

## PATENT ASSIGNMENT COVER SHEET

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<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KNOWLES IPC (M) SDN. BHD.	04/27/2016
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<b>PROPERTY NUMBERS Total: 3</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	62235943
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<b>DATE SIGNED:</b>	09/30/2016
<b>Total Attachments: 7</b>	
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## PATENT ASSIGNMENT

This Patent Assignment (this "Assignment") is effective as of April 27, 2016 ("Effective Date") between **Knowles IPC (M) Sdn. Bhd.**, a company with limited liability organized under the laws of Malaysia, having its principal office and place of business at Plot 104, Lebuhraya Kampung Jawa, Bayan Lepas Industrial Estate, 11900 Penang, Malaysia (the "Assignor"), and **Knowles Electronics (Beijing) Co., Ltd.**, a private limited liability company incorporated in China, having its principal office and place of business at 20 Tongji Road South, Beijing Economic Technological Development Zone, Beijing, China, 10076 (the "Assignee").

WHEREAS, **Assignor**, the owner of the patents and/or patent applications set forth on Schedule A hereto, wishes to assign to **Assignee**, and **Assignee** wishes to obtain from **Assignor**, the patent applications and/or patents set forth on attached Schedule A, together with all associated patent rights to the inventions disclosed therein (the "Patents").

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is acknowledged, **Assignor** assigns to **Assignee** its entire right, title, and interest in and to the Patents, for the United States or for all other countries. This assignment includes, without limitation, any continuations, divisions, continuations-in-part, reissues, reexaminations, extensions or foreign equivalents of the Patents, and includes the subject matter of all claims that may be obtained therefrom, and all other corresponding rights that are or may be secured under the laws of the United States or any foreign country, now or hereafter in effect, for **Assignee's** own use and enjoyment, and for the use and enjoyment of **Assignee's** successors, assigns, or other legal representatives, as fully and entirely as the same would have been held and enjoyed by **Assignor** if this Assignment had not been made.

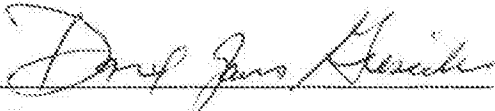
This Assignment includes all income, royalties, damages, or payments due or payable as of the Effective Date or thereafter, including, without limitation, all claims for damages by reason of past, present, or future infringement or other unauthorized use of the Patents, together with the right to sue for and to collect such damages for its own use and enjoyment, and for the use and enjoyment of its successors, assigns, or other legal representatives.

Except as may be expressly provided in a separate written agreement between the parties, **Assignor** makes no warranties, express or implied, with respect to the Patents.

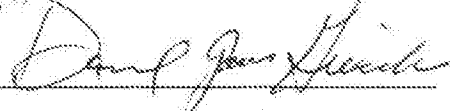
**Assignor** authorizes and requests that the Patent Office officials in the United States and in any and all foreign countries to record **Assignee** as owner of the Patents. **Assignor** shall, at the cost and expense of **Assignee**, take all reasonable actions and execute all documents necessary to record and perfect the interest of the **Assignee** in and to the Patents, and shall not enter into any agreement in conflict with this Assignment.

IN WITNESS WHEREOF, each party has caused this Assignment to be executed as of the indicated date by its duly authorized officer/representative.

Knowles IPC (M) Sdn. Bhd.  
(Assignor)

By:   
Name: Daniel James Giesecke  
Title: Director

Knowles Electronics (Beijing) Co.,  
Ltd.  
(Assignee)

By:   
Name: Daniel James Giesecke  
Title: Director



Schedule A

US Family	KS Ref. No.	US Ref. No.	Pub. No.	Status	Case Type	Title	Pub. Date	Pub. No.	Pub. Date	Pub. No.
81409332	81409332	112256-0087	US	Published	Continuation	Loudspeaker System With Improved Sound	03-Jun-15	147729-776	05-Nov-15	2015-0319517
81409332	81409332	112256-0090	US	Published	Continuation	Loudspeaker System With Improved Sound	03-Jun-15	147729-776	05-Nov-15	2015-0319517
81418507	81418507	112257-0068	DE	Granted	Designated EP	Loudspeaker with port comprising a particle filter	03-May-11	111646113	07-Nov-12	2521375
81418507	81418507	112256-0021	CN	Published	Designated PCT	Loudspeaker with port comprising a particle filter	03-May-12	201280023242	08-Jan-14	103503473
81418507	81418507	112256-0072	US	Granted	Designated PCT	Loudspeaker with port comprising a particle filter	03-May-12	137115592	20-Mar-14	261470079252
81419068	81419068	112256-0066	EP	Published	Priority	Packaging Of Acoustic Volume Increasing Materials For Loudspeakers	04-May-13	111570874	05-Sep-12	24885091
81419068	81419068	112256-0039	GB	Published	Designated PCT	Packaging Of Acoustic Volume Increasing Materials For Loudspeakers	05-Jun-12	2012300212663	08-Jun-13	103532078
81419068	81419068	112256-0066	GB	Published	Divisional	Packaging Of Acoustic Volume Increasing Materials For Loudspeakers	05-Jun-12	2015103864883	04-Nov-15	CN 1035205114 A
81419068	81419068	112256-0038	US	Granted	Designated PCT	Packaging Of Acoustic Volume Increasing Materials For Loudspeakers	05-Jun-12	147708456	26-Dec-13	261010341118
81419068	81419068	112256-0038	US	Published	Continuation	Packaging Of Acoustic Volume Increasing Materials For Loudspeakers	02-Jun-15	147708456	24-Sep-15	US 2015-0271581
81419068	81419068	112256-0035	US	Published	Continuation	Packaging Of Acoustic Volume Increasing Materials For Loudspeakers	02-Jun-15	147708456	24-Sep-15	US 2015-0271579 A1
A7000007	A7000007	112257-0055	DE	Granted	Designated EP	Electroacoustic Transducer Having Diaphragm With Coil Mounting Projections And Interposed Stabilizing Walls	27-Dec-10	098874479	05-Mar-08	600355272 A
A7000007	A7000007	112257-0056	EP	Granted	Designated PCT	Electroacoustic Transducer Having Diaphragm With Coil Mounting Projections And Interposed Stabilizing Walls	27-Dec-10	2001-554656	08-Jul-03	03-021135
A7000007	A7000007	112257-0052	US	Granted	Designated PCT	Electroacoustic Transducer Having Diaphragm With Coil Mounting Projections And Interposed Stabilizing Walls	25-Jan-01	087449183	02-Aug-01	200370010775 A1
A7010004	A7010004	112257-0032	GB	Granted	Designated PCT	Method For Manufacturing An Electroacoustical Transducer Comprising A Membrane Configuration	31-Jan-02	070007903	13-Apr-05	1638886 A
A7010004	A7010004	112257-0030	US	Granted	Designated PCT	Method For Manufacturing An Electroacoustical Transducer Comprising A Membrane Configuration	08-Feb-02	167072371	15-Aug-02	200270110257 A1
A7010004	A7010004	112257-0019	US	Granted	Divisional	Method For Manufacturing An Electroacoustical Transducer Comprising A Membrane Configuration	30-Aug-04	167931111	02-Oct-05	200570228348 A1
A7010004	A7010004	112257-0023	US	Granted	Divisional	Method For Manufacturing An Electroacoustical Transducer Comprising A Membrane Configuration	30-Aug-04	117713381	13-Jul-06	20067015395 A1
A7020049	A7020049	112257-0057	CN	Granted	Designated PCT	Electroacoustic Transducer With Built In Transducer Circuit	18-Jul-03	038182254	21-Sep-05	1677458
A7020049	A7020049	112257-0025	US	Granted	Designated PCT	Electroacoustic Transducer With Built In Transducer Circuit	18-Jul-03	167523435	03-May-05	200570244032 A1
A7020067	A7020067	112257-0027	GB	Granted	Designated PCT	Electroacoustic Transducer Comprising A Membrane With A Mobile Area Comprising Stiffening Grooves	31-Dec-03	210301039583	28-Dec-05	1724587 A
A7020067	A7020067	112257-0028	US	Granted	Designated PCT	Electroacoustic Transducer Comprising A Membrane With A Mobile Area Comprising Stiffening Grooves	31-Dec-03	167535257	06-Apr-06	200670200796 A1
A7030010	A7030010	112257-0029	GB	Granted	Designated PCT	Generating Device For Generating A Useful Stream Of A Medium, In Particular For Generating Sound	26-Feb-04	2104800002373	29-Mar-06	1754405 A
A7030010	A7030010	112257-0031	DE	Granted	Designated EP	Generating Device For Generating A Useful Stream Of A Medium, In Particular For Generating Sound	26-Feb-04	037148685	02-Aug-06	602004001164 A
A7030010	A7030010	112257-0030	US	Granted	Designated PCT	Generating Device For Generating A Useful Stream Of A Medium, In Particular For Generating Sound	26-Feb-04	107546306	14-Aug-08	20087031182 A1
A7030037	A7030037	112257-0032	US	Granted	Designated PCT	Device For Generating A Medium Stream	28-Jun-04	207562873	20-Jul-06	20067015958 A1
A7030062	A7030062	112257-0033	CN	Granted	Designated PCT	An Electro-Acoustic Transducer Comprising A Bias Circuit	12-Nov-04	3004600195086	20-Dec-06	1892227
A7030062	A7030062	112257-0038	DE	Granted	Designated EP	Electro-Acoustic Transducer Comprising An Electronic Circuit	17-Nov-04	047991318	09-Mar-11	6020040033753 A
A7030064	A7030064	112257-0035	DE	Granted	Designated EP	Electro-Acoustic Apparatus With A Channel Means To Change The Acoustic Output	24-Nov-04	047992227	22-Sep-10	6020040039763
A7030064	A7030064	112257-0034	US	Granted	Designated PCT	Electro-Acoustic Apparatus Comprising An Electro-Acoustic Transducer	24-Nov-04	107580155	28-Jun-07	200770347646 A1
A7040038	A7040038	112257-0036	CN	Granted	Designated PCT	Method Of And Device For Modifying The Properties Of A Membrane For An Electroacoustic Transducer	08-Feb-05	2105010059989	28-Feb-07	1027923 A

Schedule A

US Family	US Ref. No.	US Ref. No.	Pub. No.	Pub. Date	Pub. No.	Pub. Date	Pub. No.	Pub. Date	Pub. No.	Pub. Date		
A7040008	A70400080501	312257-00337	US	Granted	Designated PCT	Method Of And Device For Modifying The Properties Of A Membrane For An Electroacoustic Transducer	08-Feb-05	30-599-923	02-Aug-07	2007/0376243 A1	14-Jan-14	8-618-830
A7040007	A70400070001	312257-00338	US	Granted	Designated PCT	Diaphragm For A Loudspeaker With A Moving Coil	09-Apr-05	33-787-236	13-Sep-07	174-8863	26-Aug-08	7-616-087
A7040006	A70400060001	312257-00343	DE	Granted	Designated EP	Method Of Manufacturing A Coil	16-Aug-05	05-740-883			24-Dec-10	620305025502 B
A7040005	A70400050001	312257-00339	US	Granted	Designated PCT	Method Of Manufacturing A Coil	16-Aug-05	33-754-256	03-Jun-08	2008/0001016 A1	19-Apr-11	7-316-158
A7040073	A70400730001	312257-00401	CR	Granted	Designated PCT	Vibrating Element For An Electroacoustic Transducer	20-Sep-05	2005000198335	24-Oct-07	10-061738 A	19-Jun-14	202505003059833 5
A7040071	A70400710001	312256-00353	FR	Published	Designated PCT	Vibrating Element For An Electroacoustic Transducer	20-Sep-05	2899/0416197/2007	17-Aug-07	2005/0330075		
A7050025	A70500250001	312257-00342	FR	Granted	Designated PCT	Membrane With High Resistance Against Buckling And/Or Crumpling	01-Mar-06	2006000072021	09-Nov-08	201147622	21-Nov-12	21-0008000762021 3
A7050023	A70500230001	312256-00306	EP	Published	Designated PCT	Membrane With High Resistance Against Buckling And/Or Crumpling	01-Mar-06	06-7109307.6	28-Nov-07	38-596-83		
A7050022	A70500220001	312256-00305	FR	Published	Designated PCT	Membrane With High Resistance Against Buckling And/Or Crumpling	01-Mar-06	7713/241687/2007	04-Jul-08	7713/241687/2007		
A7050021	A70500210001	312257-00343	FR	Granted	Designated PCT	Membrane With High Resistance Against Buckling And/Or Crumpling	01-Mar-06	10-2035-7023010	17-Dec-07	1020070318627	03-Nov-12	10-1399689
A7050023	A70500230001	312257-00344	US	Granted	Designated PCT	Membrane With High Resistance Against Buckling And/Or Crumpling	01-Mar-06	317908-288	28-Jun-08	2808-0202845 A1	12-Jan-10	7-634-801
F 097574	F 0975740501	312257-00358	FR	Granted	Secondary	Loudspeaker And Telephone Device Comprising Such A Loudspeaker	25-Feb-98	09-0300883			18-Apr-00	6-952-463
K-0031	K-0031	312256-0114	DE	Published	Secondary	Integrated Speaker Assembly	16-Oct-14	10-507-152	23-Apr-15	US 2015-01103 B1 A1		
K-0031	K-0031	312256-0115	CN	Application	Designated PCT	Integrated Speaker Assembly	43919					
K-0031	K-0031	312256-0116	DE	Application	Designated PCT	Integrated Speaker Assembly	43919					
K-0031	K-0031	312256-0117	FR	Published	Secondary	Integrated Speaker Assembly	43919	18-50447594613	42110	W0 2015/0942246		
K-0031	K-0031	312256-0118	FR	Application	Secondary	Integrated Speaker Assembly	09-Oct-14	10-3155109	16-Jul-15	W0 2015/198830		
K-0077	K-0077	312256-0117	US	Application	Priority	Integrated Acoustic Receiver And Antenna Apparatus And Method of Operation	3-7-06-15	62-180-889				
K-0114	K-0114	312256-0118	US	Application	Priority	Speaker with Coil Antenna	15-Nov-15	62-193-281				
K-0171	K-0171	312256-0082	FR	Application	Priority	Acoustic Box Cover With Mesh Insert	23-Dec-15	2015-109410278				
K-0171	K-0171	312256-0083	CN	Application	Utility Model	Acoustic Box Cover With Mesh Insert	23-Dec-15	2015110849617				
K-0177	K-0177	312256-0085	FR	Application	Priority	Acoustic Box Insert Cover	23-Dec-15	2015-109988402				
K-0174	K-0174	312256-0086	CN	Application	Utility Model	Acoustic Box Insert Cover	23-Dec-15	2015-110842164				
K-0173	K-0173	312256-0092	US	Provisional	Priority	Membrane for Electroacoustic Transducer	19-Feb-16	62-757-546				
K-0174	K-0174	312256-0093	US	Provisional	Priority	Device for Electroacoustic Transducer and Method of Manufacturing Same	19-Jan-16	62-280-505				
K-0175	K-0175	312256-0094	US	Provisional	Priority	Membrane for Electroacoustic Transducer and Method of Manufacturing Same	22-Mar-16	62-311-532				
K-0176	K-0176	312256-0095	US	Provisional	Priority	Electrodynamic Loudspeaker Membrane with Molded Electrical Connections	22-Mar-16	62-311-525				
K-0177	K-0177	312256-0096	FR	Application	Secondary	Electrodynamic Transducer in Ultrasonic Mode	11-Feb-16	FR 2942016/050108				
K-0195	K-0195	312256-0100	US	Application	Secondary	Rotary Flux Acoustic Transducer	30-Dec-15	34-995-879				
K-0195	K-0195	312256-0098	WO	Application	Secondary	Rotary Flux Acoustic Transducer	30-Dec-15	102015206032				
K-0212	K-0212	312256-0111	US	Provisional	Priority	Membrane for Loud Speaker	16-Mar-16	62-309-378				
K-0213	K-0213	312256-0112	US	Provisional	Priority	Electroacoustic Transducer with Improved Frame Construction	17-Mar-16	62-309-945				
K-0214	K-0214	312256-0113	US	Provisional	Priority	Electroacoustic Transducer with Improved Thermal Characteristics	17-Mar-16	62-309-946				
K-0226	K-0226	312256-0089	US	Provisional	Priority	Loudspeaker Membrane and Method of Making Same	01-Oct-15	62-235-943				
K-0226	K-0226	312256-0097	US	Provisional	Priority	Loudspeaker Membrane and Method of Making Same (provisional 2 of 2)	13-Mar-16	62-231-925				
EA2010081	EA20100810001	312256-0030	CN	Published	Designated PCT	Transducer with Motion Control	01-Mar-13	201300125373	28-Nov-14	108172834		
EA2010081	EA20100810001	312256-0031	DE	Published	Designated PCT	Transducer with Motion Control	01-Mar-13	112013012944	24-Dec-14	1120130129415		
EA2010081	EA20100810001	312256-0033	FR	Application	Designated PCT	Transducer with Motion Control	01-Mar-13	79397581MF76014				
EA2010081	EA20100810002	312256-0032	US	Granted	Designated PCT	Transducer with Motion Control	01-Mar-13	101363360	15-Jan-15	2015/0016570 A1	29-Mar-16	9-303-077
EA2010081	EA20100810001	312256-0041	US	Published	Priority	Double Coil Speaker	16-Apr-13	33-872-746	30-Oct-14	2014/0321090		

PATENT

REEL: 039912 FRAME: 0793

Schedule A

KS Family	KS Ref. No.	US Ref. No.	City	Status	Case Type	Title	Filing Date	App. No.	Publ. Date	Publ. No.	Issue Date
KEA2013001	KEA201300117001	112256-0095	CN	Published	Designated PCT	Double Coil Speaker	24-Apr-14	201460023796A	09-Dec-15	105144748A	198-08
KEA2013001	KEA201300117002	112256-0096	DE	Published	Designated PCT	Double Coil Speaker	24-Apr-14	1120440023796A	07-Jan-16	DE 1120440023796A	
KEA2013002	KEA201300215002	112256-0103	US	Application	Designated PCT	Hearing Aid Compatible Mobile Speaker	25-Jun-13	147933528			
KEA2013002	KEA201300217001	112256-0102	CN	Published	Designated PCT	Hearing Aid Compatible Mobile Speaker	25-Jun-13	2034930365719	17-Feb-16	CN 2034930365719A	
KEA2013002	KEA201300217002	112256-0101	DE	Published	Designated PCT	Hearing Aid Compatible Mobile Speaker	25-Jun-13	1120440030333	24-Mar-16	DE 1120440030333	
KEA2013003	KEA201300319001	112256-0017	US	Published	Priority	Speaker With Grained Zeolite Material in Deep-Drawn Foil Resonance Volume	11-Sep-13	147073777	12-Mar-15	US 2015/0187772	
KEA2013003	KEA201300319002	112256-0109	GB	Application	Designated PCT	Speaker With Grained Zeolite Material in Deep-Drawn Foil Resonance Volume	08-Sep-14	2014600350198.2			
KEA2013003	KEA201300319003	112256-0110	DE	Application	Designated PCT	Speaker With Grained Zeolite Material in Deep-Drawn Foil Resonance Volume	08-Sep-14				
KEA2013003	KEA201300319004	112256-0029	WO	Published	Secondary	Speaker With Grained Zeolite Material in Deep-Drawn Foil Resonance Volume	08-Sep-14	WO2014/080378	19-Mar-15	WO 2015/0187977	
KEA2013004	KEA201300415001	112256-0037	US	Published	Secondary	Apparatus with a speaker used as second microphone	19-Nov-14	147547377	21-May-15	US 2015/0188478 A1	
KEA2013004	KEA201300415002	112256-0038	WO	Published	Secondary	Apparatus with a speaker used as second microphone	19-Nov-14	WO2014/080264	16-Apr-15	WO 2015/0188684	
KEA2014001	KEA20140011001	112256-0059	GB	Granted	Utility Model	Multi-layer Membrane for Miniature Loudspeaker	28-Jun-15	201520271398.9			24-Feb-16
KEA2014001	KEA20140011002	112256-0058	US	Published	Secondary	Acoustic Membrane with Asymmetric Layer Arrangement	29-Apr-15	147699548	29-Oct-15	US 2015-0112663 A1	
KEA2014002	KEA20140021001	112256-0028	US	Application	Priority	Coil Stator for Microspeaker	30-Oct-15	147528413			
KEA2015005	KEA20150051001	112256-0049	US	Provisional	Priority	Frameless Audio Transducer	15-Apr-15	627147760			
KEA2015005	KEA20150051002	112256-0123	WO	Application	Secondary	Frameless Audio Transducer for Mobile Applications	15-Apr-16	PCT/NY2016/050023			
KEA2015005	KEA20150051003	112256-0056	US	Provisional	Priority	Supporting Coil Wire	15-Apr-15	627147801			
KEA2015006	KEA20150061001	112256-0062	US	Provisional	Priority	Acoustic Sound Adsorption Material with Attached Spherical Matrix	16-Apr-15	627148481			
KEA2015006	KEA20150061002	112256-0125	US	Application	Secondary	Acoustic Sound Adsorption Material with Attached Spherical Matrix	15-Apr-16	137180138			
KEA2015006	KEA20150061003	112256-0124	WO	Application	Secondary	Acoustic Sound Adsorption Material with Attached Spherical Matrix	15-Apr-16	PCT/NY2016/050024			
KEA2015007	KEA20150071001	112256-0063	US	Provisional	Priority	Acoustic Sound Adsorption Material for Surface Treatment and Method of Using Same	16-Apr-15	627368495			
KEA2015008	KEA20150081001	112256-0064	US	Provisional	Priority	Acoustic Sound Adsorption Material Having Multi-Sized Spines	16-Apr-15	627368507			
KEA2015009	KEA20150091001	112256-0056	US	Provisional	Priority	Capacitor Membrane Positioning Tracking System	18-Sep-15	627358772			
KEA2015011	KEA2015011001	112256-0063	US	Provisional	Priority	Electric Backing Mode Damper for Loudspeaker	20-Jul-15	627194764			
KEA2015012	KEA20150121001	112256-0077	US	Provisional	Priority	Ultrasonic Lens for Acoustic Application	19-Oct-15	627283319			
KEA2015013	KEA20150131001	112256-0078	US	Provisional	Priority	Ultrasonic Noise Sensor	02-Oct-15	627236744			
KEA2015013	KEA20150131002	112256-0079	US	Application	Priority	Integrated Loudspeaker Device Having an Acoustic Chamber Containing Sound Adsorber Material	04-Aug-15	147818063			
KEA2015014	KEA20150141001	112256-0090	US	Application	Priority	Loudspeaker Device Having Foam Insert to Improve Gas Distribution in Sound Adsorber Material	07-Aug-15	147821461			
KEA2015015	KEA20150151001	112256-0088	US	Provisional	Priority	Supporting Frame for Acoustic Membrane and Method of Manufacturing Same	29-Sep-15	627234523			
KEA2015016	KEA20150161002	112256-0084	CN	Application	Utility Model	Loudspeaker Membrane Made via Spray Coating Process	42461	201610270963.5			
KEA2015016	KEA20150161003	112256-0122	GB	Application	Secondary	Loudspeaker Membrane and Method of Making Same via Spray Coating Process	42463	201610203146.5			
KEA2015017	KEA20150171001	112256-0090	US	Provisional	Priority	Electroacoustic Transducer (Droplet)	06-Oct-15	627373961			
KEA2015018	KEA20150181001	112256-0091	US	Provisional	Priority	Electroacoustic Transducer with Flexible Cylindrical Component	06-Oct-15	627231967			
KEB2011001	KEB201100117001	112257-0071	CN	Granted	Utility Model	Magnetic Circuit System and Moving-Coil Electroacoustic Transducer Comprising Same	15-Nov-11	201110457629.1	25-Jun-12	201353800A U	21-03-12 21-04-12 2012 2042 2629.1
KEB2011002	KEB201100217001	112257-0072	CN	Granted	Utility Model	Magnetic Circuit System and Moving-Coil Electroacoustic Transducer Comprising Same	13-Nov-11	201110457649.5	25-Jun-12	201353802 U	21-03-12 21-04-12 2012 2042 2640.5
KEB2011003	KEB201100317001	112257-0070	CN	Granted	Utility Model	Micro Electroacoustic Transducer	27-Dec-11	201120355275.1	22-Sep-12	207455296 U	12-Sep-12 21-03-12 2012 2005 55275.1
KEB2012001	KEB20120011602	112257-0073	CN	Granted	Utility Model	Miniature Electroacoustic Transducer	15-Mar-12	201220097643.9	06-Mar-13	202764315 U	06-Mar-13 21-01-12 2009 7643.9
KEB2012001	KEB201200117001	112256-0042	CN	Granted	Priority	Miniature Electroacoustic Transducer	12-Jun-12	2012109686672.7	18-Jul-12	107582182 A	19-Aug-15 21-01-12 107586672.7

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Schedule A

CS Family	KS Ref. No.	CG Ref. No.	Pub. No.	Status	Class Type	Sub	Title	Publ. Date	Publ. No.	Publ. No.	Publ. No.
KEB2012003	KEB2012003A001	112256-0074	CN	Granted	Utility Model	Micro Speaker	Micro Speaker	27-Mar-12	201201203442	201201203442	201201203442
KEB2012003	KEB2012003A002	112256-0043	CN	Granted	Priority	The Speaker and the Coil Phone	The Speaker and the Coil Phone	04-Jun-12	201201203493	201201203493	201201203493
KEB2012004	KEB2012004A001	112257-0077	CN	Granted	Utility Model	Magnetic Circuit System and Moving-Coil Type Electroacoustic Transducer with the Magnetic Circuit System	Magnetic Circuit System and Moving-Coil Type Electroacoustic Transducer with the Magnetic Circuit System	06-Jul-12	20120120352486	20120120352486	20120120352486
KEB2012005	KEB2012005A001	112257-0078	CN	Granted	Utility Model	Magnetic Circuit System and its Moving-Coil Type Acoustic Transducer	Magnetic Circuit System and its Moving-Coil Type Acoustic Transducer	01-Aug-12	20120120359734	20120120359734	20120120359734
KEB2012006	KEB2012006A001	112257-0078	CN	Granted	Utility Model	A Simple Method of Adjustment in Microspeaker Resonance Frequency	A Simple Method of Adjustment in Microspeaker Resonance Frequency	27-Sep-12	20120120362066	20120120362066	20120120362066
KEB2012007	KEB2012007A001	112256-0069	CN	Granted	Utility Model	Structure for Improved Symmetrical Magnet Assembly for Micro Speaker	Structure for Improved Symmetrical Magnet Assembly for Micro Speaker	05-Jan-14	20120120395883	20120120395883	20120120395883
KEB2012008	KEB2012008A001	112256-0063	CN	Published	Priority	Structure for Improved Symmetrical Magnet Assembly for Micro Speaker	Structure for Improved Symmetrical Magnet Assembly for Micro Speaker	05-Jan-14	20120120395883	20120120395883	20120120395883
KEB2012009	KEB2012009A001	112256-0060	US	Published	Secondary	Structure for Improved Symmetrical Magnet Assembly for Micro Speaker	Structure for Improved Symmetrical Magnet Assembly for Micro Speaker	03-Jun-15	14780105	US 2015 0356756 A1	
KEB2012010	KEB2012010A001	112256-0040	CN	Granted	Utility Model	Vibration Membrane Assembly for Speaker, Speaker and Method for Producing the Assembly	Vibration Membrane Assembly for Speaker, Speaker and Method for Producing the Assembly	13-Aug-15	201500615553	201500615553	201500615553
KEB2012011	KEB2012011A001	112256-0038	CN	Application	Priority	Vibration Membrane Assembly for Speaker, Speaker and Method for Producing the Assembly	Vibration Membrane Assembly for Speaker, Speaker and Method for Producing the Assembly	13-Aug-15	201500615597	201500615597	
KEB2012012	KEB2012012A001	112256-0160	DE	Application	Secondary	Vibration Membrane Assembly for Speaker, Speaker and Method for Producing the Assembly	Vibration Membrane Assembly for Speaker, Speaker and Method for Producing the Assembly	13-Jan-16	1020167003025	1020167003025	
KEB2012013	KEB2012013A001	112256-0163	US	Application	Secondary	Vibration Membrane Assembly for Speaker, Speaker and Method for Producing the Assembly	Vibration Membrane Assembly for Speaker, Speaker and Method for Producing the Assembly	13-Jan-16	14994934	14994934	
KEB2012014	KEB2012014A001	112256-0039	CN	Granted	Utility Model	Vessel for Loudspeaker and Method of Manufacturing Same	Vessel for Loudspeaker and Method of Manufacturing Same	08-Dec-14	20140120760951	20140120760951	20140120760951
KEB2012015	KEB2012015A001	112256-0096	CN	Application	Priority	Vessel for Loudspeaker and Method of Manufacturing Same	Vessel for Loudspeaker and Method of Manufacturing Same	08-Dec-14	2014102401266	2014102401266	
KEB2012016	KEB2012016A001	112256-0096	WO	Application	Secondary	Vessel for Loudspeaker and Method of Manufacturing Same	Vessel for Loudspeaker and Method of Manufacturing Same	25-Nov-15	092035093897	092035093897	
KEB2012017	KEB2012017A001	112256-0036	CN	Application	Priority	Method of Mass Insert Molding for an Acoustic Device	Method of Mass Insert Molding for an Acoustic Device	13-Feb-15	201500791996	201500791996	
KEB2012018	KEB2012018A001	112257-0080	CN	Granted	Utility Model	Diaphragm, Vibration Components and Micro-molding Tool-type Electroacoustic Transducer	Diaphragm, Vibration Components and Micro-molding Tool-type Electroacoustic Transducer	18-Sep-14	201420331513	201420331513	201420331513
KEB2012019	KEB2012019A001	112256-0085	CN	Application	Priority	Method of Forming Moving Coil for Loudspeaker Device	Method of Forming Moving Coil for Loudspeaker Device	10-Sep-15	201500575578	201500575578	
KEB2012020	KEB2012020A001	112256-0057	CN	Application	Utility Model	Method of Forming Moving Coil for Loudspeaker Device	Method of Forming Moving Coil for Loudspeaker Device	10-Sep-15	201500706655	201500706655	
O 097509	O 097509A001	112257-0046	US	Granted	Secondary	Electroacoustic Transducer Comprising Spring Contacts Formed with At Least One Bend	Electroacoustic Transducer Comprising Spring Contacts Formed with At Least One Bend	02-Mar-99	090939001	090939001	06-Jun-00 6,672,886
O 097510	O 097510A001	112257-0047	US	Granted	Designated PCT	Electroacoustic Transducer Comprising a Closing Member for Closing the Rear Volume of the Transducer	Electroacoustic Transducer Comprising a Closing Member for Closing the Rear Volume of the Transducer	02-Mar-99	090939001	090939001	14-Mar-01 6,638,377
O 098504	O 098504A001	112257-0049	US	Granted	Designated PCT	An Electroacoustic Transducer and a Transducer for an Electroacoustic Transducer	An Electroacoustic Transducer and a Transducer for an Electroacoustic Transducer	16-Feb-99	090283234	090283234	13-Jun-00 6,635,266