCERS
 MOBILE PHONE WITH SOUND CONVEYING MEANS
 MOBILE PHONE WITH SOUND CONVEYING MEANS
 SOUND GENERATION BY MEANS OF A MODULAR DIAPHRAGM

GB	99902732.9	2/11/1999	0974243-A1	974243
US	09/251234	2/16/1999		6075866
DE	99901803.9	2/4/1999	0976301-A1	69917148.2
FR	99901803.9	2/4/1999	0976301-A1	976301
GB	99901803.9	2/4/1999	0976301-A1	976301
US	09/249969	2/12/1999		6178252
US	09/307909	5/11/1999		6160897
DE	94200416.9	2/18/1994	0615398-A1	59405929.1
FR	94200416.9	2/18/1994	0615398-A1	615398
GB	94200416.9	2/18/1994	0615398-A1	615398
US	08/422666	4/10/1995		5524151
DE	94200412.8	2/18/1994	0616483-A1	59404378.6
FR	94200412.8	2/18/1994	0616483-A1	616483
GB	94200412.8	2/18/1994	0616483-A1	616483
US	08/772189	12/20/1996		5727077
CN	801833.2	8/7/2000	1402953-A	1242648
US	09/649671	8/28/2000		6628790
CN	99804022.3	12/24/1999	1306731-A	1154394
DE	99967015.1	12/24/1999	1072167-A1	69912416.6
FR	99967015.1	12/24/1999	1072167-A1	1072167
GB	99967015.1	12/24/1999	1072167-A1	1072167
US	09/491627	1/26/2000		6490361
US	09/517725	3/2/2000		6370257
CN	800396.3	3/7/2000	1297669-A	1157993
DE	922500.4	3/7/2000	1080603-A1	60006909.5
FR	922500.4	3/7/2000	1080603-A1	1080603
GB	922500.4	3/7/2000	1080603-A1	1080603
US	09/533490	3/23/2000		6671384
CN	800744.6	2/18/2000	1310929-A	1158896
EP	3758542.9	10/31/2003	1576849-A	
CN	200480005237.3	2/26/2004	1754405-A	200480005237.3
US	10/546306	2/26/2004	2008-0191582-A1	7667370
EP	4714867.1	2/26/2004	1600033-A	
CN	200480005531.4	2/26/2004	1757259	200480005531.4
CN	200480020115.1	7/14/2004	1823517-A	200480020115.1
US	10/564542	7/14/2004	2006-0171551-A1	7796773
CN	200480018339.9	6/28/2004	1813133-A	200480018339.9

SOUND GENERATION BY MEANS OF A MODULAR DIAPHRAGM
CAPSULE CONTACTS AND PRINTED BOARD CONTACTS EXTEND AXIALLY
CAPSULE CONTACTS AND PRINTED BOARD CONTACTS EXTEND AXIALLY
CAPSULE CONTACTS AND PRINTED BOARD CONTACTS EXTEND AXIALLY
MOBILE PHONE WITH TWO TRANSDUCERS
MOBILE PHONE WITH TWO TRANSDUCERS
MOBILE PHONE WITH TWO TRANSDUCERS
RFID CHIP IN AN ELECTRO-ACOUSTIC TRANSDUCER
SOUND OUTLET WITH A LENGTH INDEPENDENT OF WALL THICKNESS
SOUND OUTLET WITH A LENGTH INDEPENDENT OF WALL THICKNESS
MEMBRANE WITH SPRAYED PLASTIC MATERIAL ON IT
MEMBRANE WITH SPRAYED PLASTIC MATERIAL ON IT
MEMBRANE WITH SPRAYED PLASTIC MATERIAL ON IT
OVAL SPEAKER MEMBRANE WITH REDUCED LATERAL FORCES
OVAL SPEAKER MEMBRANE WITH REDUCED LATERAL FORCES
OVAL SPEAKER MEMBRANE WITH REDUCED LATERAL FORCES
ULTRASONIC DEVICE FOR GENERATING A MEDIUM STREAM
ULTRASONIC DEVICE FOR GENERATING A MEDIUM STREAM
ULTRASONIC DEVICE FOR GENERATING A MEDIUM STREAM
MEMBRANE COMBINED WITH A FASTENING RING
SHAPING OF A CIRCULAR WINDED VOICE COIL INTO ANOTHER SHAPE
SHAPING OF A CIRCULAR WINDED VOICE COIL INTO ANOTHER SHAPE
APPARATUS FOR ON-EAR-MODE AND FROM-EAR-MODE
APPARATUS FOR ON-EAR-MODE AND FROM-EAR-MODE
APPARATUS FOR ON-EAR-MODE AND FROM-EAR-MODE
APPARATUS FOR ON-EAR-MODE AND FROM-EAR-MODE
NEW CONTACTING METHOD FOR A MOVED COIL VIA COATED FOILS FOR
NEW CONTACTING METHOD FOR A MOVED COIL VIA COATED FOILS FOR
NEW CONTACTING METHOD FOR A MOVED COIL VIA COATED FOILS FOR
NEW CONTACTING METHOD FOR A MOVED COIL VIA COATED FOILS FOR
CAPSULE COMPRISING A DOUBLE-PURPOSE CLOSING PART
LOUDSPEAKER WITH DIRECTIONAL EFFECT TO BE BUILT-IN IN SEATS
EL. DYN. TRANSDUCER HAVING VENT HOLES IN STATOR PART
MOBILE PHONE WITH TWO TRANSDUCERS
WITH RESPECT TO PCB SHIFTABLE HOLDER FOR CAPSULE
CAPSULE CONTACTS AND PRINTED BOARD CONTACTS EXTEND AXIALLY
STABILIZING WALLS BETWEEN COIL HOLDING PROTUBERANCES

US	10/562873	6/28/2004	2006-0159568-A1	7889877
GB	909209.9	2/18/2000		1116413
DE	909209.9	2/18/2000		60025590.5
FR	909209.9	2/18/2000		1116413
GB	956410.5	8/7/2000		1145531
DE	956410.5	8/7/2000		60025620
FR	956410.5	8/7/2000		1145531
CN	200480033508.6	11/12/2004	1883227	
CN	200480034915.9	11/24/2004	1943269-A	
US	10/580055	11/24/2004	2007-0147646-A1	7522741
EP	5702924.1	2/8/2005	1719385-A	
CN	200580005098.9	2/8/2005	1922923-A	
US	10/589923	2/8/2005	2007-0178242-A1	
EP	5718760.1	4/19/2005	1759562-A	
CN	200580013340.7	4/19/2005	CN101002502A	
US	11/587236	4/19/2005		7416047
GB	4714868.9	2/26/2004		1600036
DE	4714868.9	2/26/2004		602004001764.7
FR	4714868.9	2/26/2004		1600036
US	11/373341	8/30/2004	2006-0150395-A1	7895727
CN	200580028554.1	8/16/2005	CN101116159A	
US	11/574246	8/16/2005	2008-0001016-A1	7926168
GB	99915981.7	5/6/1999		1002413
DE	99915981.7	5/6/1999		69935057.3
ES	99915981.7	5/6/1999		1002413
FR	99915981.7	5/6/1999		1002413
EP	5801365.7	9/20/2005	1795043-A	
CN	200580039839.5	9/20/2005	CN101061748A.	
IN	2998/DELNP/2007	9/20/2005	WO2006/033075	
US	11/575933	9/20/2005	2008-0205689-A1	7933429
JP	98-529240	2/5/1998	00-509935	4126620
JP	1999-511891	7/6/1998	2001-502878	4263252
JP	94-25494	2/23/1994	94-269088	3194664
JP	2001-521026	8/7/2000	2003-508810	4261104
JP	2000-608848	3/7/2000	2002-541691	4264200
JP	00-604649	2/18/2000	02-539700	4198888
JP	01-554656	12/27/2000	03-521185	

DAEMPENDE HALTEFOLIEN FUER SCHWINGSPULEN-ANSCHLUSSDRAEHTE
 DIVIDED HOLDER FOR COIL CONTACT SPRINGS
 MEMBRANE WITH AN IMPROVED PLEATS AREA
 SOUND PANEL CONCEPTS
 SOUND PANEL CONCEPTS
 LOUDSPEAKER WITH COMPOUND MEMBRANE FOR USE IN SMALL VOLUME
 LOUDSPEAKER WITH COMPOUND MEMBRANE FOR USE IN SMALL VOLUME
 LOUDSPEAKER WITH COMPOUND MEMBRANE FOR USE IN SMALL VOLUME
 LOUDSPEAKER WITH COMPOUND MEMBRANE FOR USE IN SMALL VOLUME
 LOUDSPEAKER WITH COMPOUND MEMBRANE FOR USE IN SMALL VOLUME
 Sound Panel Concepts
 Sound Panel Concepts
 Mode engineering of correlated oscillations and wave propagation
 Rectangular membrane with special edges
 Compliance definition and stress release structures for membranes
 Compliance definition and stress release structures for membranes
 Compliance definition and stress release structures for membranes
 Compliance definition and stress release structures for membranes
 Variable crease parameters to achieve continuous compliance
 Variable crease parameters to achieve continuous compliance
 Variable crease parameters to achieve continuous compliance
 Rectangular membrane with special edges
 Rectangular membrane with special edges
 Loudspeaker headphone adapter
 Loudspeaker headphone adapter
 Loudspeaker headphone adapter
 Frequency-response optimization of vibrating plate by damping
 Sound Panel Concepts
 Sound Panel Concepts
 Sound Panel Concepts
 Membranloses Mikrofon mit Hilfe von Lichtinterferenz
 STABILIZING WALLS BETWEEN COIL HOLDING PROTUBERANCES
 STABILIZING WALLS BETWEEN COIL HOLDING PROTUBERANCES
 STABILIZING WALLS BETWEEN COIL HOLDING PROTUBERANCES
 DAEMPENDE HALTEFOLIEN FUER SCHWINGSPULEN-ANSCHLUSSDRAEHTE
 DAEMPENDE HALTEFOLIEN FUER SCHWINGSPULEN-ANSCHLUSSDRAEHTE
 DAEMPENDE HALTEFOLIEN FUER SCHWINGSPULEN-ANSCHLUSSDRAEHTE

JP	2001-554655	12/27/2000	2003-521184	
JP	02-537076	10/9/2001	04-512753	3863109
JP	2003-514846	6/26/2002		4121953
CN	200680007621.6	2/28/2006	CN 101142845A	200680007621.6
EP	6710979.3	2/28/2006	1859648-A	
CN	200680007620.1	3/1/2006		
EP	6710992.6	3/1/2006	1859649	
IN	7711/DELNP/2007	3/1/2006	7711/DELNP/2007	
KR	10-2007-7023010	3/1/2006		
US	11/908288	3/1/2006	2008-0202845-A1	7644801
CN	200680014805.5	10/29/2007	CN101204118A	
EP	6728043.8	4/25/2006	1878303-A	
US	12/093633	11/14/2006	2008-0292119-A1	
US	11/993650	6/14/2006	2010-0158304-A1	
CN	200680017335.8	11/19/2007	CN101180917A	
IN	9715/DELNP/2007	4/25/2006	9715/DELNP/2007 A	
KR	10-2007-7029284	4/25/2006		
US	11/914741	4/25/2006	2008-0212409-A1	
CN	200680018033.2	11/23/2007	CN101180915A	
KR	2007-7030147	5/19/2006		
US	11/915543	5/19/2006	2008-0230304-A1	7866439
CN	200680023845.6	6/14/2006	CN101213871A	
EP	6765746	6/14/2006	1900248	
CN	200680026127.4	7/13/2006	CN101223816A	
EP	6780071.4	7/13/2006	1911323-A	
US	11/995373	7/13/2006	2008-0298623-A1	
US	12/092629	11/6/2006	2008-0240482-A1	
CN	200680022320	6/14/2006	CN 101204116A	
EP	6765745.2	6/14/2006	1897402-A1	
US	11/917046	6/14/2006	2008-0273738-A1	
AT	A 1082/2006	6/27/2006		505021
FR	987447	12/27/2000		1228664
DE	987447	12/27/2000		60038247.8
GB	987447	12/27/2000		1228664
FR	987448.8	12/27/2000		1186204
DE	987448.8	12/27/2000		60038231.1
GB	987448.8	12/27/2000		1186204

Miniaturised micromechanical components fabricated using foil technology	EP	6795771.2	8/24/2006	1934134-A
Miniaturised micromechanical components fabricated using foil technology	CN	200680041572.8	8/24/2006	
Miniaturised micromechanical components fabricated using foil technology	US	12/065933	8/24/2006	2008-0247572-A1
Frequency-response optimization of vibrating plate by damping	CN	200680041733.3	11/6/2006	101305640-A
Frequency-response optimization of vibrating plate by damping	EP	6821338.8	11/6/2006	1949749-A
Mode engineering of correlated oscillations and wave propagation	CN	200680042355	11/14/2006	CN101310561A
Mode engineering of correlated oscillations and wave propagation	EP	6821427.9	11/14/2006	
Mode engineering of correlated oscillations and wave propagation	KR	2008-7014240	11/14/2006	
Cobweb back electrode for MEMS microphone	EP	9157442.6	4/6/2009	2239961-A
backplate design for body noise cancellation in MEMS capacitive microphone	EP	9157025.9	3/31/2009	2237571-A1
Prevention from rocking mode in loudspeaker applications	CN	200780017697.1	5/15/2007	101444109A
Prevention from rocking mode in loudspeaker applications	US	12/301125	5/15/2007	2009-0208048-A1
Improvement of acoustic properties of a piezo-speaker by designing appropriate boundary conditions	CN	200780021300.6	5/16/2007	
Improvement of acoustic properties of a piezo-speaker by designing appropriate boundary conditions	US	12/303770	5/16/2007	2010-0239109-A1
Membranloses Mikrofon mit Hilfe von Lichtinterferenz	CN	200780024294.X	6/26/2007	101480068A
Membranloses Mikrofon mit Hilfe von Lichtinterferenz	EP	7763720.5	6/26/2007	
Membranloses Mikrofon mit Hilfe von Lichtinterferenz	US	12/306583	6/26/2007	2009-0257753-A1
Silicon microphone with corrugated membrane and backplate	EP	9100240.2	4/20/2009	2244490
Multifunctional Micro Speaker with Optical Focus Systems	CN	200780029413	8/6/2007	CN101652980A
Multifunctional Micro Speaker with Optical Focus Systems	EP	7805318.8	8/6/2007	2055083
Multifunctional Micro Speaker with Optical Focus Systems	US	12/376937	8/6/2007	2010-065182-A1
DIVIDED HOLDER FOR COIL CONTACT SPRINGS	FR	1983533.9	10/9/2001	
DIVIDED HOLDER FOR COIL CONTACT SPRINGS	DE	1983533.9	10/9/2001	1374630
DIVIDED HOLDER FOR COIL CONTACT SPRINGS	GB	1983533.9	10/9/2001	60137585.8
SOUND GENERATION BY MEANS OF A MODULAR DIAPHRAGM	FR	4737203.2	6/28/2004	1374630
SOUND GENERATION BY MEANS OF A MODULAR DIAPHRAGM	DE	4737203.2	6/28/2004	1644639
SOUND GENERATION BY MEANS OF A MODULAR DIAPHRAGM system	GB	4737203.2	6/28/2004	602004019419
Controllable Microphone Cartridge	WO	IB2009/050324	1/27/2009	1644639
Very fast analysis of harmonic and anharmonic contents of an output signal.	EP	9157977.1	4/15/2009	2009/095852-A3
Use of damping material of membrane to glue components of electroacoustical transducer	EP	7826756.4	10/16/2007	2242288
Optimized material parameters to ensure process stability and lifetime for Speaker membranes	EP	7826758	10/16/2007	2090138
Very fast analysis of harmonic and anharmonic contents of an output signal.	CN	200780041473.4	10/16/2007	2080406-A
Very fast analysis of harmonic and anharmonic contents of an output signal.	US	12/513867	10/16/2007	2080407-A
Optimized material parameters to ensure process stability and lifetime for Speaker membranes	CN	200780041481.9	10/16/2007	101536551A
Optimized material parameters to ensure process stability and lifetime for Speaker membranes	US	12/513881	10/16/2007	2010-0246840-A1
Use of damping material of membrane to glue components of electroacoustical transducer	CN	200780041220.7	10/16/2007	101536542-A

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Use of damping material of membrane to glue components of electroacoustical transducer	US	12/513894	10/16/2007	2010-0046773-A1
Optimized geometry of compliant part of speaker-membrane to enlarge effective area	CN	200780043397	11/22/2007	101543093A
Optimized geometry of compliant part of speaker-membrane to enlarge effective area	EP	7849218.8	11/22/2007	2098096-A
Optimized geometry of compliant part of speaker-membrane to enlarge effective area	US	12/515624	11/22/2007	2010-0092011-A1
Sound recording by laser interferometry	WO	IB2009/053962	9/10/2009	2010/029509 - A1
Apparatus and method for detecting usage profiles of mobile devices	EP	9164442.7	7/2/2009	2278356
Transducer with resonant cavity	EP	9164440.1	7/2/2009	2271129
speaker and microphone placed side by side	EP	9166353.4	7/24/2009	2280557
Verwendung von sehr weichen Membranen bei Miniaturlautsprechern	EP	9163935.1	6/26/2009	2268058
zur fies Reduktion von Miniaturlautsprechern eingesetzt werden	EP	9169178.2	9/1/2009	2293592
Eyeglasses with a Planar Array of Microphones for Assisting Hearing	US	12/581051	10/16/2009	
transfer into air by using both sides of a heated layer.	EP	9174810.3	11/3/2009	2326106
Abkoppelsicke zur definierten Steuerung einer Plattenresonanz bei dyn.Wandler	EP	8763402.8	6/20/2008	2165565
Abkoppelsicke zur definierten Steuerung einer Plattenresonanz bei dyn.Wandler	KR	2010-7002048	6/20/2008	2010-0030658
Abkoppelsicke zur definierten Steuerung einer Plattenresonanz bei dyn.Wandler	US	12/666818	6/20/2008	2010-0215209-A1
New Mechanical Resonator for Vibration Functionality in Mobile-phone Applications	EP	9180139.9	12/21/2009	
to prevent cablejam with wired headsets => the bag	EP	8789465.5	7/28/2008	2177044
to prevent cablejam with wired headsets => the bag	US	12/671214	7/28/2008	2010-0193221-A1
MEMBRANE COMBINED WITH A FASTENING RING	AT	2715674.4	1/31/2002	
MEMBRANE COMBINED WITH A FASTENING RING	FR	2715674.4	1/31/2002	
MEMBRANE COMBINED WITH A FASTENING RING	DE	2715674.4	1/31/2002	
MEMBRANE COMBINED WITH A FASTENING RING	GB	2715674.4	1/31/2002	
MEMBRANE COMBINED WITH A FASTENING RING	EP	8789478.8	7/29/2008	2177049
Reduction of the size / optimization of a microphone by sealing between cap and mic sensor	KR	2010-7004633	7/29/2008	2010-0037166
Reduction of the size / optimization of a microphone by sealing between cap and mic sensor	US	12/671031	7/29/2008	2010-0195864-A1
Reduction of the size / optimization of a microphone by sealing between cap and mic sensor	US	12/647373	12/24/2009	
STAND-ALONE EAR BUD FOR ACTIVE NOISE REDUCTION	EP	10154426	2/23/2010	
Springdamping for vibra function in mobile phone applications	FR	3766559.3	7/18/2003	
LOUDSPEAKER WITH A SUBSEQUENTLY ATTACHED AMPLIFIER	DE	3766559.3	7/18/2003	
LOUDSPEAKER WITH A SUBSEQUENTLY ATTACHED AMPLIFIER	GB	3766559.3	7/18/2003	
LOUDSPEAKER WITH A SUBSEQUENTLY ATTACHED AMPLIFIER	EP	10160640.8	4/21/2010	
reliability and performance	KR	2010-7014215	11/21/2008	10-2010-0094538
Optical mousepointer with 2 ball joints	US	12/744497	11/21/2008	2011-0074678 A1
Optical mousepointer with 2 ball joints	WO	IB2010/051370	3/30/2010	2010/113107-A1
backplate design for body noise cancellation in MEMS capacitive microphone	EP	10163441.8	5/20/2010	
Optical microphone with on-chip optical resonator	WO	IB2010/051484	4/6/2010	2010/116324-A1
Cobweb back electrode for MEMS microphone	WO	IB2010/051634	4/15/2010	WO2010/119415 A1
MICROPHONE WITH ADJUSTABLE CHARACTERISTICS				

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1366638
60234505.7
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60331549.6
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MICROPHONE	WO	IB2010/051715	4/20/2010	2010/122487-A1	
Passive Body Noise compensation by Moving Electrode for MEMS microphones	KR	2010-7015879	12/9/2008	10-2010-0092517	
Passive Body Noise compensation by Moving Electrode for MEMS microphones	US	12/808241	12/9/2008		
Variable crease parameters to achieve continuous compliance	EP	10167414.1	6/25/2010	2227036	
Verwendung von sehr weichen Membranen bei Miniaturlautsprechern	WO	IB2010/052846	6/23/2010	2010/150203	
APPARATUS AND METHOD FOR DETECTING USAGE PROFILES OF MOBILE DEVICES	US	12/829117	7/1/2010	2011-0003615 A1	
Microphone with resonant cavity for improved performance	WO	IB2010/053023	7/1/2010	2011/0014050-A1	
MICROPHONE/SPEAKER DEVICE	US	12/842280	7/23/2010	2011-0064238 A1	
Loudspeaker system having improved sound reproduction	EP	10173765.8	8/23/2010		1889511
Variable crease parameters to achieve continuous compliance	FR	6765689.2	5/19/2006		602006016438.6
Variable crease parameters to achieve continuous compliance	DE	6765689.2	5/19/2006		1889511
Variable crease parameters to achieve continuous compliance	GB	6765689.2	5/19/2006		
ACOUSTIC MATERIAL	US	12/873782	9/1/2010	2011-0048844 A1	
Zusammengelötete Magnetsysteme	EP	9732142.6	4/3/2009	2277325	
Zusammengelötete Magnetsysteme	US	12/937377	4/3/2009	2011-0033077-A1	
IMPROVED MEMBRANE FOR AN ELECTROACOUSTIC TRANSDUCER	US	12/889120	9/23/2010	2011-0019866 A1	7946378
EYEGLASSES WITH A PLANAR ARRAY OF MICROPHONES FOR ASSISTING HEARING	CN	201010510295.9	10/13/2010	102045617-A	
Hearing-glasses with a planar array	EP	10187770.2	10/15/2010	2320680	
transfer into air by using both sides of a heated layer.	CN	201010535037.6	11/1/2010	102056066-A	
THEMO-ACOUSTIC LOUDSPEAKER	US	12/914833	10/28/2010	2011-0103621 A1	1889511
Variable crease parameters to achieve continuous compliance	ES	6765689.2	5/19/2006		1692911
SOUND OUTLET WITH A LENGTH INDEPENDENT OF WALL THICKNESS	FR	4799222.7	11/24/2004		602004029276.1
SOUND OUTLET WITH A LENGTH INDEPENDENT OF WALL THICKNESS	DE	4799222.7	11/24/2004		1692911
SOUND OUTLET WITH A LENGTH INDEPENDENT OF WALL THICKNESS	GB	4799222.7	11/24/2004		
Displacement	EP	10191594	11/17/2010		
special shape for an electro acoustic transducer's dome area	EP	10192756.4	11/26/2010		
Dual Voice Coil Microspeaker	EP	11150121.9	1/4/2011		
front end for electronically controlled functions like there are speaker performance maximization,	EP				
Button for optical joystick input device	EP	11153592.8	2/7/2011		
Speaker membrane with different stiffness on sides with different length	CN	200980129412.2	7/28/2009		
Speaker membrane with different stiffness on sides with different length	EP	9786732.9	7/28/2009	2308242-A1	
Speaker membrane with different stiffness on sides with different length	US	13/055938	7/28/2009		
Electronic Finger Active Noise Cancellation stand-alone ear pod	EP	10196630.7	12/22/2010	2339867	
New Mechanical Resonator for Vibration Functionality in Mobile-phone Applications	WO	IB2010/055953	12/20/2010		
SHAPING OF A CIRCULAR WINDED VOICE COIL INTO ANOTHER SHAPE	FR	5774788.3	8/16/2005		1784843
SHAPING OF A CIRCULAR WINDED VOICE COIL INTO ANOTHER SHAPE	DE	5774788.3	8/16/2005		602005025502.8
SHAPING OF A CIRCULAR WINDED VOICE COIL INTO ANOTHER SHAPE	ES	5774788.3	8/16/2005		1784843

SHAPING OF A CIRCULAR WINDED VOICE COIL INTO ANOTHER SHAPE	GB	5774788.3	8/16/2005	1784843
TRANSDUCER WITH HOLDING CLAWS FOR COIL LEADS	FR	2772675.1	9/30/2002	1438872
TRANSDUCER WITH HOLDING CLAWS FOR COIL LEADS	DE	2772675.1	9/30/2002	1438872
TRANSDUCER WITH HOLDING CLAWS FOR COIL LEADS	GB	2772675.1	9/30/2002	1438872
Sound recording by laser interferometry	CN	200980135485.2	9/10/2009	
Sound recording by laser interferometry	EP	9787164.4	9/10/2009	2338287
Sound recording by laser interferometry	JP		9/10/2009	
Sound recording by laser interferometry	KR	2011-7008291	9/10/2009	
Sound recording by laser interferometry	US	13/063846	9/10/2009	
Sound recording by laser interferometry	US	13/027043	2/14/2011	
PORTED MEMS MICROPHONE	WO	IB2011/050683	2/18/2011	
Springdamping for vibra function in mobile phone applications	FR	7735947.9	5/16/2007	2039214
Improvement of acoustic properties of a piezo-speaker by designing appropriate boundary conditions	DE	7735947.9	5/16/2007	2039214
Improvement of acoustic properties of a piezo-speaker by designing appropriate boundary conditions	GB	7735947.9	5/16/2007	2039214
Packaging of back-volume increasing materials for miniature loudspeakers	EP	11157097.4	3/4/2011	
RFID CHIP IN AN ELECTRO-ACOUSTIC TRANSDUCER	FR	4799132.8	11/12/2004	1688015
RFID CHIP IN AN ELECTRO-ACOUSTIC TRANSDUCER	DE	4799132.8	11/12/2004	1688015
RFID CHIP IN AN ELECTRO-ACOUSTIC TRANSDUCER	GB	4799132.8	11/12/2004	1688015
Prevention from rocking mode in loudspeaker applications	FR	7735924.8	5/15/2007	2025195
Prevention from rocking mode in loudspeaker applications	DE	7735924.8	5/15/2007	2025195
Prevention from rocking mode in loudspeaker applications	GB	7735924.8	5/15/2007	2025195
reliability and performance	WO	IB2011/051460	4/5/2011	
Optical mousepointer with 2 ball joints	FR	8854711.2	11/21/2008	2227733
Optical mousepointer with 2 ball joints	DE	8854711.2	11/21/2008	602008006272.4
Optical mousepointer with 2 ball joints	GB	8854711.2	11/21/2008	2227733
Laser Noise Cancelling System for Optical Sensor	EP	11166253.2	5/16/2011	
Receiver with magnetic dust insensitivity	EP	11164611.3	5/3/2011	
Passive Body Noise compensation by Moving Electrode for MEMS microphones	FR	8862615.5	12/9/2008	2223534
Passive Body Noise compensation by Moving Electrode for MEMS microphones	DE	8862615.5	12/9/2008	2223534
Passive Body Noise compensation by Moving Electrode for MEMS microphones	GB	8862615.5	12/9/2008	2223534
Optical microphone with on-chip optical resonator	WO	IB2011/052068	5/11/2011	
MEMS microphone: Stacked sensor design that can improve windnoise rejection, THD and SNR	WO	IB2011/052736	2011-06-22	
MEMS microphone: Stacked sensor design that can improve windnoise rejection, THD and SNR	EP	10168354.8	7/2/2010	

Multifunctional magnet coating

Integrated adhesive table

Acoustic sensor using evanescent light fields without moving parts

A microphone using materials inside the sensor or package to enlarge the acoustic back volume

Title	Region	Application Number	Filing Date	Publication Number	Patent Number
Variable crease parameters to achieve continuous compliance	EP	06765689.2	2006-05-19	1889511	1889511
Improvement of acoustic properties of a piezo-speaker by designing	EP	07735947.9	2007-05-16	2039214	2039214
Prevention from rocking mode in loudspeaker applications	EP	07735924.8	2007-05-15	2025195	2025195
Passive Body Noise compensation by Moving Electrode for MEMS mi	EP	08862615.5	2008-12-09	2223534-A1	2223534
Optical mousepointer with 2 ball joints	EP	08854711.2	2008-11-21	2227733	2227733
TRANSDUCER WITH HOLDING CLAWS FOR COIL LEADS	EP	02772675.1	2002-09-30	1438872-A	1438872
RFID CHIP IN AN ELECTRO-ACOUSTIC TRANSDUCER	EP	04799132.8	2004-11-12	1688015-A	1688015
SHAPING OF A CIRCULAR WINDED VOICE COIL INTO ANOTHER SHAPE	EP	05774788.3	2005-08-16	1784843-A	1784843